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# SAR TEST REPORT





The following samples were submitted and identified on behalf of the client as:

**Equipment Under Test** Notebook Computer

**Brand Name** HP

Model No. HSN-I20C HP Inc. **Company Name** 

3390 East Harmony Road, Fort Collins Colorado, 80528 **Company Address** 

**United States** 

IEEE/ANSI C95.1-1992, IEEE 1528-2013, **Standards** 

KDB616217D04v01r02,KDB865664D01v01r04, KDB865664D02v01r02,KDB941225D01v03r01, KDB941225D05v02r05,KDB941225D05Av01r02,

KDB447498D01v06, KDB248227D01v02r02

**FCC ID** B94HNI20CPD

**Date of Receipt** Jul. 09, 2018

Date of Test(s) Jul. 26, 2018 ~ Aug. 02, 2018

**Date of Issue** Aug. 28, 2018

In the configuration tested, the EUT complied with the standards specified above.

#### Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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### Signed on behalf of SGS

| Clerk / Ruby Ou | Asst. Supervisor / Afu Chen | Asst. Manager / John Yeh |
|-----------------|-----------------------------|--------------------------|
| Kuby Ou         | afor Chen                   | John Teh                 |

Date: Aug. 28, 2018

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# **Revision History**

| Report Number | Revision | Description                  | Issue Date    |
|---------------|----------|------------------------------|---------------|
| E5/2018/70020 | Rev.00   | Initial creation of document | Aug. 10, 2018 |
| E5/2018/70020 | Rev.01   | 1 <sup>st</sup> modification | Aug. 20, 2018 |
| E5/2018/70020 | Rev.02   | 2 <sup>nd</sup> modification | Aug. 28, 2018 |
|               |          |                              |               |
|               |          |                              |               |
|               |          |                              |               |
|               |          |                              |               |
|               |          |                              |               |
|               |          |                              |               |
|               |          |                              |               |

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# 1. General Information

# 1.1 Testing Laboratory

| SGS Taiwan Ltd. Electronics & Communication Laboratory                          |                        |  |  |  |  |  |
|---|------------------------|--|--|--|--|--|
| 1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, Neihu District, Taipei City, |                        |  |  |  |  |  |
| 11493, Taiwan.  |                        |  |  |  |  |  |
| Tel +886-2-2299-3279  |                        |  |  |  |  |  |
| Fax +886-2-2298-0488  |                        |  |  |  |  |  |
| Internet  | http://www.tw.sgs.com/ |  |  |  |  |  |

## 1.2 Details of Applicant

| Company Name      | HP Inc.  |
|-------------------|--|
| IL.OMNANV AGGRESS | 3390 East Harmony Road, Fort Collins Colorado, 80528 United States |

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# 1.3 Description of EUT

|                          | 1  |          |                         |   |      |  |  |  |
|--------------------------|--|----------|-------------------------|---|------|--|--|--|
| Equipment Under Test     | Notebook Computer  |          |                         |   |      |  |  |  |
| Brand Name               | HP   |          |                         |   |      |  |  |  |
| Model No.                | HSN-I20C   | HSN-I20C |                         |   |      |  |  |  |
| FCC ID                   | B94HNI20CPD  |          |                         |   |      |  |  |  |
| Integrated Module        | WLAN   |          | lame : Int<br>lame : 82 |   | W    |  |  |  |
| integrated Module        | WWAN   |          | lame : Fil<br>lame : L8 |   |      |  |  |  |
| Mode of Operation        | WCDMA ☑HSDPA ☑HSUPA ☑HSPA+ ☑DC-HSDPA ☑LTE FDD ☑LTE TDD ☑WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80M) ☑Bluetooth |          |                         |   |      |  |  |  |
|                          | WCDMA  | 1        |                         |   |      |  |  |  |
|                          | LTE FDD  | 1        |                         |   |      |  |  |  |
| Duty Cycle               | LTE TDD  | 0.633    |                         |   |      |  |  |  |
|                          | WLAN802.11 a/b/g/n(20M/40N<br>ac(20M/40M/80M)  |          | 1                       |   |      |  |  |  |
|                          | Bluetooth  |          | 1                       |   |      |  |  |  |
|                          | WCDMA Band II  |          | 1850                    | _ | 1910 |  |  |  |
|                          | WCDMA Band IV  |          | 1710                    | _ | 1755 |  |  |  |
|                          | WCDMA Band V   |          | 824                     | _ | 849  |  |  |  |
|                          | LTE FDD Band 2   |          | 1850                    |   | 1910 |  |  |  |
| TX Frequency Range (MHz) | LTE FDD Band 4   |          | 1710                    | _ | 1755 |  |  |  |
| (···· 12)                | LTE FDD Band 5   |          | 824                     | _ | 849  |  |  |  |
|                          | LTE FDD Band 7   |          | 2500                    | _ | 2570 |  |  |  |
|                          | LTE FDD Band 12  |          | 699                     | _ | 716  |  |  |  |
|                          | LTE FDD Band 13  |          | 777                     | _ | 787  |  |  |  |

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|  | LTE FDD Band 17                  | 704   | _    | 716   |
|--|----------------------------------|-------|------|-------|
|  | LTE FDD Band 26                  | 814   | _    | 849   |
|  | LTE FDD Band 30                  | 2305  | _    | 2315  |
|  | LTE TDD Band 38                  | 2570  | _    | 2620  |
|  | LTE TDD Band 41                  | 2496  | _    | 2690  |
|  | LTE FDD Band 66                  | 1710  | _    | 1780  |
|  | WLAN802.11 b/g/n(20M)            | 2412  | _    | 2472  |
|  | WLAN802.11 n(40M)                | 2422  | _    | 2462  |
|  | WLAN802.11 a/n(20M)/ac(20M) 5.2G | 5180  | _    | 5240  |
|  | WLAN802.11 n(40M)/ac(40M) 5.2G   | 5190  | _    | 5230  |
| TX Frequency Range (MHz)               | WLAN802.11 ac(80M) 5.2G          |       | 5210 |       |
| (WI 12)                                | WLAN802.11 a/n(20M)/ac(20M) 5.3G | 5260  | _    | 5320  |
|  | WLAN802.11 n(40M)/ac(40M) 5.3G   | 5270  | _    | 5310  |
|  | WLAN802.11 ac(80M) 5.3G          |       | 5290 |       |
|  | WLAN802.11 a/n/ac(20M) 5.6G      | 5500  | _    | 5720  |
|  | WLAN802.11 n/ac(40M) 5.6G        | 5510  | _    | 5710  |
|  | WLAN802.11 ac(80M) 5.6G          | 5530  | _    | 5690  |
|  | WLAN802.11 a/n(20M)/ac(20M) 5.8G | 5745  | _    | 5825  |
|  | WLAN802.11 n(40M)/ac(40M) 5.8G   | 5710  | _    | 5795  |
|  | WLAN802.11 ac(80M) 5.8G          |       | 5775 |       |
|  | Bluetooth                        | 2402  | _    | 2480  |
|  | WCDMA Band II                    | 9262  | _    | 9538  |
|  | WCDMA Band IV                    | 1312  | _    | 1513  |
|  | WCDMA Band V                     | 4132  | _    | 4233  |
| Channel Number (ARFCN)                 | LTE FDD Band 2                   | 18607 | _    | 19193 |
| (, , , , , , , , , , , , , , , , , , , | LTE FDD Band 4                   | 19957 | _    | 20393 |
|  | LTE FDD Band 5                   | 20407 | _    | 20643 |
|  | LTE FDD Band 7                   | 20775 | _    | 21425 |

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| LTE FDD Band 12                  | 23017  | _   | 23173  |
|----------------------------------|--|---|--|
| LTE FDD Band 13                  | 23205  | _   | 23255  |
| LTE FDD Band 17                  | 23755  | _   | 23825  |
| LTE FDD Band 26                  | 26697  | _   | 27033  |
| LTE FDD Band 30                  | 27685  | _   | 27735  |
| LTE TDD Band 38                  | 37775  | _   | 38225  |
| LTE TDD Band 41                  | 39675  | _   | 41565  |
| LTE FDD Band 66                  | 131979   | _   | 132665   |
| WLAN802.11 b/g/n(20M)            | 1  | _   | 13   |
| WLAN802.11 n(40M)                | 3  | _   | 11   |
| WLAN802.11 a/n(20M)/ac(20M) 5.2G | 36   | _   | 48   |
| WLAN802.11 n(40M)/ac(40M) 5.2G   | 38   | _   | 46   |
| WLAN802.11 ac(80M) 5.2G          |  | 42  |  |
| WLAN802.11 a/n(20M)/ac(20M) 5.3G | 52   | _   | 64   |
| WLAN802.11 n(40M)/ac(40M) 5.3G   | 54   | _   | 62   |
| WLAN802.11 ac(80M) 5.3G          |  | 58  |  |
| WLAN802.11 a/n/ac(20M) 5.6G      | 100  | _   | 144  |
| WLAN802.11 n/ac(40M) 5.6G        | 102  | _   | 142  |
| WLAN802.11 ac(80M) 5.6G          | 106  | _   | 138  |
| WLAN802.11 a/n(20M)/ac(20M) 5.8G | 149  | _   | 165  |
| WLAN802.11 n(40M)/ac(40M) 5.8G   | 151  | _   | 159  |
| WLAN802.11 ac(80M) 5.8G          |  | 155   |  |
| Bluetooth                        | 0  | _   | 78   |
|                                  | LTE FDD Band 13  LTE FDD Band 17  LTE FDD Band 26  LTE FDD Band 30  LTE TDD Band 38  LTE TDD Band 66  WLAN802.11 b/g/n(20M)  WLAN802.11 n(40M)  WLAN802.11 a/n(20M)/ac(20M) 5.2G  WLAN802.11 ac(80M) 5.2G  WLAN802.11 ac(80M) 5.2G  WLAN802.11 a/n(20M)/ac(20M) 5.3G  WLAN802.11 ac(80M) 5.3G  WLAN802.11 ac(80M) 5.3G  WLAN802.11 ac(80M) 5.3G  WLAN802.11 a/n/ac(20M) 5.6G  WLAN802.11 ac(80M) 5.8G  WLAN802.11 ac(80M) 5.8G | LTE FDD Band 13  LTE FDD Band 17  LTE FDD Band 26  LTE FDD Band 30  LTE FDD Band 38  LTE TDD Band 41  September 39675  LTE TDD Band 66  WLAN802.11 b/g/n(20M)  WLAN802.11 n(40M)  WLAN802.11 a/n(20M)/ac(20M) 5.2G  WLAN802.11 a/n(20M)/ac(20M) 5.3G  WLAN802.11 a/n(20M)/ac(20M) 5.3G  WLAN802.11 a(80M) 5.2G  WLAN802.11 a(80M) 5.3G  WLAN802.11 ac(80M) 5.3G  WLAN802.11 ac(80M) 5.6G  WLAN802.11 an(20M)/ac(20M) 5.8G  WLAN802.11 ac(80M) 5.6G  WLAN802.11 ac(80M) 5.6G  WLAN802.11 an(20M)/ac(20M) 5.8G  WLAN802.11 ac(80M) 5.6G  WLAN802.11 ac(80M) 5.6G  WLAN802.11 ac(80M) 5.6G | LTE FDD Band 13  LTE FDD Band 17  LTE FDD Band 26  LTE FDD Band 30  LTE FDD Band 38  LTE TDD Band 41  September 39675  LTE TDD Band 66  LTE TDD Band 66  WLAN802.11 b/g/n(20M)  WLAN802.11 a/n(20M)/ac(20M) 5.2G  WLAN802.11 a/n(20M)/ac(20M) 5.3G  WLAN802.11 a/n(20M)/ac(20M) 5.3G  WLAN802.11 a/n(20M)/ac(20M) 5.3G  WLAN802.11 a/n(20M)/ac(20M) 5.3G  WLAN802.11 a/n(20M)/ac(40M) 5.3G  WLAN802.11 a/n/ac(20M) 5.6G  WLAN802.11 a/n/ac(20M) 5.6G  WLAN802.11 a/n/ac(40M) 5.6G  WLAN802.11 a/n(20M)/ac(20M) 5.8G  MLAN802.11 a/n(20M)/ac(20M) 5.8G  WLAN802.11 a/n(20M)/ac(20M) 5.8G  MLAN802.11 a/n(20M)/ac(40M) 5.8G  MLAN802.11 a/n(20M)/ac(40M) 5.8G  MLAN802.11 ac(80M) 5.8G |

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| Max. SAR (1 g) (Unit: W/Kg) |          |          |         |           |  |  |  |  |
|-----------------------------|----------|----------|---------|-----------|--|--|--|--|
| Band                        | Measured | Reported | Channel | Position  |  |  |  |  |
| WCDMA Band II               | 1.36     | 1.38     | 9262    | Left side |  |  |  |  |
| WCDMA Band IV               | 1.28     | 1.30     | 1513    | Left side |  |  |  |  |
| WCDMA Band V                | 1.41     | 1.43     | 4233    | Left side |  |  |  |  |
| LTE FDD Band 2              | 1.34     | 1.38     | 18700   | Left side |  |  |  |  |
| LTE FDD Band 4              | 1.33     | 1.36     | 20300   | Left side |  |  |  |  |
| LTE FDD Band 5              | 1.27     | 1.28     | 20600   | Left side |  |  |  |  |
| LTE FDD Band 7              | 0.40     | 0.40     | 21100   | Top side  |  |  |  |  |
| LTE FDD Band 12             | 1.30     | 1.36     | 23060   | Left side |  |  |  |  |
| LTE FDD Band 13             | 1.24     | 1.36     | 23230   | Left side |  |  |  |  |
| LTE FDD Band 17             | 1.29     | 1.29     | 23780   | Left side |  |  |  |  |
| LTE FDD Band 26             | 1.29     | 1.30     | 26965   | Left side |  |  |  |  |
| LTE FDD Band 30             | 0.97     | 0.97     | 27710   | Left side |  |  |  |  |
| LTE TDD Band 38             | 0.56     | 0.75     | 38000   | Top side  |  |  |  |  |
| LTE TDD Band 41             | 0.61     | 0.87     | 40185   | Top side  |  |  |  |  |
| LTE FDD Band 66             | 1.41     | 1.43     | 132572  | Left side |  |  |  |  |

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|         | Max. SAR (1g) (Unit: W/Kg) |          |          |         |          |  |  |  |  |
|---------|----------------------------|----------|----------|---------|----------|--|--|--|--|
| Antenna | Band                       | Measured | Reported | Channel | Position |  |  |  |  |
|         | WLAN802.11 b               | 0.69     | 0.70     | 1       | Top side |  |  |  |  |
|         | WLAN802.11 n(40M) 5.2G     | 0.66     | 0.68     | 46      | Top side |  |  |  |  |
| Main    | WLAN802.11 n(40M) 5.3G     | 0.52     | 0.53     | 54      | Top side |  |  |  |  |
|         | WLAN802.11 ac(80M) 5.6G    | 0.62     | 0.64     | 138     | Top side |  |  |  |  |
|         | WLAN802.11 ac(80M) 5.8G    | 0.66     | 0.68     | 155     | Top side |  |  |  |  |
|         | WLAN802.11 b               | 0.54     | 0.54     | 1       | Top side |  |  |  |  |
|         | Bluetooth(GFSK)            | 0.11     | 0.12     | 39      | Top side |  |  |  |  |
|         | WLAN802.11 n(40M) 5.2G     | 0.76     | 0.77     | 38      | Top side |  |  |  |  |
| Aux     | WLAN802.11 n(40M) 5.3G     | 0.65     | 0.68     | 54      | Top side |  |  |  |  |
|         | WLAN802.11 ac(80M) 5.6G    | 0.77     | 0.80     | 138     | Top side |  |  |  |  |
|         | WLAN802.11 ac(80M) 5.8G    | 0.65     | 0.65     | 155     | Top side |  |  |  |  |

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#### **Antenna Information**

#### WI AN

| VVLAIN      |                               |             |            |        |                       |             |            |        |
|-------------|-------------------------------|-------------|------------|--------|-----------------------|-------------|------------|--------|
| Tablet mode |                               |             |            |        |                       |             |            |        |
| Vendor      |                               | INP         | PAQ        | INPAQ  |                       |             |            |        |
| Antenna     |                               | Main        | (PIFA)     |        |                       | Aux (       | PIFA)      |        |
| Part Number | 60361                         | B0216001 (\ | WA-P-LB-02 | 2-496) | 60361                 | 30215901 (\ | VA-P-LB-02 | :-495) |
| Frequency   | 2.4G                          | 5.2G        | 5.5G       | 5.8G   | 3 2.4G 5.2G 5.5G      |             |            | 5.8G   |
| Gain (dBi)  | -2.41                         | -0.54       | 0.75       | 2.12   | -2.37                 | -1.93       | -1.96      | 1.62   |
|             |                               |             | NE         | 3 mode |                       |             |            |        |
| Vendor      |                               | INP         | PAQ        |        |                       | INP         | PAQ        |        |
| Antenna     |                               | Main        | (PIFA)     |        |                       | Aux (       | PIFA)      |        |
| Part Number | 6036B0216001 (WA-P-LB-02-496) |             |            | 60361  | 30215901 (V           | VA-P-LB-02  | 495)       |        |
| Frequency   | 2.4G                          | 5.2G        | 5.5G       | 5.8G   | G 2.4G 5.2G 5.5G 5.8G |             |            | 5.8G   |
| Gain (dBi)  | -1.38                         | -0.65       | -0.17      | 0.39   | -1.13                 | -1.47       | 0.20       | 0.58   |

#### **WWAN**

| Vendor      |       | INPAQ                           |       |       |       |       |  |
|-------------|-------|---------------------------------|-------|-------|-------|-------|--|
| Antenna     |       | Couple                          |       |       |       |       |  |
| Part Number |       | 6036B0215701(WA-P-LTE12-02-008) |       |       |       |       |  |
| Frequency   | 750   | 750 835 1750 1900 2300 2600     |       |       |       |       |  |
| Gain (dBi)  | -5.09 | -3.61                           | -4.69 | -5.17 | -4.11 | -4.57 |  |

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# WCDMA Band II / Band IV / Band V - HSDPA / HSUPA / HSPA+ / DC-HSDPA conducted power table (Full power):

Unit: dBm

| Offic. abili    |                            |       |         |       |  |  |
|-----------------|----------------------------|-------|---------|-------|--|--|
|                 | Band                       | \     | WCDMA I |       |  |  |
|                 | 9262                       | 9400  | 9538    |       |  |  |
| Fre             | Frequency (MHz)            |       |         |       |  |  |
| Max. Rated Avg. | Power+Max. Tolerance (dBm) |       | 24.50   |       |  |  |
| 3GPP Rel 99     | RMC 12.2Kbps               | 23.70 | 23.67   | 23.18 |  |  |
|                 | HSDPA Subtest-1            | 23.45 | 23.44   | 22.94 |  |  |
| 3GPP Rel 5      | HSDPA Subtest-2            | 23.41 | 23.46   | 22.95 |  |  |
| SGFF Rei S      | HSDPA Subtest-3            | 22.95 | 22.95   | 22.47 |  |  |
|                 | HSDPA Subtest-4            | 22.90 | 22.81   | 22.41 |  |  |
|                 | HSUPA Subtest-1            | 23.42 | 23.38   | 22.92 |  |  |
|                 | HSUPA Subtest-2            | 21.41 | 21.45   | 20.90 |  |  |
| 3GPP Rel 6      | HSUPA Subtest-3            | 22.41 | 22.47   | 22.40 |  |  |
|                 | HSUPA Subtest-4            | 21.45 | 21.43   | 20.92 |  |  |
|                 | HSUPA Subtest-5            | 23.45 | 23.46   | 22.92 |  |  |
| 3GPP Rel 7      | HSPA+ Subtest-1            | 23.41 | 23.42   | 22.90 |  |  |
|                 | DC-HSDPA Subtest-1         | 23.32 | 23.37   | 22.87 |  |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-2         | 23.37 | 23.33   | 22.83 |  |  |
| JOFF Nel 0      | DC-HSDPA Subtest-3         | 22.87 | 22.81   | 22.44 |  |  |
|                 | DC-HSDPA Subtest-4         | 22.79 | 22.78   | 22.37 |  |  |

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|                 | ΙV                         | VCDMA I | V       |        |  |
|-----------------|----------------------------|---------|---------|--------|--|
|                 | 1312                       | 1412    | 1513    |        |  |
|                 | TX Channel equency (MHz)   | 1712.4  | 1732.4  | 1752.6 |  |
|                 | Power+Max. Tolerance (dBm) | 24.50   |         |        |  |
| 3GPP Rel 99     | RMC 12.2Kbps               | 23.36   | 23.54   | 23.85  |  |
|                 | HSDPA Subtest-1            | 22.98   | 23.17   | 23.47  |  |
| 2000 Dal 5      | HSDPA Subtest-2            | 23.00   | 23.15   | 23.46  |  |
| 3GPP Rel 5      | HSDPA Subtest-3            | 22.51   | 22.66   | 23.00  |  |
|                 | HSDPA Subtest-4            | 22.47   | 22.69   | 23.03  |  |
|                 | HSUPA Subtest-1            | 22.96   | 23.11   | 23.48  |  |
|                 | HSUPA Subtest-2            | 21.47   | 21.59   | 21.97  |  |
| 3GPP Rel 6      | HSUPA Subtest-3            | 22.45   | 22.62   | 23.01  |  |
|                 | HSUPA Subtest-4            | 21.49   | 21.58   | 21.96  |  |
|                 | HSUPA Subtest-5            | 22.96   | 23.09   | 23.40  |  |
| 3GPP Rel 7      | HSPA+ Subtest-1            | 22.95   | 23.06   | 23.47  |  |
|                 | DC-HSDPA Subtest-1         | 22.97   | 23.05   | 23.41  |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-2         | 22.90   | 23.10   | 23.43  |  |
| SGPP Rei o      | DC-HSDPA Subtest-3         | 22.42   | 22.59   | 22.93  |  |
|                 | DC-HSDPA Subtest-4         | 22.38   | 22.54   | 22.87  |  |
|                 | Band                       | \       | NCDMA \ | /      |  |
|                 | TX Channel                 | 4132    | 4183    | 4233   |  |
| Fre             | equency (MHz)              | 826.4   | 836.6   | 846.6  |  |
| Max. Rated Avg. | Power+Max. Tolerance (dBm) |         | 24.50   |        |  |
| 3GPP Rel 99     | RMC 12.2Kbps               | 24.31   | 24.32   | 24.49  |  |
|                 | HSDPA Subtest-1            | 24.28   | 24.26   | 24.44  |  |
| 3GPP Rel 5      | HSDPA Subtest-2            | 24.25   | 24.24   | 24.43  |  |
| JOHN NEID       | HSDPA Subtest-3            | 23.73   | 23.75   | 23.93  |  |
|                 | HSDPA Subtest-4            | 23.77   | 23.78   | 23.75  |  |
|                 | HSUPA Subtest-1            | 24.23   | 24.22   | 24.42  |  |
|                 | HSUPA Subtest-2            | 22.63   | 22.63   | 22.72  |  |
| 3GPP Rel 6      | HSUPA Subtest-3            | 23.21   | 23.22   | 23.43  |  |
|                 | HSUPA Subtest-4            | 22.61   | 22.65   | 22.78  |  |
|                 | HSUPA Subtest-5            | 24.22   | 24.23   | 24.43  |  |
| 3GPP Rel 7      | HSPA+ Subtest-1            | 24.20   | 24.22   | 24.41  |  |
|                 | DC-HSDPA Subtest-1         | 24.14   | 24.25   | 24.34  |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-2         | 24.22   | 24.17   | 24.37  |  |
| JOH I KEI U     | DC-HSDPA Subtest-3         | 23.60   | 23.64   | 23.87  |  |
|                 | DC-HSDPA Subtest-4         | 23.54   | 23.66   | 23.67  |  |

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# WCDMA Band II / Band IV / Band V - HSDPA / HSUPA / HSPA+ / DC-HSDPA conducted power table(Reduced power):

Unit: dBm

|                 | Band               | 1     | NCDMA I |       |  |  |
|-----------------|--------------------|-------|---------|-------|--|--|
|                 | TX Channel         |       |         |       |  |  |
| Fre             | Frequency (MHz)    |       |         |       |  |  |
| Max. Rated Avg. |                    | 17.50 |         |       |  |  |
| 3GPP Rel 99     | RMC 12.2Kbps       | 17.45 | 17.43   | 16.92 |  |  |
|                 | HSDPA Subtest-1    | 17.42 | 17.41   | 16.85 |  |  |
| 3GPP Rel 5      | HSDPA Subtest-2    | 17.37 | 17.39   | 16.84 |  |  |
| SGFF Rei S      | HSDPA Subtest-3    | 17.39 | 17.38   | 16.83 |  |  |
|                 | HSDPA Subtest-4    | 17.40 | 17.38   | 16.84 |  |  |
|                 | HSUPA Subtest-1    | 17.41 | 17.41   | 16.85 |  |  |
|                 | HSUPA Subtest-2    | 17.40 | 17.41   | 16.86 |  |  |
| 3GPP Rel 6      | HSUPA Subtest-3    | 17.42 | 17.40   | 16.84 |  |  |
|                 | HSUPA Subtest-4    | 17.40 | 17.39   | 16.89 |  |  |
|                 | HSUPA Subtest-5    | 17.39 | 17.38   | 16.84 |  |  |
| 3GPP Rel 7      | HSPA+ Subtest-1    | 17.35 | 17.34   | 16.82 |  |  |
|                 | DC-HSDPA Subtest-1 | 17.39 | 17.27   | 16.77 |  |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 17.29 | 17.29   | 16.79 |  |  |
| JOI I Kelo      | DC-HSDPA Subtest-3 | 17.30 | 17.34   | 16.83 |  |  |
|                 | DC-HSDPA Subtest-4 | 17.27 | 17.34   | 16.78 |  |  |

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|                 | Band                       | V      | VCDMA I | V      |
|-----------------|----------------------------|--------|---------|--------|
|                 | 1312                       | 1412   | 1513    |        |
| Fre             | equency (MHz)              | 1712.4 | 1732.4  | 1752.6 |
| Max. Rated Avg. | Power+Max. Tolerance (dBm) |        | 18.50   |        |
| 3GPP Rel 99     | RMC 12.2Kbps               | 18.18  | 18.31   | 18.48  |
|                 | HSDPA Subtest-1            | 18.07  | 18.23   | 18.45  |
| 3GPP Rel 5      | HSDPA Subtest-2            | 18.10  | 18.22   | 18.46  |
| JOFF Nei J      | HSDPA Subtest-3            | 18.11  | 18.26   | 18.45  |
|                 | HSDPA Subtest-4            | 18.12  | 18.25   | 18.45  |
|                 | HSUPA Subtest-1            | 18.09  | 18.22   | 18.46  |
|                 | HSUPA Subtest-2            | 18.08  | 18.24   | 18.45  |
| 3GPP Rel 6      | HSUPA Subtest-3            | 18.06  | 18.21   | 18.45  |
|                 | HSUPA Subtest-4            | 18.09  | 18.19   | 18.40  |
|                 | HSUPA Subtest-5            | 18.07  | 18.22   | 18.43  |
| 3GPP Rel 7      | HSPA+ Subtest-1            | 18.05  | 18.20   | 18.40  |
|                 | DC-HSDPA Subtest-1         | 17.96  | 18.13   | 18.43  |
| 3GPP Rel 8      | DC-HSDPA Subtest-2         | 17.99  | 18.10   | 18.44  |
| JOFF Nero       | DC-HSDPA Subtest-3         | 17.97  | 18.17   | 18.42  |
|                 | DC-HSDPA Subtest-4         | 18.03  | 18.23   | 18.44  |
|                 | Band                       | \      | NCDMA \ | /      |
|                 | TX Channel                 | 4132   | 4183    | 4233   |
| Fre             | equency (MHz)              | 826.4  | 836.6   | 846.6  |
| Max. Rated Avg. | Power+Max. Tolerance (dBm) |        | 22.50   |        |
| 3GPP Rel 99     | RMC 12.2Kbps               | 22.28  | 22.26   | 22.45  |
|                 | HSDPA Subtest-1            | 22.24  | 22.19   | 22.42  |
| 3GPP Rel 5      | HSDPA Subtest-2            | 22.25  | 22.21   | 22.43  |
| JOHN NEI J      | HSDPA Subtest-3            | 21.76  | 22.23   | 22.06  |
|                 | HSDPA Subtest-4            | 21.51  | 21.96   | 21.83  |
|                 | HSUPA Subtest-1            | 22.21  | 22.20   | 22.43  |
|                 | HSUPA Subtest-2            | 22.22  | 22.21   | 22.44  |
| 3GPP Rel 6      | HSUPA Subtest-3            | 21.68  | 22.24   | 22.03  |
|                 | HSUPA Subtest-4            | 22.26  | 22.25   | 22.43  |
|                 | HSUPA Subtest-5            | 22.20  | 22.25   | 22.43  |
| 3GPP Rel 7      | HSPA+ Subtest-1            | 22.18  | 22.22   | 22.40  |
|                 | DC-HSDPA Subtest-1         | 22.20  | 22.07   | 22.39  |
| 3GPP Rel 8      | DC-HSDPA Subtest-2         | 22.24  | 22.12   | 22.43  |
| 1 2011 1/610    | DO HODDA O LL LO           | 24 60  | 22.20   | 22.04  |
|                 | DC-HSDPA Subtest-3         | 21.68  | 22.20   | 22.01  |

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#### Sub-Test for HSDPA

| SUB-TEST | $\beta_{c}$ | $\beta_{d}$ | β <sub>d</sub><br>(SF) | $\beta_c/\beta_d$ | β <sub>HS</sub><br>(Note1, Note 2) | CM (dB)<br>(Note 3) | MPR (dB)<br>(Note 3) |
|----------|-------------|-------------|------------------------|-------------------|------------------------------------|---------------------|----------------------|
| 1        | 2/15        | 15/15       | 64                     | 2/15              | 4/15                               | 0.0                 | 0.0                  |
| 2        | 12/15       | 15/15       | 64                     | 12/15             | 24/15                              | 1.0                 | 0.0                  |
| 3        | 15/15       | 8/15        | 64                     | 15/8              | 30/15                              | 1.5                 | 0.5                  |
| 4        | 15/15       | 4/15        | 64                     | 15/4              | 30/15                              | 1.5                 | 0.5                  |

#### Sub-Test for HSUPA

| SUB-TEST | βς    | β <sub>d</sub> | β <sub>d</sub><br>(SF) | β <sub>c</sub> /β <sub>d</sub> | β <sub>HS</sub><br>(Note1) | β <sub>ec</sub> | β <sub>ed</sub><br>(Note 5)<br>(Note 6)              | β <sub>ed</sub><br>(SF) | β <sub>ed</sub><br>(Codes) | CM<br>(dB)<br>(Note 2) | MPR<br>(dB)<br>(Note 2) | AG<br>Index<br>(Note 6) | E-TFCI |
|----------|-------|----------------|------------------------|--------------------------------|----------------------------|-----------------|--|-------------------------|----------------------------|------------------------|-------------------------|-------------------------|--------|
| 1        | 11/15 | 15/15          | 64                     | 11/15                          | 22/15                      | 209/225         | 1309/225   | 4                       | 1                          | 1.0                    | 0.0                     | 20                      | 75     |
| 2        | 6/15  | 15/15          | 64                     | 6/15                           | 12/15                      | 12/15           | 94/75  | 4                       | 1                          | 3.0                    | 2.0                     | 12                      | 67     |
| 3        | 15/15 | 9/15           | 64                     | 15/9                           | 30/15                      | 30/15           | β <sub>ed</sub> 1: 47/15<br>β <sub>ed</sub> 2: 47/15 | 4<br>4                  | 2                          | 2.0                    | 1.0                     | 15                      | 92     |
| 4        | 2/15  | 15/15          | 64                     | 2/15                           | 4/15                       | 2/15            | 56/75  | 4                       | 1                          | 3.0                    | 2.0                     | 17                      | 71     |
| 5        | 15/15 | 15/15          | 64                     | 15/15                          | 30/15                      | 24/15           | 134/15   | 4                       | 1                          | 1.0                    | 0.0                     | 21                      | 81     |

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# LTE FDD Band 2 / Band 4 / Band 5 / Band 7 / Band 12 / Band 13 / Band 17 / Band 26 / Band 30 / Band 66 power table (Full power):

|         | / Dallu 3  |         | ос роше.  | FDD Band 2         | poo.    | · <del>/ -</del>      |  |                                |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |
|         |            |         |           | 1860               | 18700   | 23.30                 | 24   | 0                              |
|         |            |         | 0         | 1880               | 18900   | 22.93                 | 24   | 0                              |
|         |            |         |           | 1900               | 19100   | 22.83                 | 24   | 0                              |
|         |            |         |           | 1860               | 18700   | 23.02                 | 24   | 0                              |
|         |            | 1 RB    | 50        | 1880               | 18900   | 23.21                 | 24   | 0                              |
|         |            |         |           | 1900               | 19100   | 22.53                 | 24   | 0                              |
|         |            |         |           | 1860               | 18700   | 23.00                 | 24   | 0                              |
|         |            |         | 99        | 1880               | 18900   | 22.87                 | 24   | 0                              |
|         |            |         |           | 1900               | 19100   | 22.68                 | 24   | 0                              |
|         |            | QPSK    |           | 1860               | 18700   | 22.07                 | 23   | 0-1                            |
|         | QPSK       |         | 0         | 1880               | 18900   | 22.16                 | 23   | 0-1                            |
|         | 50         |         |           | 1900               | 19100   | 21.67                 | 23   | 0-1                            |
|         |            |         |           | 1860               | 18700   | 21.97                 | 23   | 0-1                            |
|         |            | 50 RB   | 25        | 1880               | 18900   | 22.18                 | 23   | 0-1                            |
|         |            |         | 1900      | 19100              | 21.59   | 23                    | 0-1  |                                |
|         |            |         |           | 1860               | 18700   | 21.90                 | 23   | 0-1                            |
|         |            |         | 50        | 1880               | 18900   | 22.09                 | 23   | 0-1                            |
|         |            |         |           | 1900               | 19100   | 21.65                 | 23   | 0-1                            |
|         |            |         | •         | 1860               | 18700   | 22.17                 | 23   | 0-1                            |
|         |            | 100     | )RB       | 1880               | 18900   | 22.29                 | 23   | 0-1                            |
| 00      |            |         |           | 1900               | 19100   | 21.86                 | 23   | 0-1                            |
| 20      |            |         | 0         | 1860               | 18700   | 22.01                 | 23   | 0-1                            |
|         |            |         |           | 1880               | 18900   | 22.23                 | 23   | 0-1                            |
|         |            |         |           | 1900               | 19100   | 21.53                 | 23   | 0-1                            |
|         |            |         |           | 1860               | 18700   | 21.80                 | 23   | 0-1                            |
|         |            | 1 RB    | 50        | 1880               | 18900   | 22.70                 | 23   | 0-1                            |
|         |            |         |           | 1900               | 19100   | 21.15                 | 23   | 0-1                            |
|         |            |         |           | 1860               | 18700   | 22.12                 | 23   | 0-1                            |
|         |            |         | 99        | 1880               | 18900   | 22.20                 | 23   | 0-1                            |
|         |            |         |           | 1900               | 19100   | 21.84                 | 23   | 0-1                            |
|         |            |         |           | 1860               | 18700   | 21.21                 | 22   | 0-2                            |
|         | 16-QAM     |         | 0         | 1880               | 18900   | 21.19                 | 22   | 0-2                            |
|         |            |         |           | 1900               | 19100   | 20.72                 | 22   | 0-2                            |
|         |            |         |           | 1860               | 18700   | 20.95                 | 22   | 0-2                            |
|         |            | 50 RB   | 25        | 1880               | 18900   | 21.25                 | 22   | 0-2                            |
|         |            |         | 1900      | 19100              | 20.59   | 22                    | 0-2  |                                |
|         |            |         |           | 1860               | 18700   | 20.96                 | 22   | 0-2                            |
|         |            |         | 50        | 1880               | 18900   | 21.16                 | 22   | 0-2                            |
|         |            |         |           | 1900               | 19100   | 20.62                 | 22   | 0-2                            |
|         |            |         |           | 1860               | 18700   | 21.10                 | 22   | 0-2                            |
|         |            | 100     | )RB       | 1880               | 18900   | 21.27                 | 22   | 0-2                            |
|         |            |         |           | 1900               | 19100   | 20.77                 | 22   | 0-2                            |

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|         |            |         |           | FDD Band 2         |         |                       |  |                                |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |
|         |            |         |           | 1857.5             | 18675   | 23.24                 | 24   | 0                              |
|         |            |         | 0         | 1880               | 18900   | 23.19                 | 24   | 0                              |
|         |            |         |           | 1902.5             | 19125   | 22.62                 | 24   | 0                              |
|         |            |         |           | 1857.5             | 18675   | 23.06                 | 24   | 0                              |
|         |            | 1 RB    | 36        | 1880               | 18900   | 23.19                 | 24   | 0                              |
|         |            |         |           | 1902.5             | 19125   | 22.51                 | 24   | 0                              |
|         |            |         |           | 1857.5             | 18675   | 22.93                 | 24   | 0                              |
|         |            |         | 74        | 1880               | 18900   | 23.12                 | 24   | 0                              |
|         |            |         |           | 1902.5             | 19125   | 22.69                 | 24   | 0                              |
|         |            | QPSK    |           | 1857.5             | 18675   | 22.07                 | 23   | 0-1                            |
|         | QPSK       |         | 0         | 1880               | 18900   | 22.17                 | 23   | 0-1                            |
|         |            |         |           | 1902.5             | 19125   | 21.57                 | 23   | 0-1                            |
|         |            |         |           | 1857.5             | 18675   | 22.08                 | 23   | 0-1                            |
|         |            | 36 RB   | 18        | 1880               | 18900   | 22.22                 | 23   | 0-1                            |
|         |            |         |           | 1902.5             | 19125   | 21.56                 | 23   | 0-1                            |
|         |            |         |           | 1857.5             | 18675   | 21.97                 | 23   | 0-1                            |
|         |            |         | 37        | 1880               | 18900   | 22.17                 | 23   | 0-1                            |
|         |            |         |           | 1902.5             | 19125   | 21.62                 | 23   | 0-1                            |
|         |            |         |           | 1857.5             | 18675   | 22.10                 | 23   | 0-1                            |
|         |            | 75      | RB        | 1880               | 18900   | 22.19                 | 23   | 0-1                            |
| 15      |            |         |           | 1902.5             | 19125   | 21.53                 | 23   | 0-1                            |
| 10      |            |         |           | 1857.5             | 18675   | 22.38                 | 23   | 0-1                            |
|         |            |         | 0         | 1880               | 18900   | 22.71                 | 23   | 0-1                            |
|         |            |         |           | 1902.5             | 19125   | 21.28                 | 23   | 0-1                            |
|         |            |         |           | 1857.5             | 18675   | 22.35                 | 23   | 0-1                            |
|         |            | 1 RB    | 36        | 1880               | 18900   | 22.11                 | 23   | 0-1                            |
|         |            |         |           | 1902.5             | 19125   | 22.03                 | 23   | 0-1                            |
|         |            |         |           | 1857.5             | 18675   | 21.73                 | 23   | 0-1                            |
|         |            |         | 74        | 1880               | 18900   | 22.40                 | 23   | 0-1                            |
|         |            |         |           | 1902.5             | 19125   | 21.83                 | 23   | 0-1                            |
|         |            |         |           | 1857.5             | 18675   | 21.22                 | 22   | 0-2                            |
|         | 16-QAM     |         | 0         | 1880               | 18900   | 21.21                 | 22   | 0-2                            |
|         |            |         |           | 1902.5             | 19125   | 20.68                 | 22   | 0-2                            |
|         |            |         |           | 1857.5             | 18675   | 21.14                 | 22   | 0-2                            |
|         | 36 F       | 36 RB   | 18        | 1880               | 18900   | 21.21                 | 22   | 0-2                            |
|         |            |         |           | 1902.5             | 19125   | 20.59                 | 22   | 0-2                            |
|         |            |         |           | 1857.5             | 18675   | 21.05                 | 22   | 0-2                            |
|         |            |         | 37        | 1880               | 18900   | 21.16                 | 22   | 0-2                            |
|         |            |         |           | 1902.5             | 19125   | 20.67                 | 22   | 0-2                            |
|         |            |         | DD        | 1857.5             | 18675   | 21.04                 | 22   | 0-2                            |
|         |            | 75      | RB        | 1880               | 18900   | 21.19                 | 22   | 0-2                            |
|         |            |         |           | 1902.5             | 19125   | 20.74                 | 22   | 0-2                            |

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|         |            |         |           | FDD Band 2         |         |                       |  |                                |     |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|-----|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |     |
|         |            |         |           | 1855               | 18650   | 23.30                 | 24   | 0                              |     |
|         |            |         | 0         | 1880               | 18900   | 23.21                 | 24   | 0                              |     |
|         |            |         |           | 1905               | 19150   | 22.54                 | 24   | 0                              |     |
|         |            |         |           | 1855               | 18650   | 22.97                 | 24   | 0                              |     |
|         |            | 1 RB    | 25        | 1880               | 18900   | 23.16                 | 24   | 0                              |     |
|         |            |         |           | 1905               | 19150   | 22.55                 | 24   | 0                              |     |
|         |            |         |           | 1855               | 18650   | 22.95                 | 24   | 0                              |     |
|         |            |         | 49        | 1880               | 18900   | 23.18                 | 24   | 0                              |     |
|         |            |         |           | 1905               | 19150   | 22.73                 | 24   | 0                              |     |
|         |            | QPSK    |           | 1855               | 18650   | 22.17                 | 23   | 0-1                            |     |
|         | QPSK       |         | 0         | 1880               | 18900   | 22.21                 | 23   | 0-1                            |     |
|         |            |         |           | 1905               | 19150   | 21.52                 | 23   | 0-1                            |     |
|         |            |         |           | 1855               | 18650   | 22.13                 | 23   | 0-1                            |     |
|         |            |         | 25 RB     | 12                 | 1880    | 18900                 | 22.19  | 23                             | 0-1 |
|         |            |         |           | 1905               | 19150   | 21.54                 | 23   | 0-1                            |     |
|         |            |         |           | 1855               | 18650   | 22.02                 | 23   | 0-1                            |     |
|         |            |         | 25        | 1880               | 18900   | 22.18                 | 23   | 0-1                            |     |
|         |            |         |           | 1905               | 19150   | 21.67                 | 23   | 0-1                            |     |
|         |            |         |           | 1855               | 18650   | 22.07                 | 23   | 0-1                            |     |
|         |            | 50      | RB        | 1880               | 18900   | 22.16                 | 23   | 0-1                            |     |
| 10      |            |         |           | 1905               | 19150   | 21.55                 | 23   | 0-1                            |     |
|         |            |         |           | 1855               | 18650   | 22.45                 | 23   | 0-1                            |     |
|         |            |         | 0         | 1880               | 18900   | 22.41                 | 23   | 0-1                            |     |
|         |            |         |           | 1905               | 19150   | 21.12                 | 23   | 0-1                            |     |
|         |            |         |           | 1855               | 18650   | 22.34                 | 23   | 0-1                            |     |
|         |            | 1 RB    | 25        | 1880               | 18900   | 22.50                 | 23   | 0-1                            |     |
|         |            |         |           | 1905               | 19150   | 21.92                 | 23   | 0-1                            |     |
|         |            |         |           | 1855               | 18650   | 22.49                 | 23   | 0-1                            |     |
|         |            |         | 49        | 1880               | 18900   | 22.48                 | 23   | 0-1                            |     |
|         |            |         |           | 1905               | 19150   | 21.93                 | 23   | 0-1                            |     |
|         | 40.044     |         |           | 1855               | 18650   | 21.21                 | 22   | 0-2                            |     |
|         | 16-QAM     |         | 0         | 1880               | 18900   | 21.32                 | 22   | 0-2                            |     |
|         |            |         |           | 1905               | 19150   | 20.63                 | 22   | 0-2                            |     |
|         |            | 05.00   | 40        | 1855               | 18650   | 21.12                 | 22   | 0-2                            |     |
|         |            | 25 RB   | 12        | 1880               | 18900   | 21.26                 | 22   | 0-2                            |     |
|         |            |         |           | 1905               | 19150   | 20.66                 | 22   | 0-2                            |     |
|         |            |         | 25        | 1855               | 18650   | 21.11                 | 22   | 0-2                            |     |
|         |            |         | 25        | 1880               | 18900   | 21.18                 | 22   | 0-2                            |     |
|         |            |         |           | 1905               | 19150   | 20.76                 | 22   | 0-2                            |     |
|         | 50RI       | DD      | 1855      | 18650              | 21.17   | 22                    | 0-2  |                                |     |
|         |            | 50      | מא        | 1880               | 18900   | 21.21                 | 22   | 0-2                            |     |
|         |            |         |           | 1905               | 19150   | 20.68                 | 22   | 0-2                            |     |

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|         |            |         |           | FDD Band 2         |         |                       |                                     |                                |    |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|--------------------------------|----|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB) |    |
|         |            |         |           | 1852.5             | 18625   | 23.16                 | 24                                  | 0                              |    |
|         |            |         | 0         | 1880               | 18900   | 23.18                 | 24                                  | 0                              |    |
|         |            |         |           | 1907.5             | 19175   | 22.56                 | 24                                  | 0                              |    |
|         |            |         |           | 1852.5             | 18625   | 23.14                 | 24                                  | 0                              |    |
|         |            | 1 RB    | 12        | 1880               | 18900   | 23.12                 | 24                                  | 0                              |    |
|         |            |         |           | 1907.5             | 19175   | 22.56                 | 24                                  | 0                              |    |
|         |            |         |           | 1852.5             | 18625   | 23.11                 | 24                                  | 0                              |    |
|         |            |         | 24        | 1880               | 18900   | 23.15                 | 24                                  | 0                              |    |
|         |            |         |           | 1907.5             | 19175   | 22.72                 | 24                                  | 0                              |    |
|         |            |         |           | 1852.5             | 18625   | 22.16                 | 23                                  | 0-1                            |    |
|         | QPSK       |         | 0         | 1880               | 18900   | 22.09                 | 23                                  | 0-1                            |    |
|         |            |         |           | 1907.5             | 19175   | 21.57                 | 23                                  | 0-1                            |    |
|         |            |         |           | 1852.5             | 18625   | 22.08                 | 23                                  | 0-1                            |    |
|         | 12 RE      | 12 RB   | 6         | 1880               | 18900   | 22.10                 | 23                                  | 0-1                            |    |
|         |            |         |           | 1907.5             | 19175   | 21.60                 | 23                                  | 0-1                            |    |
|         |            |         |           | 1852.5             | 18625   | 22.08                 | 23                                  | 0-1                            |    |
|         |            |         |           |                    | 13      | 1880                  | 18900                               | 22.14                          | 23 |
|         |            |         |           | 1907.5             | 19175   | 21.62                 | 23                                  | 0-1                            |    |
|         |            |         |           | 1852.5             | 18625   | 22.09                 | 23                                  | 0-1                            |    |
|         |            | 25      | RB        | 1880               | 18900   | 22.14                 | 23                                  | 0-1                            |    |
| 5       |            |         |           | 1907.5             | 19175   | 21.64                 | 23                                  | 0-1                            |    |
|         |            |         |           | 1852.5             | 18625   | 22.54                 | 23                                  | 0-1                            |    |
|         |            |         | 0         | 1880               | 18900   | 22.38                 | 23                                  | 0-1                            |    |
|         |            |         |           | 1907.5             | 19175   | 21.74                 | 23                                  | 0-1                            |    |
|         |            |         |           | 1852.5             | 18625   | 22.07                 | 23                                  | 0-1                            |    |
|         |            | 1 RB    | 12        | 1880               | 18900   | 22.10                 | 23                                  | 0-1                            |    |
|         |            |         |           | 1907.5             | 19175   | 21.83                 | 23                                  | 0-1                            |    |
|         |            |         |           | 1852.5             | 18625   | 22.42                 | 23                                  | 0-1                            |    |
|         |            |         | 24        | 1880               | 18900   | 22.37                 | 23                                  | 0-1                            |    |
|         |            |         |           | 1907.5             | 19175   | 21.94                 | 23                                  | 0-1                            |    |
|         |            |         |           | 1852.5             | 18625   | 21.28                 | 22                                  | 0-2                            |    |
|         | 16-QAM     |         | 0         | 1880               | 18900   | 21.23                 | 22                                  | 0-2                            |    |
|         |            |         |           | 1907.5             | 19175   | 20.51                 | 22                                  | 0-2                            |    |
|         |            |         | _         | 1852.5             | 18625   | 21.11                 | 22                                  | 0-2                            |    |
|         | 12 RB      | 12 RB   | 6         | 1880               | 18900   | 21.13                 | 22                                  | 0-2                            |    |
|         |            |         |           | 1907.5             | 19175   | 20.63                 | 22                                  | 0-2                            |    |
|         |            |         | 4.5       | 1852.5             | 18625   | 21.12                 | 22                                  | 0-2                            |    |
|         |            |         | 13        | 1880               | 18900   | 21.16                 | 22                                  | 0-2                            |    |
|         |            |         |           | 1907.5             | 19175   | 20.77                 | 22                                  | 0-2                            |    |
|         |            |         | DD        | 1852.5             | 18625   | 21.11                 | 22                                  | 0-2                            |    |
|         |            | 25      | RB        | 1880               | 18900   | 21.13                 | 22                                  | 0-2                            |    |
|         |            |         |           | 1907.5             | 19175   | 20.63                 | 22                                  | 0-2                            |    |

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|         |            |         |           | FDD Band 2         |         |                       |  |                                |       |    |     |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|-------|----|-----|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |       |    |     |
|         |            |         |           | 1851.5             | 18615   | 23.03                 | 24   | 0                              |       |    |     |
|         |            |         | 0         | 1880               | 18900   | 23.15                 | 24   | 0                              |       |    |     |
|         |            |         |           | 1908.5             | 19185   | 22.53                 | 24   | 0                              |       |    |     |
|         |            |         |           | 1851.5             | 18615   | 23.15                 | 24   | 0                              |       |    |     |
|         |            | 1 RB    | 7         | 1880               | 18900   | 23.08                 | 24   | 0                              |       |    |     |
|         |            |         |           | 1908.5             | 19185   | 22.64                 | 24   | 0                              |       |    |     |
|         |            |         |           | 1851.5             | 18615   | 23.07                 | 24   | 0                              |       |    |     |
|         |            |         |           | 14                 | 1880    | 18900                 | 23.06  | 24                             | 0     |    |     |
|         |            |         | 1908.5    | 19185              | 22.55   | 24                    | 0  |                                |       |    |     |
|         |            |         |           | 1851.5             | 18615   | 22.13                 | 23   | 0-1                            |       |    |     |
|         | QPSK       |         | 0         | 1880               | 18900   | 22.07                 | 23   | 0-1                            |       |    |     |
|         |            |         |           | 1908.5             | 19185   | 21.65                 | 23   | 0-1                            |       |    |     |
|         |            |         |           | 1851.5             | 18615   | 22.09                 | 23   | 0-1                            |       |    |     |
|         | 8 RB       | 8 RB    | 4         | 1880               | 18900   | 22.11                 | 23   | 0-1                            |       |    |     |
|         |            |         |           |                    |         |                       | 1908.5                                       | 19185                          | 21.64 | 23 | 0-1 |
|         |            |         | 7         | 1851.5             | 18615   | 22.06                 | 23   | 0-1                            |       |    |     |
|         |            |         |           | 1880               | 18900   | 22.13                 | 23   | 0-1                            |       |    |     |
|         |            |         |           | 1908.5             | 19185   | 21.62                 | 23   | 0-1                            |       |    |     |
|         |            |         |           | 1851.5             | 18615   | 22.06                 | 23   | 0-1                            |       |    |     |
|         |            | 15      | RB        | 1880               | 18900   | 22.12                 | 23   | 0-1                            |       |    |     |
| 3       |            |         |           | 1908.5             | 19185   | 21.62                 | 23   | 0-1                            |       |    |     |
|         |            |         |           | 1851.5             | 18615   | 22.34                 | 23   | 0-1                            |       |    |     |
|         |            |         | 0         | 1880               | 18900   | 22.25                 | 23   | 0-1                            |       |    |     |
|         |            |         |           | 1908.5             | 19185   | 21.84                 | 23   | 0-1                            |       |    |     |
|         |            |         |           | 1851.5             | 18615   | 22.42                 | 23   | 0-1                            |       |    |     |
|         |            | 1 RB    | 7         | 1880               | 18900   | 22.49                 | 23   | 0-1                            |       |    |     |
|         |            |         |           | 1908.5             | 19185   | 21.91                 | 23   | 0-1                            |       |    |     |
|         |            |         |           | 1851.5             | 18615   | 22.25                 | 23   | 0-1                            |       |    |     |
|         |            |         | 14        | 1880               | 18900   | 22.33                 | 23   | 0-1                            |       |    |     |
|         |            |         |           | 1908.5             | 19185   | 22.25                 | 23   | 0-1                            |       |    |     |
|         |            |         | _         | 1851.5             | 18615   | 21.03                 | 22   | 0-2                            |       |    |     |
|         | 16-QAM     |         | 0         | 1880               | 18900   | 21.15                 | 22   | 0-2                            |       |    |     |
|         |            |         |           | 1908.5             | 19185   | 20.65                 | 22   | 0-2                            |       |    |     |
|         |            |         | _         | 1851.5             | 18615   | 21.12                 | 22   | 0-2                            |       |    |     |
|         | 8 RB       | 8 RB    | 4         | 1880               | 18900   | 21.12                 | 22   | 0-2                            |       |    |     |
|         |            |         |           | 1908.5             | 19185   | 20.62                 | 22   | 0-2                            |       |    |     |
|         |            | _       | 1851.5    | 18615              | 21.06   | 22                    | 0-2  |                                |       |    |     |
|         |            |         | 7         | 1880               | 18900   | 21.13                 | 22   | 0-2                            |       |    |     |
|         |            |         | 1908.5    | 19185              | 20.72   | 22                    | 0-2  |                                |       |    |     |
|         |            |         | DD        | 1851.5             | 18615   | 21.10                 | 22   | 0-2                            |       |    |     |
|         |            | 15      | RB        | 1880               | 18900   | 21.16                 | 22   | 0-2                            |       |    |     |
|         |            |         |           | 1908.5             | 19185   | 20.64                 | 22   | 0-2                            |       |    |     |

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|         |            |         |           | FDD Band 2         |         |                       |                                     |                                |       |        |       |       |    |     |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|--------------------------------|-------|--------|-------|-------|----|-----|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB) |       |        |       |       |    |     |
|         |            |         |           | 1850.7             | 18607   | 23.09                 | 24                                  | 0                              |       |        |       |       |    |     |
|         |            |         | 0         | 1880               | 18900   | 23.07                 | 24                                  | 0                              |       |        |       |       |    |     |
|         |            |         |           | 1909.3             | 19193   | 22.67                 | 24                                  | 0                              |       |        |       |       |    |     |
|         |            |         |           | 1850.7             | 18607   | 23.07                 | 24                                  | 0                              |       |        |       |       |    |     |
|         |            | 1 RB    | 2         | 1880               | 18900   | 23.12                 | 24                                  | 0                              |       |        |       |       |    |     |
|         |            |         |           | 1909.3             | 19193   | 22.59                 | 24                                  | 0                              |       |        |       |       |    |     |
|         |            |         |           | 1850.7             | 18607   | 23.05                 | 24                                  | 0                              |       |        |       |       |    |     |
|         |            |         | 5         | 1880               | 18900   | 23.15                 | 24                                  | 0                              |       |        |       |       |    |     |
|         |            |         |           | 1909.3             | 19193   | 22.68                 | 24                                  | 0                              |       |        |       |       |    |     |
|         |            |         |           | 1850.7             | 18607   | 23.04                 | 24                                  | 0                              |       |        |       |       |    |     |
|         | QPSK       | 3 RB    | 0         | 1880               | 18900   | 23.11                 | 24                                  | 0                              |       |        |       |       |    |     |
|         |            |         |           | 1909.3             | 19193   | 22.66                 | 24                                  | 0                              |       |        |       |       |    |     |
|         |            |         |           | 1850.7             | 18607   | 23.09                 | 24                                  | 0                              |       |        |       |       |    |     |
|         | 3 RB       |         | 2         | 1880               | 18900   | 23.05                 | 24                                  | 0                              |       |        |       |       |    |     |
|         |            |         |           |                    |         | 1909.3                | 19193                               | 22.53                          | 24    | 0      |       |       |    |     |
|         |            |         |           | 1850.7             | 18607   | 23.02                 | 24                                  | 0                              |       |        |       |       |    |     |
|         |            |         | 3         | 1880               | 18900   | 23.09                 | 24                                  | 0                              |       |        |       |       |    |     |
|         |            |         |           | 1909.3             | 19193   | 22.61                 | 24                                  | 0                              |       |        |       |       |    |     |
|         |            |         |           | 1850.7             | 18607   | 22.05                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            |         |           |                    |         | 6F                    | RB                                  | 1880                           | 18900 | 22.11  | 23    | 0-1   |    |     |
| 1.4     |            |         |           | 1909.3             | 19193   | 21.60                 | 23                                  | 0-1                            |       |        |       |       |    |     |
| 1       |            |         |           |                    |         |                       |                                     |                                |       | 1850.7 | 18607 | 22.40 | 23 | 0-1 |
|         |            |         | 0         | 1880               | 18900   | 22.31                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            |         |           | 1909.3             | 19193   | 22.19                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            |         |           | 1850.7             | 18607   | 22.37                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            | 1 RB    | 2         | 1880               | 18900   | 22.30                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            |         |           | 1909.3             | 19193   | 22.06                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            |         |           | 1850.7             | 18607   | 22.45                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            |         | 5         | 1880               | 18900   | 22.65                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            |         |           | 1909.3             | 19193   | 21.65                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            |         |           | 1850.7             | 18607   | 22.23                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         | 16-QAM     |         | 0         | 1880               | 18900   | 22.20                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            |         |           | 1909.3             | 19193   | 21.75                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            |         |           | 1850.7             | 18607   | 22.15                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         | 3 RB       | 3 RB    | 2         | 1880               | 18900   | 22.22                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            |         |           | 1909.3             | 19193   | 21.77                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            |         |           | 1850.7             | 18607   | 22.17                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            |         | 3         | 1880               | 18900   | 22.20                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            |         |           | 1909.3             | 19193   | 21.79                 | 23                                  | 0-1                            |       |        |       |       |    |     |
|         |            | _       |           | 1850.7             | 18607   | 21.16                 | 22                                  | 0-2                            |       |        |       |       |    |     |
|         |            | 6F      | RB        | 1880               | 18900   | 21.23                 | 22                                  | 0-2                            |       |        |       |       |    |     |
|         |            |         |           | 1909.3             | 19193   | 20.84                 | 22                                  | 0-2                            |       |        |       |       |    |     |

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|         | FDD Band 4 |         |           |                    |         |                       |  |  |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)                               |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 22.85                 | 24   | 0  |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 22.99                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 22.95                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 23.08                 | 24   | 0  |  |  |  |  |
|         |            | 1 RB    | 50        | 1732.5             | 20175   | 22.75                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 22.93                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 22.77                 | 24   | 0  |  |  |  |  |
|         |            |         | 99        | 1732.5             | 20175   | 22.91                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 23.29                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 22.08                 | 23   | 0-1  |  |  |  |  |
|         | QPSK       |         | 0         | 1732.5             | 20175   | 21.91                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 21.98                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 22.10                 | 23   | 0-1  |  |  |  |  |
|         |            | 50 RB   | 25        | 1732.5             | 20175   | 21.87                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 22.08                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 21.92                 | 23   | 0-1  |  |  |  |  |
|         |            |         | 50        | 1732.5             | 20175   | 21.86                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 22.23                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 22.15                 | 23   | 0-1  |  |  |  |  |
|         |            | 100     | ORB       | 1732.5             | 20175   | 21.92                 | 23   | 0-1  |  |  |  |  |
| 20      |            |         |           | 1745               | 20300   | 22.25                 | 23   | 0-1  |  |  |  |  |
|         |            |         | 1720      | 20050              | 21.99   | 23                    | 0-1  |  |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 22.28                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 22.26                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 21.84                 | 23   | 0-1  |  |  |  |  |
|         |            | 1 RB    | 50        | 1732.5             | 20175   | 22.19                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 22.17                 | 23   |  |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 22.39                 | 23   |  |  |  |  |  |
|         |            |         | 99        | 1732.5             | 20175   | 22.39                 | 23   |  |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 22.78                 | 23   |  |  |  |  |  |
|         |            |         | _         | 1720               | 20050   | 21.05                 | 22   |  |  |  |  |  |
|         | 16-QAM     |         | 0         | 1732.5             | 20175   | 20.91                 | 22   |  |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 21.04                 | 22   | 0-2  |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 21.04                 | 22   |  |  |  |  |  |
|         |            | 50 RB   | 25        | 1732.5             | 20175   | 20.91                 | 22   | 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1                      |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 21.13                 | 22   |  |  |  |  |  |
|         |            |         | F.        | 1720               | 20050   | 21.07                 | 22   |  |  |  |  |  |
|         |            |         | 50        | 1732.5             | 20175   | 20.86                 | 22   |  |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 21.26                 | 22   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0- |  |  |  |  |
|         |            |         | NDD.      | 1720               | 20050   | 21.11                 | 22   |  |  |  |  |  |
|         | 100R       | IKB     | 1732.5    | 20175              | 20.94   | 22                    |  |  |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 21.39                 | 22   | 0-2  |  |  |  |  |

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|         | FDD Band 4 |         |           |                    |         |                       |  |  |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)   |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 22.86                 | 24   | 0  |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 23.26                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 23.01                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 23.14                 | 24   | 0  |  |  |  |  |
|         |            | 1 RB    | 36        | 1732.5             | 20175   | 22.87                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 23.42                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 23.01                 | 24   | 0  |  |  |  |  |
|         |            |         | 74        | 1732.5             | 20175   | 22.92                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 23.48                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 22.02                 | 23   | 0-1  |  |  |  |  |
|         | QPSK       |         | 0         | 1732.5             | 20175   | 22.04                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 22.08                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 22.17                 | 23   | 0-1  |  |  |  |  |
|         |            | 36 RB   | 18        | 1732.5             | 20175   | 21.92                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 22.31                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 22.12                 | 23   | 0-1  |  |  |  |  |
|         |            |         | 37        | 1732.5             | 20175   | 21.88                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 22.25                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 22.23                 | 23   | 0-1  |  |  |  |  |
|         |            | 75      | RB        | 1732.5             | 20175   | 21.94                 | 23   | 0-1  |  |  |  |  |
| 15      |            |         |           | 1747.5             | 20325   | 22.37                 | 23   | 0-1  |  |  |  |  |
| 15      |            |         |           | 1717.5             | 20025   | 22.18                 | 23   | 0-1  |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 21.82                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 21.63                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 22.50                 | 23   | 0-1  |  |  |  |  |
|         |            | 1 RB    | 36        | 1732.5             | 20175   | 22.16                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 22.81                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 22.28                 | 23   | 0-1  |  |  |  |  |
|         |            |         | 74        | 1732.5             | 20175   | 22.06                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 22.03                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 20.99                 | 22   | 0-2  |  |  |  |  |
|         | 16-QAM     |         | 0         | 1732.5             | 20175   | 21.10                 | 22   | 0-2  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 21.21                 | 22   | 0-2  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 21.22                 | 22   | 0-2  |  |  |  |  |
|         |            | 36 RB   | 18        | 1732.5             | 20175   | 20.85                 | 22   | 0-2  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 21.37                 | 22   | 0-2  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 21.02                 | 22   | 0-2  |  |  |  |  |
|         |            |         | 37        | 1732.5             | 20175   | 20.99                 | 22   | 0-2  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 21.32                 | 22   | 0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1 |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 21.18                 | 22   | 0-2  |  |  |  |  |
|         |            | 75RB    |           | 1732.5             | 20175   | 20.96                 | 22   |  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 21.40                 | 22   | 0-2  |  |  |  |  |

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|         | FDD Band 4 |         |           |                    |                |                       |                                     |  |  |  |  |  |
|---------|------------|---------|-----------|--------------------|----------------|-----------------------|-------------------------------------|--|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel        | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)                               |  |  |  |  |
|         |            |         |           | 1715               | 20000          | 22.83                 | 24                                  | 0  |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175          | 23.03                 | 24                                  | 0  |  |  |  |  |
|         |            |         |           | 1750               | 20350          | 23.33                 | 24                                  | 0  |  |  |  |  |
|         |            |         |           | 1715               | 20000          | 22.94                 | 24                                  | 0  |  |  |  |  |
|         |            | 1 RB    | 25        | 1732.5             | 20175          | 22.87                 | 24                                  | 0  |  |  |  |  |
|         |            |         |           | 1750               | 20350          | 23.28                 | 24                                  | 0  |  |  |  |  |
|         |            |         |           | 1715               | 20000          | 23.22                 | 24                                  | 0  |  |  |  |  |
|         |            |         | 49        | 1732.5             | 20175          | 22.72                 | 24                                  | 0  |  |  |  |  |
|         |            |         |           | 1750               | 20350          | 23.35                 | 24                                  | 0  |  |  |  |  |
|         |            |         |           | 1715               | 20000          | 22.02                 | 23                                  | 0-1  |  |  |  |  |
|         | QPSK       |         | 0         | 1732.5             | 20175          | 22.00                 | 23                                  | 0-1  |  |  |  |  |
|         |            |         |           | 1750               | 20350          | 22.39                 | 23                                  | 0-1  |  |  |  |  |
|         |            |         |           | 1715               | 20000          | 22.03                 | 23                                  | 0-1  |  |  |  |  |
|         |            | 25 RB   | 12        | 1732.5             | 20175          | 21.92                 | 23                                  | 0-1  |  |  |  |  |
|         |            |         |           | 1750               | 20350          | 22.36                 | 23                                  | 0-1  |  |  |  |  |
|         |            |         |           | 1715               | 20000          | 22.16                 | 23                                  | 0-1  |  |  |  |  |
|         |            |         | 25        | 1732.5             | 20175          | 21.96                 | 23                                  | 0-1  |  |  |  |  |
|         |            |         |           | 1750               | 20350          | 22.43                 | 23                                  | 0-1  |  |  |  |  |
|         |            |         |           | 1715               | 20000          | 22.10                 | 23                                  | 0-1  |  |  |  |  |
|         |            | 50      | RB        | 1732.5             | 20175          | 21.94                 | 23                                  | 0-1  |  |  |  |  |
| 10      |            |         |           | 1750               | 20350          | 22.32                 | 23                                  |  |  |  |  |  |
|         |            |         |           | 1715               | 20000          | 22.40                 | 23                                  |  |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175          | 22.32                 | 23                                  |  |  |  |  |  |
|         |            |         |           | 1750               | 20350          | 22.30                 | 23                                  |  |  |  |  |  |
|         |            |         |           | 1715               | 20000          | 22.39                 | 23                                  |  |  |  |  |  |
|         |            | 1 RB    | 25        | 1732.5             | 20175          | 22.44                 | 23                                  |  |  |  |  |  |
|         |            |         |           | 1750               | 20350          | 22.84                 | 23                                  |  |  |  |  |  |
|         |            |         | 40        | 1715               | 20000          | 22.39                 | 23                                  |  |  |  |  |  |
|         |            |         | 49        | 1732.5             | 20175          | 21.58                 | 23                                  |  |  |  |  |  |
|         |            |         |           | 1750               | 20350          | 22.03                 | 23                                  |  |  |  |  |  |
|         | 16 0 14    |         |           | 1715               | 20000          | 21.07                 | 22                                  |  |  |  |  |  |
|         | 16-QAM     |         | 0         | 1732.5             | 20175          | 21.06                 | 22                                  |  |  |  |  |  |
|         |            |         |           | 1750               | 20350          | 21.42                 | 22                                  |  |  |  |  |  |
|         |            | 25 DD   | 10        | 1715               | 20000          | 21.01                 | 22                                  |  |  |  |  |  |
|         |            | 25 RB   | 12        | 1732.5             | 20175          | 21.00                 | 22                                  |  |  |  |  |  |
|         |            |         |           | 1750               | 20350          | 21.49                 | 22                                  |  |  |  |  |  |
|         |            |         | 25        | 1715               | 20000          | 21.20                 | 22                                  |  |  |  |  |  |
|         |            |         | 20        | 1732.5<br>1750     | 20175<br>20350 | 20.86<br>21.42        | 22<br>22                            |  |  |  |  |  |
|         |            |         |           | 1750               | 20000          | 21.42                 | 22                                  |  |  |  |  |  |
|         |            | 50      | RR        | 1715               | 20000          | 21.12                 | 22                                  | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0-1 0- |  |  |  |  |
|         |            | 50R     | ועט       |                    |                | +                     |                                     |  |  |  |  |  |
|         |            |         |           | 1750               | 20350          | 21.36                 | 22                                  | U-Z  |  |  |  |  |

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|         | FDD Band 4 |         |           |                    |         |                       |  |                                |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 22.83                 | 24   | 0                              |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 23.00                 | 24   | 0                              |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 23.33                 | 24   | 0                              |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 22.86                 | 24   | 0                              |  |  |  |  |
|         |            | 1 RB    | 12        | 1732.5             | 20175   | 22.99                 | 24   | 0                              |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 23.28                 | 24   | 0                              |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 22.91                 | 24   | 0                              |  |  |  |  |
|         |            |         | 24        | 1732.5             | 20175   | 22.81                 | 24   | 0                              |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 23.25                 | 24   | 0                              |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 21.84                 | 23   | 0-1                            |  |  |  |  |
|         | QPSK       |         | 0         | 1732.5             | 20175   | 21.93                 | 23   | 0-1                            |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 22.28                 | 23   | 0-1                            |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 21.93                 | 23   | 0-1                            |  |  |  |  |
|         |            | 12 RB   | 6         | 1732.5             | 20175   | 21.94                 | 23   | 0-1                            |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 22.35                 | 23   | 0-1                            |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 21.97                 | 23   | 0-1                            |  |  |  |  |
|         |            |         | 13        | 1732.5             | 20175   | 21.94                 | 23   | 0-1                            |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 22.34                 | 23   | 0-1                            |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 21.95                 | 23   | 0-1                            |  |  |  |  |
|         |            | 25      | RB        | 1732.5             | 20175   | 21.97                 | 23   | 0-1                            |  |  |  |  |
| 5       |            |         |           | 1752.5             | 20375   | 22.33                 | 23   | 0-1                            |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 22.33                 | 23   | 0-1                            |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 22.41                 | 23   | 0-1                            |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 22.57                 | 23   | 0-1                            |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 22.11                 | 23   | 0-1                            |  |  |  |  |
|         |            | 1 RB    | 12        | 1732.5             | 20175   | 22.50                 | 23   | 0-1                            |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 22.48                 | 23   | 0-1                            |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 22.43                 | 23   | 0-1                            |  |  |  |  |
|         |            |         | 24        | 1732.5             | 20175   | 22.04                 | 23   | 0-1                            |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 22.43                 | 23   | 0-1                            |  |  |  |  |
|         |            |         | _         | 1712.5             | 19975   | 20.90                 | 22   | 0-2                            |  |  |  |  |
|         | 16-QAM     |         | 0         | 1732.5             | 20175   | 20.97                 | 22   | 0-2                            |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 21.33                 | 22   | 0-2                            |  |  |  |  |
|         |            |         | _         | 1712.5             | 19975   | 21.01                 | 22   | 0-2                            |  |  |  |  |
|         |            | 12 RB   | 6         | 1732.5             | 20175   | 20.77                 | 22   | 0-2                            |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 21.31                 | 22   | 0-2                            |  |  |  |  |
|         |            |         | 40        | 1712.5             | 19975   | 20.81                 | 22   | 0-2                            |  |  |  |  |
|         |            |         | 13        | 1732.5             | 20175   | 20.97                 | 22   | 0-2                            |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 21.22                 | 22   | 0-2                            |  |  |  |  |
|         |            |         | DD        | 1712.5             | 19975   | 20.98                 | 22   | 0-2                            |  |  |  |  |
|         |            | 25R     |           | 1732.5             | 20175   | 20.95                 | 22   | 0-2                            |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 21.35                 | 22   | 0-2                            |  |  |  |  |

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|         | FDD Band 4 |         |           |   |         |                       |  |   |  |  |  |  |
|---------|------------|---------|-----------|---|---------|-----------------------|--|---|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz)  | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|         |            |         |           | 1711.5  | 19965   | 22.77                 | 24   | 0   |  |  |  |  |
|         |            |         | 0         | 1732.5  | 20175   | 22.92                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 1753.5  | 20385   | 23.19                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 1711.5  | 19965   | 22.76                 | 24   | 0   |  |  |  |  |
|         |            | 1 RB    | 7         | 1732.5  | 20175   | 22.84                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 1753.5  | 20385   | 23.44                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 1711.5  | 19965   | 22.85                 | 24   | 0   |  |  |  |  |
|         |            |         | 14        | 1732.5  | 20175   | 22.76                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 1753.5  | 20385   | 23.23                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 1711.5  | 19965   | 21.82                 | 23   | 0-1   |  |  |  |  |
|         | QPSK       |         | 0         | 1732.5  | 20175   | 21.85                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 1753.5  | 20385   | 22.36                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 1711.5  | 19965   | 21.81                 | 23   | 0-1   |  |  |  |  |
|         |            | 8 RB    | 4         | 1732.5  | 20175   | 21.92                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 1753.5  | 20385   | 22.37                 | 23   | Allowed per 3GPP(dB)  Allowed per 3GPP(dB)  O O O O O O O O O O O O O O O O O O |  |  |  |  |
|         |            |         |           | 1711.5  | 19965   | 21.86                 | 23   |   |  |  |  |  |
|         |            |         | 7         | 1732.5  | 20175   | 21.90                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 1753.5  | 20385   | 22.31                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 1711.5  | 19965   | 21.83                 | 23   | 0-1   |  |  |  |  |
|         |            | 15      | RB        | 1732.5  | 20175   | 21.89                 | 23   | 0-1   |  |  |  |  |
| 3       |            |         |           | 1753.5  | 20385   | 22.32                 | 23   | 0-1   |  |  |  |  |
| Ĭ       |            |         |           | 1711.5  | 19965   | 22.17                 | 23   | 0-1   |  |  |  |  |
|         |            |         | 0         | 1753.5     20385     22.37     23       1711.5     19965     21.86     23       1732.5     20175     21.90     23       1753.5     20385     22.31     23       1711.5     19965     21.83     23       1732.5     20175     21.89     23       1753.5     20385     22.32     23 | 0-1     |                       |  |   |  |  |  |  |
|         |            |         |           | 1753.5  | 20385   | 22.79                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 1711.5  | 19965   | 21.47                 | 23   | 0-1   |  |  |  |  |
|         |            | 1 RB    | 7         |   | 20175   | 21.96                 |  | 0-1   |  |  |  |  |
|         |            |         |           | 1753.5  | 20385   | 22.45                 | 23   |   |  |  |  |  |
|         |            |         |           | 1711.5  | 19965   | 21.84                 | 23   |   |  |  |  |  |
|         |            |         | 14        | 1732.5  | 20175   | 21.54                 | 23   |   |  |  |  |  |
|         |            |         |           | 1753.5  | 20385   | 22.53                 | 23   |   |  |  |  |  |
|         |            |         |           | 1711.5  | 19965   | 20.85                 | 22   |   |  |  |  |  |
|         | 16-QAM     |         | 0         | 1732.5  | 20175   | 21.07                 | 22   | 0-2   |  |  |  |  |
|         |            |         |           | 1753.5  | 20385   | 21.45                 | 22   |   |  |  |  |  |
|         |            |         |           | 1711.5  | 19965   | 20.94                 | 22   |   |  |  |  |  |
|         |            | 8 RB    | 4         | 1732.5  | 20175   | 21.00                 | 22   |   |  |  |  |  |
|         |            |         |           | 1753.5  | 20385   | 21.37                 | 22   |   |  |  |  |  |
|         |            |         | _         | 1711.5  | 19965   | 20.83                 | 22   | 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1   |  |  |  |  |
|         |            |         | 7         | 1732.5  | 20175   | 20.83                 | 22   |   |  |  |  |  |
|         |            |         |           | 1753.5  | 20385   | 21.38                 | 22   |   |  |  |  |  |
|         |            |         |           | 1711.5  | 19965   | 20.83                 | 22   |   |  |  |  |  |
|         |            | 15R     |           | 1732.5  | 20175   | 20.93                 | 22   |   |  |  |  |  |
|         |            |         |           | 1753.5  | 20385   | 21.28                 | 22   | 0-2   |  |  |  |  |

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|         | FDD Band 4 |         |           |                    |         |                       |  |  |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)   |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 22.86                 | 24   | 0  |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 22.90                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 23.31                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 22.76                 | 24   | 0  |  |  |  |  |
|         |            | 1 RB    | 2         | 1732.5             | 20175   | 22.86                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 23.48                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 22.77                 | 24   | 0  |  |  |  |  |
|         |            |         | 5         | 1732.5             | 20175   | 22.95                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 23.40                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 22.86                 | 24   | 0  |  |  |  |  |
|         | QPSK       |         | 0         | 1732.5             | 20175   | 22.85                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 23.38                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 22.84                 | 24   | 0  |  |  |  |  |
|         |            | 3 RB    | 2         | 1732.5             | 20175   | 22.92                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 23.40                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 22.79                 | 24   | 0  |  |  |  |  |
|         |            |         | 3         | 1732.5             | 20175   | 22.92                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 23.36                 | 24   | 0  |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 21.83                 | 23   | 0-1  |  |  |  |  |
|         |            | 6F      | RB        | 1732.5             | 20175   | 21.95                 | 23   | 0-1  |  |  |  |  |
| 1.4     |            |         |           | 1754.3             | 20393   | 22.42                 | 23   | 0-1  |  |  |  |  |
| 1.4     |            |         |           | 1710.7             | 19957   | 22.31                 | 23   | 0-1  |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 22.00                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 22.33                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 22.04                 | 23   | 0-1  |  |  |  |  |
|         |            | 1 RB    | 2         | 1732.5             | 20175   | 22.37                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 22.45                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 22.21                 | 23   | 0-1  |  |  |  |  |
|         |            |         | 5         | 1732.5             | 20175   | 22.28                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 22.65                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 22.00                 | 23   | 0-1  |  |  |  |  |
|         | 16-QAM     |         | 0         | 1732.5             | 20175   | 22.08                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 22.42                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 22.10                 | 23   | 0-1  |  |  |  |  |
|         |            | 3 RB    | 2         | 1732.5             | 20175   | 21.98                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 22.59                 | 23   | 0-1  |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 21.71                 | 23   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0- |  |  |  |  |
|         |            |         | 3         | 1732.5             | 20175   | 22.14                 | 23   |  |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 22.43                 | 23   | 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                      |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 20.89                 | 22   | 0-2  |  |  |  |  |
|         | 6RE        |         | RB        | 1732.5             | 20175   | 21.02                 | 22   | 0-2  |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 21.49                 | 22   | 0-2  |  |  |  |  |

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|         | FDD Band 5 |         |           |                    |         |                       |  |  |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)                               |  |  |  |  |
|         |            |         |           | 829                | 20450   | 23.56                 | 25   | 0  |  |  |  |  |
|         |            |         | 0         | 836.5              | 20525   | 23.60                 | 25   | 0  |  |  |  |  |
|         |            |         |           | 844                | 20600   | 23.91                 | 25   | 0  |  |  |  |  |
|         |            |         |           | 829                | 20450   | 23.70                 | 25   | 0  |  |  |  |  |
|         |            | 1 RB    | 25        | 836.5              | 20525   | 23.62                 | 25   | 0  |  |  |  |  |
|         |            |         |           | 844                | 20600   | 23.50                 | 25   | 0  |  |  |  |  |
|         |            |         |           | 829                | 20450   | 23.83                 | 25   | 0  |  |  |  |  |
|         |            |         | 49        | 836.5              | 20525   | 23.79                 | 25   | 0  |  |  |  |  |
|         |            |         |           | 844                | 20600   | 23.69                 | 25   | 0  |  |  |  |  |
|         |            |         |           | 829                | 20450   | 22.65                 | 24   | 0-1  |  |  |  |  |
|         | QPSK       |         | 0         | 836.5              | 20525   | 22.74                 | 24   | 0-1  |  |  |  |  |
|         |            |         |           | 844                | 20600   | 22.87                 | 24   | 0-1  |  |  |  |  |
|         |            |         |           | 829                | 20450   | 22.64                 | 24   | 0-1  |  |  |  |  |
|         |            | 25 RB   | 12        | 836.5              | 20525   | 22.77                 | 24   | 0-1  |  |  |  |  |
|         |            |         |           | 844                | 20600   | 22.71                 | 24   | 0-1  |  |  |  |  |
|         |            |         |           | 829                | 20450   | 22.70                 | 24   | 0-1  |  |  |  |  |
|         |            |         | 25        | 836.5              | 20525   | 22.74                 | 24   | 0-1  |  |  |  |  |
|         |            |         |           | 844                | 20600   | 22.79                 | 24   | 0-1  |  |  |  |  |
|         |            |         |           | 829                | 20450   | 22.80                 | 24   | 0-1  |  |  |  |  |
|         |            | 50      | RB        | 836.5              | 20525   | 22.75                 | 24   | 0-1  |  |  |  |  |
| 10      |            |         |           | 844                | 20600   | 22.74                 | 24   | 0-1  |  |  |  |  |
|         |            |         | 1         | 829                | 20450   | 22.86                 | 24   |  |  |  |  |  |
|         |            |         | 0         | 836.5              | 20525   | 22.68                 | 24   |  |  |  |  |  |
|         |            |         |           | 844                | 20600   | 23.12                 | 24   |  |  |  |  |  |
|         |            |         |           | 829                | 20450   | 23.18                 | 24   |  |  |  |  |  |
|         |            | 1 RB    | 25        | 836.5              | 20525   | 22.90                 | 24   |  |  |  |  |  |
|         |            |         |           | 844                | 20600   | 22.72                 | 24   |  |  |  |  |  |
|         |            |         |           | 829                | 20450   | 22.97                 | 24   |  |  |  |  |  |
|         |            |         | 49        | 836.5              | 20525   | 23.18                 | 24   |  |  |  |  |  |
|         |            |         |           | 844                | 20600   | 23.15                 | 24   |  |  |  |  |  |
|         | 40.044     |         |           | 829                | 20450   | 21.76                 | 23   |  |  |  |  |  |
|         | 16-QAM     |         | 0         | 836.5              | 20525   | 21.82                 | 23   |  |  |  |  |  |
|         |            |         |           | 844                | 20600   | 21.81                 | 23   | 0-2  |  |  |  |  |
|         |            | 05 DD   | 40        | 829                | 20450   | 21.77                 | 23   |  |  |  |  |  |
|         |            | 25 RB   | 12        | 836.5              | 20525   | 21.86                 | 23   |  |  |  |  |  |
|         |            |         |           | 844                | 20600   | 21.86                 | 23   |  |  |  |  |  |
|         |            |         | 25        | 829                | 20450   | 21.80                 | 23   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0- |  |  |  |  |
|         |            |         | 25        | 836.5              | 20525   | 21.80                 | 23   |  |  |  |  |  |
|         |            |         |           | 844                | 20600   | 21.97                 | 23   |  |  |  |  |  |
|         |            | 500PP   |           | 829                | 20450   | 21.86                 | 23   |  |  |  |  |  |
|         | 500F       |         | ND        | 836.5              | 20525   | 21.84                 | 23   |  |  |  |  |  |
|         |            |         |           | 844                | 20600   | 21.94                 | 23   | 0-2  |  |  |  |  |

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|         | FDD Band 5 |         |           |                    |         |                       |  |   |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)                            |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 23.65                 | 25   | 0   |  |  |  |  |
|         |            |         | 0         | 836.5              | 20525   | 23.62                 | 25   | 0   |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 23.56                 | 25   | 0   |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 23.70                 | 25   | 0   |  |  |  |  |
|         |            | 1 RB    | 12        | 836.5              | 20525   | 23.59                 | 25   | 0   |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 23.78                 | 25   | 0   |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 23.65                 | 25   | 0   |  |  |  |  |
|         |            |         | 24        | 836.5              | 20525   | 23.63                 | 25   | 0   |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 23.89                 | 25   | 0   |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 22.76                 | 24   | 0-1   |  |  |  |  |
|         | QPSK       |         | 0         | 836.5              | 20525   | 22.74                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 22.75                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 22.72                 | 24   | 0-1   |  |  |  |  |
|         |            | 12 RB   | 6         | 836.5              | 20525   | 22.71                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 22.93                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 22.71                 | 24   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |  |  |  |  |
|         |            |         | 13        | 836.5              | 20525   | 22.70                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 22.80                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 22.74                 | 24   | 0-1   |  |  |  |  |
|         |            | 25      | RB        | 836.5              | 20525   | 22.70                 | 24   | 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-          |  |  |  |  |
| 5       |            |         |           | 846.5              | 20625   | 22.94                 | 24   | 0-1   |  |  |  |  |
|         |            |         | 0         | 826.5              | 20425   | 22.93                 | 24   | 0-1   |  |  |  |  |
|         |            |         | 0         | 836.5              | 20525   | 22.48                 | 24   |   |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 22.92                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 23.02                 | 24   | 0-1   |  |  |  |  |
|         |            | 1 RB    | 12        | 836.5              | 20525   | 23.04                 | 24   |   |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 22.88                 | 24   |   |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 22.86                 | 24   |   |  |  |  |  |
|         |            |         | 24        | 836.5              | 20525   | 23.06                 | 24   |   |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 23.17                 | 24   |   |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 21.68                 | 23   | -   |  |  |  |  |
|         | 16-QAM     |         | 0         | 836.5              | 20525   | 21.80                 | 23   | 0-2   |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 21.78                 | 23   |   |  |  |  |  |
|         |            |         | _         | 826.5              | 20425   | 21.77                 | 23   |   |  |  |  |  |
|         |            | 12 RB   | 6         | 836.5              | 20525   | 21.76                 | 23   |   |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 21.81                 | 23   | 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-                  |  |  |  |  |
|         |            |         | 4.5       | 826.5              | 20425   | 21.69                 | 23   |   |  |  |  |  |
|         |            |         | 13        | 836.5              | 20525   | 21.80                 | 23   |   |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 21.70                 | 23   |   |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 21.76                 | 23   |   |  |  |  |  |
|         | 25R        |         | KB        | 836.5              | 20525   | 21.77                 | 23   |   |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 21.87                 | 23   | 0-2   |  |  |  |  |

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|         | FDD Band 5 |         |           |                    |         |                       |  |   |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 23.53                 | 25   | 0   |  |  |  |  |
|         |            |         | 0         | 836.5              | 20525   | 23.58                 | 25   | 0   |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 23.68                 | 25   | 0   |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 23.64                 | 25   | 0   |  |  |  |  |
|         |            | 1 RB    | 7         | 836.5              | 20525   | 23.64                 | 25   | 0   |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 23.81                 | 25   | 0   |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 23.56                 | 25   | 0   |  |  |  |  |
|         |            |         | 14        | 836.5              | 20525   | 23.53                 | 25   | 0   |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 23.81                 | 25   | 0   |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 22.51                 | 24   | 0-1   |  |  |  |  |
|         | QPSK       |         | 0         | 836.5              | 20525   | 22.67                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 22.77                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 22.62                 | 24   | 0-1   |  |  |  |  |
|         |            | 8 RB    | 4         | 836.5              | 20525   | 22.67                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 22.76                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 22.68                 | 24   | 0-1   |  |  |  |  |
|         |            |         | 7         | 836.5              | 20525   | 22.63                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 22.87                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 22.66                 | 24   | 0-1   |  |  |  |  |
|         |            | 15      | RB        | 836.5              | 20525   | 22.70                 | 24   | 0-1   |  |  |  |  |
| 3       |            |         |           | 847.5              | 20635   | 22.77                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 22.70                 | 24   | 0-1   |  |  |  |  |
|         |            |         | 0         | 836.5              | 20525   | 22.78                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 22.99                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 22.85                 | 24   | 0-1   |  |  |  |  |
|         |            | 1 RB    | 7         | 836.5              | 20525   | 22.74                 | 24   | 0-1   |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 23.19                 | 24   | 0-1   |  |  |  |  |
|         |            |         | <b>.</b>  | 825.5              | 20415   | 22.93                 | 24   | 0-1   |  |  |  |  |
|         |            |         | 14        | 836.5              | 20525   | 22.76                 | 24   |   |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 23.20                 | 24   |   |  |  |  |  |
|         |            |         | _         | 825.5              | 20415   | 21.56                 | 23   |   |  |  |  |  |
|         | 16-QAM     |         | 0         | 836.5              | 20525   | 21.57                 | 23   | 0-2   |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 21.82                 | 23   | 0-2   |  |  |  |  |
|         |            |         | _         | 825.5              | 20415   | 21.62                 | 23   |   |  |  |  |  |
|         |            | 8 RB    | 4         | 836.5              | 20525   | 21.60                 | 23   |   |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 22.00                 | 23   | 0-2   |  |  |  |  |
|         |            |         | _         | 825.5              | 20415   | 21.70                 | 23   | 0-2   |  |  |  |  |
|         |            |         | 7         | 836.5              | 20525   | 21.58                 | 23   | 0<br>0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1 |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 21.76                 | 23   |   |  |  |  |  |
|         |            |         | DD        | 825.5              | 20415   | 21.65                 | 23   |   |  |  |  |  |
| i       | 15R        |         | KR        | 836.5              | 20525   | 21.67                 | 23   |   |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 21.95                 | 23   | 0-2   |  |  |  |  |

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| FDD Band 5 |            |         |           |                    |         |                       |  |   |  |  |  |
|------------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|
|            |            |         |           | T DD Band 3        |         |                       |  |   |  |  |  |
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |
|            |            |         |           | 824.7              | 20407   | 23.63                 | 25   | 0   |  |  |  |
|            |            |         | 0         | 836.5              | 20525   | 23.63                 | 25   | 0   |  |  |  |
|            |            |         |           | 848.3              | 20643   | 23.86                 | 25   | 0   |  |  |  |
|            |            |         |           | 824.7              | 20407   | 23.44                 | 25   | 0   |  |  |  |
|            |            | 1 RB    | 2         | 836.5              | 20525   | 23.70                 | 25   | 0   |  |  |  |
|            |            |         |           | 848.3              | 20643   | 23.83                 | 25   | 0   |  |  |  |
|            |            |         |           | 824.7              | 20407   | 23.57                 | 25   | 0   |  |  |  |
|            |            |         | 5         | 836.5              | 20525   | 23.63                 | 25   | 0   |  |  |  |
|            |            |         |           | 848.3              | 20643   | 23.78                 | 25   | 0   |  |  |  |
|            |            |         |           | 824.7              | 20407   | 23.54                 | 25   | 0   |  |  |  |
|            | QPSK       |         | 0         | 836.5              | 20525   | 23.65                 | 25   | 0   |  |  |  |
|            |            |         |           | 848.3              | 20643   | 23.82                 | 25   | 0   |  |  |  |
|            |            |         |           | 824.7              | 20407   | 23.48                 | 25   | 0   |  |  |  |
|            |            | 3 RB    | 2         | 836.5              | 20525   | 23.59                 | 25   | 0   |  |  |  |
|            |            |         |           | 848.3              | 20643   | 23.90                 | 25   | 0   |  |  |  |
|            |            |         |           | 824.7              | 20407   | 23.57                 | 25   | 0   |  |  |  |
|            |            |         | 3         | 836.5              | 20525   | 23.61                 | 25   | 0   |  |  |  |
|            |            |         |           | 848.3              | 20643   | 23.89                 | 25   | 0   |  |  |  |
|            |            |         |           | 824.7              | 20407   | 22.60                 | 24   | 0-1   |  |  |  |
|            |            | 6F      | RB        | 836.5              | 20525   | 22.65                 | 24   | 0-1   |  |  |  |
| 1.4        |            |         |           | 848.3              | 20643   | 22.80                 | 24   | 0-1   |  |  |  |
| 1.4        |            |         |           | 824.7              | 20407   | 22.54                 | 24   | 0-1   |  |  |  |
|            |            |         | 0         | 836.5              | 20525   | 22.91                 | 24   | 0-1   |  |  |  |
|            |            |         |           | 848.3              | 20643   | 23.19                 | 24   | 0-1   |  |  |  |
|            |            |         |           | 824.7              | 20407   | 22.87                 | 24   | 0-1   |  |  |  |
|            |            | 1 RB    | 2         | 836.5              | 20525   | 22.73                 | 24   | 0-1   |  |  |  |
|            |            |         |           | 848.3              | 20643   | 23.24                 | 24   | 0-1   |  |  |  |
|            |            |         |           | 824.7              | 20407   | 23.00                 | 24   | 0-1   |  |  |  |
|            |            |         | 5         | 836.5              | 20525   | 22.92                 | 24   | 0-1   |  |  |  |
|            |            |         |           | 848.3              | 20643   | 22.67                 | 24   | 0-1   |  |  |  |
|            |            |         |           | 824.7              | 20407   | 22.77                 | 24   | 0-1   |  |  |  |
|            | 16-QAM     |         | 0         | 836.5              | 20525   | 22.67                 | 24   | 0-1   |  |  |  |
|            |            |         |           | 848.3              | 20643   | 22.87                 | 24   | 0-1   |  |  |  |
|            |            |         |           | 824.7              | 20407   | 22.80                 | 24   | 0-1   |  |  |  |
|            |            | 3 RB    | 2         | 836.5              | 20525   | 22.88                 | 24   | 0-1   |  |  |  |
|            |            |         |           | 848.3              | 20643   | 22.90                 | 24   | 0-1   |  |  |  |
|            |            |         |           | 824.7              | 20407   | 22.73                 | 24   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |
|            |            |         | 3         | 836.5              | 20525   | 22.64                 | 24   | 0-1   |  |  |  |
|            |            |         |           | 848.3              | 20643   | 22.98                 | 24   | 0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1  |  |  |  |
| i          |            |         |           | 824.7              | 20407   | 21.60                 | 23   | 0-2   |  |  |  |
|            |            | 6F      | RB        | 836.5              | 20525   | 21.62                 | 23   | 0-2   |  |  |  |
|            |            |         |           | 848.3              | 20643   | 22.00                 | 23   | 0-2   |  |  |  |

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|         | FDD Band 7 |         |           |                    |         |                       |  |   |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)                              |  |  |  |  |
|         |            |         |           | 2510               | 20850   | 22.34                 | 24   | 0   |  |  |  |  |
|         |            |         | 0         | 2535               | 21100   | 22.53                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 2560               | 21350   | 22.38                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 2510               | 20850   | 22.31                 | 24   | 0   |  |  |  |  |
|         |            | 1 RB    | 50        | 2535               | 21100   | 22.50                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 2560               | 21350   | 22.52                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 2510               | 20850   | 22.36                 | 24   | 0   |  |  |  |  |
|         |            |         | 99        | 2535               | 21100   | 22.44                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 2560               | 21350   | 22.37                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 2510               | 20850   | 21.31                 | 23   | 0-1   |  |  |  |  |
|         | QPSK       |         | 0         | 2535               | 21100   | 21.50                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2560               | 21350   | 21.47                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2510               | 20850   | 21.34                 | 23   | 0-1   |  |  |  |  |
|         |            | 50 RB   | 25        | 2535               | 21100   | 21.53                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2560               | 21350   | 21.40                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2510               | 20850   | 21.47                 | 23   | 0-1   |  |  |  |  |
|         |            |         | 50        | 2535               | 21100   | 21.57                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2560               | 21350   | 21.36                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2510               | 20850   | 21.52                 | 23   | 0-1   |  |  |  |  |
|         |            | 100     | )RB       | 2535               | 21100   | 21.55                 | 23   | 0-1   |  |  |  |  |
| 20      |            |         |           | 2560               | 21350   | 21.56                 | 23   | 0-1   |  |  |  |  |
| 20      |            |         |           | 2510               | 20850   | 21.62                 | 23   | 0-1   |  |  |  |  |
|         |            |         | 0         | 2535               | 21100   | 21.61                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2560               | 21350   | 21.42                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2510               | 20850   | 21.73                 | 23   | 0-1   |  |  |  |  |
|         |            | 1 RB    | 50        | 2535               | 21100   | 21.34                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2560               | 21350   | 21.71                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2510               | 20850   | 21.93                 | 23   | 0-1   |  |  |  |  |
|         |            |         | 99        | 2535               | 21100   | 21.31                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2560               | 21350   | 21.22                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2510               | 20850   | 20.45                 | 22   | 0-2   |  |  |  |  |
|         | 16-QAM     |         | 0         | 2535               | 21100   | 20.50                 | 22   | 0-2   |  |  |  |  |
|         |            |         |           | 2560               | 21350   | 20.50                 | 22   | 0-2   |  |  |  |  |
|         |            |         |           | 2510               | 20850   | 20.46                 | 22   | 0-2   |  |  |  |  |
|         |            | 50 RB   | 25        | 2535               | 21100   | 20.50                 | 22   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 |  |  |  |  |
|         |            |         |           | 2560               | 21350   | 20.49                 | 22   |   |  |  |  |  |
|         |            |         |           | 2510               | 20850   | 20.48                 | 22   |   |  |  |  |  |
|         |            |         | 50        | 2535               | 21100   | 20.61                 | 22   |   |  |  |  |  |
|         |            |         |           | 2560               | 21350   | 20.42                 | 22   |   |  |  |  |  |
|         |            |         |           | 2510               | 20850   | 20.52                 | 22   |   |  |  |  |  |
|         |            | 100     | )RB       | 2535               | 21100   | 20.64                 | 22   |   |  |  |  |  |
|         |            |         |           | 2560               | 21350   | 20.59                 | 22   | 0-2   |  |  |  |  |

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|         | FDD Band 7 |         |           |                    |         |                       |  |   |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|         |            |         |           | 2507.5             | 20825   | 22.14                 | 24   | 0   |  |  |  |  |
|         |            |         | 0         | 2535               | 21100   | 22.25                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 2562.5             | 21375   | 22.22                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 2507.5             | 20825   | 22.25                 | 24   | 0   |  |  |  |  |
|         |            | 1 RB    | 36        | 2535               | 21100   | 22.37                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 2562.5             | 21375   | 22.36                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 2507.5             | 20825   | 22.26                 | 24   | 0   |  |  |  |  |
|         |            |         | 74        | 2535               | 21100   | 22.50                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 2562.5             | 21375   | 22.22                 | 24   | 0   |  |  |  |  |
|         |            |         |           | 2507.5             | 20825   | 21.25                 | 23   | 0-1   |  |  |  |  |
|         | QPSK       |         | 0         | 2535               | 21100   | 21.37                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2562.5             | 21375   | 21.35                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2507.5             | 20825   | 21.27                 | 23   | 0-1   |  |  |  |  |
|         |            | 36 RB   | 18        | 2535               | 21100   | 21.44                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2562.5             | 21375   | 21.35                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2507.5             | 20825   | 21.33                 | 23   | 0-1   |  |  |  |  |
|         |            |         | 37        | 2535               | 21100   | 21.48                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2562.5             | 21375   | 21.35                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2507.5             | 20825   | 21.32                 | 23   | 0-1   |  |  |  |  |
|         |            | 75      | RB        | 2535               | 21100   | 21.45                 | 23   | 0-1   |  |  |  |  |
| 15      |            |         |           | 2562.5             | 21375   | 21.37                 | 23   | 0-1   |  |  |  |  |
| 10      |            |         |           | 2507.5             | 20825   | 21.33                 | 23   | 0-1   |  |  |  |  |
|         |            |         | 0         | 2535               | 21100   | 21.57                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2562.5             | 21375   | 21.46                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2507.5             | 20825   | 21.81                 | 23   | 0-1   |  |  |  |  |
|         |            | 1 RB    | 36        | 2535               | 21100   | 21.56                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2562.5             | 21375   | 21.29                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2507.5             | 20825   | 21.65                 | 23   | 0-1   |  |  |  |  |
|         |            |         | 74        | 2535               | 21100   | 21.62                 | 23   |   |  |  |  |  |
|         |            |         |           | 2562.5             | 21375   | 21.49                 | 23   | 0-1   |  |  |  |  |
|         |            |         |           | 2507.5             | 20825   | 20.30                 | 22   | 0-2   |  |  |  |  |
|         | 16-QAM     |         | 0         | 2535               | 21100   | 20.49                 | 22   | 0-2   |  |  |  |  |
|         |            |         |           | 2562.5             | 21375   | 20.40                 | 22   | 0-2   |  |  |  |  |
|         |            |         |           | 2507.5             | 20825   | 20.28                 | 22   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0- |  |  |  |  |
|         |            | 36 RB   | 18        | 2535               | 21100   | 20.45                 | 22   |   |  |  |  |  |
|         |            |         |           | 2562.5             | 21375   | 20.42                 | 22   |   |  |  |  |  |
|         |            |         |           | 2507.5             | 20825   | 20.30                 | 22   | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   |  |  |  |  |
|         |            |         | 37        | 2535               | 21100   | 20.46                 | 22   |   |  |  |  |  |
|         |            |         |           | 2562.5             | 21375   | 20.36                 | 22   |   |  |  |  |  |
|         |            |         |           | 2507.5             | 20825   | 20.26                 | 22   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-                    |  |  |  |  |
|         | 75R        |         | KB        | 2535               | 21100   | 20.42                 | 22   |   |  |  |  |  |
|         |            |         |           | 2562.5             | 21375   | 20.38                 | 22   | 0-2   |  |  |  |  |

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| FDD Band 7 |            |         |           |                    |         |                       |  |                                |  |
|------------|------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|--|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |
|            |            | 1 RB    | 0         | 2505               | 20800   | 22.12                 | 24   | 0                              |  |
|            |            |         |           | 2535               | 21100   | 22.31                 | 24   | 0                              |  |
|            |            |         |           | 2565               | 21400   | 22.20                 | 24   | 0                              |  |
|            |            |         | 25        | 2505               | 20800   | 22.17                 | 24   | 0                              |  |
|            |            |         |           | 2535               | 21100   | 22.37                 | 24   | 0                              |  |
|            |            |         |           | 2565               | 21400   | 22.19                 | 24   | 0                              |  |
|            |            |         | 49        | 2505               | 20800   | 22.19                 | 24   | 0                              |  |
|            |            |         |           | 2535               | 21100   | 22.40                 | 24   | 0                              |  |
|            |            |         |           | 2565               | 21400   | 22.25                 | 24   | 0                              |  |
|            | QPSK       | 25 RB   | 0         | 2505               | 20800   | 21.29                 | 23   | 0-1                            |  |
|            |            |         |           | 2535               | 21100   | 21.49                 | 23   | 0-1                            |  |
|            |            |         |           | 2565               | 21400   | 21.40                 | 23   | 0-1                            |  |
|            |            |         | 12        | 2505               | 20800   | 21.27                 | 23   | 0-1                            |  |
|            |            |         |           | 2535               | 21100   | 21.48                 | 23   | 0-1                            |  |
|            |            |         |           | 2565               | 21400   | 21.37                 | 23   | 0-1                            |  |
|            |            |         | 25        | 2505               | 20800   | 21.33                 | 23   | 0-1                            |  |
|            |            |         |           | 2535               | 21100   | 21.48                 | 23   | 0-1                            |  |
|            |            |         |           | 2565               | 21400   | 21.41                 | 23   | 0-1                            |  |
|            |            | 50RB    |           | 2505               | 20800   | 21.26                 | 23   | 0-1                            |  |
|            |            |         |           | 2535               | 21100   | 21.51                 | 23   | 0-1                            |  |
| 10         |            |         |           | 2565               | 21400   | 21.37                 | 23   | 0-1                            |  |
| 10         | 16-QAM     | 1 RB    | 0         | 2505               | 20800   | 21.56                 | 23   | 0-1                            |  |
|            |            |         |           | 2535               | 21100   | 21.51                 | 23   | 0-1                            |  |
|            |            |         |           | 2565               | 21400   | 21.50                 | 23   | 0-1                            |  |
|            |            |         | 25<br>49  | 2505               | 20800   | 21.41                 | 23   | 0-1                            |  |
|            |            |         |           | 2535               | 21100   | 21.76                 | 23   | 0-1                            |  |
|            |            |         |           | 2565               | 21400   | 21.66                 | 23   | 0-1                            |  |
|            |            |         |           | 2505               | 20800   | 21.42                 | 23   | 0-1                            |  |
|            |            |         |           | 2535               | 21100   | 21.28                 | 23   | 0-1                            |  |
|            |            |         |           | 2565               | 21400   | 21.47                 | 23   | 0-1                            |  |
|            |            | 25 RB   | 0         | 2505               | 20800   | 20.41                 | 22   | 0-2                            |  |
|            |            |         |           | 2535               | 21100   | 20.56                 | 22   | 0-2                            |  |
|            |            |         |           | 2565               | 21400   | 20.47                 | 22   | 0-2                            |  |
|            |            |         | 12        | 2505               | 20800   | 20.35                 | 22   | 0-2                            |  |
|            |            |         |           | 2535               | 21100   | 20.57                 | 22   | 0-2                            |  |
|            |            |         |           | 2565               | 21400   | 20.40                 | 22   | 0-2                            |  |
|            |            |         | 25        | 2505               | 20800   | 20.37                 | 22   | 0-2                            |  |
|            |            |         |           | 2535               | 21100   | 20.53                 | 22   | 0-2                            |  |
|            |            |         |           | 2565               | 21400   | 20.47                 | 22   | 0-2                            |  |
|            |            | 50RB    |           | 2505               | 20800   | 20.28                 | 22   | 0-2                            |  |
|            |            |         |           | 2535<br>2565       | 21100   | 20.44                 | 22   | 0-2                            |  |
|            |            |         |           |                    | 21400   | 20.41                 | 22   | 0-2                            |  |

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| FDD Band 7 |            |         |           |                    |         |                       |                                     |                                |  |
|------------|------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|--------------------------------|--|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |
|            |            | 1 RB    | 0         | 2502.5             | 20775   | 22.14                 | 24                                  | 0                              |  |
|            |            |         |           | 2535               | 21100   | 22.41                 | 24                                  | 0                              |  |
|            |            |         |           | 2567.5             | 21425   | 22.30                 | 24                                  | 0                              |  |
|            |            |         | 12        | 2502.5             | 20775   | 22.09                 | 24                                  | 0                              |  |
|            |            |         |           | 2535               | 21100   | 22.42                 | 24                                  | 0                              |  |
|            |            |         |           | 2567.5             | 21425   | 22.26                 | 24                                  | 0                              |  |
|            |            |         | 24        | 2502.5             | 20775   | 22.12                 | 24                                  | 0                              |  |
|            |            |         |           | 2535               | 21100   | 22.38                 | 24                                  | 0                              |  |
|            |            |         |           | 2567.5             | 21425   | 22.23                 | 24                                  | 0                              |  |
|            |            | 12 RB   | 0         | 2502.5             | 20775   | 21.18                 | 23                                  | 0-1                            |  |
|            | QPSK       |         |           | 2535               | 21100   | 21.36                 | 23                                  | 0-1                            |  |
|            |            |         |           | 2567.5             | 21425   | 21.33                 | 23                                  | 0-1                            |  |
|            |            |         | 6         | 2502.5             | 20775   | 21.17                 | 23                                  | 0-1                            |  |
|            |            |         |           | 2535               | 21100   | 21.37                 | 23                                  | 0-1                            |  |
|            |            |         |           | 2567.5             | 21425   | 21.33                 | 23                                  | 0-1                            |  |
|            |            |         | 13        | 2502.5             | 20775   | 21.18                 | 23                                  | 0-1                            |  |
|            |            |         |           | 2535               | 21100   | 21.40                 | 23                                  | 0-1                            |  |
|            |            |         |           | 2567.5             | 21425   | 21.30                 | 23                                  | 0-1                            |  |
|            |            | 25RB    |           | 2502.5             | 20775   | 21.19                 | 23                                  | 0-1                            |  |
|            |            |         |           | 2535               | 21100   | 21.40                 | 23                                  | 0-1                            |  |
| 5          |            |         |           | 2567.5             | 21425   | 21.35                 | 23                                  | 0-1                            |  |
| Ĭ          | 16-QAM     | 1 RB    | 0         | 2502.5             | 20775   | 21.69                 | 23                                  | 0-1                            |  |
|            |            |         |           | 2535               | 21100   | 21.15                 | 23                                  | 0-1                            |  |
|            |            |         |           | 2567.5             | 21425   | 21.51                 | 23                                  | 0-1                            |  |
|            |            |         | 12        | 2502.5             | 20775   | 21.25                 | 23                                  | 0-1                            |  |
|            |            |         |           | 2535               | 21100   | 21.36                 | 23                                  | 0-1                            |  |
|            |            |         |           | 2567.5             | 21425   | 21.46                 | 23                                  | 0-1                            |  |
|            |            |         | 24        | 2502.5             | 20775   | 21.62                 | 23                                  | 0-1                            |  |
|            |            |         |           | 2535               | 21100   | 21.59                 | 23                                  | 0-1                            |  |
|            |            |         |           | 2567.5             | 21425   | 21.57                 | 23                                  | 0-1                            |  |
|            |            | 12 RB   | 0         | 2502.5             | 20775   | 20.28                 | 22                                  | 0-2                            |  |
|            |            |         |           | 2535               | 21100   | 20.40                 | 22                                  | 0-2                            |  |
|            |            |         |           | 2567.5             | 21425   | 20.34                 | 22                                  | 0-2                            |  |
|            |            |         | 6         | 2502.5             | 20775   | 20.22                 | 22                                  | 0-2                            |  |
|            |            |         |           | 2535               | 21100   | 20.31                 | 22                                  | 0-2                            |  |
|            |            |         |           | 2567.5             | 21425   | 20.37                 | 22                                  | 0-2                            |  |
|            |            |         | 13        | 2502.5             | 20775   | 20.27                 | 22                                  | 0-2                            |  |
|            |            |         |           | 2535               | 21100   | 20.37                 | 22                                  | 0-2                            |  |
|            |            |         |           | 2567.5             | 21425   | 20.39                 | 22                                  | 0-2                            |  |
|            |            | 25RB    |           | 2502.5             | 20775   | 20.17                 | 22                                  | 0-2                            |  |
|            |            |         |           | 2535               | 21100   | 20.39                 | 22                                  | 0-2                            |  |
|            |            |         |           | 2567.5             | 21425   | 20.30                 | 22                                  | 0-2                            |  |

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| FDD Band 12 |            |         |           |                    |         |                       |                                     |                                |  |
|-------------|------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|--------------------------------|--|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |
|             |            | 1 RB    | 0         | 704                | 23060   | 22.51                 | 24                                  | 0                              |  |
|             |            |         |           | 707.5              | 23095   | 22.59                 | 24                                  | 0                              |  |
|             |            |         |           | 711                | 23130   | 22.42                 | 24                                  | 0                              |  |
|             |            |         | 25        | 704                | 23060   | 22.67                 | 24                                  | 0                              |  |
|             |            |         |           | 707.5              | 23095   | 22.69                 | 24                                  | 0                              |  |
|             |            |         |           | 711                | 23130   | 22.44                 | 24                                  | 0                              |  |
|             |            |         | 49        | 704                | 23060   | 22.66                 | 24                                  | 0                              |  |
|             |            |         |           | 707.5              | 23095   | 22.62                 | 24                                  | 0                              |  |
|             |            |         |           | 711                | 23130   | 22.63                 | 24                                  | 0                              |  |
|             |            |         |           | 704                | 23060   | 21.79                 | 23                                  | 0-1                            |  |
|             | QPSK       |         | 0         | 707.5              | 23095   | 21.70                 | 23                                  | 0-1                            |  |
|             |            |         |           | 711                | 23130   | 21.64                 | 23                                  | 0-1                            |  |
|             |            |         | 12        | 704                | 23060   | 21.81                 | 23                                  | 0-1                            |  |
|             |            | 25 RB   |           | 707.5              | 23095   | 21.67                 | 23                                  | 0-1                            |  |
|             |            |         |           | 711                | 23130   | 21.59                 | 23                                  | 0-1                            |  |
|             |            |         | 25        | 704                | 23060   | 21.78                 | 23                                  | 0-1                            |  |
|             |            |         |           | 707.5              | 23095   | 21.61                 | 23                                  | 0-1                            |  |
|             |            |         |           | 711                | 23130   | 21.60                 | 23                                  | 0-1                            |  |
|             |            | 50RB    |           | 704                | 23060   | 21.86                 | 23                                  | 0-1                            |  |
|             |            |         |           | 707.5              | 23095   | 21.70                 | 23                                  | 0-1                            |  |
| 10          |            |         |           | 711                | 23130   | 21.64                 | 23                                  | 0-1                            |  |
|             | 16-QAM     | 1 RB    | 0         | 704                | 23060   | 21.82                 | 23                                  | 0-1                            |  |
|             |            |         |           | 707.5              | 23095   | 21.81                 | 23                                  | 0-1                            |  |
|             |            |         |           | 711                | 23130   | 21.42                 | 23                                  | 0-1                            |  |
|             |            |         | 25        | 704                | 23060   | 21.62                 | 23                                  | 0-1                            |  |
|             |            |         |           | 707.5              | 23095   | 21.81                 | 23                                  | 0-1                            |  |
|             |            |         |           | 711                | 23130   | 21.97                 | 23                                  | 0-1                            |  |
|             |            |         | 49        | 704                | 23060   | 21.99                 | 23                                  | 0-1                            |  |
|             |            |         |           | 707.5              | 23095   | 21.74                 | 23                                  | 0-1                            |  |
|             |            |         |           | 711                | 23130   | 21.32                 | 23                                  | 0-1                            |  |
|             |            | 25 RB   | 0         | 704                | 23060   | 20.93                 | 22                                  | 0-2                            |  |
|             |            |         |           | 707.5              | 23095   | 20.76                 | 22                                  | 0-2                            |  |
|             |            |         |           | 711                | 23130   | 20.58                 | 22                                  | 0-2                            |  |
|             |            |         | 12        | 704                | 23060   | 20.93                 | 22                                  | 0-2                            |  |
|             |            |         |           | 707.5              | 23095   | 20.80                 | 22                                  | 0-2                            |  |
|             |            |         |           | 711                | 23130   | 20.78                 | 22                                  | 0-2                            |  |
|             |            |         | 25        | 704                | 23060   | 20.80                 | 22                                  | 0-2                            |  |
|             |            |         |           | 707.5              | 23095   | 20.68                 | 22                                  | 0-2                            |  |
|             |            |         |           | 711                | 23130   | 20.63                 | 22                                  | 0-2                            |  |
|             |            | 50RB    |           | 704                | 23060   | 20.92                 | 22                                  | 0-2                            |  |
|             |            |         |           | 707.5              | 23095   | 20.75                 | 22                                  | 0-2                            |  |
|             |            |         |           | 711                | 23130   | 20.73                 | 22                                  | 0-2                            |  |

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|         | FDD Band 12 |         |           |                    |         |                       |                                     |   |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|---|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 22.56                 | 24                                  | 0   |  |  |  |  |
|         |             |         | 0         | 707.5              | 23095   | 22.67                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 22.48                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 22.57                 | 24                                  | 0   |  |  |  |  |
|         |             | 1 RB    | 12        | 707.5              | 23095   | 22.53                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 22.45                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 22.63                 | 24                                  | 0   |  |  |  |  |
|         |             |         | 24        | 707.5              | 23095   | 22.47                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 22.49                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 21.51                 | 23                                  | 0-1   |  |  |  |  |
|         | QPSK        |         | 0         | 707.5              | 23095   | 21.63                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 21.40                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 21.67                 | 23                                  | 0-1   |  |  |  |  |
|         |             | 12 RB   | 6         | 707.5              | 23095   | 21.58                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 21.43                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 21.66                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         | 13        | 707.5              | 23095   | 21.63                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 21.48                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 21.65                 | 23                                  | 0-1   |  |  |  |  |
|         |             | 25      | RB        | 707.5              | 23095   | 21.61                 | 23                                  | 0-1   |  |  |  |  |
| 5       |             |         |           | 713.5              | 23155   | 21.54                 | 23                                  | 0-1   |  |  |  |  |
| Ĭ       |             |         |           | 701.5              | 23035   | 21.77                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         | 0         | 707.5              | 23095   | 21.68                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 21.87                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 21.86                 | 23                                  | 0-1   |  |  |  |  |
|         |             | 1 RB    | 12        | 707.5              | 23095   | 21.74                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 21.56                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 21.93                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         | 24        | 707.5              | 23095   | 21.80                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 21.80                 | 23                                  |   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.66                 | 22                                  | 0-2   |  |  |  |  |
|         | 16-QAM      |         | 0         | 707.5              | 23095   | 20.62                 | 22                                  | 0-2   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.47                 | 22                                  | 0-2   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.71                 | 22                                  |   |  |  |  |  |
|         |             | 12 RB   | 6         | 707.5              | 23095   | 20.70                 | 22                                  | <b>-</b>  |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.49                 | 22                                  | 0-2   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.70                 | 22                                  | 0-2   |  |  |  |  |
|         |             |         | 13        | 707.5              | 23095   | 20.63                 | 22                                  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0- |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.69                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.69                 | 22                                  |   |  |  |  |  |
|         | 25RE        |         | KB        | 707.5              | 23095   | 20.71                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.51                 | 22                                  | 0-2   |  |  |  |  |

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|         | FDD Band 12 |         |           |                    |         |                       |  |   |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|         |             |         |           | 700.5              | 23025   | 22.50                 | 24   | 0   |  |  |  |  |
|         |             |         | 0         | 707.5              | 23095   | 22.42                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 714.5              | 23165   | 22.36                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 700.5              | 23025   | 22.60                 | 24   | 0   |  |  |  |  |
|         |             | 1 RB    | 7         | 707.5              | 23095   | 22.50                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 714.5              | 23165   | 22.50                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 700.5              | 23025   | 22.66                 | 24   | 0   |  |  |  |  |
|         |             |         | 14        | 707.5              | 23095   | 22.55                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 714.5              | 23165   | 22.50                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 700.5              | 23025   | 21.56                 | 23   | 0-1   |  |  |  |  |
|         | QPSK        |         | 0         | 707.5              | 23095   | 21.59                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 714.5              | 23165   | 21.45                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 700.5              | 23025   | 21.55                 | 23   | 0-1   |  |  |  |  |
|         |             | 8 RB    | 4         | 707.5              | 23095   | 21.59                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 714.5              | 23165   | 21.73                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 700.5              | 23025   | 21.60                 | 23   | 0-1   |  |  |  |  |
|         |             |         | 7         | 707.5              | 23095   | 21.56                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 714.5              | 23165   | 21.63                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 700.5              | 23025   | 21.61                 | 23   | 0-1   |  |  |  |  |
|         |             | 15      | RB        | 707.5              | 23095   | 21.56                 | 23   | 0-1   |  |  |  |  |
| 3       |             |         |           | 714.5              | 23165   | 21.43                 | 23   | 0-1   |  |  |  |  |
| Ĭ       |             |         |           | 700.5              | 23025   | 21.92                 | 23   | 0-1   |  |  |  |  |
|         |             |         | 0         | 707.5              | 23095   | 21.81                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 714.5              | 23165   | 21.66                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 700.5              | 23025   | 21.71                 | 23   | 0-1   |  |  |  |  |
|         |             | 1 RB    | 7         | 707.5              | 23095   | 21.68                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 714.5              | 23165   | 21.81                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 700.5              | 23025   | 21.88                 | 23   | 0-1   |  |  |  |  |
|         |             |         | 14        | 707.5              | 23095   | 21.81                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 714.5              | 23165   | 21.65                 | 23   |   |  |  |  |  |
|         |             |         |           | 700.5              | 23025   | 20.51                 | 22   | 0-2   |  |  |  |  |
|         | 16-QAM      |         | 0         | 707.5              | 23095   | 20.52                 | 22   | 0-2   |  |  |  |  |
|         |             |         |           | 714.5              | 23165   | 20.62                 | 22   | 0-2   |  |  |  |  |
|         |             |         |           | 700.5              | 23025   | 20.56                 | 22   | 0-2   |  |  |  |  |
|         |             | 8 RB    | 4         | 707.5              | 23095   | 20.62                 | 22   |   |  |  |  |  |
|         |             |         |           | 714.5              | 23165   | 20.61                 | 22   | 0-2   |  |  |  |  |
|         |             |         | _         | 700.5              | 23025   | 20.63                 | 22   | 0-2   |  |  |  |  |
|         |             |         | 7         | 707.5              | 23095   | 20.64                 | 22   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0- |  |  |  |  |
|         |             |         |           | 714.5              | 23165   | 20.62                 | 22   |   |  |  |  |  |
|         |             |         |           | 700.5              | 23025   | 20.31                 | 22   |   |  |  |  |  |
|         |             | 15RI    |           | 707.5              | 23095   | 20.65                 | 22   |   |  |  |  |  |
|         |             |         |           | 714.5              | 23165   | 20.75                 | 22   | 0-2   |  |  |  |  |

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|         | FDD Band 12 |         |           |                    |         |                       |  |   |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|         |             |         |           | 699.7              | 23017   | 22.55                 | 24   | 0   |  |  |  |  |
|         |             |         | 0         | 707.5              | 23095   | 22.48                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 715.3              | 23173   | 22.46                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 699.7              | 23017   | 22.53                 | 24   | 0   |  |  |  |  |
|         |             | 1 RB    | 2         | 707.5              | 23095   | 22.56                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 715.3              | 23173   | 22.43                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 699.7              | 23017   | 22.61                 | 24   | 0   |  |  |  |  |
|         |             |         | 5         | 707.5              | 23095   | 22.62                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 715.3              | 23173   | 22.66                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 699.7              | 23017   | 22.64                 | 24   | 0   |  |  |  |  |
|         | QPSK        |         | 0         | 707.5              | 23095   | 22.50                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 715.3              | 23173   | 22.48                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 699.7              | 23017   | 22.46                 | 24   | 0   |  |  |  |  |
|         |             | 3 RB    | 2         | 707.5              | 23095   | 22.50                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 715.3              | 23173   | 22.36                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 699.7              | 23017   | 22.56                 | 24   | 0   |  |  |  |  |
|         |             |         | 3         | 707.5              | 23095   | 22.56                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 715.3              | 23173   | 22.37                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 699.7              | 23017   | 21.59                 | 23   | 0-1   |  |  |  |  |
|         |             | 6F      | RB        | 707.5              | 23095   | 21.60                 | 23   | 0-1   |  |  |  |  |
| 1.4     |             |         |           | 715.3              | 23173   | 21.43                 | 23   | 0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1                             |  |  |  |  |
|         |             |         |           | 699.7              | 23017   | 21.93                 | 23   | 0-1   |  |  |  |  |
|         |             |         | 0         | 707.5              | 23095   | 21.82                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 715.3              | 23173   | 21.31                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 699.7              | 23017   | 21.64                 | 23   | 0-1   |  |  |  |  |
|         |             | 1 RB    | 2         | 707.5              | 23095   | 21.24                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 715.3              | 23173   | 21.77                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 699.7              | 23017   | 21.91                 | 23   | 0-1   |  |  |  |  |
|         |             |         | 5         | 707.5              | 23095   | 21.61                 | 23   |   |  |  |  |  |
|         |             |         |           | 715.3              | 23173   | 21.93                 | 23   |   |  |  |  |  |
|         |             |         | _         | 699.7              | 23017   | 21.54                 | 23   |   |  |  |  |  |
|         | 16-QAM      |         | 0         | 707.5              | 23095   | 21.57                 | 23   |   |  |  |  |  |
|         |             |         |           | 715.3              | 23173   | 21.64                 | 23   |   |  |  |  |  |
|         |             | 0.55    |           | 699.7              | 23017   | 21.54                 | 23   |   |  |  |  |  |
|         |             | 3 RB    | 2         | 707.5              | 23095   | 21.49                 | 23   |   |  |  |  |  |
|         |             |         |           | 715.3              | 23173   | 21.68                 | 23   |   |  |  |  |  |
|         |             |         | _         | 699.7              | 23017   | 21.71                 | 23   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |  |
|         |             |         | 3         | 707.5              | 23095   | 21.60                 | 23   |   |  |  |  |  |
|         |             |         |           | 715.3              | 23173   | 21.56                 | 23   |   |  |  |  |  |
|         |             | 6RB     |           | 699.7              | 23017   | 20.64                 | 22   |   |  |  |  |  |
|         |             |         | (D        | 707.5              | 23095   | 20.69                 | 22   |   |  |  |  |  |
|         |             |         |           | 715.3              | 23173   | 20.66                 | 22   | 0-2   |  |  |  |  |

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|         |            |         |           | FDD Band 13        |         |                       |  |                                |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |
|         |            |         | 0         | 782                | 23230   | 22.69                 | 24   | 0                              |
|         |            | 1 RB    | 25        | 782                | 23230   | 22.85                 | 24   | 0                              |
|         |            |         | 49        | 782                | 23230   | 22.66                 | 24   | 0                              |
|         | QPSK       |         | 0         | 782                | 23230   | 22.00                 | 23   | 0-1                            |
|         |            | 25 RB   | 12        | 782                | 23230   | 21.80                 | 23   | 0-1                            |
|         |            |         | 25        | 782                | 23230   | 21.68                 | 23   | 0-1                            |
| 10      |            | 50      | RB        | 782                | 23230   | 21.81                 | 23   | 0-1                            |
| 10      |            |         | 0         | 782                | 23230   | 21.82                 | 23   | 0-1                            |
|         |            | 1 RB    | 25        | 782                | 23230   | 21.77                 | 23   | 0-1                            |
|         |            |         | 49        | 782                | 23230   | 21.99                 | 23   | 0-1                            |
|         | 16-QAM     |         | 0         | 782                | 23230   | 20.87                 | 22   | 0-2                            |
|         |            | 25 RB   | 12        | 782                | 23230   | 20.71                 | 22   | 0-2                            |
|         |            |         | 25        | 782                | 23230   | 20.69                 | 22   | 0-2                            |
|         |            | 50      | RB        | 782                | 23230   | 20.79                 | 22   | 0-2                            |

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|         | FDD Band 13 |         |           |                    |         |                       |                                     |  |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|--|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)   |  |  |  |  |
|         |             |         |           | 779.5              | 23205   | 22.56                 | 24                                  | 0  |  |  |  |  |
|         |             |         | 0         | 782                | 23230   | 22.76                 | 24                                  | 0  |  |  |  |  |
|         |             |         |           | 784.5              | 23255   | 22.67                 | 24                                  | 0  |  |  |  |  |
|         |             |         |           | 779.5              | 23205   | 22.84                 | 24                                  | 0  |  |  |  |  |
|         |             | 1 RB    | 12        | 782                | 23230   | 22.61                 | 24                                  | 0  |  |  |  |  |
|         |             |         |           | 784.5              | 23255   | 22.66                 | 24                                  | 0  |  |  |  |  |
|         |             |         |           | 779.5              | 23205   | 22.61                 | 24                                  | 0  |  |  |  |  |
|         |             |         | 24        | 782                | 23230   | 22.62                 | 24                                  | 0  |  |  |  |  |
|         |             |         |           | 784.5              | 23255   | 22.78                 | 24                                  | 0  |  |  |  |  |
|         |             |         |           | 779.5              | 23205   | 21.85                 | 23                                  | 0-1  |  |  |  |  |
|         | QPSK        |         | 0         | 782                | 23230   | 21.74                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 784.5              | 23255   | 21.67                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 779.5              | 23205   | 21.73                 | 23                                  | 0-1  |  |  |  |  |
|         |             | 12 RB   | 6         | 782                | 23230   | 21.63                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 784.5              | 23255   | 21.59                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 779.5              | 23205   | 21.77                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         | 13        | 782                | 23230   | 21.69                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 784.5              | 23255   | 21.73                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 779.5              | 23205   | 21.81                 | 23                                  | 0-1  |  |  |  |  |
|         |             | 25      | RB        | 782                | 23230   | 21.61                 | 23                                  | 0-1  |  |  |  |  |
| _       |             |         |           | 784.5              | 23255   | 21.72                 | 23                                  | 0-1  |  |  |  |  |
| 5       |             |         |           | 779.5              | 23205   | 21.84                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         | 0         | 782                | 23230   | 21.72                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 784.5              | 23255   | 21.56                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 779.5              | 23205   | 21.76                 | 23                                  | 0-1  |  |  |  |  |
|         |             | 1 RB    | 12        | 782                | 23230   | 21.82                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 784.5              | 23255   | 21.93                 | 23                                  | 0-1  |  |  |  |  |
|         | [           |         |           | 779.5              | 23205   | 21.95                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         | 24        | 782                | 23230   | 21.77                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 784.5              | 23255   | 21.90                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 779.5              | 23205   | 20.92                 | 22                                  | 0-2  |  |  |  |  |
|         | 16-QAM      |         | 0         | 782                | 23230   | 20.77                 | 22                                  | 0-2  |  |  |  |  |
|         | [           |         |           | 784.5              | 23255   | 20.66                 | 22                                  | 0-2  |  |  |  |  |
|         | [           |         |           | 779.5              | 23205   | 20.92                 | 22                                  | 0-2  |  |  |  |  |
|         | [           | 12 RB   | 6         | 782                | 23230   | 20.65                 | 22                                  | 0-2  |  |  |  |  |
|         | [           |         |           | 784.5              | 23255   | 20.56                 | 22                                  | 0-2  |  |  |  |  |
|         | [           |         |           | 779.5              | 23205   | 20.83                 | 22                                  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1 |  |  |  |  |
|         | [           |         | 13        | 782                | 23230   | 20.69                 | 22                                  | 0-2  |  |  |  |  |
|         |             |         |           | 784.5              | 23255   | 20.74                 | 22                                  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1 |  |  |  |  |
|         |             | •       |           | 779.5              | 23205   | 20.80                 | 22                                  | 0-2  |  |  |  |  |
|         |             | 25      | RB        | 782                | 23230   | 20.59                 | 22                                  | 0-2  |  |  |  |  |
|         |             |         |           | 784.5              | 23255   | 20.75                 | 22                                  | 0-2  |  |  |  |  |

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|         | FDD Band 17 |         |            |                    |         |                       |  |                                |  |  |  |  |
|---------|-------------|---------|------------|--------------------|---------|-----------------------|--|--------------------------------|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset  | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |  |
|         |             |         |            | 709                | 23780   | 22.74                 | 24   | 0                              |  |  |  |  |
|         |             |         | 0          | 710                | 23790   | 22.58                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 711                | 23800   | 22.57                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 709                | 23780   | 22.51                 | 24   | 0                              |  |  |  |  |
|         |             | 1 RB    | 25         | 710                | 23790   | 22.55                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 711                | 23800   | 22.56                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 709                | 23780   | 22.54                 | 24   | 0                              |  |  |  |  |
|         |             |         | 49         | 710                | 23790   | 22.64                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 711                | 23800   | 22.62                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 709                | 23780   | 21.68                 | 23   | 0-1                            |  |  |  |  |
|         | QPSK        |         | 0          | 710                | 23790   | 21.74                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 711                | 23800   | 21.75                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 709                | 23780   | 21.86                 | 23   | 0-1                            |  |  |  |  |
|         |             | 25 RB   | 12         | 710                | 23790   | 21.76                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 711                | 23800   | 21.72                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 709                | 23780   | 21.75                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 25         | 710                | 23790   | 21.63                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 711                | 23800   | 21.55                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 709                | 23780   | 21.81                 | 23   | 0-1                            |  |  |  |  |
|         |             | 50      | RB         | 710                | 23790   | 21.67                 | 23   | 0-1                            |  |  |  |  |
| 10      |             |         |            | 711                | 23800   | 21.71                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 709                | 23780   | 21.75                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 0          | 710                | 23790   | 21.96                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 711                | 23800   | 21.88                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 709                | 23780   | 21.88                 | 23   | 0-1                            |  |  |  |  |
|         |             | 1 RB    | 25         | 710                | 23790   | 21.90                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 711                | 23800   | 21.87                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | , -        | 709                | 23780   | 21.90                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 49         | 710                | 23790   | 21.72                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 711                | 23800   | 21.80                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | _          | 709                | 23780   | 20.81                 | 22   | 0-2                            |  |  |  |  |
|         | 16-QAM      |         | 0          | 710                | 23790   | 20.70                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |            | 711                | 23800   | 20.71                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |            | 709                | 23780   | 20.77                 | 22   | 0-2                            |  |  |  |  |
|         |             | 25 RB   | 12         | 710                | 23790   | 20.90                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |            | 711                | 23800   | 20.69                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |            | 709                | 23780   | 20.79                 | 22   | 0-2                            |  |  |  |  |
|         |             |         | 25         | 710                | 23790   | 20.65                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |            | 711                | 23800   | 20.64                 | 22   | 0-2                            |  |  |  |  |
|         |             |         | DD         | 709                | 23780   | 20.86                 | 22   | 0-2                            |  |  |  |  |
|         | 50R         | KR      | 710<br>711 | 23790              | 20.63   | 22                    | 0-2  |                                |  |  |  |  |
|         |             |         |            |                    | 23800   | 20.82                 | 22   | 0-2                            |  |  |  |  |

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|         | FDD Band 17 |         |           |                    |         |                       |  |   |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)          |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 22.71                 | 24   | 0                                       |  |  |  |  |
|         |             |         | 0         | 710                | 23790   | 22.55                 | 24   | 0                                       |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 22.48                 | 24   | 0                                       |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 22.57                 | 24   | 0                                       |  |  |  |  |
|         |             | 1 RB    | 12        | 710                | 23790   | 22.51                 | 24   | 0                                       |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 22.42                 | 24   | 0                                       |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 22.61                 | 24   | 0                                       |  |  |  |  |
|         |             |         | 24        | 710                | 23790   | 22.49                 | 24   | 0                                       |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 22.73                 | 24   | 0                                       |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 21.62                 | 23   | 0-1                                     |  |  |  |  |
|         | QPSK        |         | 0         | 710                | 23790   | 21.66                 | 23   | 0-1                                     |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 21.47                 | 23   | 0-1                                     |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 21.59                 | 23   | 0-1                                     |  |  |  |  |
|         |             | 12 RB   | 6         | 710                | 23790   | 21.65                 | 23   | 0-1                                     |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 21.38                 | 23   | 0-1                                     |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 21.64                 | 23   | 0-1                                     |  |  |  |  |
|         |             |         | 13        | 710                | 23790   | 21.67                 | 23   | 0-1                                     |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 21.55                 | 23   | 0-1                                     |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 21.60                 | 23   | 0-1                                     |  |  |  |  |
|         |             | 25      | RB        | 710                | 23790   | 21.63                 | 23   | 0-1                                     |  |  |  |  |
| 5       |             |         |           | 713.5              | 23825   | 21.56                 | 23   | 0-1                                     |  |  |  |  |
| Ĭ       |             |         |           | 706.5              | 23755   | 21.86                 | 23   | 0-1                                     |  |  |  |  |
|         |             |         | 0         | 710                | 23790   | 21.37                 | 23   | 0-1                                     |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 21.79                 | 23   | 0-1                                     |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 21.79                 | 23   | 0-1                                     |  |  |  |  |
|         |             | 1 RB    | 12        | 710                | 23790   | 21.73                 | 23   | 0-1                                     |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 21.76                 | 23   | 0-1                                     |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 21.84                 | 23   | 0-1                                     |  |  |  |  |
|         |             |         | 24        | 710                | 23790   | 21.74                 | 23   | 0-1                                     |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 21.83                 | 23   | 0-1                                     |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 20.62                 | 22   | 0-2                                     |  |  |  |  |
|         | 16-QAM      |         | 0         | 710                | 23790   | 20.75                 | 22   | 0-2                                     |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.50                 | 22   | 0-2                                     |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 20.63                 | 22   | 0-2                                     |  |  |  |  |
|         |             | 12 RB   | 6         | 710                | 23790   | 20.55                 | 22   |   |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.68                 | 22   | 0-2                                     |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 20.66                 | 22   | 0-2                                     |  |  |  |  |
|         |             |         | 13        | 710                | 23790   | 20.80                 | 22   | 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.41                 | 22   |   |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 20.64                 | 22   |   |  |  |  |  |
|         |             | 25RB    |           | 710                | 23790   | 20.56                 | 22   |   |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.50                 | 22   | 0-2                                     |  |  |  |  |

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|         |            |         |           | FDD Band 26        |         |                       |  |   |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |
|         |            |         |           | 822.5              | 26825   | 22.26                 | 24   | 0   |
|         |            |         | 0         | 831.5              | 26865   | 22.64                 | 24   | 0   |
|         |            |         |           | 841.5              | 26965   | 22.37                 | 24   | 0   |
|         |            |         |           | 822.5              | 26825   | 22.26                 | 24   | 0   |
|         |            | 1 RB    | 36        | 831.5              | 26865   | 22.36                 | 24   | 0   |
|         |            |         |           | 841.5              | 26965   | 22.42                 | 24   | 0   |
|         |            |         |           | 822.5              | 26825   | 22.29                 | 24   | 0   |
|         |            |         | 74        | 831.5              | 26865   | 22.32                 | 24   | 0   |
|         |            |         |           | 841.5              | 26965   | 22.47                 | 24   | 0   |
|         |            |         |           | 822.5              | 26825   | 21.27                 | 23   | 0-1   |
|         | QPSK       |         | 0         | 831.5              | 26865   | 21.37                 | 23   | 0-1   |
|         |            |         |           | 841.5              | 26965   | 21.34                 | 23   | 0-1   |
|         |            |         |           | 822.5              | 26825   | 21.35                 | 23   | 0-1   |
|         |            | 36 RB   | 18        | 831.5              | 26865   | 21.48                 | 23   | 0-1   |
|         |            |         |           | 841.5              | 26965   | 21.48                 | 23   | 0-1   |
|         |            |         |           | 822.5              | 26825   | 21.34                 | 23   | 0-1   |
|         |            |         | 37        | 831.5              | 26865   | 21.45                 | 23   | 0-1   |
|         |            |         |           | 841.5              | 26965   | 21.57                 | 23   | 0-1   |
|         |            |         |           | 822.5              | 26825   | 21.37                 | 23   | 0-1   |
|         |            | 75      | RB        | 831.5              | 26865   | 21.52                 | 23   | 0-1   |
| 15      |            |         |           | 841.5              | 26965   | 21.55                 | 23   | 0-1   |
|         |            |         |           | 822.5              | 26825   | 21.78                 | 23   | 0-1   |
|         |            |         | 0         | 831.5              | 26865   | 21.78                 | 23   | 0-1   |
|         |            |         |           | 841.5              | 26965   | 21.62                 | 23   | 0-1   |
|         |            |         |           | 822.5              | 26825   | 21.34                 | 23   | 0-1   |
|         |            | 1 RB    | 36        | 831.5              | 26865   | 21.72                 | 23   | 0-1   |
|         |            |         |           | 841.5              | 26965   | 21.83                 | 23   | 0-1   |
|         |            |         | _         | 822.5              | 26825   | 21.54                 | 23   | 0-1   |
|         |            |         | 74        | 831.5              | 26865   | 21.61                 | 23   | 0-1   |
|         |            |         |           | 841.5              | 26965   | 21.95                 | 23   | 0-1   |
|         |            |         | _         | 822.5              | 26825   | 20.32                 | 22   |   |
|         | 16-QAM     |         | 0         | 831.5              | 26865   | 20.42                 | 22   |   |
|         |            |         |           | 841.5              | 26965   | 20.40                 | 22   |   |
|         |            | 00.55   | 4-        | 822.5              | 26825   | 20.37                 | 22   | 0-2   |
|         |            | 36 RB   | 18        | 831.5              | 26865   | 20.57                 | 22   |   |
|         |            |         |           | 841.5              | 26965   | 20.53                 | 22   |   |
|         |            |         | 07        | 822.5              | 26825   | 20.30                 | 22   |   |
|         |            |         | 37        | 831.5              | 26865   | 20.43                 | 22   | 0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1 |
|         |            |         |           | 841.5              | 26965   | 20.59                 | 22   |   |
|         |            | 7.      | DD        | 822.5              | 26825   | 20.52                 | 22   |   |
|         |            |         | RB        | 831.5              | 26865   | 20.67                 | 22   |   |
|         |            |         |           | 841.5              | 26965   | 20.61                 | 22   | 0-2   |

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|         | FDD Band 26 |         |           |                    |         |                       |  |   |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|         |             |         |           | 820                | 26800   | 22.29                 | 24   | 0   |  |  |  |  |
|         |             |         | 0         | 831.5              | 26865   | 22.31                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 844                | 26990   | 22.38                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 820                | 26800   | 22.24                 | 24   | 0   |  |  |  |  |
|         |             | 1 RB    | 25        | 831.5              | 26865   | 22.27                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 844                | 26990   | 22.27                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 820                | 26800   | 22.38                 | 24   | 0   |  |  |  |  |
|         |             |         | 49        | 831.5              | 26865   | 22.30                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 844                | 26990   | 22.53                 | 24   | 0   |  |  |  |  |
|         |             |         |           | 820                | 26800   | 21.27                 | 23   | 0-1   |  |  |  |  |
|         | QPSK        |         | 0         | 831.5              | 26865   | 21.40                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 844                | 26990   | 21.53                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 820                | 26800   | 21.26                 | 23   | 0-1   |  |  |  |  |
|         |             | 25 RB   | 12        | 831.5              | 26865   | 21.35                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 844                | 26990   | 21.43                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 820                | 26800   | 21.38                 | 23   | 0-1   |  |  |  |  |
|         |             |         | 25        | 831.5              | 26865   | 21.36                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 844                | 26990   | 21.59                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 820                | 26800   | 21.35                 | 23   | 0-1   |  |  |  |  |
|         |             | 50      | RB        | 831.5              | 26865   | 21.46                 | 23   | 0-1   |  |  |  |  |
| 10      |             |         |           | 844                | 26990   | 21.46                 | 23   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1                           |  |  |  |  |
|         |             |         |           | 820                | 26800   | 21.62                 | 23   | 0-1   |  |  |  |  |
|         |             |         | 0         | 831.5              | 26865   | 21.39                 | 23   | 0-1   |  |  |  |  |
|         |             |         |           | 844                | 26990   | 21.80                 | 23   |   |  |  |  |  |
|         |             |         |           | 820                | 26800   | 21.56                 | 23   |   |  |  |  |  |
|         |             | 1 RB    | 25        | 831.5              | 26865   | 21.52                 | 23   |   |  |  |  |  |
|         |             |         |           | 844                | 26990   | 21.93                 | 23   |   |  |  |  |  |
|         |             |         | 4.5       | 820                | 26800   | 21.66                 | 23   |   |  |  |  |  |
|         |             |         | 49        | 831.5              | 26865   | 21.59                 | 23   |   |  |  |  |  |
|         |             |         |           | 844                | 26990   | 21.59                 | 23   |   |  |  |  |  |
|         | 40.044      |         |           | 820                | 26800   | 20.39                 | 22   |   |  |  |  |  |
|         | 16-QAM      |         | 0         | 831.5              | 26865   | 20.45                 | 22   |   |  |  |  |  |
|         |             |         |           | 844                | 26990   | 20.58                 | 22   |   |  |  |  |  |
|         |             | 05.00   | 40        | 820                | 26800   | 20.31                 | 22   |   |  |  |  |  |
|         |             | 25 RB   | 12        | 831.5              | 26865   | 20.40                 | 22   |   |  |  |  |  |
|         |             |         |           | 844                | 26990   | 20.57                 | 22   |   |  |  |  |  |
|         |             |         | 25        | 820                | 26800   | 20.47                 | 22   |   |  |  |  |  |
|         |             |         | 25        | 831.5              | 26865   | 20.57                 | 22   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0- |  |  |  |  |
|         |             |         |           | 844                | 26990   | 20.60                 | 22   |   |  |  |  |  |
|         |             | F0      | DD        | 820                | 26800   | 20.49                 | 22   | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   |  |  |  |  |
|         | 50R         |         | ΝĎ        | 831.5              | 26865   | 20.51                 | 22   |   |  |  |  |  |
|         |             |         |           | 844                | 26990   | 20.54                 | 22   | 0-2   |  |  |  |  |

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|         |            |         |           | FDD Band 26        |         |                       |  |   |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)                              |
|         |            |         |           | 816.5              | 26715   | 22.02                 | 24   | 0   |
|         |            |         | 0         | 831.5              | 26865   | 22.22                 | 24   | 0   |
|         |            |         |           | 846.5              | 27015   | 22.38                 | 24   | 0   |
|         |            |         |           | 816.5              | 26715   | 22.19                 | 24   | 0   |
|         |            | 1 RB    | 12        | 831.5              | 26865   | 22.29                 | 24   | 0   |
|         |            |         |           | 846.5              | 27015   | 22.47                 | 24   | 0   |
|         |            |         |           | 816.5              | 26715   | 22.26                 | 24   | 0   |
|         |            |         | 24        | 831.5              | 26865   | 22.29                 | 24   | 0   |
|         |            |         |           | 846.5              | 27015   | 22.58                 | 24   | 0   |
|         |            |         |           | 816.5              | 26715   | 21.18                 | 23   | 0-1   |
|         | QPSK       |         | 0         | 831.5              | 26865   | 21.24                 | 23   | 0-1   |
|         |            |         |           | 846.5              | 27015   | 21.43                 | 23   | 0-1   |
|         |            |         |           | 816.5              | 26715   | 21.23                 | 23   | 0-1   |
|         |            | 12 RB   | 6         | 831.5              | 26865   | 21.38                 | 23   | 0-1   |
|         |            |         |           | 846.5              | 27015   | 21.44                 | 23   | 0-1   |
|         |            |         |           | 816.5              | 26715   | 21.30                 | 23   | 0-1   |
|         |            |         | 13        | 831.5              | 26865   | 21.30                 | 23   | 0-1   |
|         |            |         |           | 846.5              | 27015   | 21.40                 | 23   | 0-1   |
|         |            |         |           | 816.5              | 26715   | 21.19                 | 23   | 0-1   |
|         |            | 25      | RB        | 831.5              | 26865   | 21.38                 | 23   | 0-1   |
| 5       |            |         |           | 846.5              | 27015   | 21.41                 | 23   | 0-1   |
|         |            |         |           | 816.5              | 26715   | 21.39                 | 23   | 0-1   |
|         |            |         | 0         | 831.5              | 26865   | 21.83                 | 23   | 0-1   |
|         |            |         |           | 846.5              | 27015   | 21.61                 | 23   | 0-1   |
|         |            |         |           | 816.5              | 26715   | 21.81                 | 23   | 0-1   |
|         |            | 1 RB    | 12        | 831.5              | 26865   | 21.55                 | 23   | 0-1   |
|         |            |         |           | 846.5              | 27015   | 21.59                 | 23   |   |
|         |            |         |           | 816.5              | 26715   | 21.54                 | 23   |   |
|         |            |         | 24        | 831.5              | 26865   | 21.42                 | 23   |   |
|         |            |         |           | 846.5              | 27015   | 21.63                 | 23   |   |
|         |            |         | _         | 816.5              | 26715   | 20.09                 | 22   |   |
|         | 16-QAM     |         | 0         | 831.5              | 26865   | 20.09                 | 22   |   |
|         |            |         |           | 846.5              | 27015   | 20.50                 | 22   |   |
|         |            | 40.55   |           | 816.5              | 26715   | 20.20                 | 22   | 0-2   |
|         |            | 12 RB   | 6         | 831.5              | 26865   | 20.29                 | 22   |   |
|         |            |         |           | 846.5              | 27015   | 20.42                 | 22   |   |
|         |            |         | 40        | 816.5              | 26715   | 20.27                 | 22   | 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1             |
|         |            |         | 13        | 831.5              | 26865   | 20.39                 | 22   |   |
|         |            |         |           | 846.5              | 27015   | 20.57                 | 22   |   |
|         |            | 0.5     | DD        | 816.5              | 26715   | 20.30                 | 22   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 |
|         |            |         | RB        | 831.5              | 26865   | 20.39                 | 22   |   |
|         |            |         |           | 846.5              | 27015   | 20.57                 | 22   | 0-2   |

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|         |            |         |           | FDD Band 26        |         |                       |  |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)   |  |  |  |
|         |            |         |           | 815.5              | 26705   | 22.04                 | 24   | 0  |  |  |  |
|         |            |         | 0         | 831.5              | 26865   | 22.31                 | 24   | 0  |  |  |  |
|         |            |         |           | 847.5              | 27025   | 22.42                 | 24   | 0  |  |  |  |
|         |            |         |           | 815.5              | 26705   | 22.15                 | 24   | 0  |  |  |  |
|         |            | 1 RB    | 7         | 831.5              | 26865   | 22.38                 | 24   | 0  |  |  |  |
|         |            |         |           | 847.5              | 27025   | 22.51                 | 24   | 0  |  |  |  |
|         |            |         |           | 815.5              | 26705   | 22.21                 | 24   | 0  |  |  |  |
|         |            |         | 14        | 831.5              | 26865   | 22.28                 | 24   | 0  |  |  |  |
|         |            |         |           | 847.5              | 27025   | 22.56                 | 24   | 0  |  |  |  |
|         |            |         |           | 815.5              | 26705   | 21.17                 | 23   | 0-1  |  |  |  |
|         | QPSK       |         | 0         | 831.5              | 26865   | 21.22                 | 23   | 0-1  |  |  |  |
|         |            |         |           | 847.5              | 27025   | 21.49                 | 23   | 0-1  |  |  |  |
|         |            |         |           | 815.5              | 26705   | 21.21                 | 23   | 0-1  |  |  |  |
|         |            | 8 RB    | 4         | 831.5              | 26865   | 21.39                 | 23   | 0-1  |  |  |  |
|         |            |         |           | 847.5              | 27025   | 21.51                 | 23   | 0-1  |  |  |  |
|         |            |         |           | 815.5              | 26705   | 21.26                 | 23   | 0-1  |  |  |  |
|         |            |         | 7         | 831.5              | 26865   | 21.35                 | 23   | 0-1  |  |  |  |
|         |            |         |           | 847.5              | 27025   | 21.67                 | 23   | 0-1  |  |  |  |
|         |            |         |           | 815.5              | 26705   | 21.12                 | 23   | 0-1  |  |  |  |
|         |            | 15      | RB        | 831.5              | 26865   | 21.31                 | 23   | 0-1  |  |  |  |
| 3       |            |         |           | 847.5              | 27025   | 21.48                 | 23   | 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-                                     |  |  |  |
|         |            |         |           | 815.5              | 26705   | 21.30                 | 23   | 0-1  |  |  |  |
|         |            |         | 0         | 831.5              | 26865   | 21.58                 | 23   | 0-1  |  |  |  |
|         |            |         |           | 847.5              | 27025   | 21.75                 | 23   | 0-1  |  |  |  |
|         |            |         |           | 815.5              | 26705   | 21.13                 | 23   | 0-1  |  |  |  |
|         |            | 1 RB    | 7         | 831.5              | 26865   | 21.43                 | 23   | 0-1  |  |  |  |
|         |            |         |           | 847.5              | 27025   | 21.99                 | 23   | 0-1  |  |  |  |
|         |            |         |           | 815.5              | 26705   | 21.14                 | 23   | 0-1  |  |  |  |
|         |            |         | 14        | 831.5              | 26865   | 21.16                 | 23   | 0-1  |  |  |  |
|         |            |         |           | 847.5              | 27025   | 21.40                 | 23   | 0-1  |  |  |  |
|         |            |         |           | 815.5              | 26705   | 20.10                 | 22   |  |  |  |  |
|         | 16-QAM     |         | 0         | 831.5              | 26865   | 20.23                 | 22   |  |  |  |  |
|         |            |         |           | 847.5              | 27025   | 20.53                 | 22   | 0-2  |  |  |  |
|         |            | _       |           | 815.5              | 26705   | 20.11                 | 22   |  |  |  |  |
|         |            | 8 RB    | 4         | 831.5              | 26865   | 20.53                 | 22   |  |  |  |  |
|         |            |         |           | 847.5              | 27025   | 20.51                 | 22   |  |  |  |  |
|         |            |         | _         | 815.5              | 26705   | 20.31                 | 22   | 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2          |  |  |  |
|         |            |         | 7         | 831.5              | 26865   | 20.51                 | 22   |  |  |  |  |
|         |            |         |           | 847.5              | 27025   | 20.48                 | 22   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1 |  |  |  |
|         |            |         |           | 815.5              | 26705   | 20.17                 | 22   |  |  |  |  |
|         |            | 15      | RB        | 831.5              | 26865   | 20.31                 | 22   |  |  |  |  |
|         |            |         |           | 847.5              | 27025   | 20.49                 | 22   | 0-2  |  |  |  |

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|         | FDD Band 26 |         |            |                    |         |                       |  |                                |  |  |  |  |
|---------|-------------|---------|------------|--------------------|---------|-----------------------|--|--------------------------------|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset  | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |  |
|         |             |         |            | 814.7              | 26697   | 22.18                 | 24   | 0                              |  |  |  |  |
|         |             |         | 0          | 831.5              | 26865   | 22.29                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 848.3              | 27033   | 22.58                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 814.7              | 26697   | 22.08                 | 24   | 0                              |  |  |  |  |
|         |             | 1 RB    | 2          | 831.5              | 26865   | 22.30                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 848.3              | 27033   | 22.55                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 814.7              | 26697   | 22.07                 | 24   | 0                              |  |  |  |  |
|         |             |         | 5          | 831.5              | 26865   | 22.31                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 848.3              | 27033   | 22.60                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 814.7              | 26697   | 22.12                 | 24   | 0                              |  |  |  |  |
|         | QPSK        |         | 0          | 831.5              | 26865   | 22.29                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 848.3              | 27033   | 22.57                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 814.7              | 26697   | 22.11                 | 24   | 0                              |  |  |  |  |
|         |             | 3 RB    | 2          | 831.5              | 26865   | 22.27                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 848.3              | 27033   | 22.47                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 814.7              | 26697   | 22.04                 | 24   | 0                              |  |  |  |  |
|         |             |         | 3          | 831.5              | 26865   | 22.29                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 848.3              | 27033   | 22.57                 | 24   | 0                              |  |  |  |  |
|         |             |         |            | 814.7              | 26697   | 21.06                 | 23   | 0-1                            |  |  |  |  |
|         |             | 6F      | RB         | 831.5              | 26865   | 21.24                 | 23   | 0-1                            |  |  |  |  |
| 1.4     |             |         |            | 848.3              | 27033   | 21.50                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 814.7              | 26697   | 21.25                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 0          | 831.5              | 26865   | 21.22                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 848.3              | 27033   | 21.81                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 814.7              | 26697   | 21.19                 | 23   | 0-1                            |  |  |  |  |
|         |             | 1 RB    | 2          | 831.5              | 26865   | 21.42                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 848.3              | 27033   | 21.64                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | _          | 814.7              | 26697   | 21.36                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 5          | 831.5              | 26865   | 21.71                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 848.3              | 27033   | 21.79                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 814.7              | 26697   | 21.08                 | 23   | 0-1                            |  |  |  |  |
|         | 16-QAM      |         | 0          | 831.5              | 26865   | 21.53                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 848.3              | 27033   | 21.65                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | _          | 814.7              | 26697   | 21.36                 | 23   | 0-1                            |  |  |  |  |
|         |             | 3 RB    | 2          | 831.5              | 26865   | 21.48                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 848.3              | 27033   | 21.74                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 814.7              | 26697   | 21.04                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 3          | 831.5              | 26865   | 21.48                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |            | 848.3              | 27033   | 21.34                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | <b>D</b> D | 814.7              | 26697   | 20.16                 | 22   | 0-2                            |  |  |  |  |
|         | 6RE         |         | KR         | 831.5              | 26865   | 20.49                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |            | 848.3              | 27033   | 20.54                 | 22   | 0-2                            |  |  |  |  |

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|         |            |         |           | FDD Band 30        |         |                       |  |                                |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |
|         |            |         | 0         | 2310               | 27710   | 22.29                 | 24   | 0                              |
|         |            | 1 RB    | 25        | 2310               | 27710   | 22.19                 | 24   | 0                              |
|         |            |         | 49        | 2310               | 27710   | 22.14                 | 24   | 0                              |
|         | QPSK       |         | 0         | 2310               | 27710   | 21.16                 | 23   | 0-1                            |
|         |            | 25 RB   | 12        | 2310               | 27710   | 21.22                 | 23   | 0-1                            |
|         |            |         | 25        | 2310               | 27710   | 21.18                 | 23   | 0-1                            |
| 10      |            | 50      | RB        | 2310               | 27710   | 21.33                 | 23   | 0-1                            |
| 10      |            |         | 0         | 2310               | 27710   | 21.60                 | 23   | 0-1                            |
|         |            | 1 RB    | 25        | 2310               | 27710   | 21.62                 | 23   | 0-1                            |
|         |            |         | 49        | 2310               | 27710   | 21.50                 | 23   | 0-1                            |
|         | 16-QAM     |         | 0         | 2310               | 27710   | 20.19                 | 22   | 0-2                            |
|         |            | 25 RB   | 12        | 2310               | 27710   | 20.28                 | 22   | 0-2                            |
|         |            | l l     | 25        | 2310               | 27710   | 20.22                 | 22   | 0-2                            |
|         |            | 50      | RB        | 2310               | 27710   | 20.30                 | 22   | 0-2                            |

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|         | FDD Band 30 |         |           |                    |         |                       |  |                                |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |  |
|         |             |         |           | 2307.5             | 27685   | 22.00                 | 24   | 0                              |  |  |  |  |
|         |             |         | 0         | 2310               | 27710   | 22.18                 | 24   | 0                              |  |  |  |  |
|         |             |         |           | 2312.5             | 27735   | 22.06                 | 24   | 0                              |  |  |  |  |
|         |             |         |           | 2307.5             | 27685   | 22.17                 | 24   | 0                              |  |  |  |  |
|         |             | 1 RB    | 12        | 2310               | 27710   | 22.07                 | 24   | 0                              |  |  |  |  |
|         |             |         |           | 2312.5             | 27735   | 22.01                 | 24   | 0                              |  |  |  |  |
|         |             |         |           | 2307.5             | 27685   | 22.09                 | 24   | 0                              |  |  |  |  |
|         |             |         | 24        | 2310               | 27710   | 22.02                 | 24   | 0                              |  |  |  |  |
|         |             |         |           | 2312.5             | 27735   | 22.19                 | 24   | 0                              |  |  |  |  |
|         |             |         |           | 2307.5             | 27685   | 21.04                 | 23   | 0-1                            |  |  |  |  |
|         | QPSK        |         | 0         | 2310               | 27710   | 21.15                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2312.5             | 27735   | 21.02                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2307.5             | 27685   | 21.09                 | 23   | 0-1                            |  |  |  |  |
|         |             | 12 RB   | 6         | 2310               | 27710   | 21.17                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2312.5             | 27735   | 21.13                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2307.5             | 27685   | 21.16                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 13        | 2310               | 27710   | 21.08                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2312.5             | 27735   | 21.09                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2307.5             | 27685   | 21.06                 | 23   | 0-1                            |  |  |  |  |
|         |             | 25      | RB        | 2310               | 27710   | 21.08                 | 23   | 0-1                            |  |  |  |  |
| 5       |             |         |           | 2312.5             | 27735   | 21.11                 | 23   | 0-1                            |  |  |  |  |
| Ĭ       |             |         | _         | 2307.5             | 27685   | 21.35                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 0         | 2310               | 27710   | 21.29                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2312.5             | 27735   | 21.42                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2307.5             | 27685   | 21.14                 | 23   | 0-1                            |  |  |  |  |
|         |             | 1 RB    | 12        | 2310               | 27710   | 21.56                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2312.5             | 27735   | 21.22                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2307.5             | 27685   | 21.32                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 24        | 2310               | 27710   | 21.06                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2312.5             | 27735   | 21.05                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2307.5             | 27685   | 20.20                 | 22   | 0-2                            |  |  |  |  |
|         | 16-QAM      |         | 0         | 2310               | 27710   | 20.18                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2312.5             | 27735   | 20.06                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2307.5             | 27685   | 20.09                 | 22   | 0-2                            |  |  |  |  |
|         |             | 12 RB   | 6         | 2310               | 27710   | 20.14                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2312.5             | 27735   | 20.10                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2307.5             | 27685   | 20.04                 | 22   | 0-2                            |  |  |  |  |
|         |             |         | 13        | 2310               | 27710   | 20.08                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2312.5             | 27735   | 20.04                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2307.5             | 27685   | 20.12                 | 22   | 0-2                            |  |  |  |  |
|         | 25RI        |         | KB        | 2310               | 27710   | 20.05                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2312.5             | 27735   | 20.09                 | 22   | 0-2                            |  |  |  |  |

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|         | FDD Band 66 |         |           |                    |         |                       |                                     |   |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|---|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|         |             |         |           | 1720               | 132072  | 22.78                 | 24                                  | 0   |  |  |  |  |
|         |             |         | 0         | 1745               | 132322  | 22.87                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 1770               | 132572  | 23.24                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 1720               | 132072  | 22.95                 | 24                                  | 0   |  |  |  |  |
|         |             | 1 RB    | 50        | 1745               | 132322  | 23.01                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 1770               | 132572  | 22.85                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 1720               | 132072  | 22.94                 | 24                                  | 0   |  |  |  |  |
|         |             |         | 99        | 1745               | 132322  | 23.21                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 1770               | 132572  | 23.02                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 1720               | 132072  | 21.83                 | 23                                  | 0-1   |  |  |  |  |
|         | QPSK        |         | 0         | 1745               | 132322  | 21.93                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1770               | 132572  | 22.09                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1720               | 132072  | 21.98                 | 23                                  | 0-1   |  |  |  |  |
|         |             | 50 RB   | 25        | 1745               | 132322  | 21.99                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1770               | 132572  | 21.89                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1720               | 132072  | 21.95                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         | 50        | 1745               | 132322  | 22.13                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1770               | 132572  | 21.84                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1720               | 132072  | 22.10                 | 23                                  | 0-1   |  |  |  |  |
|         |             | 100     | )RB       | 1745               | 132322  | 22.17                 | 23                                  | 0-1   |  |  |  |  |
| 20      |             |         |           | 1770               | 132572  | 22.11                 | 23                                  | 0-1   |  |  |  |  |
| 20      |             |         |           | 1720               | 132072  | 21.87                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         | 0         | 1745               | 132322  | 22.29                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1770               | 132572  | 22.21                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1720               | 132072  | 21.57                 | 23                                  | 0-1   |  |  |  |  |
|         |             | 1 RB    | 50        | 1745               | 132322  | 22.48                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1770               | 132572  | 22.12                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1720               | 132072  | 22.13                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         | 99        | 1745               | 132322  | 22.34                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1770               | 132572  | 22.25                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1720               | 132072  | 20.74                 | 22                                  | 0-2   |  |  |  |  |
|         | 16-QAM      |         | 0         | 1745               | 132322  | 20.77                 | 22                                  | 0-2   |  |  |  |  |
|         |             |         |           | 1770               | 132572  | 21.09                 | 22                                  | 0-2   |  |  |  |  |
|         |             |         |           | 1720               | 132072  | 20.87                 | 22                                  | 0-2   |  |  |  |  |
|         |             | 50 RB   | 25        | 1745               | 132322  | 20.96                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 1770               | 132572  | 20.85                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 1720               | 132072  | 20.84                 | 22                                  | 0<br>0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1 |  |  |  |  |
|         |             |         | 50        | 1745               | 132322  | 20.99                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 1770               | 132572  | 20.86                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 1720               | 132072  | 21.10                 | 22                                  |   |  |  |  |  |
|         |             | 100     | )RB       | 1745               | 132322  | 21.09                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 1770               | 132572  | 21.04                 | 22                                  | 0-2   |  |  |  |  |

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|         | FDD Band 66 |         |           |                    |         |                       |                                     |   |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|---|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)                              |  |  |  |  |
|         |             |         |           | 1717.5             | 132047  | 22.69                 | 24                                  | 0   |  |  |  |  |
|         |             |         | 0         | 1745               | 132322  | 22.74                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 1772.5             | 132597  | 22.73                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 1717.5             | 132047  | 22.55                 | 24                                  | 0   |  |  |  |  |
|         |             | 1 RB    | 36        | 1745               | 132322  | 22.98                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 1772.5             | 132597  | 22.78                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 1717.5             | 132047  | 22.60                 | 24                                  | 0   |  |  |  |  |
|         |             |         | 74        | 1745               | 132322  | 23.17                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 1772.5             | 132597  | 22.79                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 1717.5             | 132047  | 21.75                 | 23                                  | 0-1   |  |  |  |  |
|         | QPSK        |         | 0         | 1745               | 132322  | 21.79                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1772.5             | 132597  | 21.83                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1717.5             | 132047  | 21.77                 | 23                                  | 0-1   |  |  |  |  |
|         |             | 36 RB   | 18        | 1745               | 132322  | 21.90                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1772.5             | 132597  | 21.75                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1717.5             | 132047  | 21.86                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         | 37        | 1745               | 132322  | 22.04                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1772.5             | 132597  | 21.79                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1717.5             | 132047  | 21.88                 | 23                                  | 0-1   |  |  |  |  |
|         |             | 75      | RB        | 1745               | 132322  | 22.02                 | 23                                  | 0-1   |  |  |  |  |
| 15      |             |         |           | 1772.5             | 132597  | 21.89                 | 23                                  | 0-1   |  |  |  |  |
| 15      |             |         | 0         | 1717.5             | 132047  | 22.01                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1745               | 132322  | 21.88                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1772.5             | 132597  | 22.38                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1717.5             | 132047  | 22.25                 | 23                                  | 0-1   |  |  |  |  |
|         |             | 1 RB    | 36        | 1745               | 132322  | 22.40                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1772.5             | 132597  | 22.14                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1717.5             | 132047  | 22.26                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         | 74        | 1745               | 132322  | 22.10                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1772.5             | 132597  | 22.00                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 1717.5             | 132047  | 20.59                 | 22                                  | 0-2   |  |  |  |  |
|         | 16-QAM      |         | 0         | 1745               | 132322  | 20.67                 | 22                                  | 0-2   |  |  |  |  |
|         |             |         |           | 1772.5             | 132597  | 20.75                 | 22                                  | 0-2   |  |  |  |  |
|         |             |         |           | 1717.5             | 132047  | 20.66                 | 22                                  | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 |  |  |  |  |
|         |             | 36 RB   | 18        | 1745               | 132322  | 20.86                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 1772.5             | 132597  | 20.66                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 1717.5             | 132047  | 20.81                 | 22                                  | 0-2<br>0-2<br>0-2<br>0-2<br>0-2<br>0-2<br>0-2               |  |  |  |  |
|         |             |         | 37        | 1745               | 132322  | 20.93                 | 22                                  | <b>.</b>  |  |  |  |  |
|         |             |         |           | 1772.5             | 132597  | 20.75                 | 22                                  | <b>.</b>  |  |  |  |  |
|         |             |         |           | 1717.5             | 132047  | 20.95                 | 22                                  | 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1             |  |  |  |  |
|         |             | 75      | RB        | 1745               | 132322  | 20.93                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 1772.5             | 132597  | 20.92                 | 22                                  | 0-2   |  |  |  |  |

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| FDD Band 66 |            |         |           |                    |         |                       |  |   |  |  |  |  |
|-------------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|             |            |         |           | 1715               | 132022  | 22.70                 | 24   | 0   |  |  |  |  |
|             |            |         | 0         | 1745               | 132322  | 22.90                 | 24   | 0   |  |  |  |  |
|             |            |         |           | 1775               | 132622  | 22.75                 | 24   | 0   |  |  |  |  |
|             |            |         |           | 1715               | 132022  | 22.80                 | 24   | 0   |  |  |  |  |
|             |            | 1 RB    | 25        | 1745               | 132322  | 23.00                 | 24   | 0   |  |  |  |  |
|             |            |         |           | 1775               | 132622  | 22.57                 | 24   | 0   |  |  |  |  |
|             |            |         |           | 1715               | 132022  | 22.80                 | 24   | 0   |  |  |  |  |
|             |            |         | 49        | 1745               | 132322  | 23.18                 | 24   | 0   |  |  |  |  |
|             |            |         |           | 1775               | 132622  | 23.06                 | 24   | 0   |  |  |  |  |
|             |            |         |           | 1715               | 132022  | 21.70                 | 23   | 0-1   |  |  |  |  |
|             | QPSK       |         | 0         | 1745               | 132322  | 21.80                 | 23   | 0-1   |  |  |  |  |
|             |            |         |           | 1775               | 132622  | 21.70                 | 23   | 0-1   |  |  |  |  |
|             |            |         |           | 1715               | 132022  | 21.66                 | 23   | 0-1   |  |  |  |  |
|             |            | 25 RB   | 12        | 1745               | 132322  | 21.85                 | 23   | 0-1   |  |  |  |  |
|             |            |         |           | 1775               | 132622  | 21.67                 | 23   | 0-1   |  |  |  |  |
|             |            |         |           | 1715               | 132022  | 21.76                 | 23   | 0-1   |  |  |  |  |
|             |            |         | 25        | 1745               | 132322  | 21.91                 | 23   | 0-1   |  |  |  |  |
|             |            |         |           | 1775               | 132622  | 21.84                 | 23   | 0-1   |  |  |  |  |
|             |            |         |           | 1715               | 132022  | 21.81                 | 23   | 0-1   |  |  |  |  |
|             |            | 50      | RB        | 1745               | 132322  | 21.94                 | 23   | 0-1   |  |  |  |  |
| 10          |            |         |           | 1775               | 132622  | 21.88                 | 23   | 0-1<br>0-1<br>0-1<br>0-1  |  |  |  |  |
| 10          |            |         |           | 1715               | 132022  | 22.02                 | 23   | 0-1   |  |  |  |  |
|             |            |         | 0         | 1745               | 132322  | 21.79                 | 23   | 0-1   |  |  |  |  |
|             |            |         |           | 1775               | 132622  | 22.34                 | 23   | 0-1   |  |  |  |  |
|             |            |         |           | 1715               | 132022  | 21.99                 | 23   | 0-1   |  |  |  |  |
|             |            | 1 RB    | 25        | 1745               | 132322  | 22.42                 | 23   | 0-1   |  |  |  |  |
|             |            |         |           | 1775               | 132622  | 21.98                 | 23   | 0-1   |  |  |  |  |
|             |            |         |           | 1715               | 132022  | 21.54                 | 23   | 0-1   |  |  |  |  |
|             |            |         | 49        | 1745               | 132322  | 22.42                 | 23   | 0-1   |  |  |  |  |
|             |            |         |           | 1775               | 132622  | 22.08                 | 23   | 0-1   |  |  |  |  |
|             |            |         |           | 1715               | 132022  | 20.59                 | 22   | 0-2   |  |  |  |  |
|             | 16-QAM     |         | 0         | 1745               | 132322  | 20.75                 | 22   | 0-2   |  |  |  |  |
|             |            |         |           | 1775               | 132622  | 20.59                 | 22   | 0-2   |  |  |  |  |
|             |            |         |           | 1715               | 132022  | 20.54                 | 22   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1                     |  |  |  |  |
|             |            | 25 RB   | 12        | 1745               | 132322  | 20.76                 | 22   | 0-2   |  |  |  |  |
|             |            |         |           | 1775               | 132622  | 20.52                 | 22   | 0-2   |  |  |  |  |
|             |            |         |           | 1715               | 132022  | 20.67                 | 22   |   |  |  |  |  |
|             |            |         | 25        | 1745               | 132322  | 20.95                 | 22   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0- |  |  |  |  |
|             |            |         |           | 1775               | 132622  | 20.66                 | 22   |   |  |  |  |  |
|             |            |         |           | 1715               | 132022  | 20.75                 | 22   |   |  |  |  |  |
|             |            | 50      | RB        | 1745               | 132322  | 21.02                 | 22   |   |  |  |  |  |
|             |            |         |           | 1775               | 132622  | 20.81                 | 22   | 0-2   |  |  |  |  |

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|         | FDD Band 66 |         |           |                    |         |                       |                                     |   |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|---|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)          |  |  |  |  |
|         |             |         |           | 1712.5             | 131997  | 22.66                 | 24                                  | 0                                       |  |  |  |  |
|         |             |         | 0         | 1745               | 132322  | 22.73                 | 24                                  | 0                                       |  |  |  |  |
|         |             |         |           | 1777.5             | 132647  | 22.84                 | 24                                  | 0                                       |  |  |  |  |
|         |             |         |           | 1712.5             | 131997  | 22.73                 | 24                                  | 0                                       |  |  |  |  |
|         |             | 1 RB    | 12        | 1745               | 132322  | 22.97                 | 24                                  | 0                                       |  |  |  |  |
|         |             |         |           | 1777.5             | 132647  | 23.07                 | 24                                  | 0                                       |  |  |  |  |
|         |             |         |           | 1712.5             | 131997  | 22.78                 | 24                                  | 0                                       |  |  |  |  |
|         |             |         | 24        | 1745               | 132322  | 23.09                 | 24                                  | 0                                       |  |  |  |  |
|         |             |         |           | 1777.5             | 132647  | 23.00                 | 24                                  | 0                                       |  |  |  |  |
|         |             |         |           | 1712.5             | 131997  | 21.44                 | 23                                  | 0-1                                     |  |  |  |  |
|         | QPSK        |         | 0         | 1745               | 132322  | 21.76                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             |         |           | 1777.5             | 132647  | 21.67                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             |         |           | 1712.5             | 131997  | 21.54                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             | 12 RB   | 6         | 1745               | 132322  | 21.66                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             |         |           | 1777.5             | 132647  | 21.73                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             |         |           | 1712.5             | 131997  | 21.43                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             |         | 13        | 1745               | 132322  | 21.82                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             |         |           | 1777.5             | 132647  | 21.69                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             |         |           | 1712.5             | 131997  | 21.66                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             | 25      | RB        | 1745               | 132322  | 21.89                 | 23                                  | 0-1                                     |  |  |  |  |
| 5       |             |         |           | 1777.5             | 132647  | 21.82                 | 23                                  | 0-1                                     |  |  |  |  |
| Ĭ       |             |         |           | 1712.5             | 131997  | 21.57                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             |         | 0         | 1745               | 132322  | 22.27                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             |         |           | 1777.5             | 132647  | 21.99                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             |         |           | 1712.5             | 131997  | 21.62                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             | 1 RB    | 12        | 1745               | 132322  | 21.87                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             |         |           | 1777.5             | 132647  | 22.05                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             |         |           | 1712.5             | 131997  | 21.99                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             |         | 24        | 1745               | 132322  | 22.07                 | 23                                  | 0-1                                     |  |  |  |  |
|         |             |         |           | 1777.5             | 132647  | 22.33                 | 23                                  |   |  |  |  |  |
|         |             |         |           | 1712.5             | 131997  | 20.35                 | 22                                  | 0-2                                     |  |  |  |  |
|         | 16-QAM      |         | 0         | 1745               | 132322  | 20.50                 | 22                                  | 0-2                                     |  |  |  |  |
|         |             |         |           | 1777.5             | 132647  | 20.68                 | 22                                  | 0-2                                     |  |  |  |  |
|         |             |         |           | 1712.5             | 131997  | 20.54                 | 22                                  | 0-2                                     |  |  |  |  |
|         |             | 12 RB   | 6         | 1745               | 132322  | 20.82                 | 22                                  | 0-2                                     |  |  |  |  |
|         |             |         |           | 1777.5             | 132647  | 20.52                 | 22                                  | 0-2                                     |  |  |  |  |
|         |             |         |           | 1712.5             | 131997  | 20.66                 | 22                                  | 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 |  |  |  |  |
|         |             |         | 13        | 1745               | 132322  | 20.87                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 1777.5             | 132647  | 20.63                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 1712.5             | 131997  | 20.64                 | 22                                  |   |  |  |  |  |
|         | 25RI        |         | KB        | 1745               | 132322  | 20.88                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 1777.5             | 132647  | 20.78                 | 22                                  | 0-2                                     |  |  |  |  |

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|         | FDD Band 66 |         |  |                    |         |                       |  |                                |  |  |  |  |
|---------|-------------|---------|--|--------------------|---------|-----------------------|--|--------------------------------|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset  | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |  |
|         |             |         |  | 1711.5             | 131987  | 22.49                 | 24   | 0                              |  |  |  |  |
|         |             |         | 0  | 1745               | 132322  | 22.88                 | 24   | 0                              |  |  |  |  |
|         |             |         |  | 1778.5             | 132657  | 22.89                 | 24   | 0                              |  |  |  |  |
|         |             |         |  | 1711.5             | 131987  | 22.34                 | 24   | 0                              |  |  |  |  |
|         |             | 1 RB    | 7  | 1745               | 132322  | 22.98                 | 24   | 0                              |  |  |  |  |
|         |             |         |  | 1778.5             | 132657  | 23.10                 | 24   | 0                              |  |  |  |  |
|         |             |         |  | 1711.5             | 131987  | 22.67                 | 24   | 0                              |  |  |  |  |
|         |             |         | 14   | 1745               | 132322  | 22.82                 | 24   | 0                              |  |  |  |  |
|         |             |         |  | 1778.5             | 132657  | 22.74                 | 24   | 0                              |  |  |  |  |
|         |             |         |  | 1711.5             | 131987  | 21.47                 | 23   | 0-1                            |  |  |  |  |
|         | QPSK        |         | 0  | 1745               | 132322  | 21.68                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |  | 1778.5             | 132657  | 21.68                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |  | 1711.5             | 131987  | 21.52                 | 23   | 0-1                            |  |  |  |  |
|         |             | 8 RB    | 4  | 1745               | 132322  | 21.74                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |  | 1778.5             | 132657  | 21.74                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |  | 1711.5             | 131987  | 21.45                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 7  | 1745               | 132322  | 21.65                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |  | 1778.5             | 132657  | 21.81                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |  | 1711.5             | 131987  | 21.58                 | 23   | 0-1                            |  |  |  |  |
|         |             | 15      | RB   | 1745               | 132322  | 21.76                 | 23   | 0-1                            |  |  |  |  |
| 3       |             |         |  | 1778.5             | 132657  | 21.95                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 1711.5 131987 21.83 23<br>0 1745 132322 22.34 23 |                    | 0-1     |                       |  |                                |  |  |  |  |
|         |             |         | 0  | 1745               | 132322  | 22.34                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |  | 1778.5             | 132657  | 21.86                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |  | 1711.5             | 131987  | 21.76                 | 23   | 0-1                            |  |  |  |  |
|         |             | 1 RB    | 7  | 1745               | 132322  | 21.99                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |  | 1778.5             | 132657  | 21.66                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |  | 1711.5             | 131987  | 21.92                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 14   | 1745               | 132322  | 21.65                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |  | 1778.5             | 132657  | 22.16                 | 23   | 0-1                            |  |  |  |  |
|         | 40.044      |         |  | 1711.5             | 131987  | 20.52                 | 22   | 0-2                            |  |  |  |  |
|         | 16-QAM      |         | 0  | 1745               | 132322  | 20.50                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |  | 1778.5             | 132657  | 20.71                 | 22   | 0-2                            |  |  |  |  |
|         |             | 0 00    | 4  | 1711.5             | 131987  | 20.19                 | 22   | 0-2                            |  |  |  |  |
|         |             | 8 RB    | 4  | 1745               | 132322  | 20.80                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |  | 1778.5             | 132657  | 20.81                 | 22   | 0-2                            |  |  |  |  |
|         |             |         | 7  | 1711.5             | 131987  | 20.27                 | 22   | 0-2                            |  |  |  |  |
|         |             |         | 7  | 1745               | 132322  | 20.76                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |  | 1778.5             | 132657  | 20.81                 | 22   | 0-2                            |  |  |  |  |
|         |             | 4.5     | DD   | 1711.5             | 131987  | 20.35                 | 22   | 0-2                            |  |  |  |  |
|         | 15          |         | ΝĎ   | 1745               | 132322  | 20.71                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |  | 1778.5             | 132657  | 20.99                 | 22   | 0-2                            |  |  |  |  |

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| FDD Band 66 |            |         |           |                    |         |                       |  |   |  |  |  |
|-------------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |
|             |            |         |           | 1710.7             | 131979  | 22.70                 | 24   | 0   |  |  |  |
|             |            |         | 0         | 1745               | 132322  | 23.03                 | 24   | 0   |  |  |  |
|             |            |         |           | 1779.3             | 132665  | 23.15                 | 24   | 0   |  |  |  |
|             |            |         |           | 1710.7             | 131979  | 22.14                 | 24   | 0   |  |  |  |
|             |            | 1 RB    | 2         | 1745               | 132322  | 22.99                 | 24   | 0   |  |  |  |
|             |            |         |           | 1779.3             | 132665  | 23.08                 | 24   | 0   |  |  |  |
|             |            |         |           | 1710.7             | 131979  | 22.71                 | 24   | 0   |  |  |  |
|             |            |         | 5         | 1745               | 132322  | 22.50                 | 24   | 0   |  |  |  |
|             |            |         |           | 1779.3             | 132665  | 22.68                 | 24   | 0   |  |  |  |
|             |            |         |           | 1710.7             | 131979  | 22.45                 | 23   | 0   |  |  |  |
|             | QPSK       |         | 0         | 1745               | 132322  | 22.49                 | 23   | 0   |  |  |  |
|             |            |         |           | 1779.3             | 132665  | 22.80                 | 23   | 0   |  |  |  |
|             |            |         |           | 1710.7             | 131979  | 22.48                 | 23   | 0   |  |  |  |
|             |            | 3 RB    | 2         | 1745               | 132322  | 22.82                 | 23   | 0   |  |  |  |
|             |            |         |           | 1779.3             | 132665  | 22.88                 | 23   | 0   |  |  |  |
|             |            |         |           | 1710.7             | 131979  | 22.52                 | 23   | 0   |  |  |  |
|             |            |         | 3         | 1745               | 132322  | 22.51                 | 23   | 0   |  |  |  |
|             |            |         |           | 1779.3             | 132665  | 22.98                 | 23   | 0   |  |  |  |
|             |            |         |           | 1710.7             | 131979  | 21.54                 | 23   | 0-1   |  |  |  |
|             |            | 6F      | RB        | 1745               | 132322  | 21.69                 | 23   | 0-1   |  |  |  |
| 1.4         |            |         |           | 1779.3             | 132665  | 21.78                 | 23   | 0-1   |  |  |  |
| '           |            |         |           | 1710.7             | 131979  | 22.21                 | 23   | 0-1   |  |  |  |
|             |            |         | 0         | 1745               | 132322  | 22.42                 | 23   | 0-1   |  |  |  |
|             |            |         |           | 1779.3             | 132665  | 22.41                 | 23   | 0-1   |  |  |  |
|             |            |         |           | 1710.7             | 131979  | 21.57                 | 23   | 0-1   |  |  |  |
|             |            | 1 RB    | 2         | 1745               | 132322  | 22.59                 | 23   | 0-1   |  |  |  |
|             |            |         |           | 1779.3             | 132665  | 22.67                 | 23   | 0-1   |  |  |  |
|             |            |         |           | 1710.7             | 131979  | 22.00                 | 23   | 0-1   |  |  |  |
|             |            |         | 5         | 1745               | 132322  | 22.35                 | 23   | 0-1   |  |  |  |
|             |            |         |           | 1779.3             | 132665  | 22.22                 | 23   | 0-1   |  |  |  |
|             |            |         |           | 1710.7             | 131979  | 21.23                 | 23   | 0-1   |  |  |  |
|             | 16-QAM     |         | 0         | 1745               | 132322  | 21.76                 | 23   | 0-1   |  |  |  |
|             |            |         |           | 1779.3             | 132665  | 21.82                 | 23   | 0-1   |  |  |  |
|             |            |         |           | 1710.7             | 131979  | 21.46                 | 23   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |
|             |            | 3 RB    | 2         | 1745               | 132322  | 21.80                 | 23   | <b>-</b>  |  |  |  |
|             |            |         |           | 1779.3             | 132665  | 22.11                 | 23   |   |  |  |  |
|             |            |         |           | 1710.7             | 131979  | 21.72                 | 23   | <b>-</b>  |  |  |  |
|             |            |         | 3         | 1745               | 132322  | 21.42                 | 23   |   |  |  |  |
|             |            |         |           | 1779.3             | 132665  | 22.01                 | 23   |   |  |  |  |
|             |            | _       |           | 1710.7             | 131979  | 20.14                 | 22   |   |  |  |  |
|             | 6RB        |         | KR        | 1745               | 132322  | 20.60                 | 22   |   |  |  |  |
|             |            |         |           | 1779.3             | 132665  | 20.37                 | 22   | 0-2   |  |  |  |

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LTE TDD Band 38 / Band 41 power table (Full power):

|         | <u> </u>   | , Dania | рошо      | TDD Band 38        | poo.    | <i>,</i> ·            |                                     |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)   |
|         |            |         |           | 2580               | 37850   | 22.18                 | 24                                  | 0  |
|         |            |         | 0         | 2595               | 38000   | 22.78                 | 24                                  | 0  |
|         |            |         |           | 2610               | 38150   | 22.49                 | 24                                  | 0  |
|         |            |         |           | 2580               | 37850   | 22.23                 | 24                                  | 0  |
|         |            | 1 RB    | 50        | 2595               | 38000   | 22.41                 | 24                                  | 0  |
|         |            |         |           | 2610               | 38150   | 22.46                 | 24                                  | 0  |
|         |            |         |           | 2580               | 37850   | 22.30                 | 24                                  | 0  |
|         |            |         | 99        | 2595               | 38000   | 22.45                 | 24                                  | 0  |
|         |            |         |           | 2610               | 38150   | 22.47                 | 24                                  | 0  |
|         |            |         |           | 2580               | 37850   | 21.20                 | 23                                  | 0-1  |
|         | QPSK       |         | 0         | 2595               | 38000   | 21.45                 | 23                                  | 0-1  |
|         |            |         |           | 2610               | 38150   | 21.52                 | 23                                  | 0-1  |
|         |            |         |           | 2580               | 37850   | 21.22                 | 23                                  | Allowed per 3GPP(dB)  Allowed per 3GPP(dB) |
|         |            | 50 RB   | 25        | 2595               | 38000   | 21.45                 | 23                                  | 0-1  |
|         |            |         |           | 2610               | 38150   | 21.51                 | 23                                  | Aax. Allowed per 3GPP(dB)  O O O O O O O O O O O O O O O O O O   |
|         |            |         |           | 2580               | 37850   | 21.27                 | 23                                  |  |
|         |            |         | 50        | 2595               | 38000   | 21.49                 | 23                                  | 0-1  |
|         |            |         |           | 2610               | 38150   | 21.51                 | 23                                  | 0-1  |
|         |            |         |           | 2580               | 37850   | 21.23                 | 23                                  | 0-1  |
|         |            | 100     | )RB       | 2595               | 38000   | 21.49                 | 23                                  |  |
| 20      |            |         |           | 2610               | 38150   | 21.50                 | 23                                  | 0-1  |
|         |            |         |           | 2580               | 37850   | 21.43                 | 23                                  |  |
|         |            |         | 0         | 2595               | 38000   | 21.63                 | 23                                  |  |
|         |            |         |           | 2610               | 38150   | 21.77                 | 23                                  |  |
|         |            |         |           | 2580               | 37850   | 21.47                 | 23                                  |  |
|         |            | 1 RB    | 50        | 2595               | 38000   | 21.67                 | 23                                  |  |
|         |            |         |           | 2610               | 38150   | 21.74                 | 23                                  |  |
|         |            |         |           | 2580               | 37850   | 21.56                 | 23                                  | Max. Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   |
|         |            |         | 99        | 2595               | 38000   | 21.72                 | 23                                  |  |
|         |            |         |           | 2610               | 38150   | 21.74                 | 23                                  |  |
|         | 40.0444    |         |           | 2580               | 37850   | 20.27                 | 22                                  |  |
|         | 16-QAM     |         | 0         | 2595               | 38000   | 20.53                 | 22                                  |  |
|         |            |         |           | 2610               | 38150   | 20.65                 | 22                                  |  |
|         |            | EO DD   | 25        | 2580               | 37850   | 20.32                 | 22                                  |  |
|         |            | 50 RB   | 25        | 2595               | 38000   | 20.55                 | 22                                  |  |
|         |            |         |           | 2610               | 38150   | 20.64                 | 22                                  |  |
|         |            |         | E0.       | 2580               | 37850   | 20.37                 | 22                                  |  |
|         |            |         | 50        | 2595               | 38000   | 20.58                 | 22                                  |  |
|         |            |         |           | 2610               | 38150   | 20.64                 | 22                                  |  |
|         |            | 100     | NDD       | 2580               | 37850   | 20.37                 | 22                                  |  |
|         |            | 100     | )RB       | 2595               | 38000   | 20.55                 | 22                                  |  |
|         |            |         |           | 2610               | 38150   | 20.63                 | 22                                  | 0-2  |

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|         | TDD Band 38 |         |           |                    |         |                       |                                     |  |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|--|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)                               |  |  |  |  |
|         |             |         |           | 2577.5             | 37825   | 22.37                 | 24                                  | 0  |  |  |  |  |
|         |             |         | 0         | 2595               | 38000   | 22.55                 | 24                                  | 0  |  |  |  |  |
|         |             |         |           | 2612.5             | 38175   | 22.62                 | 24                                  | 0  |  |  |  |  |
|         |             |         |           | 2577.5             | 37825   | 22.42                 | 24                                  | 0  |  |  |  |  |
|         |             | 1 RB    | 36        | 2595               | 38000   | 22.61                 | 24                                  | 0  |  |  |  |  |
|         |             |         |           | 2612.5             | 38175   | 22.63                 | 24                                  | 0  |  |  |  |  |
|         |             |         |           | 2577.5             | 37825   | 22.51                 | 24                                  | 0  |  |  |  |  |
|         |             |         | 74        | 2595               | 38000   | 22.60                 | 24                                  | 0  |  |  |  |  |
|         |             |         |           | 2612.5             | 38175   | 22.59                 | 24                                  | 0  |  |  |  |  |
|         |             |         |           | 2577.5             | 37825   | 21.40                 | 23                                  | 0-1  |  |  |  |  |
|         | QPSK        |         | 0         | 2595               | 38000   | 21.61                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 2612.5             | 38175   | 21.70                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 2577.5             | 37825   | 21.46                 | 23                                  | 0-1  |  |  |  |  |
|         |             | 36 RB   | 18        | 2595               | 38000   | 21.64                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 2612.5             | 38175   | 21.70                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 2577.5             | 37825   | 21.49                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         | 37        | 2595               | 38000   | 21.64                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 2612.5             | 38175   | 21.67                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 2577.5             | 37825   | 21.46                 | 23                                  | 0-1  |  |  |  |  |
|         |             | 75      | RB        | 2595               | 38000   | 21.61                 | 23                                  | 0-1  |  |  |  |  |
| 15      |             |         |           | 2612.5             | 38175   | 21.67                 | 23                                  | 0-1  |  |  |  |  |
|         |             |         |           | 23                 | 0-1     |                       |                                     |  |  |  |  |  |
|         |             |         | 0         | 2595               | 38000   | 21.74                 | 23                                  |  |  |  |  |  |
|         |             |         |           | 2612.5             | 38175   | 21.84                 | 23                                  |  |  |  |  |  |
|         |             |         |           | 2577.5             | 37825   | 21.65                 | 23                                  |  |  |  |  |  |
|         |             | 1 RB    | 36        | 2595               | 38000   | 21.81                 | 23                                  |  |  |  |  |  |
|         |             |         |           | 2612.5             | 38175   | 21.84                 | 23                                  |  |  |  |  |  |
|         |             |         |           | 2577.5             | 37825   | 21.70                 | 23                                  |  |  |  |  |  |
|         |             |         | 74        | 2595               | 38000   | 21.81                 | 23                                  |  |  |  |  |  |
|         |             |         |           | 2612.5             | 38175   | 21.81                 | 23                                  |  |  |  |  |  |
|         | 40.0414     |         |           | 2577.5             | 37825   | 20.52                 | 22                                  |  |  |  |  |  |
|         | 16-QAM      |         | 0         | 2595               | 38000   | 20.72                 | 22                                  |  |  |  |  |  |
|         |             |         |           | 2612.5             | 38175   | 20.78                 | 22                                  |  |  |  |  |  |
|         |             | 26 DD   | 40        | 2577.5             | 37825   | 20.57                 | 22                                  |  |  |  |  |  |
|         |             | 36 RB   | 18        | 2595               | 38000   | 20.72                 | 22                                  |  |  |  |  |  |
|         |             |         |           | 2612.5             | 38175   | 20.81                 | 22                                  |  |  |  |  |  |
|         |             |         | 27        | 2577.5             | 37825   | 20.58                 | 22                                  |  |  |  |  |  |
|         |             |         | 37        | 2595               | 38000   | 20.75                 | 22                                  | <b>.</b>   |  |  |  |  |
|         |             |         |           | 2612.5             | 38175   | 20.79                 | 22                                  | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0- |  |  |  |  |
|         |             | 75      | DD        | 2577.5             | 37825   | 20.49                 | 22                                  |  |  |  |  |  |
|         | 75          |         | מא        | 2595               | 38000   | 20.69                 | 22                                  |  |  |  |  |  |
|         |             |         |           | 2612.5             | 38175   | 20.75                 | 22                                  | 0-2  |  |  |  |  |

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|         | TDD Band 38 |         |           |                    |         |                       |                                     |   |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|---|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|         |             |         |           | 2575               | 37800   | 22.36                 | 24                                  | 0   |  |  |  |  |
|         |             |         | 0         | 2595               | 38000   | 22.61                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 2615               | 38200   | 22.70                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 2575               | 37800   | 22.40                 | 24                                  | 0   |  |  |  |  |
|         |             | 1 RB    | 25        | 2595               | 38000   | 22.57                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 2615               | 38200   | 22.62                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 2575               | 37800   | 22.42                 | 24                                  | 0   |  |  |  |  |
|         |             |         | 49        | 2595               | 38000   | 22.60                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 2615               | 38200   | 22.60                 | 24                                  | 0   |  |  |  |  |
|         |             |         |           | 2575               | 37800   | 21.45                 | 23                                  | 0-1   |  |  |  |  |
|         | QPSK        |         | 0         | 2595               | 38000   | 21.63                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 2615               | 38200   | 21.70                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 2575               | 37800   | 21.45                 | 23                                  | 0-1   |  |  |  |  |
|         |             | 25 RB   | 12        | 2595               | 38000   | 21.63                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 2615               | 38200   | 21.69                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 2575               | 37800   | 21.46                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         | 25        | 2595               | 38000   | 21.66                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 2615               | 38200   | 21.68                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 2575               | 37800   | 21.40                 | 23                                  | 0-1   |  |  |  |  |
|         |             | 50      | RB        | 2595               | 38000   | 21.63                 | 23                                  | 0-1   |  |  |  |  |
| 10      |             |         |           | 2615               | 38200   | 21.66                 | 23                                  | 0-1   |  |  |  |  |
| 10      |             |         |           | 2575               | 37800   | 21.57                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         | 0         | 2595               | 38000   | 21.82                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 2615               | 38200   | 21.88                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 2575               | 37800   | 21.61                 | 23                                  | 0-1   |  |  |  |  |
|         |             | 1 RB    | 25        | 2595               | 38000   | 21.83                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 2615               | 38200   | 21.85                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 2575               | 37800   | 21.64                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         | 49        | 2595               | 38000   | 21.86                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 2615               | 38200   | 21.85                 | 23                                  | 0-1   |  |  |  |  |
|         |             |         |           | 2575               | 37800   | 20.55                 | 22                                  | 0-2   |  |  |  |  |
|         | 16-QAM      |         | 0         | 2595               | 38000   | 20.79                 | 22                                  | 0-2   |  |  |  |  |
|         |             |         |           | 2615               | 38200   | 20.86                 | 22                                  | 0-2   |  |  |  |  |
|         |             |         |           | 2575               | 37800   | 20.56                 | 22                                  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1 |  |  |  |  |
|         |             | 25 RB   | 12        | 2595               | 38000   | 20.80                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 2615               | 38200   | 20.84                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 2575               | 37800   | 20.60                 | 22                                  | 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1   |  |  |  |  |
|         |             |         | 25        | 2595               | 38000   | 20.81                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 2615               | 38200   | 20.83                 | 22                                  | <b>-</b>  |  |  |  |  |
|         |             |         |           | 2575               | 37800   | 20.47                 | 22                                  |   |  |  |  |  |
|         |             | 50      | RB        | 2595               | 38000   | 20.71                 | 22                                  |   |  |  |  |  |
|         |             |         |           | 2615               | 38200   | 20.72                 | 22                                  | 0-2   |  |  |  |  |

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|         | TDD Band 38 |         |           |                    |         |                       |  |                                |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |  |
|         |             |         |           | 2572.5             | 37775   | 22.38                 | 24   | 0                              |  |  |  |  |
|         |             |         | 0         | 2595               | 38000   | 22.62                 | 24   | 0                              |  |  |  |  |
|         |             |         |           | 2617.5             | 38225   | 22.65                 | 24   | 0                              |  |  |  |  |
|         |             |         |           | 2572.5             | 37775   | 22.41                 | 24   | 0                              |  |  |  |  |
|         |             | 1 RB    | 12        | 2595               | 38000   | 22.61                 | 24   | 0                              |  |  |  |  |
|         |             |         |           | 2617.5             | 38225   | 22.64                 | 24   | 0                              |  |  |  |  |
|         |             |         |           | 2572.5             | 37775   | 22.44                 | 24   | 0                              |  |  |  |  |
|         |             |         | 24        | 2595               | 38000   | 22.65                 | 24   | 0                              |  |  |  |  |
|         |             |         |           | 2617.5             | 38225   | 22.64                 | 24   | 0                              |  |  |  |  |
|         |             |         |           | 2572.5             | 37775   | 21.46                 | 23   | 0-1                            |  |  |  |  |
|         | QPSK        |         | 0         | 2595               | 38000   | 21.67                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2617.5             | 38225   | 21.71                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2572.5             | 37775   | 21.45                 | 23   | 0-1                            |  |  |  |  |
|         |             | 12 RB   | 6         | 2595               | 38000   | 21.66                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2617.5             | 38225   | 21.71                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2572.5             | 37775   | 21.46                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 13        | 2595               | 38000   | 21.68                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2617.5             | 38225   | 21.72                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2572.5             | 37775   | 21.41                 | 23   | 0-1                            |  |  |  |  |
|         |             | 25      | RB        | 2595               | 38000   | 21.64                 | 23   | 0-1                            |  |  |  |  |
| 5       |             |         |           | 2617.5             | 38225   | 21.69                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2572.5             | 37775   | 21.54                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 0         | 2595               | 38000   | 21.80                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2617.5             | 38225   | 21.85                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2572.5             | 37775   | 21.56                 | 23   | 0-1                            |  |  |  |  |
|         |             | 1 RB    | 12        | 2595               | 38000   | 21.77                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2617.5             | 38225   | 21.82                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2572.5             | 37775   | 21.60                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 24        | 2595               | 38000   | 21.81                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2617.5             | 38225   | 21.86                 | 23   | 0-1                            |  |  |  |  |
|         | 40.044      |         |           | 2572.5             | 37775   | 20.46                 | 22   | 0-2                            |  |  |  |  |
|         | 16-QAM      |         | 0         | 2595               | 38000   | 20.67                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2617.5             | 38225   | 20.75                 | 22   | 0-2                            |  |  |  |  |
|         |             | 40.00   |           | 2572.5             | 37775   | 20.44                 | 22   | 0-2                            |  |  |  |  |
|         |             | 12 RB   | 6         | 2595               | 38000   | 20.66                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2617.5             | 38225   | 20.74                 | 22   | 0-2                            |  |  |  |  |
|         |             |         | 10        | 2572.5             | 37775   | 20.47                 | 22   | 0-2                            |  |  |  |  |
|         |             |         | 13        | 2595               | 38000   | 20.69                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2617.5             | 38225   | 20.75                 | 22   | 0-2                            |  |  |  |  |
|         |             | 0.5     | DD        | 2572.5             | 37775   | 20.52                 | 22   | 0-2                            |  |  |  |  |
|         | 25          |         | ΝĎ        | 2595               | 38000   | 20.74                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2617.5             | 38225   | 20.79                 | 22   | 0-2                            |  |  |  |  |

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|         |            |         |           | TDD Band 41        |         |                       |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)   |
|         |            |         |           | 2506               | 39750   | 22.13                 | 24   | 0  |
|         |            |         |           | 2549.5             | 40185   | 22.44                 | 24   | 0  |
|         |            |         | 0         | 2593               | 40620   | 22.65                 | 24   | 0  |
|         |            |         |           | 2636.5             | 41055   | 22.61                 | 24   | 0  |
|         |            |         |           | 2680               | 41490   | 22.49                 | 24   | 0  |
|         |            |         |           | 2506               | 39750   | 22.23                 | 24   | 0  |
|         |            |         |           | 2549.5             | 40185   | 22.32                 | 24   | 0  |
|         |            | 1 RB    | 50        | 2593               | 40620   | 22.41                 | 24   | 0  |
|         |            |         |           | 2636.5             | 41055   | 22.59                 | 24   | 0  |
|         |            |         |           | 2680               | 41490   | 22.45                 | 24   | 0  |
|         |            |         |           | 2506               | 39750   | 22.35                 | 24   | 0  |
|         |            |         |           | 2549.5             | 40185   | 22.33                 | 24   | 0  |
|         |            |         | 99        | 2593               | 40620   | 22.44                 | 24   | 0  |
|         |            |         |           | 2636.5             | 41055   | 22.58                 | 24   | 0  |
|         |            |         |           | 2680               | 41490   | 22.37                 | 24   | 0  |
|         |            |         |           | 2506               | 39750   | 21.18                 | 23   | 0-1  |
|         |            |         |           | 2549.5             | 40185   | 21.47                 | 23   | 0-1  |
| 20      | QPSK       |         | 0         | 2593               | 40620   | 21.41                 | 23   | 0-1  |
|         |            |         |           | 2636.5             | 41055   | 21.58                 | 23   | 0-1  |
|         |            |         |           | 2680               | 41490   | 21.46                 | 23   | 0-1  |
|         |            |         |           | 2506               | 39750   | 21.25                 | 23   | 0-1  |
|         |            |         |           | 2549.5             | 40185   | 21.39                 | 23   | 0-1  |
|         |            | 50 RB   | 25        | 2593               | 40620   | 21.43                 | 23   | 0-1  |
|         |            |         |           | 2636.5             | 41055   | 21.60                 | 23   | 0-1  |
|         |            |         |           | 2680               | 41490   | 21.48                 | 23   | 0-1  |
|         |            |         |           | 2506               | 39750   | 21.31                 | 23   | 0-1  |
|         |            |         |           | 2549.5             | 40185   | 21.37                 | 23   | 0-1  |
|         |            |         | 50        | 2593               | 40620   | 21.46                 | 23   | 0-1  |
|         |            |         |           | 2636.5             | 41055   | 21.56                 | 23   | 0-1  |
|         |            |         |           | 2680               | 41490   | 21.42                 | 23   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1 |
|         |            |         |           | 2506               | 39750   | 21.35                 | 23   | 0-1  |
|         |            |         |           | 2549.5             | 40185   | 21.39                 | 23   | 0-1  |
|         |            | 100     | )RB       | 2593               | 40620   | 21.42                 | 23   | 0-1  |
|         |            |         |           | 2636.5             | 41055   | 21.62                 | 23   | 0-1  |
|         |            |         |           | 2680               | 41490   | 21.52                 | 23   | 0-1  |

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|         |            |         |           | TDD Band 41        |         |                       |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)                               |
|         |            |         |           | 2506               | 39750   | 21.36                 | 23   | 0-1  |
|         |            |         |           | 2549.5             | 40185   | 21.68                 | 23   | 0-1  |
|         |            |         | 0         | 2593               | 40620   | 21.56                 | 23   | 0-1  |
|         |            |         |           | 2636.5             | 41055   | 21.83                 | 23   | 0-1  |
|         |            |         |           | 2680               | 41490   | 21.77                 | 23   | 0-1  |
|         |            |         |           | 2506               | 39750   | 21.47                 | 23   | 0-1  |
|         |            |         |           | 2549.5             | 40185   | 21.58                 | 23   | 0-1  |
|         |            | 1 RB    | 50        | 2593               | 40620   | 21.64                 | 23   | 0-1  |
|         |            |         |           | 2636.5             | 41055   | 21.83                 | 23   | 0-1  |
|         |            |         |           | 2680               | 41490   | 21.71                 | 23   | 0-1  |
|         |            |         |           | 2506               | 39750   | 21.60                 | 23   | 0-1  |
|         |            |         |           | 2549.5             | 40185   | 21.58                 | 23   | 0-1  |
|         |            |         | 99        | 2593               | 40620   | 21.70                 | 23   | 0-1  |
|         |            |         |           | 2636.5             | 41055   | 21.82                 | 23   | 0-1  |
|         |            |         |           | 2680               | 41490   | 21.66                 | 23   | 0-1  |
|         |            |         |           | 2506               | 39750   | 20.25                 | 22   | 0-2  |
|         |            |         |           | 2549.5             | 40185   | 20.50                 | 22   | 0-2  |
| 20      | 16-QAM     |         | 0         | 2593               | 40620   | 20.47                 | 22   | 0-2  |
|         |            |         |           | 2636.5             | 41055   | 20.62                 | 22   | 0-2  |
|         |            |         |           | 2680               | 41490   | 20.55                 | 22   | 0-2  |
|         |            |         |           | 2506               | 39750   | 20.33                 | 22   | 0-2  |
|         |            |         |           | 2549.5             | 40185   | 20.42                 | 22   | 0-2  |
|         |            | 50 RB   | 25        | 2593               | 40620   | 20.51                 | 22   | 0-2  |
|         |            |         |           | 2636.5             | 41055   | 20.62                 | 22   | 0-2  |
|         |            |         |           | 2680               | 41490   | 20.56                 | 22   | 0-2  |
|         |            |         |           | 2506               | 39750   | 20.38                 | 22   | 0-2  |
|         |            |         |           | 2549.5             | 40185   | 20.42                 | 22   | 0-2  |
|         |            |         | 50        | 2593               | 40620   | 20.54                 | 22   | 0-2  |
|         |            |         |           | 2636.5             | 41055   | 20.60                 | 22   | Allowed per 3GPP(dB)  0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0- |
|         |            |         |           | 2680               | 41490   | 20.58                 | 22   | 0-2  |
|         |            |         |           | 2506               | 39750   | 20.40                 | 22   | 0-2  |
|         |            |         |           | 2549.5             | 40185   | 20.43                 | 22   | 0-2  |
|         |            | 100     | )RB       | 2593               | 40620   | 20.49                 | 22   | 0-2  |
|         |            |         |           | 2636.5             | 41055   | 20.61                 | 22   | 0-2  |
|         |            |         |           | 2680               | 41490   | 20.61                 | 22   | 0-2  |

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|         |            |         |           | TDD Band 41        |         |                       |  |                                |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |
|         |            |         |           | 2503.5             | 39725   | 22.04                 | 24   | 0                              |
|         |            |         |           | 2548.3             | 40173   | 22.38                 | 24   | 0                              |
|         |            |         | 0         | 2593               | 40620   | 22.32                 | 24   | 0                              |
|         |            |         |           | 2637.8             | 41068   | 22.57                 | 24   | 0                              |
|         |            |         |           | 2682.5             | 41515   | 22.50                 | 24   | 0                              |
|         |            |         |           | 2503.5             | 39725   | 22.14                 | 24   | 0                              |
|         |            |         |           | 2548.3             | 40173   | 22.40                 | 24   | 0                              |
|         |            | 1 RB    | 36        | 2593               | 40620   | 22.39                 | 24   | 0                              |
|         |            |         |           | 2637.8             | 41068   | 22.63                 | 24   | 0                              |
|         |            |         |           | 2682.5             | 41515   | 22.49                 | 24   | 0                              |
|         |            |         |           | 2503.5             | 39725   | 22.23                 | 24   | 0                              |
|         |            |         |           | 2548.3             | 40173   | 22.29                 | 24   | 0                              |
|         |            |         | 74        | 2593               | 40620   | 22.41                 | 24   | 0                              |
|         |            |         |           | 2637.8             | 41068   | 22.59                 | 24   | 0                              |
|         |            |         |           | 2682.5             | 41515   | 22.43                 | 24   | 0                              |
|         |            |         |           | 2503.5             | 39725   | 21.16                 | 23   | 0-1                            |
|         |            |         |           | 2548.3             | 40173   | 21.45                 | 23   | 0-1                            |
| 15      | QPSK       |         | 0         | 2593               | 40620   | 21.38                 | 23   | 0-1                            |
|         |            |         |           | 2637.8             | 41068   | 21.60                 | 23   | 0-1                            |
|         |            |         |           | 2682.5             | 41515   | 21.53                 | 23   | 0-1                            |
|         |            |         |           | 2503.5             | 39725   | 21.19                 | 23   | 0-1                            |
|         |            |         |           | 2548.3             | 40173   | 21.45                 | 23   | 0-1                            |
|         |            | 36 RB   | 18        | 2593               | 40620   | 21.42                 | 23   | 0-1                            |
|         |            |         |           | 2637.8             | 41068   | 21.67                 | 23   | 0-1                            |
|         |            |         |           | 2682.5             | 41515   | 21.52                 | 23   | 0-1                            |
|         |            |         |           | 2503.5             | 39725   | 21.28                 | 23   | 0-1                            |
|         |            |         |           | 2548.3             | 40173   | 21.36                 | 23   | 0-1                            |
|         |            |         | 37        | 2593               | 40620   | 21.42                 | 23   | 0-1                            |
|         |            |         |           | 2637.8             | 41068   | 21.62                 | 23   | 0-1                            |
|         |            |         |           | 2682.5             | 41515   | 21.48                 | 23   | 0-1                            |
|         |            |         |           | 2503.5             | 39725   | 21.18                 | 23   | 0-1                            |
|         |            |         |           | 2548.3             | 40173   | 21.37                 | 23   | 0-1                            |
|         |            | 75      | RB        | 2593               | 40620   | 21.39                 | 23   | 0-1                            |
|         |            |         |           | 2637.8             | 41068   | 21.60                 | 23   | 0-1                            |
|         |            |         |           | 2682.5             | 41515   | 21.56                 | 23   | 0-1                            |

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|         |            |         |           | TDD Band 41        |         |                       |  |                                |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |
|         |            |         |           | 2503.5             | 39725   | 21.26                 | 23   | 0-1                            |
|         |            |         |           | 2548.3             | 40173   | 21.60                 | 23   | 0-1                            |
|         |            |         | 0         | 2593               | 40620   | 21.51                 | 23   | 0-1                            |
|         |            |         |           | 2637.8             | 41068   | 21.83                 | 23   | 0-1                            |
|         |            |         |           | 2682.5             | 41515   | 21.69                 | 23   | 0-1                            |
|         |            |         |           | 2503.5             | 39725   | 21.34                 | 23   | 0-1                            |
|         |            |         |           | 2548.3             | 40173   | 21.63                 | 23   | 0-1                            |
|         |            | 1 RB    | 36        | 2593               | 40620   | 21.60                 | 23   | 0-1                            |
|         |            |         |           | 2637.8             | 41068   | 21.89                 | 23   | 0-1                            |
|         |            |         |           | 2682.5             | 41515   | 21.71                 | 23   | 0-1                            |
|         |            |         |           | 2503.5             | 39725   | 21.47                 | 23   | 0-1                            |
|         |            |         |           | 2548.3             | 40173   | 21.52                 | 23   | 0-1                            |
|         |            |         | 74        | 2593               | 40620   | 21.60                 | 23   | 0-1                            |
|         |            |         |           | 2637.8             | 41068   | 21.83                 | 23   | 0-1                            |
|         |            |         |           | 2682.5             | 41515   | 21.64                 | 23   | 0-1                            |
|         |            |         |           | 2503.5             | 39725   | 20.25                 | 22   | 0-2                            |
|         |            |         |           | 2548.3             | 40173   | 20.53                 | 22   | 0-2                            |
| 15      | 16-QAM     |         | 0         | 2593               | 40620   | 20.47                 | 22   | 0-2                            |
|         |            |         |           | 2637.8             | 41068   | 20.74                 | 22   | 0-2                            |
|         |            |         |           | 2682.5             | 41515   | 20.62                 | 22   | 0-2                            |
|         |            |         |           | 2503.5             | 39725   | 20.28                 | 22   | 0-2                            |
|         |            |         |           | 2548.3             | 40173   | 20.53                 | 22   | 0-2                            |
|         |            | 36 RB   | 18        | 2593               | 40620   | 20.50                 | 22   | 0-2                            |
|         |            |         |           | 2637.8             | 41068   | 20.80                 | 22   | 0-2                            |
|         |            |         |           | 2682.5             | 41515   | 20.65                 | 22   | 0-2                            |
|         |            |         |           | 2503.5             | 39725   | 20.36                 | 22   | 0-2                            |
|         |            |         |           | 2548.3             | 40173   | 20.48                 | 22   | 0-2                            |
|         |            |         | 37        | 2593               | 40620   | 20.51                 | 22   | 0-2                            |
|         |            |         |           | 2637.8             | 41068   | 20.76                 | 22   | 0-2                            |
|         |            |         |           | 2682.5             | 41515   | 20.60                 | 22   | 0-2                            |
|         |            |         |           | 2503.5             | 39725   | 20.24                 | 22   | 0-2                            |
|         |            |         |           | 2548.3             | 40173   | 20.46                 | 22   | 0-2                            |
|         |            | 75      | RB        | 2593               | 40620   | 20.45                 | 22   | 0-2                            |
|         |            |         |           | 2637.8             | 41068   | 20.69                 | 22   | 0-2                            |
|         |            |         |           | 2682.5             | 41515   | 20.61                 | 22   | 0-2                            |

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|         | TDD Band 41 |         |           |                    |         |                       |  |   |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)                            |  |  |  |
|         |             |         |           | 2501               | 39700   | 22.05                 | 24   | 0   |  |  |  |
|         |             |         |           | 2547               | 40160   | 22.35                 | 24   | 0   |  |  |  |
|         |             |         | 0         | 2593               | 40620   | 22.34                 | 24   | 0   |  |  |  |
|         |             |         |           | 2639               | 41080   | 22.58                 | 24   | 0   |  |  |  |
|         |             |         |           | 2685               | 41540   | 22.52                 | 24   | 0   |  |  |  |
|         |             |         |           | 2501               | 39700   | 22.07                 | 24   | 0   |  |  |  |
|         |             |         |           | 2547               | 40160   | 22.36                 | 24   | 0   |  |  |  |
|         |             | 1 RB    | 25        | 2593               | 40620   | 22.37                 | 24   | 0   |  |  |  |
|         |             |         |           | 2639               | 41080   | 22.58                 | 24   | 0   |  |  |  |
|         |             |         |           | 2685               | 41540   | 22.45                 | 24   | 0   |  |  |  |
|         |             |         |           | 2501               | 39700   | 22.17                 | 24   | 0   |  |  |  |
|         |             |         |           | 2547               | 40160   | 22.32                 | 24   | 0   |  |  |  |
|         |             |         | 49        | 2593               | 40620   | 22.41                 | 24   | 0   |  |  |  |
|         |             |         |           | 2639               | 41080   | 22.54                 | 24   | 0   |  |  |  |
|         |             |         |           | 2685               | 41540   | 22.40                 | 24   | 0   |  |  |  |
|         |             |         |           | 2501               | 39700   | 21.16                 | 23   | 0-1   |  |  |  |
|         |             |         |           | 2547               | 40160   | 21.46                 | 23   | 0-1   |  |  |  |
| 10      | QPSK        |         | 0         | 2593               | 40620   | 21.40                 | 23   | 0-1   |  |  |  |
|         |             |         |           | 2639               | 41080   | 21.69                 | 23   | 0-1   |  |  |  |
|         |             |         |           | 2685               | 41540   | 21.53                 | 23   | 0-1   |  |  |  |
|         |             |         |           | 2501               | 39700   | 21.16                 | 23   | 0-1   |  |  |  |
|         |             |         |           | 2547               | 40160   | 21.45                 | 23   | 0-1   |  |  |  |
|         |             | 25 RB   | 12        | 2593               | 40620   | 21.42                 | 23   | 0-1   |  |  |  |
|         |             |         |           | 2639               | 41080   | 21.65                 | 23   | 0-1   |  |  |  |
|         |             |         |           | 2685               | 41540   | 21.50                 | 23   | 0-1   |  |  |  |
|         |             |         |           | 2501               | 39700   | 21.18                 | 23   | 0-1   |  |  |  |
|         |             |         |           | 2547               | 40160   | 21.40                 | 23   | 0-1   |  |  |  |
|         |             |         | 25        | 2593               | 40620   | 21.43                 | 23   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |  |  |  |
|         |             |         |           | 2639               | 41080   | 21.65                 | 23   |   |  |  |  |
|         |             |         |           | 2685               | 41540   | 21.50                 | 23   | 0-1   |  |  |  |
|         |             |         |           | 2501               | 39700   | 21.16                 | 23   | 0<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-  |  |  |  |
|         |             |         |           | 2547               | 40160   | 21.38                 | 23   | 0-1   |  |  |  |
|         |             | 50      | RB        | 2593               | 40620   | 21.40                 | 23   | 0-1   |  |  |  |
|         |             |         |           | 2639               | 41080   | 21.61                 | 23   | 0-1   |  |  |  |
|         |             |         |           | 2685               | 41540   | 21.54                 | 23   | 0-1   |  |  |  |

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|         | TDD Band 41 |         |           |                    |         |                       |  |                                |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |  |
|         |             |         |           | 2501               | 39700   | 21.27                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2547               | 40160   | 21.65                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 0         | 2593               | 40620   | 21.59                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2639               | 41080   | 21.87                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2685               | 41540   | 21.75                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2501               | 39700   | 21.31                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2547               | 40160   | 21.63                 | 23   | 0-1                            |  |  |  |  |
|         |             | 1 RB    | 25        | 2593               | 40620   | 21.62                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2639               | 41080   | 21.90                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2685               | 41540   | 21.70                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2501               | 39700   | 21.42                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2547               | 40160   | 21.58                 | 23   | 0-1                            |  |  |  |  |
|         |             |         | 49        | 2593               | 40620   | 21.65                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2639               | 41080   | 21.89                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2685               | 41540   | 21.67                 | 23   | 0-1                            |  |  |  |  |
|         |             |         |           | 2501               | 39700   | 20.26                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2547               | 40160   | 20.57                 | 22   | 0-2                            |  |  |  |  |
| 10      | 16-QAM      |         | 0         | 2593               | 40620   | 20.55                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2639               | 41080   | 20.81                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2685               | 41540   | 20.71                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2501               | 39700   | 20.27                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2547               | 40160   | 20.56                 | 22   | 0-2                            |  |  |  |  |
|         |             | 25 RB   | 12        | 2593               | 40620   | 20.58                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2639               | 41080   | 20.79                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2685               | 41540   | 20.68                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2501               | 39700   | 20.31                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2547               | 40160   | 20.51                 | 22   | 0-2                            |  |  |  |  |
|         |             |         | 25        | 2593               | 40620   | 20.64                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2639               | 41080   | 20.78                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2685               | 41540   | 20.67                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2501               | 39700   | 20.20                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2547               | 40160   | 20.43                 | 22   | 0-2                            |  |  |  |  |
|         |             | 50      | RB        | 2593               | 40620   | 20.52                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2639               | 41080   | 20.64                 | 22   | 0-2                            |  |  |  |  |
|         |             |         |           | 2685               | 41540   | 20.64                 | 22   | 0-2                            |  |  |  |  |

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|         |            |         |           | TDD Band 41        |         |                       |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)   |
|         |            |         |           | 2498.5             | 39675   | 22.06                 | 24   | 0  |
|         |            |         |           | 2547.8             | 40148   | 22.39                 | 24   | 0  |
|         |            |         | 0         | 2593               | 40620   | 22.39                 | 24   | 0  |
|         |            |         |           | 2640.3             | 41093   | 22.59                 | 24   | 0  |
|         |            |         |           | 2687.5             | 41565   | 22.52                 | 24   | 0  |
|         |            |         |           | 2498.5             | 39675   | 22.07                 | 24   | 0  |
|         |            |         |           | 2547.8             | 40148   | 22.38                 | 24   | 0  |
|         |            | 1 RB    | 12        | 2593               | 40620   | 22.39                 | 24   | 0  |
|         |            |         |           | 2640.3             | 41093   | 22.58                 | 24   | 0  |
|         |            |         |           | 2687.5             | 41565   | 22.47                 | 24   | 0  |
|         |            |         |           | 2498.5             | 39675   | 22.10                 | 24   | 0  |
|         |            |         |           | 2547.8             | 40148   | 22.41                 | 24   | 0  |
|         |            |         | 24        | 2593               | 40620   | 22.42                 | 24   | 0  |
|         |            |         |           | 2640.3             | 41093   | 22.59                 | 24   | 0  |
|         |            |         |           | 2687.5             | 41565   | 22.48                 | 24   | 0  |
|         |            |         |           | 2498.5             | 39675   | 21.14                 | 23   | 0-1  |
|         |            |         |           | 2547.8             | 40148   | 21.45                 | 23   | 0-1  |
| 5       | QPSK       |         | 0         | 2593               | 40620   | 21.44                 | 23   | 0-1  |
|         |            |         |           | 2640.3             | 41093   | 21.69                 | 23   | 0-1  |
|         |            |         |           | 2687.5             | 41565   | 21.58                 | 23   | 0-1  |
|         |            |         |           | 2498.5             | 39675   | 21.14                 | 23   | 0-1  |
|         |            |         |           | 2547.8             | 40148   | 21.43                 | 23   | 0-1  |
|         |            | 12 RB   | 6         | 2593               | 40620   | 21.43                 | 23   | 0-1  |
|         |            |         |           | 2640.3             | 41093   | 21.68                 | 23   | 0-1  |
|         |            |         |           | 2687.5             | 41565   | 21.57                 | 23   | 0-1  |
|         |            |         |           | 2498.5             | 39675   | 21.15                 | 23   | 0-1  |
|         |            |         |           | 2547.8             | 40148   | 21.45                 | 23   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                  |
|         |            |         | 13        | 2593               | 40620   | 21.45                 | 23   | 0-1  |
|         |            |         |           | 2640.3             | 41093   | 21.68                 | 23   | 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 |
|         |            |         |           | 2687.5             | 41565   | 21.53                 | 23   | 0-1  |
|         |            |         |           | 2498.5             | 39675   | 21.14                 | 23   | 0-1  |
|         |            |         |           | 2547.8             | 40148   | 21.43                 | 23   | 0-1  |
|         |            | 25      | RB        | 2593               | 40620   | 21.40                 | 23   | 0-1  |
|         |            |         |           | 2640.3             | 41093   | 21.66                 | 23   | 0-1  |
|         |            |         |           | 2687.5             | 41565   | 21.51                 | 23   | 0-1  |

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|         | TDD Band 41 |         |           |                    |         |                       |                                     |                                |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|--------------------------------|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |  |
|         |             |         |           | 2498.5             | 39675   | 21.22                 | 23                                  | 0-1                            |  |  |  |  |
|         |             |         |           | 2547.8             | 40148   | 21.58                 | 23                                  | 0-1                            |  |  |  |  |
|         |             |         | 0         | 2593               | 40620   | 21.55                 | 23                                  | 0-1                            |  |  |  |  |
|         |             |         |           | 2640.3             | 41093   | 21.86                 | 23                                  | 0-1                            |  |  |  |  |
|         |             |         |           | 2687.5             | 41565   | 21.70                 | 23                                  | 0-1                            |  |  |  |  |
|         |             |         |           | 2498.5             | 39675   | 21.21                 | 23                                  | 0-1                            |  |  |  |  |
|         |             |         |           | 2547.8             | 40148   | 21.56                 | 23                                  | 0-1                            |  |  |  |  |
|         |             | 1 RB    | 12        | 2593               | 40620   | 21.54                 | 23                                  | 0-1                            |  |  |  |  |
|         |             |         |           | 2640.3             | 41093   | 21.84                 | 23                                  | 0-1                            |  |  |  |  |
|         |             |         |           | 2687.5             | 41565   | 21.67                 | 23                                  | 0-1                            |  |  |  |  |
|         |             |         |           | 2498.5             | 39675   | 21.27                 | 23                                  | 0-1                            |  |  |  |  |
|         |             |         |           | 2547.8             | 40148   | 21.61                 | 23                                  | 0-1                            |  |  |  |  |
|         |             |         | 24        | 2593               | 40620   | 21.60                 | 23                                  | 0-1                            |  |  |  |  |
|         |             |         |           | 2640.3             | 41093   | 21.85                 | 23                                  | 0-1                            |  |  |  |  |
|         |             |         |           | 2687.5             | 41565   | 21.69                 | 23                                  | 0-1                            |  |  |  |  |
|         |             |         |           | 2498.5             | 39675   | 20.15                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         |           | 2547.8             | 40148   | 20.47                 | 22                                  | 0-2                            |  |  |  |  |
| 5       | 16-QAM      |         | 0         | 2593               | 40620   | 20.44                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         |           | 2640.3             | 41093   | 20.72                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         |           | 2687.5             | 41565   | 20.56                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         |           | 2498.5             | 39675   | 20.15                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         |           | 2547.8             | 40148   | 20.45                 | 22                                  | 0-2                            |  |  |  |  |
|         |             | 12 RB   | 6         | 2593               | 40620   | 20.45                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         |           | 2640.3             | 41093   | 20.70                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         |           | 2687.5             | 41565   | 20.54                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         |           | 2498.5             | 39675   | 20.17                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         |           | 2547.8             | 40148   | 20.47                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         | 13        | 2593               | 40620   | 20.45                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         |           | 2640.3             | 41093   | 20.71                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         |           | 2687.5             | 41565   | 20.53                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         |           | 2498.5             | 39675   | 20.20                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         |           | 2547.8             | 40148   | 20.51                 | 22                                  | 0-2                            |  |  |  |  |
|         |             | 25      | RB        | 2593               | 40620   | 20.53                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         |           | 2640.3             | 41093   | 20.76                 | 22                                  | 0-2                            |  |  |  |  |
|         |             |         |           | 2687.5             | 41565   | 20.64                 | 22                                  | 0-2                            |  |  |  |  |

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## LTE FDD Band 2 / Band 4 / Band 5 / Band 7 / Band 12 / Band 13 / Band 17 / Band 26 / Band 30 / Band 66 power table (Reduced power):

|         | / Ballu 3  |         |           | FDD Band 2         |         | , .                   |  |   |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |
|         |            |         |           | 1860               | 18700   | 17.37                 | 17.5   | 0   |  |
|         |            |         | 0         | 1880               | 18900   | 17.32                 | 17.5   | 0   |  |
|         |            |         |           | 1900               | 19100   | 16.99                 | 17.5   | 0   |  |
|         |            |         |           | 1860               | 18700   | 17.19                 | 17.5   | 0   |  |
|         |            | 1 RB    | 50        | 1880               | 18900   | 17.34                 | 17.5   | 0   |  |
|         |            |         |           | 1900               | 19100   | 16.61                 | 17.5   | 0   |  |
|         |            |         |           | 1860               | 18700   | 17.17                 | 17.5   | 0   |  |
|         |            |         | 99        | 1880               | 18900   | 17.12                 | 17.5   | 0   |  |
|         |            |         |           | 1900               | 19100   | 16.82                 | 17.5   | 0   |  |
|         |            |         |           | 1860               | 18700   | 17.30                 | 17.5   | 0   |  |
|         | QPSK       |         | 0         | 1880               | 18900   | 17.32                 | 17.5   | 0   |  |
|         |            |         |           | 1900               | 19100   | 16.86                 | 17.5   | 0   |  |
|         |            |         |           | 1860               | 18700   | 17.16                 | 17.5   | 0   |  |
|         |            | 50 RB   | 25        | 1880               | 18900   | 17.37                 | 17.5   | 0   |  |
|         |            |         |           | 1900               | 19100   | 16.68                 | 17.5   | 0   |  |
|         |            |         |           | 1860               | 18700   | 17.12                 | 17.5   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |
|         |            |         | 50        | 1880               | 18900   | 17.20                 | 17.5   | 0   |  |
|         |            |         |           | 1900               | 19100   | 16.70                 | 17.5   | 0   |  |
|         |            |         |           | 1860               | 18700   | 17.34                 | 17.5   | 0   |  |
|         |            | 100     | ORB       | 1880               | 18900   | 17.48                 | 17.5   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                   |  |
| 20      |            |         |           | 1900               | 19100   | 16.86                 | 17.5   | 0   |  |
| 20      |            |         |           | 1860               | 18700   | 17.00                 | 17.5   | 0   |  |
|         |            |         | 0         | 1880               | 18900   | 17.24                 | 17.5   | 0   |  |
|         |            |         |           | 1900               | 19100   | 17.40                 | 17.5   | 0   |  |
|         |            |         |           | 1860               | 18700   | 17.35                 | 17.5   | 0   |  |
|         |            | 1 RB    | 50        | 1880               | 18900   | 17.39                 | 17.5   | 0   |  |
|         |            |         |           | 1900               | 19100   | 16.78                 | 17.5   | 0   |  |
|         |            |         |           | 1860               | 18700   | 17.12                 | 17.5   | 0   |  |
|         |            |         | 99        | 1880               | 18900   | 17.11                 | 17.5   | 0   |  |
|         |            |         |           | 1900               | 19100   | 17.21                 | 17.5   | 0   |  |
|         |            |         |           | 1860               | 18700   | 17.25                 | 17.5   | 0   |  |
|         | 16-QAM     |         | 0         | 1880               | 18900   | 17.38                 | 17.5   | 0   |  |
|         |            |         |           | 1900               | 19100   | 16.85                 | 17.5   | 0   |  |
|         |            |         |           | 1860               | 18700   | 17.22                 | 17.5   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |  |
|         |            | 50 RB   | 25        | 1880               | 18900   | 17.31                 | 17.5   | 0   |  |
|         |            |         |           | 1900               | 19100   | 16.74                 | 17.5   | 0   |  |
|         |            |         |           | 1860               | 18700   | 17.20                 | 17.5   | 0   |  |
|         |            |         | 50        | 1880               | 18900   | 17.21                 | 17.5   | 0   |  |
|         |            |         |           | 1900               | 19100   | 16.74                 | 17.5   | 0   |  |
|         |            |         |           | 1860               | 18700   | 17.37                 | 17.5   | 0   |  |
|         |            | 100RB   |           | 1880               | 18900   | 17.46                 | 17.5   | 0   |  |
|         |            |         |           | 1900               | 19100   | 16.98                 | 17.5   | 0   |  |

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|         | FDD Band 2 |         |           |                    |                |                       |                                     |   |  |  |  |  |
|---------|------------|---------|-----------|--------------------|----------------|-----------------------|-------------------------------------|---|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel        | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)                            |  |  |  |  |
|         |            |         |           | 1857.5             | 18675          | 17.33                 | 17.5                                | 0   |  |  |  |  |
|         |            |         | 0         | 1880               | 18900          | 17.27                 | 17.5                                | 0   |  |  |  |  |
|         |            |         |           | 1902.5             | 19125          | 16.65                 | 17.5                                | 0   |  |  |  |  |
|         |            |         |           | 1857.5             | 18675          | 17.24                 | 17.5                                | 0   |  |  |  |  |
|         |            | 1 RB    | 36        | 1880               | 18900          | 17.28                 | 17.5                                | 0   |  |  |  |  |
|         |            |         |           | 1902.5             | 19125          | 16.46                 | 17.5                                | 0   |  |  |  |  |
|         |            |         |           | 1857.5             | 18675          | 16.97                 | 17.5                                | 0   |  |  |  |  |
|         |            |         | 74        | 1880               | 18900          | 17.15                 | 17.5                                | 0   |  |  |  |  |
|         |            |         |           | 1902.5             | 19125          | 16.67                 | 17.5                                | 0   |  |  |  |  |
|         |            |         |           | 1857.5             | 18675          | 17.23                 | 17.5                                | 0   |  |  |  |  |
|         | QPSK       |         | 0         | 1880               | 18900          | 17.27                 | 17.5                                | 0   |  |  |  |  |
|         |            |         |           | 1902.5             | 19125          | 16.61                 | 17.5                                | 0   |  |  |  |  |
|         |            |         |           | 1857.5             | 18675          | 17.14                 | 17.5                                | 0   |  |  |  |  |
|         |            | 36 RB   | 18        | 1880               | 18900          | 17.26                 | 17.5                                | 0   |  |  |  |  |
|         |            |         |           | 1902.5             | 19125          | 16.66                 | 17.5                                | 0   |  |  |  |  |
|         |            |         |           | 1857.5             | 18675          | 17.12                 | 17.5                                | 0   |  |  |  |  |
|         |            |         | 37        | 1880               | 18900          | 17.23                 | 17.5                                | 0   |  |  |  |  |
|         |            |         |           | 1902.5             | 19125          | 16.67                 | 17.5                                | 0   |  |  |  |  |
|         |            |         |           | 1857.5             | 18675          | 17.21                 | 17.5                                | 0   |  |  |  |  |
|         |            | 75      | RB        | 1880               | 18900          | 17.29                 | 17.5                                | 0   |  |  |  |  |
| 15      |            |         |           | 1902.5             | 19125          | 16.75                 | 17.5                                | 0   |  |  |  |  |
|         |            |         | 0         | 1857.5             | 18675          | 17.39                 | 17.5                                |   |  |  |  |  |
|         |            |         | 0         | 1880               | 18900          | 17.22                 | 17.5                                |   |  |  |  |  |
|         |            |         |           | 1902.5             | 19125          | 16.72                 | 17.5                                |   |  |  |  |  |
|         |            |         |           | 1857.5             | 18675          | 17.37                 | 17.5                                |   |  |  |  |  |
|         |            | 1 RB    | 36        | 1880               | 18900          | 17.46                 | 17.5                                | 0   |  |  |  |  |
|         |            |         |           | 1902.5             | 19125          | 16.80                 | 17.5                                |   |  |  |  |  |
|         |            |         | <b></b> . | 1857.5             | 18675          | 17.26                 | 17.5                                |   |  |  |  |  |
|         |            |         | 74        | 1880               | 18900          | 17.25                 | 17.5                                |   |  |  |  |  |
|         |            |         |           | 1902.5             | 19125          | 16.46                 | 17.5                                |   |  |  |  |  |
|         | 40.044     |         |           | 1857.5             | 18675          | 17.24                 | 17.5                                |   |  |  |  |  |
|         | 16-QAM     |         | 0         | 1880               | 18900          | 17.37                 | 17.5                                | _   |  |  |  |  |
|         |            |         |           | 1902.5             | 19125          | 16.66                 | 17.5                                | 0   |  |  |  |  |
|         |            | 26 DD   | 40        | 1857.5             | 18675          | 17.19                 | 17.5                                | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |  |  |  |  |
|         |            | 36 RB   | 18        | 1880               | 18900          | 17.24                 | 17.5                                |   |  |  |  |  |
|         |            |         |           | 1902.5             | 19125          | 16.67                 | 17.5                                |   |  |  |  |  |
|         |            |         | 37        | 1857.5             | 18675          | 17.11                 | 17.5                                |   |  |  |  |  |
|         |            |         | 31        | 1880<br>1902.5     | 18900          | 17.38                 | 17.5                                |   |  |  |  |  |
|         |            |         |           |                    | 19125          | 16.65                 | 17.5                                |   |  |  |  |  |
|         |            | 75      | RB        | 1857.5<br>1880     | 18675<br>18900 | 17.18<br>17.34        | 17.5<br>17.5                        | 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0             |  |  |  |  |
|         |            | /3      | ועט       | 1902.5             |                | +                     |                                     |   |  |  |  |  |
|         |            |         |           | 1902.5             | 19125          | 16.72                 | 17.5                                | U   |  |  |  |  |

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|         | FDD Band 2 |         |                       |                    |         |                       |  |   |  |  |  |  |
|---------|------------|---------|-----------------------|--------------------|---------|-----------------------|--|---|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset             | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|         |            |         |                       | 1855               | 18650   | 17.35                 | 17.5   | 0   |  |  |  |  |
|         |            |         | 0                     | 1880               | 18900   | 17.31                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1905               | 19150   | 16.60                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1855               | 18650   | 17.14                 | 17.5   | 0   |  |  |  |  |
|         |            | 1 RB    | 25                    | 1880               | 18900   | 17.25                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1905               | 19150   | 16.58                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1855               | 18650   | 17.00                 | 17.5   | 0   |  |  |  |  |
|         |            |         | 49                    | 1880               | 18900   | 17.16                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1905               | 19150   | 16.84                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1855               | 18650   | 17.26                 | 17.5   | 0   |  |  |  |  |
|         | QPSK       |         | 0                     | 1880               | 18900   | 17.30                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1905               | 19150   | 16.75                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1855               | 18650   | 17.23                 | 17.5   | 0   |  |  |  |  |
|         |            | 25 RB   | 12                    | 1880               | 18900   | 17.23                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1905               | 19150   | 16.67                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1855               | 18650   | 17.18                 | 17.5   | Allowed per 3GPP(dB)  O O O O O O O O O O O O O O O O O O                                   |  |  |  |  |
|         |            |         | 25                    | 1880               | 18900   | 17.26                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1905               | 19150   | 16.78                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1855               | 18650   | 17.23                 | 17.5   | 0   |  |  |  |  |
|         |            | 50      | RB                    | 1880               | 18900   | 17.24                 | 17.5   | 0   |  |  |  |  |
| 10      |            |         |                       | 1905               | 19150   | 16.73                 | 17.5   | 0   |  |  |  |  |
| .0      |            |         | 1855 18650 17.03 17.5 | 17.5               | 0       |                       |  |   |  |  |  |  |
|         |            |         | 0                     | 1880               | 18900   | 17.11                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1905               | 19150   | 16.36                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1855               | 18650   | 17.43                 | 17.5   | 0   |  |  |  |  |
|         |            | 1 RB    | 25                    | 1880               | 18900   | 17.39                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1905               | 19150   | 16.95                 | 17.5   | 0   |  |  |  |  |
|         |            |         |                       | 1855               | 18650   | 17.22                 | 17.5   |   |  |  |  |  |
|         |            |         | 49                    | 1880               | 18900   | 17.39                 | 17.5   |   |  |  |  |  |
|         |            |         |                       | 1905               | 19150   | 16.83                 | 17.5   |   |  |  |  |  |
|         |            |         |                       | 1855               | 18650   | 17.35                 | 17.5   |   |  |  |  |  |
|         | 16-QAM     |         | 0                     | 1880               | 18900   | 17.39                 | 17.5   |   |  |  |  |  |
|         |            |         |                       | 1905               | 19150   | 16.74                 | 17.5   |   |  |  |  |  |
|         |            |         |                       | 1855               | 18650   | 17.36                 | 17.5   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |  |
|         |            | 25 RB   | 12                    | 1880               | 18900   | 17.35                 | 17.5   |   |  |  |  |  |
|         |            |         |                       | 1905               | 19150   | 16.79                 | 17.5   |   |  |  |  |  |
|         |            |         |                       | 1855               | 18650   | 17.22                 | 17.5   |   |  |  |  |  |
|         |            |         | 25                    | 1880               | 18900   | 17.41                 | 17.5   |   |  |  |  |  |
|         |            |         |                       | 1905               | 19150   | 16.80                 | 17.5   |   |  |  |  |  |
|         |            | ==      |                       | 1855               | 18650   | 17.23                 | 17.5   |   |  |  |  |  |
|         |            | 50      | RB                    | 1880               | 18900   | 17.36                 | 17.5   |   |  |  |  |  |
|         |            |         |                       | 1905               | 19150   | 16.63                 | 17.5   | 0   |  |  |  |  |

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|         |            |         |           | FDD Band 2         |         |                       |  |   |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)                              |
|         |            |         |           | 1852.5             | 18625   | 17.22                 | 17.5   | 0   |
|         |            |         | 0         | 1880               | 18900   | 17.19                 | 17.5   | 0   |
|         |            |         |           | 1907.5             | 19175   | 16.57                 | 17.5   | 0   |
|         |            |         |           | 1852.5             | 18625   | 17.10                 | 17.5   | 0   |
|         |            | 1 RB    | 12        | 1880               | 18900   | 17.17                 | 17.5   | 0   |
|         |            |         |           | 1907.5             | 19175   | 16.54                 | 17.5   | 0   |
|         |            |         |           | 1852.5             | 18625   | 17.24                 | 17.5   | 0   |
|         |            |         | 24        | 1880               | 18900   | 17.11                 | 17.5   | 0   |
|         |            |         |           | 1907.5             | 19175   | 16.64                 | 17.5   | 0   |
|         |            |         |           | 1852.5             | 18625   | 17.26                 | 17.5   | 0   |
|         | QPSK       |         | 0         | 1880               | 18900   | 17.21                 | 17.5   | 0   |
|         |            |         |           | 1907.5             | 19175   | 16.60                 | 17.5   | 0   |
|         |            |         |           | 1852.5             | 18625   | 17.21                 | 17.5   | 0   |
|         |            | 12 RB   | 6         | 1880               | 18900   | 17.22                 | 17.5   | 0   |
|         |            |         |           | 1907.5             | 19175   | 16.65                 | 17.5   | 0   |
|         |            |         |           | 1852.5             | 18625   | 17.13                 | 17.5   | Allowed per 3GPP(dB)  O O O O O O O O O O O O O O O O O O O |
|         |            |         | 13        | 1880               | 18900   | 17.21                 | 17.5   | 0   |
|         |            |         |           | 1907.5             | 19175   | 16.73                 | 17.5   | 0   |
|         |            |         |           | 1852.5             | 18625   | 17.20                 | 17.5   | 0   |
|         |            | 25      | RB        | 1880               | 18900   | 17.23                 | 17.5   | 0   |
| 5       |            |         |           | 1907.5             | 19175   | 16.71                 | 17.5   | 0   |
| Ü       |            |         |           | 1852.5             | 18625   | 17.40                 | 17.5   | 0   |
|         |            |         | 0         | 1880               | 18900   | 17.11                 | 17.5   | 0   |
|         |            |         |           | 1907.5             | 19175   | 16.64                 | 17.5   | 0   |
|         |            |         |           | 1852.5             | 18625   | 17.41                 | 17.5   | 0   |
|         |            | 1 RB    | 12        | 1880               | 18900   | 17.32                 | 17.5   | 0   |
|         |            |         |           | 1907.5             | 19175   | 16.66                 | 17.5   | 0   |
|         |            |         |           | 1852.5             | 18625   | 17.37                 | 17.5   |   |
|         |            |         | 24        | 1880               | 18900   | 17.29                 | 17.5   |   |
|         |            |         |           | 1907.5             | 19175   | 17.07                 | 17.5   |   |
|         |            |         |           | 1852.5             | 18625   | 17.32                 | 17.5   |   |
|         | 16-QAM     |         | 0         | 1880               | 18900   | 17.25                 | 17.5   |   |
|         |            |         |           | 1907.5             | 19175   | 16.66                 | 17.5   |   |
|         |            |         |           | 1852.5             | 18625   | 17.25                 | 17.5   |   |
|         |            | 12 RB   | 6         | 1880               | 18900   | 17.20                 | 17.5   |   |
|         |            |         |           | 1907.5             | 19175   | 16.78                 | 17.5   |   |
|         |            |         | 4.5       | 1852.5             | 18625   | 17.23                 | 17.5   |   |
|         |            |         | 13        | 1880               | 18900   | 17.39                 | 17.5   |   |
|         |            |         |           | 1907.5             | 19175   | 16.81                 | 17.5   |   |
|         |            |         |           | 1852.5             | 18625   | 17.19                 | 17.5   |   |
|         | 25         |         | RB        | 1880               | 18900   | 17.30                 | 17.5   |   |
|         |            |         |           | 1907.5             | 19175   | 16.66                 | 17.5   | 0   |

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|         | FDD Band 2 |         |           |                    |         |                       |                                     |   |  |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|---|--|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)                            |  |  |  |  |  |
|         |            |         |           | 1851.5             | 18615   | 17.25                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         | 0         | 1880               | 18900   | 17.17                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 1908.5             | 19185   | 16.69                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 1851.5             | 18615   | 17.06                 | 17.5                                | 0   |  |  |  |  |  |
|         |            | 1 RB    | 7         | 1880               | 18900   | 17.14                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 1908.5             | 19185   | 16.59                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 1851.5             | 18615   | 17.13                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         | 14        | 1880               | 18900   | 17.08                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 1908.5             | 19185   | 16.73                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 1851.5             | 18615   | 17.18                 | 17.5                                | 0   |  |  |  |  |  |
|         | QPSK       |         | 0         | 1880               | 18900   | 17.19                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 1908.5             | 19185   | 16.65                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 1851.5             | 18615   | 17.13                 | 17.5                                | 0   |  |  |  |  |  |
|         |            | 8 RB    | 4         | 1880               | 18900   | 17.15                 | 17.5                                | Allowed per 3GPP(dB)  O O O O O O O O O O O O O O O O O O |  |  |  |  |  |
|         |            |         |           | 1908.5             | 19185   | 16.69                 | 17.5                                |   |  |  |  |  |  |
|         |            |         |           | 1851.5             | 18615   | 17.13                 | 17.5                                |   |  |  |  |  |  |
|         |            |         | 7         | 1880               | 18900   | 17.18                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 1908.5             | 19185   | 16.70                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 1851.5             | 18615   | 17.12                 | 17.5                                | 0   |  |  |  |  |  |
|         |            | 15      | RB        | 1880               | 18900   | 17.21                 | 17.5                                | 0   |  |  |  |  |  |
| 3       |            |         |           | 1908.5             | 19185   | 16.69                 | 17.5                                |   |  |  |  |  |  |
|         |            |         |           | 1851.5             | 18615   | 17.31                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         | 0         | 1880               | 18900   | 17.11                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 1908.5             | 19185   | 16.74                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 1851.5             | 18615   | 16.56                 | 17.5                                | 0   |  |  |  |  |  |
|         |            | 1 RB    | 7         | 1880               | 18900   | 16.98                 | 17.5                                |   |  |  |  |  |  |
|         |            |         |           | 1908.5             | 19185   | 16.93                 | 17.5                                |   |  |  |  |  |  |
|         |            |         |           | 1851.5             | 18615   | 17.33                 | 17.5                                |   |  |  |  |  |  |
|         |            |         | 14        | 1880               | 18900   | 17.42                 | 17.5                                |   |  |  |  |  |  |
|         |            |         |           | 1908.5             | 19185   | 16.86                 | 17.5                                |   |  |  |  |  |  |
|         |            |         | _         | 1851.5             | 18615   | 17.26                 | 17.5                                |   |  |  |  |  |  |
|         | 16-QAM     |         | 0         | 1880               | 18900   | 17.14                 | 17.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 1908.5             | 19185   | 16.75                 | 17.5                                | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |  |  |  |  |  |
|         |            |         | _         | 1851.5             | 18615   | 17.20                 | 17.5                                |   |  |  |  |  |  |
|         |            | 8 RB    | 4         | 1880               | 18900   | 17.29                 | 17.5                                |   |  |  |  |  |  |
|         |            |         |           | 1908.5             | 19185   | 16.74                 | 17.5                                |   |  |  |  |  |  |
|         |            |         | _         | 1851.5             | 18615   | 17.25                 | 17.5                                |   |  |  |  |  |  |
|         |            |         | 7         | 1880               | 18900   | 17.22                 | 17.5                                |   |  |  |  |  |  |
|         |            |         |           | 1908.5             | 19185   | 16.76                 | 17.5                                |   |  |  |  |  |  |
|         |            |         |           | 1851.5             | 18615   | 17.06                 | 17.5                                |   |  |  |  |  |  |
|         | 15R        |         | KR        | 1880               | 18900   | 17.26                 | 17.5                                |   |  |  |  |  |  |
|         |            |         |           | 1908.5             | 19185   | 16.60                 | 17.5                                | 0   |  |  |  |  |  |

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|         | FDD Band 2 |         |           |                    |         |                       |  |   |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)                            |  |  |  |  |
|         |            |         |           | 1850.7             | 18607   | 17.21                 | 17.5   | 0   |  |  |  |  |
|         |            |         | 0         | 1880               | 18900   | 17.37                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1909.3             | 19193   | 16.69                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1850.7             | 18607   | 17.15                 | 17.5   | 0   |  |  |  |  |
|         |            | 1 RB    | 2         | 1880               | 18900   | 17.15                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1909.3             | 19193   | 16.59                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1850.7             | 18607   | 17.19                 | 17.5   | 0   |  |  |  |  |
|         |            |         | 5         | 1880               | 18900   | 17.27                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1909.3             | 19193   | 16.62                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1850.7             | 18607   | 17.16                 | 17.5   | 0   |  |  |  |  |
|         | QPSK       |         | 0         | 1880               | 18900   | 17.23                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1909.3             | 19193   | 16.74                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1850.7             | 18607   | 17.18                 | 17.5   | 0   |  |  |  |  |
|         |            | 3 RB    | 2         | 1880               | 18900   | 17.14                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1909.3             | 19193   | 16.63                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1850.7             | 18607   | 17.25                 | 17.5   | 0   |  |  |  |  |
|         |            |         | 3         | 1880               | 18900   | 17.15                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1909.3             | 19193   | 16.69                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1850.7             | 18607   | 17.22                 | 17.5   | 0   |  |  |  |  |
|         |            | 6F      | RB        | 1880               | 18900   | 17.17                 | 17.5   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |  |  |  |  |
| 1.4     |            |         |           | 1909.3             | 19193   | 16.73                 | 17.5   | 0   |  |  |  |  |
| 1.4     |            |         |           | 1850.7             | 18607   | 16.62                 | 17.5   | 0   |  |  |  |  |
|         |            |         | 0         | 1880               | 18900   | 17.12                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1909.3             | 19193   | 16.97                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1850.7             | 18607   | 17.30                 | 17.5   | 0   |  |  |  |  |
|         |            | 1 RB    | 2         | 1880               | 18900   | 16.57                 | 17.5   |   |  |  |  |  |
| 1       |            |         |           | 1909.3             | 19193   | 16.62                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1850.7             | 18607   | 17.32                 | 17.5   | 0   |  |  |  |  |
|         |            |         | 5         | 1880               | 18900   | 17.42                 | 17.5   |   |  |  |  |  |
|         |            |         |           | 1909.3             | 19193   | 16.99                 | 17.5   |   |  |  |  |  |
|         |            |         |           | 1850.7             | 18607   | 17.33                 | 17.5   |   |  |  |  |  |
|         | 16-QAM     |         | 0         | 1880               | 18900   | 16.99                 | 17.5   | 0   |  |  |  |  |
|         |            |         |           | 1909.3             | 19193   | 16.68                 | 17.5   |   |  |  |  |  |
|         |            |         |           | 1850.7             | 18607   | 17.29                 | 17.5   |   |  |  |  |  |
|         |            | 3 RB    | 2         | 1880               | 18900   | 17.12                 | 17.5   |   |  |  |  |  |
|         |            |         |           | 1909.3             | 19193   | 16.57                 | 17.5   |   |  |  |  |  |
|         |            |         |           | 1850.7             | 18607   | 17.18                 | 17.5   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |  |  |  |  |
|         |            |         | 3         | 1880               | 18900   | 17.38                 | 17.5   |   |  |  |  |  |
|         |            |         |           | 1909.3             | 19193   | 16.68                 | 17.5   |   |  |  |  |  |
|         |            |         | 20        | 1850.7             | 18607   | 17.16                 | 17.5   |   |  |  |  |  |
|         | 6RI        |         | KR        | 1880               | 18900   | 17.21                 | 17.5   |   |  |  |  |  |
|         |            |         |           | 1909.3             | 19193   | 16.80                 | 17.5   | Ü   |  |  |  |  |

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|         | FDD Band 4 |         |           |                    |         |                       |                                     |   |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|---|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 18.33                 | 18.5                                | 0   |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 18.27                 | 18.5                                | 0   |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 18.31                 | 18.5                                | 0   |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 18.35                 | 18.5                                | 0   |  |  |  |  |
|         |            | 1 RB    | 50        | 1732.5             | 20175   | 18.13                 | 18.5                                | 0   |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 18.22                 | 18.5                                | 0   |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 18.20                 | 18.5                                | 0   |  |  |  |  |
|         |            |         | 99        | 1732.5             | 20175   | 18.12                 | 18.5                                | 0   |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 18.41                 | 18.5                                | 0   |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 18.22                 | 18.5                                | 0   |  |  |  |  |
|         | QPSK       |         | 0         | 1732.5             | 20175   | 18.18                 | 18.5                                | 0   |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 18.25                 | 18.5                                | 0   |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 18.33                 | 18.5                                | 0   |  |  |  |  |
|         |            | 50 RB   | 25        | 1732.5             | 20175   | 18.16                 | 18.5                                | 0   |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 18.28                 | 18.5                                | 0   |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 18.23                 | 18.5                                | 0   |  |  |  |  |
|         |            |         | 50        | 1732.5             | 20175   | 18.07                 | 18.5                                | 0   |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 18.36                 | 18.5                                | 0   |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 18.31                 | 18.5                                | 0   |  |  |  |  |
|         |            | 100     | )RB       | 1732.5             | 20175   | 18.23                 | 18.5                                |   |  |  |  |  |
| 20      |            |         |           | 1745               | 20300   | 18.48                 | 18.5                                |   |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 18.30                 | 18.5                                | 0   |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 17.71                 | 18.5                                | 0   |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 18.44                 | 18.5                                | 0   |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 18.24                 | 18.5                                | 0   |  |  |  |  |
|         |            | 1 RB    | 50        | 1732.5             | 20175   | 18.45                 | 18.5                                |   |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 18.44                 | 18.5                                |   |  |  |  |  |
|         |            |         |           | 1720               | 20050   | 18.14                 | 18.5                                |   |  |  |  |  |
|         |            |         | 99        | 1732.5             | 20175   | 17.53                 | 18.5                                |   |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 18.33                 | 18.5                                |   |  |  |  |  |
|         |            |         | _         | 1720               | 20050   | 18.25                 | 18.5                                |   |  |  |  |  |
|         | 16-QAM     |         | 0         | 1732.5             | 20175   | 18.33                 | 18.5                                |   |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 18.30                 | 18.5                                |   |  |  |  |  |
|         |            | 50.55   | 0.5       | 1720               | 20050   | 18.19                 | 18.5                                |   |  |  |  |  |
|         |            | 50 RB   | 25        | 1732.5             | 20175   | 18.08                 | 18.5                                |   |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 18.36                 | 18.5                                |   |  |  |  |  |
|         |            |         | 50        | 1720               | 20050   | 18.13                 | 18.5                                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |  |
|         |            |         | 50        | 1732.5             | 20175   | 18.10                 | 18.5                                |   |  |  |  |  |
|         |            |         |           | 1745               | 20300   | 18.37                 | 18.5                                |   |  |  |  |  |
|         |            | 400     | NDD       | 1720               | 20050   | 18.28                 | 18.5                                |   |  |  |  |  |
|         | 100        |         | IKB       | 1732.5             | 20175   | 18.31                 | 18.5                                |   |  |  |  |  |
|         | <u> </u>   |         |           | 1745               | 20300   | 18.44                 | 18.5                                | U   |  |  |  |  |

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|         | FDD Band 4 |         |           |                    |         |                       |  |   |  |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 18.15                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 18.28                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 18.24                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 18.18                 | 18.5   | 0   |  |  |  |  |  |
|         |            | 1 RB    | 36        | 1732.5             | 20175   | 18.12                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 18.39                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 18.21                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         | 74        | 1732.5             | 20175   | 18.02                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 18.30                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 18.18                 | 18.5   | 0   |  |  |  |  |  |
|         | QPSK       |         | 0         | 1732.5             | 20175   | 18.22                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 18.31                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 18.27                 | 18.5   | ax. Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                               |  |  |  |  |  |
|         |            | 36 RB   | 18        | 1732.5             | 20175   | 18.10                 | 18.5   |   |  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 18.41                 | 18.5   |   |  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 18.24                 | 18.5   |   |  |  |  |  |  |
|         |            |         | 37        | 1732.5             | 20175   | 18.13                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 18.43                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 18.32                 | 18.5   | 0   |  |  |  |  |  |
|         |            | 75      | RB        | 1732.5             | 20175   | 18.14                 | 18.5   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |  |  |
| 15      |            |         |           | 1747.5             | 20325   | 18.42                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 18.10                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 18.18                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 18.33                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 18.44                 | 18.5   | 0   |  |  |  |  |  |
|         |            | 1 RB    | 36        | 1732.5             | 20175   | 18.27                 | 18.5   | Allowed per 3GPP(dB)  O O O O O O O O O O O O O O O O O O                                   |  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 18.39                 | 18.5   |   |  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 18.42                 | 18.5   |   |  |  |  |  |  |
|         |            |         | 74        | 1732.5             | 20175   | 18.23                 | 18.5   |   |  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 18.44                 | 18.5   |   |  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 18.18                 | 18.5   |   |  |  |  |  |  |
|         | 16-QAM     |         | 0         | 1732.5             | 20175   | 18.30                 | 18.5   | 0   |  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 18.39                 | 18.5   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               |  |  |  |  |  |
|         |            |         |           | 1717.5             | 20025   | 18.26                 | 18.5   |   |  |  |  |  |  |
|         |            | 36 RB   | 18        | 1732.5             | 20175   | 18.21                 | 18.5   |   |  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 18.43                 | 18.5   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |  |  |
|         |            |         | 07        | 1717.5             | 20025   | 18.19                 | 18.5   |   |  |  |  |  |  |
|         |            |         | 37        | 1732.5             | 20175   | 18.27                 | 18.5   |   |  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 18.43                 | 18.5   |   |  |  |  |  |  |
|         |            |         | DD        | 1717.5             | 20025   | 18.32                 | 18.5   |   |  |  |  |  |  |
|         | 75R        |         | KR        | 1732.5             | 20175   | 18.23                 | 18.5   |   |  |  |  |  |  |
|         |            |         |           | 1747.5             | 20325   | 18.46                 | 18.5   | 0   |  |  |  |  |  |

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|         | FDD Band 4 |         |           |                    |         |                       |                                     |                                |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|--------------------------------|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |  |
|         |            |         |           | 1715               | 20000   | 18.06                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 18.17                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1750               | 20350   | 18.44                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1715               | 20000   | 18.14                 | 18.5                                | 0                              |  |  |  |  |
|         |            | 1 RB    | 25        | 1732.5             | 20175   | 17.94                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1750               | 20350   | 18.38                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1715               | 20000   | 18.13                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         | 49        | 1732.5             | 20175   | 18.14                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1750               | 20350   | 18.45                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1715               | 20000   | 18.12                 | 18.5                                | 0                              |  |  |  |  |
|         | QPSK       |         | 0         | 1732.5             | 20175   | 18.18                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1750               | 20350   | 18.41                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1715               | 20000   | 18.13                 | 18.5                                | 0                              |  |  |  |  |
|         |            | 25 RB   | 12        | 1732.5             | 20175   | 18.09                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1750               | 20350   | 18.46                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1715               | 20000   | 18.26                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         | 25        | 1732.5             | 20175   | 18.11                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1750               | 20350   | 18.42                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1715               | 20000   | 18.19                 | 18.5                                | 0                              |  |  |  |  |
|         |            | 50      | RB        | 1732.5             | 20175   | 18.14                 | 18.5                                | 0                              |  |  |  |  |
| 10      |            |         | 1         | 1750               | 20350   | 18.42                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1715               | 20000   | 18.26                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 18.07                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1750               | 20350   | 18.44                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1715               | 20000   | 18.10                 | 18.5                                | 0                              |  |  |  |  |
|         |            | 1 RB    | 25        | 1732.5             | 20175   | 17.54                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1750               | 20350   | 18.45                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         | 40        | 1715               | 20000   | 18.30                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         | 49        | 1732.5             | 20175   | 18.15                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1750               | 20350   | 18.34                 | 18.5                                | 0                              |  |  |  |  |
|         | 46.044     |         | _         | 1715               | 20000   | 18.28                 | 18.5                                | 0                              |  |  |  |  |
|         | 16-QAM     |         | 0         | 1732.5             | 20175   | 18.20                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1750               | 20350   | 18.35                 | 18.5                                | 0                              |  |  |  |  |
|         |            | 25 DD   | 10        | 1715               | 20000   | 18.16                 | 18.5                                | 0                              |  |  |  |  |
|         |            | 25 RB   | 12        | 1732.5             | 20175   | 18.18                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1750<br>1715       | 20350   | 18.46                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         | 25        | 1715               | 20000   | 18.35                 | 18.5<br>18.5                        | 0                              |  |  |  |  |
|         |            |         | 25        | 1732.5             | 20175   | 18.11<br>18.42        | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1750               | 20000   | 18.27                 | 18.5                                | 0                              |  |  |  |  |
|         |            | 50RB    |           | 1732.5             | 20175   | 18.21                 | 18.5                                | 0                              |  |  |  |  |
|         | 50R        |         | IND       | 1752.5             | 20350   | 18.46                 | 18.5                                | 0                              |  |  |  |  |
|         |            |         |           | 1730               | 20330   | 10.40                 | 10.0                                | U                              |  |  |  |  |

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|         | FDD Band 4 |         |           |                    |         |                       |  |   |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 18.03                 | 18.5   | 0   |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 18.12                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 18.36                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 18.03                 | 18.5   | 0   |  |  |  |  |
|         |            | 1 RB    | 12        | 1732.5             | 20175   | 18.09                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 18.27                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 18.02                 | 18.5   | 0   |  |  |  |  |
|         |            |         | 24        | 1732.5             | 20175   | 17.91                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 18.39                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 18.00                 | 18.5   | 0   |  |  |  |  |
|         | QPSK       |         | 0         | 1732.5             | 20175   | 18.02                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 18.29                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 18.02                 | 18.5   | 0   |  |  |  |  |
|         |            | 12 RB   | 6         | 1732.5             | 20175   | 18.01                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 18.33                 | 18.5   | Allowed per 3GPP(dB)  Allowed per 3GPP(dB)  O  O  O  O  O  O  O  O  O  O  O  O  O           |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 18.03                 | 18.5   |   |  |  |  |  |
|         |            |         | 13        | 1732.5             | 20175   | 18.05                 | 18.5   |   |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 18.34                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 18.03                 | 18.5   | 0   |  |  |  |  |
|         |            | 25      | RB        | 1732.5             | 20175   | 18.11                 | 18.5   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |  |
| 5       |            |         |           | 1752.5             | 20375   | 18.32                 | 18.5   | 0   |  |  |  |  |
| · ·     |            |         |           | 1712.5             | 19975   | 18.15                 | 18.5   | 0   |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 18.01                 | 18.5   |   |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 18.42                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 17.60                 | 18.5   | 0   |  |  |  |  |
|         |            | 1 RB    | 12        | 1732.5             | 20175   | 18.35                 | 18.5   |   |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 18.01                 | 18.5   |   |  |  |  |  |
|         |            |         |           | 1712.5             | 19975   | 18.13                 | 18.5   |   |  |  |  |  |
|         |            |         | 24        | 1732.5             | 20175   | 18.26                 | 18.5   |   |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 18.34                 | 18.5   |   |  |  |  |  |
|         |            |         | _         | 1712.5             | 19975   | 18.02                 | 18.5   |   |  |  |  |  |
|         | 16-QAM     |         | 0         | 1732.5             | 20175   | 18.02                 | 18.5   |   |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 18.32                 | 18.5   |   |  |  |  |  |
|         |            | 40.55   |           | 1712.5             | 19975   | 18.07                 | 18.5   |   |  |  |  |  |
|         |            | 12 RB   | 6         | 1732.5             | 20175   | 18.09                 | 18.5   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 18.41                 | 18.5   |   |  |  |  |  |
|         |            |         | 40        | 1712.5             | 19975   | 18.06                 | 18.5   |   |  |  |  |  |
|         |            |         | 13        | 1732.5             | 20175   | 18.14                 | 18.5   |   |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 18.44                 | 18.5   |   |  |  |  |  |
|         |            | ٥٢      | DD        | 1712.5             | 19975   | 18.09                 | 18.5   |   |  |  |  |  |
|         |            |         | RB        | 1732.5             | 20175   | 18.17                 | 18.5   |   |  |  |  |  |
|         |            |         |           | 1752.5             | 20375   | 18.34                 | 18.5   | U   |  |  |  |  |

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|         | FDD Band 4 |         |           |                    |         |                       |  |   |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|         |            |         |           | 1711.5             | 19965   | 17.98                 | 18.5   | 0   |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 18.28                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1753.5             | 20385   | 18.34                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1711.5             | 19965   | 17.93                 | 18.5   | 0   |  |  |  |  |
|         |            | 1 RB    | 7         | 1732.5             | 20175   | 18.18                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1753.5             | 20385   | 18.34                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1711.5             | 19965   | 17.91                 | 18.5   | 0   |  |  |  |  |
|         |            |         | 14        | 1732.5             | 20175   | 18.13                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1753.5             | 20385   | 18.27                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1711.5             | 19965   | 18.01                 | 18.5   | 0   |  |  |  |  |
|         | QPSK       |         | 0         | 1732.5             | 20175   | 18.12                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1753.5             | 20385   | 18.42                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1711.5             | 19965   | 17.94                 | 18.5   | 0   |  |  |  |  |
|         |            | 8 RB    | 4         | 1732.5             | 20175   | 18.11                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1753.5             | 20385   | 18.38                 | 18.5   | Allowed per 3GPP(dB)  Allowed per 3GPP(dB)  O O O O O O O O O O O O O O O O O O |  |  |  |  |
|         |            |         |           | 1711.5             | 19965   | 18.06                 | 18.5   |   |  |  |  |  |
|         |            |         | 7         | 1732.5             | 20175   | 18.14                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1753.5             | 20385   | 18.43                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1711.5             | 19965   | 17.98                 | 18.5   | 0   |  |  |  |  |
|         |            | 15      | RB        | 1732.5             | 20175   | 18.11                 | 18.5   | 0   |  |  |  |  |
| 3       |            |         |           | 1753.5             | 20385   | 18.42                 | 18.5   | 0   |  |  |  |  |
|         |            |         | 0         | 1711.5             | 19965   | 18.31                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1732.5             | 20175   | 18.11                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1753.5             | 20385   | 18.33                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1711.5             | 19965   | 18.31                 | 18.5   | 0   |  |  |  |  |
|         |            | 1 RB    | 7         | 1732.5             | 20175   | 17.55                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1753.5             | 20385   | 18.04                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1711.5             | 19965   | 17.63                 | 18.5   | 0   |  |  |  |  |
|         |            |         | 14        | 1732.5             | 20175   | 18.16                 | 18.5   | Allowed per 3GPP(dB)  O O O O O O O O O O O O O O O O O O                       |  |  |  |  |
|         |            |         |           | 1753.5             | 20385   | 18.38                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1711.5             | 19965   | 18.09                 | 18.5   | 0   |  |  |  |  |
|         | 16-QAM     |         | 0         | 1732.5             | 20175   | 18.15                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1753.5             | 20385   | 18.45                 | 18.5   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                       |  |  |  |  |
|         |            |         |           | 1711.5             | 19965   | 17.92                 | 18.5   | 0   |  |  |  |  |
|         |            | 8 RB    | 4         | 1732.5             | 20175   | 18.10                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1753.5             | 20385   | 18.45                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1711.5             | 19965   | 18.06                 | 18.5   |   |  |  |  |  |
|         |            |         | 7         | 1732.5             | 20175   | 18.16                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1753.5             | 20385   | 18.44                 | 18.5   |   |  |  |  |  |
|         |            |         |           | 1711.5             | 19965   | 18.01                 | 18.5   | 0   |  |  |  |  |
|         |            | 15RB    |           | 1732.5             | 20175   | 18.29                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1753.5             | 20385   | 18.44                 | 18.5   | 0   |  |  |  |  |

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|         | FDD Band 4 |         |           |                    |         |                       |  |   |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|
|         |            |         |           | , DD Dana 4        |         |                       |  |   |  |  |  |  |
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 17.99                 | 18.5   | 0   |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 18.10                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 18.46                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 17.93                 | 18.5   | 0   |  |  |  |  |
|         |            | 1 RB    | 2         | 1732.5             | 20175   | 18.09                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 18.44                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 17.94                 | 18.5   | 0   |  |  |  |  |
|         |            |         | 5         | 1732.5             | 20175   | 18.01                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 18.41                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 17.98                 | 18.5   | 0   |  |  |  |  |
|         | QPSK       |         | 0         | 1732.5             | 20175   | 18.04                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 18.36                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 17.86                 | 18.5   | 0   |  |  |  |  |
|         |            | 3 RB    | 2         | 1732.5             | 20175   | 18.04                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 18.41                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 17.85                 | 18.5   | Allowed per 3GPP(dB)  O O O O O O O O O O O O O O O O O O                                   |  |  |  |  |
|         |            |         | 3         | 1732.5             | 20175   | 18.07                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 18.34                 | 18.5   | 0   |  |  |  |  |
|         |            |         | •         | 1710.7             | 19957   | 17.97                 | 18.5   | 0   |  |  |  |  |
|         |            | 6F      | RB        | 1732.5             | 20175   | 18.12                 | 18.5   | 0   |  |  |  |  |
| 1.4     |            |         |           | 1754.3             | 20393   | 18.46                 | 18.5   | 0   |  |  |  |  |
| 1.4     |            |         |           | 1710.7             | 19957   | 18.01                 | 18.5   | 0   |  |  |  |  |
|         |            |         | 0         | 1732.5             | 20175   | 17.89                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 18.30                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 18.26                 | 18.5   | 0   |  |  |  |  |
|         |            | 1 RB    | 2         | 1732.5             | 20175   | 18.45                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 18.19                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 17.60                 | 18.5   | 0   |  |  |  |  |
|         |            |         | 5         | 1732.5             | 20175   | 18.05                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 18.33                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 17.95                 | 18.5   | 0   |  |  |  |  |
|         | 16-QAM     |         | 0         | 1732.5             | 20175   | 18.21                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 18.37                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 17.92                 | 18.5   | 0   |  |  |  |  |
|         |            | 3 RB    | 2         | 1732.5             | 20175   | 18.27                 | 18.5   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 18.44                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 17.82                 | 18.5   | 0   |  |  |  |  |
|         |            |         | 3         | 1732.5             | 20175   | 18.10                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 18.36                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1710.7             | 19957   | 17.91                 | 18.5   | 0   |  |  |  |  |
|         |            | 6RB     |           | 1732.5             | 20175   | 18.06                 | 18.5   | 0   |  |  |  |  |
|         |            |         |           | 1754.3             | 20393   | 18.45                 | 18.5   | 0   |  |  |  |  |

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|         | FDD Band 5 |         |           |                    |                |                       |                                     |   |  |  |  |  |  |
|---------|------------|---------|-----------|--------------------|----------------|-----------------------|-------------------------------------|---|--|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel        | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |  |
|         |            |         |           | 920                | 20450          | 22.16                 | ` '                                 | 0   |  |  |  |  |  |
|         |            |         | 0         | 829                | 20450          |                       | 22.5                                |   |  |  |  |  |  |
|         |            |         | U         | 836.5<br>844       | 20525          | 22.34<br>22.48        | 22.5<br>22.5                        | _   |  |  |  |  |  |
|         |            |         |           | 829                | 20600<br>20450 | 22.40                 | 22.5                                |   |  |  |  |  |  |
|         |            | 1 RB    | 25        | 836.5              | 20430          | 22.11                 | 22.5                                |   |  |  |  |  |  |
|         |            | TIND    | 23        | 844                | 20600          | 22.26                 | 22.5                                |   |  |  |  |  |  |
|         |            |         |           | 829                | 20450          | 22.26                 | 22.5                                |   |  |  |  |  |  |
|         |            |         | 49        | 836.5              | 20525          | 22.29                 | 22.5                                |   |  |  |  |  |  |
|         |            |         | 45        | 844                | 20600          | 22.43                 | 22.5                                |   |  |  |  |  |  |
|         |            |         |           | 829                | 20450          | 21.36                 | 21.5                                |   |  |  |  |  |  |
|         | QPSK       |         | 0         | 836.5              | 20525          | 21.33                 | 21.5                                |   |  |  |  |  |  |
|         | Q. O.      |         | Ŭ         | 844                | 20600          | 21.49                 | 21.5                                |   |  |  |  |  |  |
|         |            |         |           | 829                | 20450          | 21.42                 | 21.5                                | <b>-</b>  |  |  |  |  |  |
|         |            | 25 RB   | 12        | 836.5              | 20525          | 21.43                 | 21.5                                | <b>-</b>  |  |  |  |  |  |
|         |            | 20 112  |           | 844                | 20600          | 21.48                 | 21.5                                |   |  |  |  |  |  |
|         |            |         |           | 829                | 20450          | 21.45                 | 21.5                                |   |  |  |  |  |  |
|         |            |         | 25        | 836.5              | 20525          | 21.40                 | 21.5                                |   |  |  |  |  |  |
|         |            |         |           | 844                | 20600          | 21.39                 | 21.5                                |   |  |  |  |  |  |
|         |            |         |           | 829                | 20450          | 21.48                 | 21.5                                |   |  |  |  |  |  |
|         |            | 50      | RB        | 836.5              | 20525          | 21.40                 | 21.5                                |   |  |  |  |  |  |
|         |            |         |           | 844                | 20600          | 21.47                 | 21.5                                |   |  |  |  |  |  |
| 10      |            |         |           | 829                | 20450          | 21.38                 | 21.5                                |   |  |  |  |  |  |
|         |            |         | 0         | 836.5              | 20525          | 21.28                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 844                | 20600          | 21.46                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 829                | 20450          | 21.35                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            | 1 RB    | 25        | 836.5              | 20525          | 21.00                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 844                | 20600          | 21.49                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 829                | 20450          | 21.50                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         | 49        | 836.5              | 20525          | 21.31                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 844                | 20600          | 21.48                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 829                | 20450          | 20.31                 | 20.5                                | 0-2   |  |  |  |  |  |
|         | 16-QAM     |         | 0         | 836.5              | 20525          | 20.46                 | 20.5                                | 0-2   |  |  |  |  |  |
|         |            |         |           | 844                | 20600          | 20.43                 | 20.5                                | 0-2   |  |  |  |  |  |
|         |            |         |           | 829                | 20450          | 20.30                 | 20.5                                | 0-2   |  |  |  |  |  |
|         |            | 25 RB   | 12        | 836.5              | 20525          | 20.34                 | 20.5                                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0- |  |  |  |  |  |
|         |            |         |           | 844                | 20600          | 20.43                 | 20.5                                | 0-2   |  |  |  |  |  |
|         |            |         |           | 829                | 20450          | 20.40                 | 20.5                                | 0<br>0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-          |  |  |  |  |  |
|         |            |         | 25        | 836.5              | 20525          | 20.32                 | 20.5                                | 0-2   |  |  |  |  |  |
|         |            |         |           | 844                | 20600          | 20.42                 | 20.5                                | 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1   |  |  |  |  |  |
|         |            |         |           | 829                | 20450          | 20.41                 | 20.5                                |   |  |  |  |  |  |
|         |            | 500RB   |           | 836.5              | 20525          | 20.34                 | 20.5                                | 0-2   |  |  |  |  |  |
|         |            |         |           | 844                | 20600          | 20.34                 | 20.5                                | 0-2   |  |  |  |  |  |

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|         | FDD Band 5 |         |           |                    |         |                       |                                     |   |  |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|---|--|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 22.06                 | 22.5                                | 0   |  |  |  |  |  |
|         |            |         | 0         | 836.5              | 20525   | 22.32                 | 22.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 22.34                 | 22.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 21.97                 | 22.5                                | 0   |  |  |  |  |  |
|         |            | 1 RB    | 12        | 836.5              | 20525   | 22.18                 | 22.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 22.12                 | 22.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 22.17                 | 22.5                                | 0   |  |  |  |  |  |
|         |            |         | 24        | 836.5              | 20525   | 22.21                 | 22.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 22.34                 | 22.5                                | 0   |  |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 21.21                 | 21.5                                | 0-1   |  |  |  |  |  |
|         | QPSK       |         | 0         | 836.5              | 20525   | 21.14                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 21.37                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 21.34                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            | 12 RB   | 6         | 836.5              | 20525   | 21.25                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 21.47                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 21.25                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         | 13        | 836.5              | 20525   | 21.30                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 21.29                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 21.31                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            | 25      | RB        | 836.5              | 20525   | 21.38                 | 21.5                                | 0-1   |  |  |  |  |  |
| 5       |            |         |           | 846.5              | 20625   | 21.43                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         | 0         | 826.5              | 20425   | 21.34                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         | 0         | 836.5              | 20525   | 21.15                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 21.26                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 21.26                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            | 1 RB    | 12        | 836.5              | 20525   | 20.82                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 21.44                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         |           | 826.5              | 20425   | 21.43                 | 21.5                                | 0-1   |  |  |  |  |  |
|         |            |         | 24        | 836.5              | 20525   | 21.20                 | 21.5                                |   |  |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 21.38                 | 21.5                                |   |  |  |  |  |  |
|         |            |         | _         | 826.5              | 20425   | 20.20                 | 20.5                                | 0-2   |  |  |  |  |  |
|         | 16-QAM     |         | 0         | 836.5              | 20525   | 20.31                 | 20.5                                | 0-2   |  |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 20.42                 | 20.5                                | 0-2   |  |  |  |  |  |
|         |            |         | _         | 826.5              | 20425   | 20.29                 | 20.5                                | 0-2   |  |  |  |  |  |
|         |            | 12 RB   | 6         | 836.5              | 20525   | 20.29                 | 20.5                                |   |  |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 20.42                 | 20.5                                | 0-2   |  |  |  |  |  |
|         |            |         | 4.5       | 826.5              | 20425   | 20.20                 | 20.5                                | 0-2   |  |  |  |  |  |
|         |            |         | 13        | 836.5              | 20525   | 20.31                 | 20.5                                | 0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-2<br>0-2<br>0-2<br>0-2<br>0-2<br>0-2<br>0-2<br>0-2 |  |  |  |  |  |
|         |            |         |           | 846.5<br>826.5     | 20625   | 20.32                 | 20.5                                | 0-2   |  |  |  |  |  |
|         |            |         |           |                    | 20425   | 20.40                 | 20.5                                | 0-2   |  |  |  |  |  |
|         | 25F        |         | KR        | 836.5              | 20525   | 20.23                 | 20.5                                | 0-2   |  |  |  |  |  |
|         |            |         |           | 846.5              | 20625   | 20.24                 | 20.5                                | 0-2   |  |  |  |  |  |

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|         | FDD Band 5 |         |           |                    |         |                       |  |  |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--|--|--|--|--|
|         |            |         |           | , DD Dana o        |         |                       |  |  |  |  |  |  |
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)   |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 22.06                 | 22.5   | 0  |  |  |  |  |
|         |            |         | 0         | 836.5              | 20525   | 22.16                 | 22.5   | 0  |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 22.31                 | 22.5   | 0  |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 22.03                 | 22.5   | 0  |  |  |  |  |
|         |            | 1 RB    | 7         | 836.5              | 20525   | 22.16                 | 22.5   | 0  |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 22.14                 | 22.5   | 0  |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 22.24                 | 22.5   | 0  |  |  |  |  |
|         |            |         | 14        | 836.5              | 20525   | 22.22                 | 22.5   | 0  |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 22.42                 | 22.5   | 0  |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 21.17                 | 21.5   | 0-1  |  |  |  |  |
|         | QPSK       |         | 0         | 836.5              | 20525   | 21.31                 | 21.5   | 0-1  |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 21.36                 | 21.5   | 0-1  |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 21.32                 | 21.5   | 0-1  |  |  |  |  |
|         |            | 8 RB    | 4         | 836.5              | 20525   | 21.25                 | 21.5   | 0-1  |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 21.39                 | 21.5   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 21.29                 | 21.5   |  |  |  |  |  |
|         |            |         | 7         | 836.5              | 20525   | 21.39                 | 21.5   | 0-1  |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 21.38                 | 21.5   | 0-1  |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 21.33                 | 21.5   | 0-1  |  |  |  |  |
|         |            | 15      | RB        | 836.5              | 20525   | 21.31                 | 21.5   | 0-1  |  |  |  |  |
| 3       |            |         |           | 847.5              | 20635   | 21.40                 | 21.5   | 0-1  |  |  |  |  |
|         |            |         |           | 21.5               | 0-1     |                       |  |  |  |  |  |  |
|         |            |         | 0         | 836.5              | 20525   | 21.16                 | 21.5   | 0-1  |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 21.29                 | 21.5   |  |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 21.22                 | 21.5   |  |  |  |  |  |
|         |            | 1 RB    | 7         | 836.5              | 20525   | 20.93                 | 21.5   |  |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 21.39                 | 21.5   |  |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 21.41                 | 21.5   |  |  |  |  |  |
|         |            |         | 14        | 836.5              | 20525   | 21.17                 | 21.5   |  |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 21.39                 | 21.5   |  |  |  |  |  |
|         |            |         |           | 825.5              | 20415   | 20.17                 | 20.5   |  |  |  |  |  |
|         | 16-QAM     |         | 0         | 836.5              | 20525   | 20.35                 | 20.5   |  |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 20.34                 | 20.5   |  |  |  |  |  |
|         |            | 0.00    | ,         | 825.5              | 20415   | 20.13                 | 20.5   |  |  |  |  |  |
|         |            | 8 RB    | 4         | 836.5              | 20525   | 20.15                 | 20.5   | 0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1 |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 20.36                 | 20.5   |  |  |  |  |  |
|         |            |         | 7         | 825.5              | 20415   | 20.24                 | 20.5   |  |  |  |  |  |
|         |            |         | 7         | 836.5              | 20525   | 20.22                 | 20.5   |  |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 20.36                 | 20.5   |  |  |  |  |  |
|         |            | 4.5     | DD        | 825.5              | 20415   | 20.29                 | 20.5   |  |  |  |  |  |
|         |            | 15      | RB        | 836.5              | 20525   | 20.21                 | 20.5   |  |  |  |  |  |
|         |            |         |           | 847.5              | 20635   | 20.28                 | 20.5   | 0-2  |  |  |  |  |

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|         | FDD Band 5 |         |           |                    |         |                       |  |   |  |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|--|
|         |            |         |           | . DD Dana 0        |         |                       |  |   |  |  |  |  |  |
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |  |
|         |            |         |           | 824.7              | 20407   | 22.08                 | 22.5   | 0   |  |  |  |  |  |
|         |            |         | 0         | 836.5              | 20525   | 22.30                 | 22.5   | 0   |  |  |  |  |  |
|         |            |         |           | 848.3              | 20643   | 22.45                 | 22.5   | 0   |  |  |  |  |  |
|         |            |         |           | 824.7              | 20407   | 21.94                 | 22.5   | 0   |  |  |  |  |  |
|         |            | 1 RB    | 2         | 836.5              | 20525   | 22.20                 | 22.5   | 0   |  |  |  |  |  |
|         |            |         |           | 848.3              | 20643   | 22.07                 | 22.5   | 0   |  |  |  |  |  |
|         |            |         |           | 824.7              | 20407   | 22.06                 | 22.5   | 0   |  |  |  |  |  |
|         |            |         | 5         | 836.5              | 20525   | 22.09                 | 22.5   | 0   |  |  |  |  |  |
|         |            |         |           | 848.3              | 20643   | 22.40                 | 22.5   | 0   |  |  |  |  |  |
|         |            |         |           | 824.7              | 20407   | 21.25                 | 22.5   | 0   |  |  |  |  |  |
|         | QPSK       |         | 0         | 836.5              | 20525   | 21.21                 | 22.5   | 0   |  |  |  |  |  |
|         |            |         |           | 848.3              | 20643   | 21.39                 | 22.5   | 0   |  |  |  |  |  |
|         |            |         |           | 824.7              | 20407   | 21.36                 | 22.5   | 0   |  |  |  |  |  |
|         |            | 3 RB    | 2         | 836.5              | 20525   | 21.27                 | 22.5   | 0   |  |  |  |  |  |
|         |            |         |           | 848.3              | 20643   | 21.30                 | 22.5   | 0   |  |  |  |  |  |
|         |            |         |           | 824.7              | 20407   | 21.30                 | 22.5   | 0   |  |  |  |  |  |
|         |            |         | 3         | 836.5              | 20525   | 21.32                 | 22.5   | 0   |  |  |  |  |  |
|         |            |         |           | 848.3              | 20643   | 21.19                 | 22.5   | 0   |  |  |  |  |  |
|         |            |         |           | 824.7              | 20407   | 21.42                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            | 6F      | ₹B        | 836.5              | 20525   | 21.38                 | 21.5   | 0-1   |  |  |  |  |  |
| 1.4     |            |         |           | 848.3              | 20643   | 21.38                 | 21.5   | 0-1   |  |  |  |  |  |
| 1.4     |            |         |           | 824.7              | 20407   | 21.26                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            |         | 0         | 836.5              | 20525   | 21.24                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            |         |           | 848.3              | 20643   | 21.26                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            |         |           | 824.7              | 20407   | 21.28                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            | 1 RB    | 2         | 836.5              | 20525   | 20.92                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            |         |           | 848.3              | 20643   | 21.29                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            |         |           | 824.7              | 20407   | 21.31                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            |         | 5         | 836.5              | 20525   | 21.26                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            |         |           | 848.3              | 20643   | 21.45                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            |         |           | 824.7              | 20407   | 20.14                 | 21.5   | 0-1   |  |  |  |  |  |
|         | 16-QAM     |         | 0         | 836.5              | 20525   | 20.30                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            |         |           | 848.3              | 20643   | 20.31                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            |         |           | 824.7              | 20407   | 20.20                 | 21.5   | 0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0- |  |  |  |  |  |
|         |            | 3 RB    | 2         | 836.5              | 20525   | 20.30                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            |         |           | 848.3              | 20643   | 20.27                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            |         |           | 824.7              | 20407   | 20.26                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            |         | 3         | 836.5              | 20525   | 20.31                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            |         |           | 848.3              | 20643   | 20.40                 | 21.5   | 0-1   |  |  |  |  |  |
|         |            |         | _         | 824.7              | 20407   | 20.30                 | 20.5   | 0-2   |  |  |  |  |  |
|         |            | 6F      | RB        | 836.5              | 20525   | 20.28                 | 20.5   | 0-2   |  |  |  |  |  |
|         |            |         |           | 848.3              | 20643   | 20.25                 | 20.5   | 0-2   |  |  |  |  |  |

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| FDD Band 7 |            |         |           |                    |         |                       |  |   |  |  |  |
|------------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)                            |  |  |  |
|            |            |         |           | 2510               | 20850   | 16.87                 | 17   | 0   |  |  |  |
|            |            |         | 0         | 2535               | 21100   | 17.00                 | 17   | 0   |  |  |  |
|            |            |         |           | 2560               | 21350   | 16.89                 | 17   | 0   |  |  |  |
|            |            |         |           | 2510               | 20850   | 16.70                 | 17   | 0   |  |  |  |
|            |            | 1 RB    | 50        | 2535               | 21100   | 16.96                 | 17   | 0   |  |  |  |
|            |            |         |           | 2560               | 21350   | 16.91                 | 17   | 0   |  |  |  |
|            |            |         |           | 2510               | 20850   | 16.93                 | 17   | 0   |  |  |  |
|            |            |         | 99        | 2535               | 21100   | 16.94                 | 17   | 0   |  |  |  |
|            |            |         |           | 2560               | 21350   | 16.83                 | 17   | 0   |  |  |  |
|            |            |         |           | 2510               | 20850   | 16.75                 | 17   | 0   |  |  |  |
|            | QPSK       |         | 0         | 2535               | 21100   | 16.94                 | 17   | 0   |  |  |  |
|            |            |         |           | 2560               | 21350   | 16.8                  | 17   | 0   |  |  |  |
|            |            |         |           | 2510               | 20850   | 16.78                 | 17   | 0   |  |  |  |
|            |            | 50 RB   | 25        | 2535               | 21100   | 16.96                 | 17   | 0   |  |  |  |
|            |            |         |           | 2560               | 21350   | 16.77                 | 17   | 0   |  |  |  |
|            |            |         |           | 2510               | 20850   | 16.88                 | 17   | Allowed per 3GPP(dB)  O O O O O O O O O O O O O O O O O O |  |  |  |
|            |            |         | 50        | 2535               | 21100   | 16.98                 | 17   | 0   |  |  |  |
|            |            |         |           | 2560               | 21350   | 16.68                 | 17   | 0   |  |  |  |
|            |            |         |           | 2510               | 20850   | 16.85                 | 17   | 0   |  |  |  |
|            |            | 100     | )RB       | 2535               | 21100   | 16.87                 | 17   | 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0             |  |  |  |
| 00         |            |         |           | 2560               | 21350   | 16.96                 | 17   | 0   |  |  |  |
| 20         |            |         |           | 2510               | 20850   | 16.92                 | 17   | 0   |  |  |  |
|            |            |         | 0         | 2535               | 21100   | 16.90                 | 17   | 0   |  |  |  |
|            |            |         |           | 2560               | 21350   | 16.94                 | 17   | 0   |  |  |  |
|            |            |         |           | 2510               | 20850   | 16.86                 | 17   | 0   |  |  |  |
|            |            | 1 RB    | 50        | 2535               | 21100   | 16.87                 | 17   | 0   |  |  |  |
|            |            |         |           | 2560               | 21350   | 16.52                 | 17   | 0   |  |  |  |
|            |            |         |           | 2510               | 20850   | 16.95                 | 17   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |  |  |  |
|            |            |         | 99        | 2535               | 21100   | 16.97                 | 17   |   |  |  |  |
|            |            |         |           | 2560               | 21350   | 16.92                 | 17   | 0   |  |  |  |
|            |            |         |           | 2510               | 20850   | 16.77                 | 17   | 0   |  |  |  |
|            | 16-QAM     |         | 0         | 2535               | 21100   | 16.95                 | 17   | 0   |  |  |  |
|            |            |         |           | 2560               | 21350   | 16.85                 | 17   | 0   |  |  |  |
|            |            |         |           | 2510               | 20850   | 16.81                 | 17   | 0   |  |  |  |
|            |            | 50 RB   | 25        | 2535               | 21100   | 16.94                 | 17   |   |  |  |  |
|            |            |         |           | 2560               | 21350   | 16.80                 | 17   | 0   |  |  |  |
|            |            |         |           | 2510               | 20850   | 16.87                 | 17   | 0   |  |  |  |
|            |            |         | 50        | 2535               | 21100   | 16.95                 | 17   | 0   |  |  |  |
|            |            |         |           | 2560               | 21350   | 16.69                 | 17   | 0   |  |  |  |
|            |            |         | -         | 2510               | 20850   | 16.89                 | 17   | 0   |  |  |  |
|            |            | 100     | )RB       | 2535               | 21100   | 16.95                 | 17   | 0   |  |  |  |
|            |            |         |           | 2560               | 21350   | 16.93                 | 17   | 0   |  |  |  |

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| FDD Band 7 |            |         |           |                    |         |                       |  |   |  |  |  |
|------------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |
|            |            |         |           | 2507.5             | 20825   | 16.71                 | 17   | 0   |  |  |  |
|            |            |         | 0         | 2535               | 21100   | 16.91                 | 17   | 0   |  |  |  |
|            |            |         |           | 2562.5             | 21375   | 16.98                 | 17   | 0   |  |  |  |
|            |            |         |           | 2507.5             | 20825   | 16.54                 | 17   | 0   |  |  |  |
|            |            | 1 RB    | 36        | 2535               | 21100   | 16.83                 | 17   | 0   |  |  |  |
|            |            |         |           | 2562.5             | 21375   | 16.71                 | 17   | 0   |  |  |  |
|            |            |         |           | 2507.5             | 20825   | 16.72                 | 17   | 0   |  |  |  |
|            |            |         | 74        | 2535               | 21100   | 16.96                 | 17   | 0   |  |  |  |
|            |            |         |           | 2562.5             | 21375   | 16.74                 | 17   | 0   |  |  |  |
|            |            |         |           | 2507.5             | 20825   | 16.75                 | 17   | 0   |  |  |  |
|            | QPSK       |         | 0         | 2535               | 21100   | 16.91                 | 17   | 0   |  |  |  |
|            |            |         |           | 2562.5             | 21375   | 16.81                 | 17   | 0   |  |  |  |
|            |            |         |           | 2507.5             | 20825   | 16.74                 | 17   | 0   |  |  |  |
|            |            | 36 RB   | 18        | 2535               | 21100   | 16.92                 | 17   | 0   |  |  |  |
|            |            |         |           | 2562.5             | 21375   | 16.76                 | 17   | 0   |  |  |  |
|            |            |         |           | 2507.5             | 20825   | 16.78                 | 17   | 0   |  |  |  |
|            |            |         | 37        | 2535               | 21100   | 16.93                 | 17   | 0   |  |  |  |
|            |            |         |           | 2562.5             | 21375   | 16.81                 | 17   | 0   |  |  |  |
|            |            |         |           | 2507.5             | 20825   | 16.76                 | 17   | 0   |  |  |  |
|            |            | 75      | RB        | 2535               | 21100   | 16.92                 | 17   | 0   |  |  |  |
| 45         |            |         |           | 2562.5             | 21375   | 16.81                 | 17   | 0   |  |  |  |
| 15         |            |         |           | 2507.5             | 20825   | 16.87                 | 17   | 0   |  |  |  |
|            |            |         | 0         | 2535               | 21100   | 16.80                 | 17   | 0   |  |  |  |
|            |            |         |           | 2562.5             | 21375   | 16.91                 | 17   | 0   |  |  |  |
|            |            |         |           | 2507.5             | 20825   | 16.91                 | 17   | 0   |  |  |  |
|            |            | 1 RB    | 36        | 2535               | 21100   | 16.91                 | 17   | 0   |  |  |  |
|            |            |         |           | 2562.5             | 21375   | 16.94                 | 17   | 0   |  |  |  |
|            | [          |         |           | 2507.5             | 20825   | 16.94                 | 17   | 0   |  |  |  |
|            |            |         | 74        | 2535               | 21100   | 16.97                 | 17   | 0   |  |  |  |
|            |            |         |           | 2562.5             | 21375   | 16.95                 | 17   | 0   |  |  |  |
|            | [          |         |           | 2507.5             | 20825   | 16.90                 | 17   | 0   |  |  |  |
|            | 16-QAM     |         | 0         | 2535               | 21100   | 16.92                 | 17   | 0   |  |  |  |
|            | [          |         |           | 2562.5             | 21375   | 16.92                 | 17   | 0   |  |  |  |
|            |            |         |           | 2507.5             | 20825   | 16.86                 | 17   | 0   |  |  |  |
|            |            | 36 RB   | 18        | 2535               | 21100   | 16.94                 | 17   | 0   |  |  |  |
|            |            |         |           | 2562.5             | 21375   | 16.88                 | 17   | 0   |  |  |  |
|            | [          |         |           | 2507.5             | 20825   | 16.88                 | 17   | 0   |  |  |  |
|            | [          |         | 37        | 2535               | 21100   | 16.96                 | 17   | 0   |  |  |  |
|            |            |         |           | 2562.5             | 21375   | 16.82                 | 17   | 0   |  |  |  |
|            |            |         |           | 2507.5             | 20825   | 16.76                 | 17   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |
|            |            | 75      | RB        | 2535               | 21100   | 16.93                 | 17   | 0   |  |  |  |
|            |            |         |           | 2562.5             | 21375   | 16.84                 | 17   | 0   |  |  |  |

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| FDD Band 7 |            |         |           |                    |         |                       |  |   |  |  |  |
|------------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|
| BW(Mhz)    | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)                            |  |  |  |
|            |            |         |           | 2505               | 20800   | 16.83                 | 17   | 0   |  |  |  |
|            |            |         | 0         | 2535               | 21100   | 16.85                 | 17   | 0   |  |  |  |
|            |            |         |           | 2565               | 21400   | 16.76                 | 17   | 0   |  |  |  |
|            |            |         |           | 2505               | 20800   | 16.67                 | 17   | 0   |  |  |  |
|            |            | 1 RB    | 25        | 2535               | 21100   | 16.72                 | 17   | 0   |  |  |  |
|            |            |         |           | 2565               | 21400   | 16.70                 | 17   | 0   |  |  |  |
|            |            |         |           | 2505               | 20800   | 16.75                 | 17   | 0   |  |  |  |
|            |            |         | 49        | 2535               | 21100   | 16.93                 | 17   | 0   |  |  |  |
|            |            |         |           | 2565               | 21400   | 16.86                 | 17   | 0   |  |  |  |
|            | [          |         |           | 2505               | 20800   | 16.81                 | 17   | 0   |  |  |  |
|            | QPSK       |         | 0         | 2535               | 21100   | 16.95                 | 17   | 0   |  |  |  |
|            | [          |         |           | 2565               | 21400   | 16.77                 | 17   | 0   |  |  |  |
|            |            |         |           | 2505               | 20800   | 16.77                 | 17   | 0   |  |  |  |
|            |            | 25 RB   | 12        | 2535               | 21100   | 16.94                 | 17   | 0   |  |  |  |
|            |            |         |           | 2565               | 21400   | 16.76                 | 17   | 0   |  |  |  |
|            |            |         |           | 2505               | 20800   | 16.82                 | 17   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |  |  |  |
|            |            |         | 25        | 2535               | 21100   | 16.90                 | 17   | 0   |  |  |  |
|            |            |         |           | 2565               | 21400   | 16.79                 | 17   | 0   |  |  |  |
|            |            |         |           | 2505               | 20800   | 16.77                 | 17   | 0   |  |  |  |
|            |            | 50      | RB        | 2535               | 21100   | 16.93                 | 17   | 0   |  |  |  |
| 40         |            |         |           | 2565               | 21400   | 16.72                 | 17   | 0   |  |  |  |
| 10         |            |         |           | 2505               | 20800   | 16.95                 | 17   | 0   |  |  |  |
|            |            |         | 0         | 2535               | 21100   | 16.67                 | 17   | 0   |  |  |  |
|            |            |         |           | 2565               | 21400   | 16.36                 | 17   | 0   |  |  |  |
|            |            |         |           | 2505               | 20800   | 16.88                 | 17   | 0   |  |  |  |
|            |            | 1 RB    | 25        | 2535               | 21100   | 16.88                 | 17   | 0   |  |  |  |
|            |            |         |           | 2565               | 21400   | 16.94                 | 17   | 0   |  |  |  |
|            | [          |         |           | 2505               | 20800   | 16.94                 | 17   | 0   |  |  |  |
|            |            |         | 49        | 2535               | 21100   | 16.87                 | 17   | 0   |  |  |  |
|            |            |         |           | 2565               | 21400   | 16.91                 | 17   | 0   |  |  |  |
|            | [          |         |           | 2505               | 20800   | 16.80                 | 17   | 0   |  |  |  |
|            | 16-QAM     |         | 0         | 2535               | 21100   | 16.95                 | 17   | 0   |  |  |  |
|            |            |         |           | 2565               | 21400   | 16.81                 | 17   | 0   |  |  |  |
|            |            |         |           | 2505               | 20800   | 16.87                 | 17   | 0   |  |  |  |
|            |            | 25 RB   | 12        | 2535               | 21100   | 16.95                 | 17   | 0   |  |  |  |
|            |            |         |           | 2565               | 21400   | 16.82                 | 17   | 0   |  |  |  |
|            |            |         |           | 2505               | 20800   | 16.86                 | 17   | 0   |  |  |  |
|            |            |         | 25        | 2535               | 21100   | 16.97                 | 17   | 0   |  |  |  |
|            |            |         |           | 2565               | 21400   | 16.83                 | 17   | 0   |  |  |  |
|            |            |         |           | 2505               | 20800   | 16.78                 | 17   | 0   |  |  |  |
|            |            | 50      | RB        | 2535               | 21100   | 16.93                 | 17   | 0   |  |  |  |
|            |            |         |           | 2565               | 21400   | 16.82                 | 17   | 0   |  |  |  |

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|         | FDD Band 7 |         |           |                    |         |                       |  |   |  |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |  |
|         |            |         |           | 2502.5             | 20775   | 16.68                 | 17   | 0   |  |  |  |  |  |
|         |            |         | 0         | 2535               | 21100   | 16.89                 | 17   | 0   |  |  |  |  |  |
|         |            |         |           | 2567.5             | 21425   | 16.65                 | 17   | 0   |  |  |  |  |  |
|         |            |         |           | 2502.5             | 20775   | 16.74                 | 17   | 0   |  |  |  |  |  |
|         |            | 1 RB    | 12        | 2535               | 21100   | 16.89                 | 17   | 0   |  |  |  |  |  |
|         |            |         |           | 2567.5             | 21425   | 16.64                 | 17   | 0   |  |  |  |  |  |
|         |            |         |           | 2502.5             | 20775   | 16.76                 | 17   | 0   |  |  |  |  |  |
|         |            |         | 24        | 2535               | 21100   | 16.76                 | 17   | 0   |  |  |  |  |  |
|         |            |         |           | 2567.5             | 21425   | 16.77                 | 17   | 0   |  |  |  |  |  |
|         |            |         |           | 2502.5             | 20775   | 16.73                 | 17   | 0   |  |  |  |  |  |
|         | QPSK       |         | 0         | 2535               | 21100   | 16.82                 | 17   | 0   |  |  |  |  |  |
|         |            |         |           | 2567.5             | 21425   | 16.69                 | 17   | 0   |  |  |  |  |  |
|         |            |         |           | 2502.5             | 20775   | 16.70                 | 17   | 0   |  |  |  |  |  |
|         |            | 12 RB   | 6         | 2535               | 21100   | 16.88                 | 17   | 0   |  |  |  |  |  |
|         |            |         |           | 2567.5             | 21425   | 16.70                 | 17   | Allowed per 3GPP(dB)  O O O O O O O O O O O O O O O O O O                                   |  |  |  |  |  |
|         |            |         |           | 2502.5             | 20775   | 16.69                 | 17   |   |  |  |  |  |  |
|         |            |         | 13        | 2535               | 21100   | 16.81                 | 17   | 0   |  |  |  |  |  |
|         |            |         |           | 2567.5             | 21425   | 16.70                 | 17   | 0   |  |  |  |  |  |
|         |            |         |           | 2502.5             | 20775   | 16.71                 | 17   | 0   |  |  |  |  |  |
|         |            | 25      | RB        | 2535               | 21100   | 16.89                 | 17   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |  |  |
| 5       |            |         |           | 2567.5             | 21425   | 16.69                 | 17   |   |  |  |  |  |  |
|         |            |         |           | 2502.5             | 20775   | 16.92                 | 17   |   |  |  |  |  |  |
|         |            |         | 0         | 2535               | 21100   | 16.74                 | 17   |   |  |  |  |  |  |
|         |            |         |           | 2567.5             | 21425   | 16.29                 | 17   |   |  |  |  |  |  |
|         |            |         |           | 2502.5             | 20775   | 16.83                 | 17   |   |  |  |  |  |  |
|         |            | 1 RB    | 12        | 2535               | 21100   | 16.92                 | 17   |   |  |  |  |  |  |
|         |            |         |           | 2567.5             | 21425   | 16.87                 | 17   |   |  |  |  |  |  |
|         |            |         |           | 2502.5             | 20775   | 16.34                 | 17   |   |  |  |  |  |  |
|         |            |         | 24        | 2535               | 21100   | 16.93                 | 17   |   |  |  |  |  |  |
|         |            |         |           | 2567.5             | 21425   | 16.83                 | 17   |   |  |  |  |  |  |
|         |            |         |           | 2502.5             | 20775   | 16.70                 | 17   |   |  |  |  |  |  |
|         | 16-QAM     |         | 0         | 2535               | 21100   | 16.90                 | 17   |   |  |  |  |  |  |
|         |            |         |           | 2567.5             | 21425   | 16.85                 | 17   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |  |  |
|         |            | 40.00   |           | 2502.5             | 20775   | 16.73                 | 17   |   |  |  |  |  |  |
|         |            | 12 RB   | 6         | 2535               | 21100   | 16.89                 | 17   |   |  |  |  |  |  |
|         |            |         |           | 2567.5             | 21425   | 16.73                 | 17   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |  |  |
|         |            |         | 10        | 2502.5             | 20775   | 16.84                 | 17   |   |  |  |  |  |  |
|         |            |         | 13        | 2535               | 21100   | 16.94                 | 17   |   |  |  |  |  |  |
|         |            |         |           | 2567.5             | 21425   | 16.75                 | 17   |   |  |  |  |  |  |
|         |            | 25RB    |           | 2502.5             | 20775   | 16.76                 | 17   |   |  |  |  |  |  |
|         |            | 25      | מא        | 2535               | 21100   | 16.91                 | 17   |   |  |  |  |  |  |
|         |            |         |           | 2567.5             | 21425   | 16.72                 | 17   | 0   |  |  |  |  |  |

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|         | FDD Band 12 |         |           |                    |         |                       |  |   |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |  |  |
|         |             |         |           | 704                | 23060   | 20.88                 | 21   | 0   |  |  |  |  |
|         |             |         | 0         | 707.5              | 23095   | 20.79                 | 21   | 0   |  |  |  |  |
|         |             |         |           | 711                | 23130   | 20.91                 | 21   | 0   |  |  |  |  |
|         |             |         |           | 704                | 23060   | 20.89                 | 21   | 0   |  |  |  |  |
|         |             | 1 RB    | 25        | 707.5              | 23095   | 20.96                 | 21   | 0   |  |  |  |  |
|         |             |         |           | 711                | 23130   | 20.94                 | 21   | 0   |  |  |  |  |
|         |             |         |           | 704                | 23060   | 20.87                 | 21   | 0   |  |  |  |  |
|         |             |         | 49        | 707.5              | 23095   | 20.75                 | 21   | 0   |  |  |  |  |
|         |             |         |           | 711                | 23130   | 20.95                 | 21   | 0   |  |  |  |  |
|         |             |         |           | 704                | 23060   | 20.62                 | 21   | 0   |  |  |  |  |
|         | QPSK        |         | 0         | 707.5              | 23095   | 20.61                 | 21   |   |  |  |  |  |
|         |             |         |           | 711                | 23130   | 20.45                 | 21   |   |  |  |  |  |
|         |             |         |           | 704                | 23060   | 20.76                 | 21   |   |  |  |  |  |
|         |             | 25 RB   | 12        | 707.5              | 23095   | 20.48                 | 21   |   |  |  |  |  |
|         |             |         |           | 711                | 23130   | 20.43                 | 21   |   |  |  |  |  |
|         |             |         |           | 704                | 23060   | 20.57                 | 21   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                     |  |  |  |  |
|         |             |         | 25        | 707.5              | 23095   | 20.54                 | 21   | 0   |  |  |  |  |
|         |             |         |           | 711                | 23130   | 20.36                 | 21   |   |  |  |  |  |
|         |             |         |           | 704                | 23060   | 20.82                 | 21   | 0   |  |  |  |  |
|         |             | 50      | RB        | 707.5              | 23095   | 20.69                 | 21   |   |  |  |  |  |
| 10      |             |         |           | 711                | 23130   | 20.62                 | 21   |   |  |  |  |  |
|         |             |         |           | 704                | 23060   | 20.41                 | 21   |   |  |  |  |  |
|         |             |         | 0         | 707.5              | 23095   | 20.43                 | 21   |   |  |  |  |  |
|         |             |         |           | 711                | 23130   | 20.32                 | 21   |   |  |  |  |  |
|         |             |         |           | 704                | 23060   | 20.48                 | 21   |   |  |  |  |  |
|         |             | 1 RB    | 25        | 707.5              | 23095   | 20.45                 | 21   |   |  |  |  |  |
|         |             |         |           | 711                | 23130   | 20.36                 | 21   |   |  |  |  |  |
|         |             |         | 4.5       | 704                | 23060   | 20.42                 | 21   |   |  |  |  |  |
|         |             |         | 49        | 707.5              | 23095   | 20.43                 | 21   |   |  |  |  |  |
|         |             |         |           | 711                | 23130   | 20.50                 | 21   |   |  |  |  |  |
|         | 40.0        |         |           | 704                | 23060   | 20.49                 | 21   |   |  |  |  |  |
|         | 16-QAM      |         | 0         | 707.5              | 23095   | 20.46                 | 21   |   |  |  |  |  |
|         |             |         |           | 711                | 23130   | 20.49                 | 21   |   |  |  |  |  |
|         |             | 05.55   | 40        | 704                | 23060   | 20.41                 | 21   |   |  |  |  |  |
|         |             | 25 RB   | 12        | 707.5              | 23095   | 20.45                 | 21   |   |  |  |  |  |
|         |             |         |           | 711                | 23130   | 20.36                 | 21   |   |  |  |  |  |
|         |             |         | 0.5       | 704                | 23060   | 20.50                 | 21   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |  |
|         |             |         | 25        | 707.5              | 23095   | 20.43                 | 21   |   |  |  |  |  |
|         |             |         |           | 711                | 23130   | 20.36                 | 21   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                   |  |  |  |  |
|         |             |         | DD        | 704                | 23060   | 20.45                 | 21   |   |  |  |  |  |
|         | 50          | KR      | 707.5     | 23095              | 20.49   | 21                    |  |   |  |  |  |  |
|         |             |         |           | 711                | 23130   | 20.50                 | 21   | 0   |  |  |  |  |

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|         | FDD Band 12 |         |           |                    |         |                       |                                     |   |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|---|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)                            |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.89                 | 21                                  | 0   |  |  |  |  |
|         |             |         | 0         | 707.5              | 23095   | 20.48                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.58                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.60                 | 21                                  | 0   |  |  |  |  |
|         |             | 1 RB    | 12        | 707.5              | 23095   | 20.57                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.44                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.92                 | 21                                  | 0   |  |  |  |  |
|         |             |         | 24        | 707.5              | 23095   | 20.87                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.56                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.41                 | 21                                  | 0   |  |  |  |  |
|         | QPSK        |         | 0         | 707.5              | 23095   | 20.51                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.23                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.52                 | 21                                  | 0   |  |  |  |  |
|         |             | 12 RB   | 6         | 707.5              | 23095   | 20.40                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.20                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.42                 | 21                                  | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |  |  |  |  |
|         |             |         | 13        | 707.5              | 23095   | 20.35                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.20                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.39                 | 21                                  | 0   |  |  |  |  |
|         |             | 25      | RB        | 707.5              | 23095   | 20.21                 | 21                                  | 0   |  |  |  |  |
| 5       |             |         |           | 713.5              | 23155   | 20.08                 | 21                                  | 0   |  |  |  |  |
| Ĭ       |             |         |           | 701.5              | 23035   | 20.38                 | 21                                  | 0   |  |  |  |  |
|         |             |         | 0         | 707.5              | 23095   | 20.28                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.23                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.36                 | 21                                  | 0   |  |  |  |  |
|         |             | 1 RB    | 12        | 707.5              | 23095   | 20.31                 | 21                                  |   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.11                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.35                 | 21                                  |   |  |  |  |  |
|         |             |         | 24        | 707.5              | 23095   | 20.21                 | 21                                  |   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.38                 | 21                                  |   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.37                 | 21                                  |   |  |  |  |  |
|         | 16-QAM      |         | 0         | 707.5              | 23095   | 20.37                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.20                 | 21                                  | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.33                 | 21                                  |   |  |  |  |  |
|         |             | 12 RB   | 6         | 707.5              | 23095   | 20.25                 | 21                                  |   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.12                 | 21                                  |   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.37                 | 21                                  |   |  |  |  |  |
|         |             |         | 13        | 707.5              | 23095   | 20.43                 | 21                                  |   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.30                 | 21                                  |   |  |  |  |  |
|         |             |         |           | 701.5              | 23035   | 20.33                 | 21                                  |   |  |  |  |  |
|         | 25R         |         | KB        | 707.5              | 23095   | 20.25                 | 21                                  |   |  |  |  |  |
|         |             |         |           | 713.5              | 23155   | 20.31                 | 21                                  | 0   |  |  |  |  |

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|         | FDD Band 12 |         |           |  |         |                       |                                     |   |  |  |  |  |
|---------|-------------|---------|-----------|--|---------|-----------------------|-------------------------------------|---|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz)   | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)                            |  |  |  |  |
|         |             |         |           | 700.5  | 23025   | 20.61                 | 21                                  | 0   |  |  |  |  |
|         |             |         | 0         | 707.5  | 23095   | 20.69                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 714.5  | 23165   | 20.49                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 700.5  | 23025   | 20.59                 | 21                                  | 0   |  |  |  |  |
|         |             | 1 RB    | 7         | 707.5  | 23095   | 20.75                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 714.5  | 23165   | 20.65                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 700.5  | 23025   | 20.70                 | 21                                  | 0   |  |  |  |  |
|         |             |         | 14        | 707.5  | 23095   | 20.63                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 714.5  | 23165   | 20.90                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 700.5  | 23025   | 20.30                 | 21                                  | 0   |  |  |  |  |
|         | QPSK        |         | 0         | 707.5  | 23095   | 20.42                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 714.5  | 23165   | 20.29                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 700.5  | 23025   | 20.51                 | 21                                  | 0   |  |  |  |  |
|         |             | 8 RB    | 4         | 707.5  | 23095   | 20.47                 | 21                                  | Allowed per 3GPP(dB)  O O O O O O O O O O O O O O O O O O |  |  |  |  |
|         |             |         |           | 714.5  | 23165   | 20.41                 | 21                                  |   |  |  |  |  |
|         |             |         |           | 700.5  | 23025   | 20.43                 | 21                                  |   |  |  |  |  |
|         |             |         | 7         | 707.5  |         | 20.34                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 714.5  | 23165   | 20.46                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 700.5  | 23025   | 20.32                 | 21                                  | 0   |  |  |  |  |
|         |             | 15      | RB        | 707.5  | 23095   | 20.43                 | 21                                  | 0   |  |  |  |  |
| 3       |             |         |           | 714.5  | 23165   | 20.42                 | 21                                  | 0   |  |  |  |  |
| Ŭ       |             |         |           | 700.5  | 23025   | 20.42                 | 21                                  | 0   |  |  |  |  |
|         |             |         | 0         | 14     707.5     23095     20.63     21       714.5     23165     20.90     21       700.5     23025     20.30     21       0     707.5     23095     20.42     21       714.5     23165     20.29     21       700.5     23025     20.51     21       4     707.5     23095     20.47     21       714.5     23165     20.41     21       700.5     23025     20.43     21       707.5     23095     20.34     21       714.5     23165     20.46     21       700.5     23025     20.32     21       707.5     23095     20.43     21       707.5     23095     20.43     21       707.5     23095     20.43     21       714.5     23165     20.42     21 | 0       |                       |                                     |   |  |  |  |  |
|         |             |         |           |  |         | 20.20                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 700.5  | 23025   | 20.41                 | 21                                  | 0   |  |  |  |  |
|         |             | 1 RB    | 7         |  |         |                       |                                     |   |  |  |  |  |
|         |             |         |           |  |         |                       |                                     | 0   |  |  |  |  |
|         |             |         |           |  |         |                       |                                     |   |  |  |  |  |
|         |             |         | 14        |  |         |                       |                                     |   |  |  |  |  |
|         |             |         |           |  |         | 1                     |                                     |   |  |  |  |  |
|         |             |         |           |  |         |                       |                                     |   |  |  |  |  |
|         | 16-QAM      |         | 0         | 707.5  | 23095   | 20.42                 | 21                                  | 0   |  |  |  |  |
|         |             |         |           | 714.5  | 23165   | 20.27                 | 21                                  | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |  |  |  |  |
|         |             |         |           | 700.5  | 23025   | 20.41                 | 21                                  |   |  |  |  |  |
|         |             | 8 RB    | 4         | 707.5  | 23095   | 20.39                 | 21                                  |   |  |  |  |  |
|         |             |         |           | 714.5  | 23165   | 20.44                 | 21                                  |   |  |  |  |  |
|         |             |         | _         | 700.5  | 23025   | 20.47                 | 21                                  |   |  |  |  |  |
|         |             |         | 7         | 707.5  | 23095   | 20.43                 | 21                                  |   |  |  |  |  |
|         |             |         |           | 714.5  | 23165   | 20.39                 | 21                                  | 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0             |  |  |  |  |
|         |             |         |           | 700.5  | 23025   | 20.49                 | 21                                  |   |  |  |  |  |
|         | 15RI        | KB      | 707.5     | 23095  | 20.39   | 21                    |                                     |   |  |  |  |  |
|         |             |         |           | 714.5  | 23165   | 20.12                 | 21                                  | 0   |  |  |  |  |

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| FDD Band 12 |            |         |           |                    |         |                       |  |   |  |  |  |
|-------------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|--|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)                      |  |  |  |
|             |            |         |           | 699.7              | 23017   | 20.65                 | 21   | 0   |  |  |  |
|             |            |         | 0         | 707.5              | 23095   | 20.46                 | 21   | 0   |  |  |  |
|             |            |         |           | 715.3              | 23173   | 20.53                 | 21   | 0   |  |  |  |
|             |            |         |           | 699.7              | 23017   | 20.76                 | 21   | 0   |  |  |  |
|             |            | 1 RB    | 2         | 707.5              | 23095   | 20.48                 | 21   | 0   |  |  |  |
|             |            |         |           | 715.3              | 23173   | 20.39                 | 21   | 0   |  |  |  |
|             |            |         |           | 699.7              | 23017   | 20.52                 | 21   | 0   |  |  |  |
|             |            |         | 5         | 707.5              | 23095   | 20.71                 | 21   | 0   |  |  |  |
|             |            |         |           | 715.3              | 23173   | 20.59                 | 21   | 0   |  |  |  |
|             |            |         |           | 699.7              | 23017   | 20.26                 | 21   | 0   |  |  |  |
|             | QPSK       |         | 0         | 707.5              | 23095   | 20.43                 | 21   | 0   |  |  |  |
|             |            |         |           | 715.3              | 23173   | 20.48                 | 21   | 0   |  |  |  |
|             |            |         |           | 699.7              | 23017   | 20.42                 | 21   | 0   |  |  |  |
|             |            | 3 RB    | 2         | 707.5              | 23095   | 20.41                 | 21   | 0   |  |  |  |
|             |            |         |           | 715.3              | 23173   | 20.30                 | 21   | 0   |  |  |  |
|             |            |         |           | 699.7              | 23017   | 20.41                 | 21   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |  |
|             |            |         | 3         | 707.5              | 23095   | 20.44                 | 21   |   |  |  |  |
|             |            |         |           | 715.3              | 23173   | 20.80                 | 21   | 0   |  |  |  |
|             |            |         |           | 699.7              | 23017   | 20.34                 | 21   | 0   |  |  |  |
|             |            | 6F      | RB        | 707.5              | 23095   | 20.48                 | 21   | 0   |  |  |  |
|             |            |         |           | 715.3              | 23173   | 20.51                 | 21   | 0   |  |  |  |
| 1.4         |            |         |           | 699.7              | 23017   | 20.34                 | 21   | 0   |  |  |  |
|             |            |         | 0         | 707.5              | 23095   | 20.32                 | 21   | 0   |  |  |  |
|             |            |         |           | 715.3              | 23173   | 20.19                 | 21   | 0   |  |  |  |
|             |            |         |           | 699.7              | 23017   | 20.38                 | 21   | 0   |  |  |  |
|             |            | 1 RB    | 2         | 707.5              | 23095   | 20.27                 | 21   | 0   |  |  |  |
|             |            |         |           | 715.3              | 23173   | 20.19                 | 21   |   |  |  |  |
|             |            |         |           | 699.7              | 23017   | 20.38                 | 21   | 0   |  |  |  |
|             |            |         | 5         | 707.5              | 23095   | 20.32                 | 21   | 0   |  |  |  |
|             |            |         |           | 715.3              | 23173   | 20.33                 | 21   | 0   |  |  |  |
|             |            |         |           | 699.7              | 23017   | 20.27                 | 21   | 0   |  |  |  |
|             | 16-QAM     |         | 0         | 707.5              | 23095   | 20.33                 | 21   | 0   |  |  |  |
|             |            |         |           | 715.3              | 23173   | 20.22                 | 21   | 0   |  |  |  |
|             |            |         |           | 699.7              | 23017   | 20.26                 | 21   | 0   |  |  |  |
|             |            | 3 RB    | 2         | 707.5              | 23095   | 20.34                 | 21   | 0   |  |  |  |
|             |            |         |           | 715.3              | 23173   | 20.32                 | 21   | 0   |  |  |  |
|             |            |         |           | 699.7              | 23017   | 20.32                 | 21   | 0   |  |  |  |
|             |            |         | 3         | 707.5              | 23095   | 20.29                 | 21   | 0   |  |  |  |
|             |            |         |           | 715.3              | 23173   | 20.33                 | 21   | 0   |  |  |  |
|             |            |         |           | 699.7              | 23017   | 20.38                 | 21   | 0   |  |  |  |
|             |            | 6F      | 6RB       |                    | 23095   | 20.32                 | 21   | 0   |  |  |  |
|             |            |         |           | 707.5<br>715.3     | 23173   | 20.46                 | 21   | 0   |  |  |  |

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|         |            |         |           | FDD Band 13        |         |                       |  |                                |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |
|         |            |         | 0         | 782                | 23230   | 22.11                 | 22.5   | 0                              |
|         |            | 1 RB    | 25        | 782                | 23230   | 22.32                 | 22.5   | 0                              |
|         |            |         | 49        | 782                | 23230   | 22.06                 | 22.5   | 0                              |
|         | QPSK       |         | 0         | 782                | 23230   | 21.41                 | 21.5   | 0-1                            |
|         |            | 25 RB   | 12        | 782                | 23230   | 21.23                 | 21.5   | 0-1                            |
|         |            |         | 25        | 782                | 23230   | 21.31                 | 21.5   | 0-1                            |
| 10      |            | 50      | RB        | 782                | 23230   | 21.29                 | 21.5   | 0-1                            |
| 10      |            |         | 0         | 782                | 23230   | 21.45                 | 21.5   | 0-1                            |
|         |            | 1 RB    | 25        | 782                | 23230   | 20.99                 | 21.5   | 0-1                            |
|         |            |         | 49        | 782                | 23230   | 21.06                 | 21.5   | 0-1                            |
|         | 16-QAM     |         | 0         | 782                | 23230   | 20.29                 | 20.5   | 0-2                            |
|         |            | 25 RB   | 12        | 782                | 23230   | 20.10                 | 20.5   | 0-2                            |
|         |            |         | 25        | 782                | 23230   | 20.06                 | 20.5   | 0-2                            |
|         |            | 50      | RB        | 782                | 23230   | 20.12                 | 20.5   | 0-2                            |

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|         |            |         |           | FDD Band 13        |         |                       |                                     | FDD Band 13                    |  |  |  |  |  |  |  |  |  |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 779.5              | 23205   | 22.14                 | 22.5                                | 0                              |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         | 0         | 782                | 23230   | 22.11                 | 22.5                                | 0                              |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 784.5              | 23255   | 22.01                 | 22.5                                | 0                              |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 779.5              | 23205   | 22.17                 | 22.5                                | 0                              |  |  |  |  |  |  |  |  |  |  |  |
|         |            | 1 RB    | 12        | 782                | 23230   | 22.12                 | 22.5                                | 0                              |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 784.5              | 23255   | 22.11                 | 22.5                                | 0                              |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 779.5              | 23205   | 22.09                 | 22.5                                | 0                              |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         | 24        | 782                | 23230   | 22.03                 | 22.5                                | 0                              |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 784.5              | 23255   | 22.18                 | 22.5                                | 0                              |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 779.5              | 23205   | 21.21                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         | QPSK       |         | 0         | 782                | 23230   | 21.12                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 784.5              | 23255   | 21.08                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 779.5              | 23205   | 21.24                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            | 12 RB   | 6         | 782                | 23230   | 21.06                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 784.5              | 23255   | 20.94                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 779.5              | 23205   | 21.19                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         | 13        | 782                | 23230   | 21.08                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 784.5              | 23255   | 21.12                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 779.5              | 23205   | 21.25                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            | 25      | RB        | 782                | 23230   | 21.02                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
| 5       |            |         |           | 784.5              | 23255   | 21.08                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 779.5              | 23205   | 20.90                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         | 0         | 782                | 23230   | 21.45                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 784.5              | 23255   | 21.50                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 779.5              | 23205   | 21.33                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            | 1 RB    | 12        | 782                | 23230   | 21.43                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 784.5              | 23255   | 21.43                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 779.5              | 23205   | 21.48                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         | 24        | 782                | 23230   | 21.25                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 784.5              | 23255   | 20.91                 | 21.5                                | 0-1                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 779.5              | 23205   | 20.28                 | 20.5                                | 0-2                            |  |  |  |  |  |  |  |  |  |  |  |
|         | 16-QAM     |         | 0         | 782                | 23230   | 20.09                 | 20.5                                | 0-2                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 784.5              | 23255   | 20.09                 | 20.5                                | 0-2                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 779.5              | 23205   | 20.27                 | 20.5                                | 0-2                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            | 12 RB   | 6         | 782                | 23230   | 20.06                 | 20.5                                | 0-2                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 784.5              | 23255   | 20.12                 | 20.5                                | 0-2                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 779.5              | 23205   | 20.23                 | 20.5                                | 0-2                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         | 13        | 782                | 23230   | 20.14                 | 20.5                                | 0-2                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 784.5              | 23255   | 20.11                 | 20.5                                | 0-2                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 779.5              | 23205   | 20.34                 | 20.5                                | 0-2                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            | 25      | RB        | 782                | 23230   | 20.03                 | 20.5                                | 0-2                            |  |  |  |  |  |  |  |  |  |  |  |
|         |            |         |           | 784.5              | 23255   | 20.05                 | 20.5                                | 0-2                            |  |  |  |  |  |  |  |  |  |  |  |

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|         | FDD Band 17 |         |           |                    |         |                       |  |  |  |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|--|--|--|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)   |  |  |  |  |  |
|         |             |         |           | 709                | 23780   | 20.99                 | 21   | 0  |  |  |  |  |  |
|         |             |         | 0         | 710                | 23790   | 20.88                 | 21   | 0  |  |  |  |  |  |
|         |             |         |           | 711                | 23800   | 20.49                 | 21   | 0  |  |  |  |  |  |
|         |             |         |           | 709                | 23780   | 20.98                 | 21   | 0  |  |  |  |  |  |
|         |             | 1 RB    | 25        | 710                | 23790   | 20.92                 | 21   | 0  |  |  |  |  |  |
|         |             |         |           | 711                | 23800   | 20.96                 | 21   | 0  |  |  |  |  |  |
|         |             |         |           | 709                | 23780   | 20.67                 | 21   | 0  |  |  |  |  |  |
|         |             |         | 49        | 710                | 23790   | 20.77                 | 21   | 0  |  |  |  |  |  |
|         |             |         |           | 711                | 23800   | 20.70                 | 21   | 0  |  |  |  |  |  |
|         |             |         |           | 709                | 23780   | 20.73                 | 21   | 0-1  |  |  |  |  |  |
|         | QPSK        |         | 0         | 710                | 23790   | 20.76                 | 21   | 0-1  |  |  |  |  |  |
|         |             |         |           | 711                | 23800   | 20.82                 | 21   | 0-1  |  |  |  |  |  |
|         |             |         |           | 709                | 23780   | 20.91                 | 21   | 0-1  |  |  |  |  |  |
|         |             | 25 RB   | 12        | 710                | 23790   | 20.78                 | 21   |  |  |  |  |  |  |
|         |             |         |           | 711                | 23800   | 20.80                 | 21   |  |  |  |  |  |  |
|         |             |         |           | 709                | 23780   | 20.77                 | 21   | _  |  |  |  |  |  |
|         |             |         | 25        | 710                | 23790   | 20.75                 | 21   | 0-1  |  |  |  |  |  |
|         |             |         |           | 711                | 23800   | 20.56                 | 21   |  |  |  |  |  |  |
|         |             |         |           | 709                | 23780   | 20.89                 | 21   | 0-1  |  |  |  |  |  |
|         |             | 50      | RB        | 710                | 23790   | 20.84                 | 21   | 0-1  |  |  |  |  |  |
| 10      |             |         |           | 711                | 23800   | 20.82                 | 21   | -  |  |  |  |  |  |
|         |             |         |           | 709                | 23780   | 20.56                 | 21   | 0-1  |  |  |  |  |  |
|         |             |         | 0         | 710                | 23790   | 20.66                 | 21   | 0-1  |  |  |  |  |  |
|         |             |         |           | 711                | 23800   | 20.51                 | 21   |  |  |  |  |  |  |
|         |             |         |           | 709                | 23780   | 20.73                 | 21   |  |  |  |  |  |  |
|         |             | 1 RB    | 25        | 710                | 23790   | 20.48                 | 21   | -  |  |  |  |  |  |
|         |             |         |           | 711                | 23800   | 20.62                 | 21   | _  |  |  |  |  |  |
|         |             |         |           | 709                | 23780   | 20.65                 | 21   |  |  |  |  |  |  |
|         |             |         | 49        | 710                | 23790   | 20.61                 | 21   |  |  |  |  |  |  |
|         |             |         |           | 711                | 23800   | 20.65                 | 21   |  |  |  |  |  |  |
|         | 40.004      |         |           | 709                | 23780   | 20.66                 | 21   |  |  |  |  |  |  |
|         | 16-QAM      |         | 0         | 710                | 23790   | 20.58                 | 21   |  |  |  |  |  |  |
|         |             |         |           | 711                | 23800   | 20.60                 | 21   | Allowed per 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-             |  |  |  |  |  |
|         |             | 05.00   | 40        | 709                | 23780   | 20.62                 | 21   |  |  |  |  |  |  |
|         |             | 25 RB   | 12        | 710                | 23790   | 20.57                 | 21   | 0<br>0<br>0<br>0<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1<br>0-1 |  |  |  |  |  |
|         |             |         |           | 711                | 23800   | 20.41                 | 21   |  |  |  |  |  |  |
|         |             |         | 25        | 709                | 23780   | 20.63                 | 21   |  |  |  |  |  |  |
|         |             |         | 25        | 710                | 23790   | 20.55                 | 21   |  |  |  |  |  |  |
|         |             |         |           | 711                | 23800   | 20.50                 | 21   | 3GPP(dB)  0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1                          |  |  |  |  |  |
|         |             |         | DD        | 709                | 23780   | 20.66                 | 21   |  |  |  |  |  |  |
|         |             | 50      | RB        | 710                | 23790   | 20.63                 | 21   |  |  |  |  |  |  |
|         |             |         |           | 711                | 23800   | 20.53                 | 21   | 0-2  |  |  |  |  |  |

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|         | FDD Band 17 |         |           |                    |         |                       |                                     |                                       |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|---------------------------------------|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB)        |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 20.90                 | 21                                  | 0                                     |  |  |  |  |
|         |             |         | 0         | 710                | 23790   | 20.82                 | 21                                  | 0                                     |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.93                 | 21                                  | 0                                     |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 20.90                 | 21                                  | 0                                     |  |  |  |  |
|         |             | 1 RB    | 12        | 710                | 23790   | 20.94                 | 21                                  | 0                                     |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.82                 | 21                                  | 0                                     |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 20.93                 | 21                                  | 0                                     |  |  |  |  |
|         |             |         | 24        | 710                | 23790   | 20.88                 | 21                                  | 0                                     |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.95                 | 21                                  | 0                                     |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 20.83                 | 21                                  | 0-1                                   |  |  |  |  |
|         | QPSK        |         | 0         | 710                | 23790   | 20.77                 | 21                                  | 0-1                                   |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.60                 | 21                                  | 0-1                                   |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 20.86                 | 21                                  | 0-1                                   |  |  |  |  |
|         |             | 12 RB   | 6         | 710                | 23790   | 20.67                 | 21                                  | 0-1                                   |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.56                 | 21                                  | 0-1                                   |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 20.88                 | 21                                  | O O O O O O O O O O O O O O O O O O O |  |  |  |  |
|         |             |         | 13        | 710                | 23790   | 20.80                 | 21                                  | 0-1                                   |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.71                 | 21                                  | 0-1                                   |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 20.70                 | 21                                  | 0-1                                   |  |  |  |  |
|         |             | 25      | RB        | 710                | 23790   | 20.75                 | 21                                  | 0-1                                   |  |  |  |  |
| 5       |             |         |           | 713.5              | 23825   | 20.65                 | 21                                  | 0-1                                   |  |  |  |  |
| Ĭ       |             |         |           | 706.5              | 23755   | 20.70                 | 21                                  | 0-1                                   |  |  |  |  |
|         |             |         | 0         | 710                | 23790   | 20.76                 | 21                                  | 0-1                                   |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.66                 | 21                                  | 0-1                                   |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 20.69                 | 21                                  | 0-1                                   |  |  |  |  |
|         |             | 1 RB    | 12        | 710                | 23790   | 20.67                 | 21                                  | 0-1                                   |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.51                 | 21                                  |                                       |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 20.78                 | 21                                  | _                                     |  |  |  |  |
|         |             |         | 24        | 710                | 23790   | 20.64                 | 21                                  |                                       |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.78                 | 21                                  |                                       |  |  |  |  |
|         |             |         |           | 706.5              | 23755   | 20.65                 | 21                                  |                                       |  |  |  |  |
|         | 16-QAM      |         | 0         | 710                | 23790   | 20.81                 | 21                                  |                                       |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.64                 | 21                                  |                                       |  |  |  |  |
|         |             |         | _         | 706.5              | 23755   | 20.67                 | 21                                  |                                       |  |  |  |  |
|         |             | 12 RB   | 6         | 710                | 23790   | 20.65                 | 21                                  |                                       |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.58                 | 21                                  |                                       |  |  |  |  |
|         |             |         | 40        | 706.5              | 23755   | 20.81                 | 21                                  |                                       |  |  |  |  |
|         |             |         | 13        | 710                | 23790   | 20.63                 | 21                                  |                                       |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.71                 | 21                                  |                                       |  |  |  |  |
|         |             |         | DD        | 706.5              | 23755   | 20.79                 | 21                                  |                                       |  |  |  |  |
|         |             | 25      | RB        | 710                | 23790   | 20.58                 | 21                                  |                                       |  |  |  |  |
|         |             |         |           | 713.5              | 23825   | 20.44                 | 21                                  | 0-2                                   |  |  |  |  |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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|         | FDD Band 26 |         |           |                    |         |                       |  |                                |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |
|         |             |         |           | 822.5              | 26825   | 22.14                 | 22.5   | 0                              |  |  |  |
|         |             |         | 0         | 831.5              | 26865   | 22.03                 | 22.5   | 0                              |  |  |  |
|         |             |         |           | 841.5              | 26965   | 22.12                 | 22.5   | 0                              |  |  |  |
|         |             |         |           | 822.5              | 26825   | 22.11                 | 22.5   | 0                              |  |  |  |
|         |             | 1 RB    | 36        | 831.5              | 26865   | 22.1                  | 22.5   | 0                              |  |  |  |
|         |             |         |           | 841.5              | 26965   | 22.15                 | 22.5   | 0                              |  |  |  |
|         |             |         |           | 822.5              | 26825   | 22.23                 | 22.5   | 0                              |  |  |  |
|         |             |         | 74        | 831.5              | 26865   | 22.15                 | 22.5   | 0                              |  |  |  |
|         |             |         |           | 841.5              | 26965   | 22.46                 | 22.5   | 0                              |  |  |  |
|         |             | ODOK    | _         | 822.5              | 26825   | 21.35                 | 21.5   | 0-1                            |  |  |  |
|         | QPSK        |         | 0         | 831.5              | 26865   | 21.39                 | 21.5   | 0-1                            |  |  |  |
|         |             | 36 RB   |           | 841.5              | 26965   | 21.36                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 822.5              | 26825   | 21.42                 | 21.5   | 0-1                            |  |  |  |
|         |             |         | 18        | 831.5              | 26865   | 21.41                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 841.5              | 26965   | 21.43                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 822.5              | 26825   | 21.38                 | 21.5   | 0-1                            |  |  |  |
|         |             |         | 37        | 831.5              | 26865   | 21.4                  | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 841.5              | 26965   | 21.49                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 822.5              | 26825   | 21.34                 | 21.5   | 0-1                            |  |  |  |
|         |             | 75      | RB        | 831.5              | 26865   | 21.42                 | 21.5   | 0-1                            |  |  |  |
| 15      |             |         |           | 841.5              | 26965   | 21.48                 | 21.5   | 0-1                            |  |  |  |
|         |             |         | 0         | 822.5              | 26825   | 21.18                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 831.5              | 26865   | 21.31                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 841.5              | 26965   | 21.49                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 822.5              | 26825   | 21.33                 | 21.5   | 0-1                            |  |  |  |
|         |             | 1 RB    | 36        | 831.5              | 26865   | 21.04                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 841.5              | 26965   | 21.2                  | 21.5   | 0-1                            |  |  |  |
|         |             |         | _         | 822.5              | 26825   | 21.12                 | 21.5   | 0-1                            |  |  |  |
|         |             |         | 74        | 831.5              | 26865   | 21.38                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 841.5              | 26965   | 21.44                 | 21.5   | 0-1                            |  |  |  |
|         |             |         | _         | 822.5              | 26825   | 20.15                 | 20.5   | 0-2                            |  |  |  |
|         | 16-QAM      |         | 0         | 831.5              | 26865   | 20.18                 | 20.5   | 0-2                            |  |  |  |
|         |             |         |           | 841.5              | 26965   | 20.33                 | 20.5   | 0-2                            |  |  |  |
|         |             | 00.55   | 4.5       | 822.5              | 26825   | 20.27                 | 20.5   | 0-2                            |  |  |  |
|         |             | 36 RB   | 18        | 831.5              | 26865   | 20.31                 | 20.5   | 0-2                            |  |  |  |
|         |             |         |           | 841.5              | 26965   | 20.36                 | 20.5   | 0-2                            |  |  |  |
|         |             |         | 07        | 822.5              | 26825   | 20.16                 | 20.5   | 0-2                            |  |  |  |
|         |             |         | 37        | 831.5              | 26865   | 20.21                 | 20.5   | 0-2                            |  |  |  |
|         |             |         |           | 841.5              | 26965   | 20.29                 | 20.5   | 0-2                            |  |  |  |
|         |             | 7.      | DD        | 822.5              | 26825   | 20.39                 | 20.5   | 0-2                            |  |  |  |
|         | 75F         |         | KD        | 831.5              | 26865   | 20.45                 | 20.5   | 0-2                            |  |  |  |
|         |             |         |           | 841.5              | 26965   | 20.47                 | 20.5   | 0-2                            |  |  |  |

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|  | FDD Band 26 |            |         |           |       |         |       |                           |                                |     |  |
|--|-------------|------------|---------|-----------|-------|---------|-------|---------------------------|--------------------------------|-----|--|
| 1 RB 25 831.5 26865 21.88 22.5 844 26990 22.12 22.5 82.5 820 26800 22.12 22.5 844 26990 22.08 22.5 820 26800 22.21 22.5 844 26990 22.08 22.5 820 26800 22.21 22.5 820 26800 22.21 22.5 820 26800 22.21 22.5 820 26800 22.21 22.5 820 26800 22.21 22.5 820 26800 22.21 22.5 820 26800 21.31 21.5 820 26800 21.31 21.5 820 26800 21.31 21.5 820 26800 21.34 21.5 820 26800 21.34 21.5 820 26800 21.34 21.5 820 26800 21.34 21.5 820 26800 21.34 21.5 820 26800 21.35 21.5 820 26800 21.36 21.5 820 26800 21.21 21.5 820 26800 21.21 21.5 820 26800 21.21 21.5 820 26800 21.21 21.5 820 26800 21.21 21.5 820 26800 21.36 21.5 820 26800 21.37 21.5 820 26800 21.37 21.5 820 26800 21.37 21.5 820 26800 21.39 21.5 820 26800 21.30 21.5 820 26800 21.30 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 21.33 21.5 820 26800 20.99 20.5 820 26800 20.99 20.5 820 26800 20.99 20.5 820 26800 20.99 20.5 820 26800 20.99 20.5 820 26800 20.23 20.5 820 26800 20.99 20.5 820 26800 20.99 20.5 820 26800 20.90 20.5 820 26800 20.99 20.5 820 26800 20.90 20.5 820 26800 20.90 20.5 820 26800 20.90 20.5 820 26800 20.90 20.5 820 20.5 820 26800 20.90 20.5 820 20.5 820 20.5 820 26800 20.90 20.5 820 20.5  | BW(Mhz)     | Modulation | RB Size | RB Offset |       | Channel |       | Power + Max.<br>Tolerance | MPR<br>Allowed per<br>3GPP(dB) |     |  |
| 1 RB 25 831.5 26865 21.31 21.5 820 26800 21.18 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.31 21.5 831.5 26865 21.35 21.5 831.5 26865 21.37 21.5 831.5 26865 21.31 21.5 831.5 26865 21.29 21.5 831.5 26865 21.2 |             |            |         |           | 820   | 26800   | 22.00 | 22.5                      | 0                              |     |  |
| 1 RB 25 831.5 26865 21.92 22.5 844 26990 21.34 21.5 820 26800 21.18 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.04 20.5 820 26800 20.04 20.5 820 26800 20.23 20.5 820 26800 20.23 20.5 820 26800 20.23 20.5 820 26800 20.26 20.5 820 26800 20.99 20.5 820 26800 20.26 20.5 820 26800 20.99 20.5 820 26800 20.26 20.5 820 26800 20.99 20.5 820 26800 20.26 20.5 820 26800 20.99 20.5 820 26800 20.26 20.5 820 26800 20.99 20.5 820 26800 20.99 20.5 820 26800 20.26 20.5 820 26800 20.99 20.5 820 26800 20.99 20.5 820 26800 20.99 20.5 820 26800 20.99 20.5 820 26800 20.99 20.5 820 26800 20.26 20.5 820 26800 20.99 20.5 820 26800 20.99 20.5 820 26800 20.99 20.5 820 26800 20.99 20.5 820 26800 20.99 20.5 820 26800 20.05 820 26800 20.95 20.5 820 26800 20.99 20.5 820 26800 20.95 20.5 820 26800 20.99 20.5 820 26800 20.95 20.5 820 26800 20.95 20.5 820 26800 20.95 20.5 820 26800 20.95 20.5 820 26800 20.95 20.5 820 26800 20.95 20.5 820 26800 20.95 20.5 820 26800 20.95 20.5 820 26800 20.95 20.5 820 26800 20.95 20.5 820 26800 20.95 20.5 820 26800 20.5 820 20.5 820 26800 20.5 820 20.5 820 26800 20.5 820  |             |            |         | 0         | 831.5 | 26865   | 21.88 | 22.5                      | 0                              |     |  |
| 1 RB   |             |            |         |           | 844   | 26990   | 22.12 | 22.5                      | 0                              |     |  |
| 0PSK   844   26990   22.08   22.5   820   26800   22.21   22.5   844   26990   22.28   22.5   844   26990   22.28   22.5   844   26990   22.28   22.5   844   26990   21.31   21.5   21.5   844   26990   21.34   21.5   21.5   820   26800   21.41   21.5   820   26800   21.41   21.5   820   26800   21.41   21.5   820   26800   21.41   21.5   831.5   26865   21.35   21.5   844   26990   21.36   21.5   831.5   26865   21.31   21.5   831.5   26865   21.31   21.5   831.5   26865   21.31   21.5   831.5   26865   21.31   21.5   844   26990   21.47   21.5   844   26990   21.47   21.5   844   26990   21.37   21.5   820   26800   20.99   21.5   831.5   26865   21.14   21.5   844   26990   21.37   21.5   844   26990   21.37   21.5   844   26990   21.37   21.5   844   26990   21.37   21.5   844   26990   21.37   21.5   844   26990   21.37   21.5   844   26990   21.31   21.5   844   26990   21.31   21.5   844   26990   21.31   21.5   844   26990   21.31   21.5   844   26990   21.31   21.5   844   26990   21.31   21.5   844   26990   21.31   21.5   844   26990   20.10   21.5   844   26990   20.10   21.5   844   26990   20.10   20.5   844   26990   20.04   20.5   844   26990   20.04   20.5   844   26990   20.04   20.5   844   26990   20.04   20.5   844   26990   20.14   20.5   844   26990   20.14   20.5   844   26990   20.26   20.5   844   26990   20.26   20.5   844   26990   20.26   20.5   844   26990   20.26   20.5   844   26990   20.26   20.5   844   26990   20.26   20.5   844   26990   20.26   20.5   844   26990   20.26   20.5   844   26990   20.26   20.5   844   26990   20.26   20.5   20.5   844   26990   20.26   20.5   20.5   844   26990   20.26   20.5   20.5   844   26990   20.26   20.5   20. |             |            |         |           | 820   | 26800   | 21.96 | 22.5                      | 0                              |     |  |
| OPSK   |             |            | 1 RB    | 25        | 831.5 | 26865   | 21.92 | 22.5                      | 0                              |     |  |
| A9 831.5 26865 22.01 22.5 844 26990 22.28 22.5 820 26800 21.31 21.5 844 26990 21.34 21.5 820 26800 21.34 21.5 820 26800 21.34 21.5 820 26800 21.34 21.5 820 26800 21.34 21.5 820 26800 21.34 21.5 820 26800 21.36 21.5 820 26800 21.36 21.5 820 26800 21.36 21.5 820 26800 21.36 21.5 820 26800 21.47 21.5 820 26800 21.47 21.5 820 26800 21.47 21.5 820 26800 21.47 21.5 820 26800 21.48 21.5 831.5 26865 21.27 21.5 824 26990 21.37 21.5 820 26800 21.38 21.5 820 26800 21.38 21.5 820 26800 21.32 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 21.32 21.5 820 26800 20.99 21.5 820 26800 21.32 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 20.5 820 26800 20.04 20.5 820 26800 20.04 20.5 820 26800 20.04 20.5 820 26800 20.23 20.5 820 26800 20.23 20.5 820 26800 20.23 20.5 820 26800 20.23 20.5 820 26800 20.23 20.5 820 26800 20.26 20.5 820 26800 19.98 20.5   |             |            |         |           | 844   | 26990   | 22.08 | 22.5                      | 0                              |     |  |
| OPSK   |             |            |         |           | 820   | 26800   | 22.21 | 22.5                      | 0                              |     |  |
| QPSK  0 831.5 26865 21.21 21.5  844 26990 21.34 21.5  820 26800 21.41 21.5  820 26800 21.41 21.5  821 2831.5 26865 21.35 21.5  824 26990 21.36 21.5  820 26800 21.41 21.5  820 26800 21.21 21.5  820 26800 21.21 21.5  820 26800 21.21 21.5  820 26800 21.21 21.5  821 21.5  822 26865 21.31 21.5  823 26865 21.31 21.5  824 26990 21.47 21.5  820 26800 21.18 21.5  821 26865 21.27 21.5  822 26800 21.32 21.5  824 26990 21.32 21.5  820 26800 20.99 21.5  821 26805 21.14 21.5  822 26800 21.32 21.5  823 26805 21.14 21.5  824 26990 21.37 21.5  825 831.5 26865 21.14 21.5  826 26800 21.32 21.5  827 26805 21.14 21.5  828 26800 21.32 21.5  829 26800 21.32 21.5  820 26800 21.32 21.5  820 26800 21.32 21.5  820 26800 21.32 21.5  820 26800 20.99 21.5  820 26800 20.99 21.5  820 26800 20.99 21.5  820 26800 20.99 21.5  820 26800 20.99 21.5  820 26800 20.99 21.5  820 26800 20.99 21.5  820 26800 20.99 21.5  820 26800 20.99 21.5  820 26800 20.99 21.5  820 26800 20.99 20.5  820 26800 20.04 20.5  820 26800 20.04 20.5  820 26800 20.04 20.5  820 26800 20.04 20.5  820 26800 20.23 20.5  820 26800 20.23 20.5  820 26800 20.23 20.5  820 26800 20.26 20.5  820 26800 20.26 20.5  820 26800 19.98 20.5  |             |            |         | 49        | 831.5 | 26865   | 22.01 | 22.5                      | 0                              |     |  |
| 10 PSK   0   831.5   26865   21.21   21.5  |             |            |         |           | 844   | 26990   | 22.28 | 22.5                      | 0                              |     |  |
| 10    SAME   12   844   26990   21.34   21.5   21.5   26865   21.35   21.5   26865   21.35   21.5   26865   21.35   21.5   26865   21.35   21.5   26865   21.35   21.5   25   25   25   25   25   25   25  |             |            | SK      |           | 820   | 26800   | 21.31 | 21.5                      | 0-1                            |     |  |
| 10    12   |             | QPSK       |         | 0         | 831.5 | 26865   | 21.21 | 21.5                      | 0-1                            |     |  |
| 10  10  10  10  10  10  10  10  10  10   |             |            |         |           | 844   | 26990   | 21.34 | 21.5                      | 0-1                            |     |  |
| 10 844 26990 21.36 21.5 820 26800 21.21 21.5 844 26990 21.47 21.5 820 26800 21.18 21.5 844 26990 21.47 21.5 844 26990 21.47 21.5 844 26990 21.32 21.5 844 26990 21.32 21.5 844 26990 21.32 21.5 844 26990 21.32 21.5 844 26990 21.32 21.5 844 26990 21.37 21.5 844 26990 21.37 21.5 844 26990 21.37 21.5 844 26990 21.37 21.5 844 26990 21.37 21.5 844 26990 21.37 21.5 844 26990 21.37 21.5 844 26990 21.01 21.5 844 26990 21.01 21.5 844 26990 21.01 21.5 844 26990 21.01 21.5 844 26990 21.33 21.5 844 26990 21.33 21.5 844 26990 21.33 21.5 844 26990 21.33 21.5 844 26990 21.33 21.5 844 26990 20.04 20.5 844 26990 20.04 20.5 844 26990 20.04 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26 |             |            |         |           |       | 820     | 26800 | 21.41                     | 21.5                           | 0-1 |  |
| 10 820 26800 21.21 21.5 21.5 831.5 26865 21.31 21.5 820 26800 21.18 21.5 831.5 26865 21.31 21.5 831.5 26865 21.27 21.5 831.5 26865 21.27 21.5 844 26990 21.32 21.5 831.5 26865 21.27 21.5 844 26990 21.32 21.5 831.5 26865 21.14 21.5 831.5 26865 21.14 21.5 831.5 26865 21.14 21.5 831.5 26865 21.14 21.5 831.5 26865 21.14 21.5 831.5 26865 21.14 21.5 831.5 26865 20.91 21.5 831.5 26865 20.91 21.5 831.5 26865 21.29 21.5 831.5 26865 21.29 21.5 831.5 26865 21.29 21.5 831.5 26865 21.29 21.5 831.5 26865 21.29 21.5 831.5 26865 21.29 21.5 831.5 26865 21.29 21.5 831.5 26865 21.29 21.5 831.5 26865 21.29 21.5 831.5 26865 21.29 21.5 831.5 26865 21.29 21.5 831.5 26865 21.29 21.5 831.5 26865 21.29 21.5 831.5 26865 21.29 21.5 831.5 26865 21.29 21.5 831.5 26865 20.04 20.5 8320 26800 20.23 20.5 8320 26800 20.23 20.5 8320 26800 20.23 20.5 8320 26800 20.26 20.5 8320 26800 19.98 20.5   |             |            | 25 RB   | 12        | 831.5 | 26865   | 21.35 | 21.5                      | 0-1                            |     |  |
| 10 25 831.5 26865 21.31 21.5 844 26990 21.47 21.5 820 26800 21.18 21.5 844 26990 21.32 21.5 844 26990 21.32 21.5 844 26990 21.32 21.5 844 26990 21.32 21.5 844 26990 21.32 21.5 844 26990 21.37 21.5 844 26990 21.37 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 844 26990 21.01 21.5 844 26990 21.01 21.5 844 26990 21.01 21.5 844 26990 21.33 21.5 844 26990 21.33 21.5 844 26990 21.33 21.5 844 26990 21.33 21.5 844 26990 20.44 20.5 844 26990 20.44 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.23 20.5 844 26990 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 8 |             |            |         |           | 844   | 26990   | 21.36 | 21.5                      | 0-1                            |     |  |
| 10 844 26990 21.47 21.5 820 26800 21.18 21.5 831.5 26865 21.27 21.5 844 26990 21.32 21.5 844 26990 21.32 21.5 844 26990 21.37 21.5 844 26990 21.37 21.5 820 26800 20.99 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 820 26800 21.32 21.5 844 26990 21.01 21.5 844 26990 21.01 21.5 844 26990 21.01 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.99 21.5 820 26800 20.04 20.5 820 26800 20.04 20.5 820 26800 20.04 20.5 820 26800 20.04 20.5 820 26800 20.23 20.5 820 26800 20.23 20.5 820 26800 20.23 20.5 820 26800 20.26 20.5 820 26800 19.98 20.5  |             |            |         |           | 820   | 26800   | 21.21 | 21.5                      | 0-1                            |     |  |
| 10   SORB   S20   26800   21.18   21.5   |             |            |         | 25        | 831.5 | 26865   | 21.31 | 21.5                      | 0-1                            |     |  |
| 100    SORB   831.5   26865   21.27   21.5     844   26990   21.32   21.5     820   26800   20.99   21.5     844   26990   21.37   21.5     844   26990   21.37   21.5     844   26990   21.37   21.5     820   26800   21.32   21.5     820   26800   21.32   21.5     844   26990   21.01   21.5     844   26990   21.01   21.5     820   26800   20.99   21.5     820   26800   20.99   21.5     820   26800   20.99   21.5     844   26990   21.33   21.5     844   26990   21.33   21.5     820   26800   20.04   20.5     844   26990   20.14   20.5     844   26990   20.14   20.5     844   26990   20.14   20.5     844   26990   20.26   20.5     844   26990   20.26   20.5     844   26990   20.26   20.5     844   26990   20.26   20.5     844   26990   20.26   20.5     844   26990   20.26   20.5     844   26990   20.26   20.5     844   26990   20.26   20.5     844   26990   20.26   20.5     844   26990   20.26   20.5     844   26990   20.26   20.5     820   26800   19.98   20.5   |             |            |         |           | 844   | 26990   | 21.47 | 21.5                      | 0-1                            |     |  |
| 10 844 26990 21.32 21.5  820 26800 20.99 21.5  844 26990 21.37 21.5  844 26990 21.37 21.5  844 26990 21.37 21.5  820 26800 20.91 21.5  821 831.5 26865 20.91 21.5  844 26990 21.01 21.5  844 26990 21.01 21.5  844 26990 21.01 21.5  844 26990 21.33 21.5  844 26990 21.33 21.5  844 26990 21.33 21.5  844 26990 20.04 20.5  844 26990 20.04 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.23 20.5  844 26990 20.26 20.5  844 26990 20.26 20.5  844 26990 20.26 20.5  |             |            |         |           | 820   | 26800   | 21.18 | 21.5                      | 0-1                            |     |  |
| 10 820 26800 20.99 21.5 831.5 26865 21.14 21.5 844 26990 21.37 21.5 844 26990 21.37 21.5 844 26990 21.32 21.5 844 26990 21.01 21.5 844 26990 21.01 21.5 844 26990 21.01 21.5 844 26990 21.33 21.5 844 26990 21.33 21.5 844 26990 21.33 21.5 844 26990 21.33 21.5 844 26990 20.04 20.5 844 26990 20.04 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.23 20.5 844 26990 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844 26900 20.26 20.5 844  |             |            | 50RB    |           |       |         |       |                           | 0-1                            |     |  |
| 1 RB  1 RB  25  820  26800  20.99  21.5  844  26990  21.37  21.5  820  26800  21.32  21.5  820  26800  21.32  21.5  820  26800  21.32  21.5  844  26990  21.01  21.5  820  26800  20.99  21.5  844  26990  21.01  21.5  820  26800  20.99  21.5  844  26990  21.15  820  26800  20.99  21.5  844  26990  21.33  21.5  820  26800  20.04  20.5  844  26990  20.14  20.5  844  26990  20.14  20.5  844  26990  20.14  20.5  844  26990  20.12  20.5  844  26990  20.26  20.5  844  26990  20.26  20.5  844  26990  20.26  20.5  844  26990  20.26  20.5  | 10          |            |         |           | 844   | 26990   | 21.32 | 21.5                      | 0-1                            |     |  |
| 1 RB 25  844 26990 21.37 21.5  820 26800 21.32 21.5  831.5 26865 20.91 21.5  844 26990 21.01 21.5  820 26800 20.99 21.5  49 831.5 26865 21.29 21.5  844 26990 21.33 21.5  820 26800 20.04 20.5  844 26990 21.33 21.5  820 26800 20.04 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.23 20.5  844 26990 20.26 20.5  844 26990 20.26 20.5  844 26990 20.26 20.5   |             |            |         | 0         | 820   | 26800   | 20.99 |                           | 0-1                            |     |  |
| 1 RB 25  820 26800 21.32 21.5  831.5 26865 20.91 21.5  844 26990 21.01 21.5  820 26800 20.99 21.5  49 831.5 26865 21.29 21.5  844 26990 21.33 21.5  820 26800 20.04 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.14 20.5  844 26990 20.12 20.5  844 26990 20.26 20.5  844 26990 20.26 20.5  844 26990 20.26 20.5   |             |            |         |           |       |         | +     |                           | 0-1                            |     |  |
| 1 RB 25 831.5 26865 20.91 21.5 844 26990 21.01 21.5 820 26800 20.99 21.5 844 26990 21.01 21.5 844 26990 21.5 844 26990 21.33 21.5 820 26800 20.04 20.5 820 26800 20.04 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 844 26990 20.14 20.5 820 26800 20.23 20.5 844 26990 20.12 20.5 844 26990 20.26 20.5 844 26990 20.26 20.5 844 26990 20.26 20.5 844 26990 20.26 20.5 820 26800 19.98 20.5  |             |            |         |           |       |         |       |                           | 0-1                            |     |  |
| 844   26990   21.01   21.5     820   26800   20.99   21.5     49   831.5   26865   21.29   21.5     844   26990   21.33   21.5     820   26800   20.04   20.5     820   26800   20.04   20.5     844   26990   20.14   20.5     844   26990   20.14   20.5     820   26800   20.23   20.5     844   26990   20.12   20.5     844   26990   20.26   20.5     844   26990   20.26   20.5     820   26800   19.98   20.5  |             |            |         |           |       |         | +     |                           | 0-1                            |     |  |
| 16-QAM     820   26800   20.99   21.5  |             |            | 1 RB    | 25        |       |         | +     |                           | 0-1                            |     |  |
| 16-QAM  49  831.5 26865 21.29 21.5  844 26990 21.33 21.5  820 26800 20.04 20.5  831.5 26865 19.99 20.5  844 26990 20.14 20.5  820 26800 20.23 20.5  820 26800 20.23 20.5  820 26805 20.12 20.5  844 26990 20.26 20.5  820 26800 19.98 20.5   |             |            |         |           |       |         |       |                           | 0-1                            |     |  |
| 16-QAM  0  844  26990  21.33  21.5  820  26800  20.04  20.5  844  26990  20.14  20.5  844  26990  20.14  20.5  820  26800  20.23  20.5  844  26990  20.12  20.5  844  26990  20.26  20.5  844  26990  20.12  20.5  844  26990  20.26  20.5   |             |            |         | 4.5       |       |         |       |                           | 0-1                            |     |  |
| 16-QAM  0  820 26800 20.04 20.5  831.5 26865 19.99 20.5  844 26990 20.14 20.5  820 26800 20.23 20.5  831.5 26865 20.12 20.5  844 26990 20.26 20.5  844 26990 20.26 20.5  820 26800 19.98 20.5  |             |            |         | 49        |       |         | +     |                           | 0-1                            |     |  |
| 16-QAM 0 831.5 26865 19.99 20.5 844 26990 20.14 20.5 820 26800 20.23 20.5 831.5 26865 20.12 20.5 844 26990 20.26 20.5 844 26990 20.26 20.5 820 26800 19.98 20.5  |             |            |         |           |       |         |       |                           | 0-1                            |     |  |
| 844 26990 20.14 20.5<br>820 26800 20.23 20.5<br>831.5 26865 20.12 20.5<br>844 26990 20.26 20.5<br>820 26800 19.98 20.5   |             | 40.044     |         | _         |       |         | 1     |                           | 0-2                            |     |  |
| 25 RB 12 820 26800 20.23 20.5 831.5 26865 20.12 20.5 844 26990 20.26 20.5 820 26800 19.98 20.5   |             | 16-QAM     |         | U         |       |         |       |                           | 0-2                            |     |  |
| 25 RB 12 831.5 26865 20.12 20.5 844 26990 20.26 20.5 820 26800 19.98 20.5  |             |            |         |           |       |         | 1     |                           | 0-2                            |     |  |
| 844     26990     20.26     20.5       820     26800     19.98     20.5  |             |            | 0E DD   | 40        |       |         |       |                           | 0-2                            |     |  |
| 820 26800 19.98 20.5   |             |            | ∠5 KB   | 12        |       |         |       |                           | 0-2                            |     |  |
|  |             |            |         |           |       |         |       |                           | 0-2                            |     |  |
| 23 831.5 20805 20.09 20.5  |             |            |         | 25        |       |         | +     |                           | 0-2                            |     |  |
| 944 36000 30.44 00.5   |             |            |         | 20        |       |         |       |                           | 0-2                            |     |  |
| 844 26990 20.11 20.5   |             |            |         |           |       |         | +     |                           | 0-2                            |     |  |
| 820 26800 20.22 20.5<br>50RB 831.5 26865 20.33 20.5  |             |            | 50      | RR        |       |         |       |                           | 0-2                            |     |  |
| 50RB 831.5 26865 20.33 20.5 844 26990 20.42 20.5   |             |            | 50RB    |           |       |         |       |                           | 0-2<br>0-2                     |     |  |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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SGS Taiwan Ltd.



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|         | FDD Band 26 |         |           |                    |         |                       |  |                                |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |
|         |             |         |           | 816.5              | 26715   | 21.99                 | 22.5   | 0                              |  |  |  |
|         |             |         | 0         | 831.5              | 26865   | 21.98                 | 22.5   | 0                              |  |  |  |
|         |             |         |           | 846.5              | 27015   | 22.06                 | 22.5   | 0                              |  |  |  |
|         |             | 1 RB    |           | 816.5              | 26715   | 22.07                 | 22.5   | 0                              |  |  |  |
|         |             |         | 12        | 831.5              | 26865   | 21.94                 | 22.5   | 0                              |  |  |  |
|         |             |         |           | 846.5              | 27015   | 22.12                 | 22.5   | 0                              |  |  |  |
|         |             |         |           | 816.5              | 26715   | 22.20                 | 22.5   | 0                              |  |  |  |
|         |             |         | 24        | 831.5              | 26865   | 22.08                 | 22.5   | 0                              |  |  |  |
|         |             |         |           | 846.5              | 27015   | 22.27                 | 22.5   | 0                              |  |  |  |
|         |             |         |           | 816.5              | 26715   | 21.28                 | 21.5   | 0-1                            |  |  |  |
|         | QPSK        |         | 0         | 831.5              | 26865   | 21.23                 | 21.5   | 0-1                            |  |  |  |
|         |             | 12 RB   |           | 846.5              | 27015   | 21.34                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 816.5              | 26715   | 21.39                 | 21.5   | 0-1                            |  |  |  |
|         |             |         | 6         | 831.5              | 26865   | 21.32                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 846.5              | 27015   | 21.42                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 816.5              | 26715   | 21.36                 | 21.5   | 0-1                            |  |  |  |
|         |             |         | 13        | 831.5              | 26865   | 21.21                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 846.5              | 27015   | 21.45                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 816.5              | 26715   | 21.19                 | 21.5   | 0-1                            |  |  |  |
|         |             | 25      | RB        | 831.5              | 26865   | 21.25                 | 21.5   | 0-1                            |  |  |  |
| 5       |             |         |           | 846.5              | 27015   | 21.41                 | 21.5   | 0-1                            |  |  |  |
|         |             |         | 0         | 816.5              | 26715   | 21.15                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 831.5              | 26865   | 21.12                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 846.5              | 27015   | 21.36                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 816.5              | 26715   | 21.32                 | 21.5   | 0-1                            |  |  |  |
|         |             | 1 RB    | 12        | 831.5              | 26865   | 20.90                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 846.5              | 27015   | 21.07                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 816.5              | 26715   | 21.00                 | 21.5   | 0-1                            |  |  |  |
|         |             |         | 24        | 831.5              | 26865   | 21.32                 | 21.5   | 0-1                            |  |  |  |
|         |             |         |           | 846.5              | 27015   | 21.41                 | 21.5   | 0-1                            |  |  |  |
|         | 40.044      |         |           | 816.5              | 26715   | 20.09                 | 20.5   | 0-2                            |  |  |  |
|         | 16-QAM      |         | 0         | 831.5              | 26865   | 19.99                 | 20.5   | 0-2                            |  |  |  |
|         |             |         |           | 846.5              | 27015   | 20.28                 | 20.5   | 0-2                            |  |  |  |
|         |             | 40.00   |           | 816.5              | 26715   | 20.27                 | 20.5   | 0-2                            |  |  |  |
|         |             | 12 RB   | 6         | 831.5              | 26865   | 20.15                 | 20.5   | 0-2                            |  |  |  |
|         |             |         |           | 846.5              | 27015   | 20.33                 | 20.5   | 0-2                            |  |  |  |
|         |             |         | 10        | 816.5              | 26715   | 20.08                 | 20.5   | 0-2                            |  |  |  |
|         |             |         | 13        | 831.5              | 26865   | 20.14                 | 20.5   | 0-2                            |  |  |  |
|         |             |         |           | 846.5              | 27015   | 20.24                 | 20.5   | 0-2                            |  |  |  |
|         |             | 0.5     | DD        | 816.5              | 26715   | 20.37                 | 20.5   | 0-2                            |  |  |  |
|         | 25R         | ΝĎ      | 831.5     | 26865              | 20.37   | 20.5                  | 0-2  |                                |  |  |  |
|         |             |         |           | 846.5              | 27015   | 20.37                 | 20.5   | 0-2                            |  |  |  |

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|         | FDD Band 26 |         |           |                    |         |                       |  |                                |     |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|-----|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |     |  |  |
|         |             |         |           | 815.5              | 26705   | 22.06                 | 22.5   | 0                              |     |  |  |
|         |             |         | 0         | 831.5              | 26865   | 21.90                 | 22.5   | 0                              |     |  |  |
|         |             |         |           | 847.5              | 27025   | 22.02                 | 22.5   | 0                              |     |  |  |
|         |             |         |           | 815.5              | 26705   | 22.05                 | 22.5   | 0                              |     |  |  |
|         |             | 1 RB    | 7         | 831.5              | 26865   | 22.09                 | 22.5   | 0                              |     |  |  |
|         |             |         |           | 847.5              | 27025   | 22.07                 | 22.5   | 0                              |     |  |  |
|         |             |         |           | 815.5              | 26705   | 22.09                 | 22.5   | 0                              |     |  |  |
|         |             |         | 14        | 831.5              | 26865   | 22.14                 | 22.5   | 0                              |     |  |  |
|         |             |         |           | 847.5              | 27025   | 22.32                 | 22.5   | 0                              |     |  |  |
|         |             |         |           | 815.5              | 26705   | 21.18                 | 21.5   | 0-1                            |     |  |  |
|         | QPSK        |         | 0         | 831.5              | 26865   | 21.38                 | 21.5   | 0-1                            |     |  |  |
|         |             |         |           | 847.5              | 27025   | 21.30                 | 21.5   | 0-1                            |     |  |  |
|         |             |         |           |                    | 815.5   | 26705                 | 21.29  | 21.5                           | 0-1 |  |  |
|         |             | 8 RB    | 4         | 831.5              | 26865   | 21.22                 | 21.5   | 0-1                            |     |  |  |
|         |             |         |           | 847.5              | 27025   | 21.36                 | 21.5   | 0-1                            |     |  |  |
|         |             |         |           | 815.5              | 26705   | 21.26                 | 21.5   | 0-1                            |     |  |  |
|         |             |         | 7         | 831.5              | 26865   | 21.26                 | 21.5   | 0-1                            |     |  |  |
|         |             |         |           | 847.5              | 27025   | 21.38                 | 21.5   | 0-1                            |     |  |  |
|         |             |         |           | 815.5              | 26705   | 21.24                 | 21.5   | 0-1                            |     |  |  |
|         |             | 15      | RB        | 831.5              | 26865   | 21.23                 | 21.5   | 0-1                            |     |  |  |
| 3       |             |         |           | 847.5              | 27025   | 21.48                 | 21.5   | 0-1                            |     |  |  |
|         |             |         | 0         | 815.5              | 26705   | 21.03                 | 21.5   | 0-1                            |     |  |  |
|         |             |         |           | 831.5              | 26865   | 21.18                 | 21.5   | 0-1                            |     |  |  |
|         |             |         |           | 847.5              | 27025   | 21.42                 | 21.5   | 0-1                            |     |  |  |
|         |             |         |           | 815.5              | 26705   | 21.26                 | 21.5   | 0-1                            |     |  |  |
|         |             | 1 RB    | 7         | 831.5              | 26865   | 21.03                 | 21.5   | 0-1                            |     |  |  |
|         |             |         |           | 847.5              | 27025   | 21.19                 | 21.5   | 0-1                            |     |  |  |
|         |             |         |           | 815.5              | 26705   | 21.06                 | 21.5   | 0-1                            |     |  |  |
|         |             |         | 14        | 831.5              | 26865   | 21.28                 | 21.5   | 0-1                            |     |  |  |
|         |             |         |           | 847.5              | 27025   | 21.26                 | 21.5   | 0-1                            |     |  |  |
|         |             |         |           | 815.5              | 26705   | 20.13                 | 20.5   | 0-2                            |     |  |  |
|         | 16-QAM      |         | 0         | 831.5              | 26865   | 20.02                 | 20.5   | 0-2                            |     |  |  |
|         |             |         |           | 847.5              | 27025   | 20.32                 | 20.5   | 0-2                            |     |  |  |
|         |             | _       |           | 815.5              | 26705   | 20.21                 | 20.5   | 0-2                            |     |  |  |
|         |             | 8 RB    | 4         | 831.5              | 26865   | 20.25                 | 20.5   | 0-2                            |     |  |  |
|         |             |         |           | 847.5              | 27025   | 20.30                 | 20.5   | 0-2                            |     |  |  |
|         |             |         | _         | 815.5              | 26705   | 19.97                 | 20.5   | 0-2                            |     |  |  |
|         |             |         | 7         | 831.5              | 26865   | 20.16                 | 20.5   | 0-2                            |     |  |  |
|         |             |         |           | 847.5              | 27025   | 20.25                 | 20.5   | 0-2                            |     |  |  |
|         |             |         |           | 815.5              | 26705   | 20.31                 | 20.5   | 0-2                            |     |  |  |
|         | 15          | RB      | 831.5     | 26865              | 20.39   | 20.5                  | 0-2  |                                |     |  |  |
|         |             |         |           | 847.5              | 27025   | 20.45                 | 20.5   | 0-2                            |     |  |  |

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|         | FDD Band 26 |         |           |                    |         |                       |  |                                |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |  |
|         |             |         |           | 814.7              | 26697   | 22.07                 | 22.5   | 0                              |  |  |  |  |
|         |             |         | 0         | 831.5              | 26865   | 21.84                 | 22.5   | 0                              |  |  |  |  |
|         |             |         |           | 848.3              | 27033   | 21.94                 | 22.5   | 0                              |  |  |  |  |
|         |             |         |           | 814.7              | 26697   | 22.10                 | 22.5   | 0                              |  |  |  |  |
|         |             | 1 RB    | 2         | 831.5              | 26865   | 22.10                 | 22.5   | 0                              |  |  |  |  |
|         |             |         |           | 848.3              | 27033   | 22.00                 | 22.5   | 0                              |  |  |  |  |
|         |             |         |           | 814.7              | 26697   | 22.14                 | 22.5   | 0                              |  |  |  |  |
|         |             |         | 5         | 831.5              | 26865   | 22.12                 | 22.5   | 0                              |  |  |  |  |
|         |             |         |           | 848.3              | 27033   | 22.32                 | 22.5   | 0                              |  |  |  |  |
|         |             |         |           | 814.7              | 26697   | 22.00                 | 22.5   | 0                              |  |  |  |  |
|         | QPSK        |         | 0         | 831.5              | 26865   | 22.09                 | 22.5   | 0                              |  |  |  |  |
|         |             |         |           | 848.3              | 27033   | 22.12                 | 22.5   | 0                              |  |  |  |  |
|         |             | 3 RB    |           | 814.7              | 26697   | 22.03                 | 22.5   | 0                              |  |  |  |  |
|         |             |         | 2         | 831.5              | 26865   | 22.03                 | 22.5   | 0                              |  |  |  |  |
|         |             |         |           | 848.3              | 27033   | 22.14                 | 22.5   | 0                              |  |  |  |  |
|         |             |         |           | 814.7              | 26697   | 22.02                 | 22.5   | 0                              |  |  |  |  |
|         |             |         | 3         | 831.5              | 26865   | 22.02                 | 22.5   | 0                              |  |  |  |  |
|         |             |         |           | 848.3              | 27033   | 22.24                 | 22.5   | 0                              |  |  |  |  |
|         |             |         |           | 814.7              | 26697   | 21.25                 | 21.5   | 0-1                            |  |  |  |  |
|         |             | 6F      | RB        | 831.5              | 26865   | 21.35                 | 21.5   | 0-1                            |  |  |  |  |
| 1.4     |             |         |           | 848.3              | 27033   | 21.35                 | 21.5   | 0-1                            |  |  |  |  |
| 1.4     |             |         | 0         | 814.7              | 26697   | 21.13                 | 21.5   | 0-1                            |  |  |  |  |
|         |             |         |           | 831.5              | 26865   | 21.20                 | 21.5   | 0-1                            |  |  |  |  |
|         |             |         |           | 848.3              | 27033   | 21.39                 | 21.5   | 0-1                            |  |  |  |  |
|         |             |         |           | 814.7              | 26697   | 21.20                 | 21.5   | 0-1                            |  |  |  |  |
|         |             | 1 RB    | 2         | 831.5              | 26865   | 20.99                 | 21.5   | 0-1                            |  |  |  |  |
|         |             |         |           | 848.3              | 27033   | 21.19                 | 21.5   | 0-1                            |  |  |  |  |
|         |             |         |           | 814.7              | 26697   | 20.99                 | 21.5   | 0-1                            |  |  |  |  |
|         |             |         | 5         | 831.5              | 26865   | 21.30                 | 21.5   | 0-1                            |  |  |  |  |
|         |             |         |           | 848.3              | 27033   | 21.40                 | 21.5   | 0-1                            |  |  |  |  |
|         |             |         |           | 814.7              | 26697   | 20.94                 | 21.5   | 0-1                            |  |  |  |  |
|         | 16-QAM      |         | 0         | 831.5              | 26865   | 20.86                 | 21.5   | 0-1                            |  |  |  |  |
|         |             |         |           | 848.3              | 27033   | 21.02                 | 21.5   | 0-1                            |  |  |  |  |
|         |             |         |           | 814.7              | 26697   | 20.93                 | 21.5   | 0-1                            |  |  |  |  |
|         |             | 3 RB    | 2         | 831.5              | 26865   | 21.06                 | 21.5   | 0-1                            |  |  |  |  |
|         |             |         |           | 848.3              | 27033   | 21.06                 | 21.5   | 0-1                            |  |  |  |  |
|         |             |         |           | 814.7              | 26697   | 20.94                 | 21.5   | 0-1                            |  |  |  |  |
|         |             |         | 3         | 831.5              | 26865   | 20.85                 | 21.5   | 0-1                            |  |  |  |  |
|         |             |         |           | 848.3              | 27033   | 21.01                 | 21.5   | 0-1                            |  |  |  |  |
|         |             |         |           | 814.7              | 26697   | 20.30                 | 20.5   | 0-2                            |  |  |  |  |
|         |             | 6F      | RB        | 831.5              | 26865   | 20.31                 | 20.5   | 0-2                            |  |  |  |  |
|         |             |         |           | 848.3              | 27033   | 20.30                 | 20.5   | 0-2                            |  |  |  |  |

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|         |            |            |           | FDD Band 30        |         |                       |  |                                |      |       |       |    |   |
|---------|------------|------------|-----------|--------------------|---------|-----------------------|--|--------------------------------|------|-------|-------|----|---|
| BW(Mhz) | Modulation | RB Size    | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |      |       |       |    |   |
|         |            |            | 0         | 2310               | 27710   | 18.95                 | 19   | 0                              |      |       |       |    |   |
|         | 1 RB       | 1 RB       | 25        | 2310               | 27710   | 18.91                 | 19   | 0                              |      |       |       |    |   |
|         |            |            | 49        | 2310               | 27710   | 18.87                 | 19   | 0                              |      |       |       |    |   |
|         | QPSK       | QPSK 25 RB | 0         | 2310               | 27710   | 18.84                 | 19   | 0                              |      |       |       |    |   |
|         |            |            | 12        | 2310               | 27710   | 18.89                 | 19   | 0                              |      |       |       |    |   |
|         |            |            | 25        | 2310               | 27710   | 18.85                 | 19   | 0                              |      |       |       |    |   |
| 10      |            | 50         | RB        | 2310               | 27710   | 19.00                 | 19   | 0                              |      |       |       |    |   |
| 10      |            |            | 0         | 2310               | 27710   | 18.94                 | 19   | 0                              |      |       |       |    |   |
|         |            |            |           |                    |         |                       | 1 RB   | 25                             | 2310 | 27710 | 18.87 | 19 | 0 |
|         |            |            | 49        | 2310               | 27710   | 18.76                 | 19   | 0                              |      |       |       |    |   |
|         | 16-QAM     |            | 0         | 2310               | 27710   | 18.82                 | 19   | 0                              |      |       |       |    |   |
|         |            | 25 RB      | 12        | 2310               | 27710   | 18.85                 | 19   | 0                              |      |       |       |    |   |
|         |            |            | 25        | 2310               | 27710   | 18.88                 | 19   | 0                              |      |       |       |    |   |
|         | -          | -          | 50        | RB                 | 2310    | 27710                 | 18.98  | 19                             | 0    |       |       |    |   |

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|         | FDD Band 30 |         |           |                    |                |                       |  |                                |  |  |  |  |
|---------|-------------|---------|-----------|--------------------|----------------|-----------------------|--|--------------------------------|--|--|--|--|
| BW(Mhz) | Modulation  | RB Size | RB Offset | Frequency<br>(MHz) | Channel        | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |  |
|         |             |         |           | 2307.5             | 27685          | 18.85                 | 19   | 0                              |  |  |  |  |
|         |             |         | 0         | 2310               | 27710          | 18.65                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2312.5             | 27735          | 18.84                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2307.5             | 27685          | 18.68                 | 19   | 0                              |  |  |  |  |
|         |             | 1 RB    | 12        | 2310               | 27710          | 18.75                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2312.5             | 27735          | 18.83                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2307.5             | 27685          | 18.84                 | 19   | 0                              |  |  |  |  |
|         |             |         | 24        | 2310               | 27710          | 18.68                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2312.5             | 27735          | 18.91                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2307.5             | 27685          | 18.78                 | 19   | 0                              |  |  |  |  |
|         | QPSK        |         | 0         | 2310               | 27710          | 18.71                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2312.5             | 27735          | 18.77                 | 19   | 0                              |  |  |  |  |
|         |             | 12 RB   |           | 2307.5             | 27685          | 18.69                 | 19   | 0                              |  |  |  |  |
|         |             |         | 6         | 2310               | 27710          | 18.69                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2312.5             | 27735          | 18.77                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2307.5             | 27685          | 18.78                 | 19   | 0                              |  |  |  |  |
|         |             |         | 13        | 2310               | 27710          | 18.76                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2312.5             | 27735          | 18.89                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2307.5             | 27685          | 18.78                 | 19   | 0                              |  |  |  |  |
|         |             | 25      | RB        | 2310               | 27710          | 18.81                 | 19   | 0                              |  |  |  |  |
| 5       |             |         |           | 2312.5             | 27735          | 18.72                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2307.5             | 27685          | 18.59                 | 19   | 0                              |  |  |  |  |
|         |             |         | 0         | 2310               | 27710          | 18.57                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2312.5             | 27735          | 18.93                 | 19   | 0                              |  |  |  |  |
|         |             | 4.00    | 40        | 2307.5             | 27685          | 18.81                 | 19   | 0                              |  |  |  |  |
|         |             | 1 RB    | 12        | 2310               | 27710          | 18.70                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2312.5             | 27735          | 18.93                 | 19   | 0                              |  |  |  |  |
|         |             |         | 0.4       | 2307.5             | 27685          | 18.95                 | 19   | 0                              |  |  |  |  |
|         |             |         | 24        | 2310               | 27710          | 18.81                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2312.5             | 27735          | 18.84                 | 19   | 0                              |  |  |  |  |
|         | 16 OAM      |         | 0         | 2307.5             | 27685          | 18.73                 | 19   | 0                              |  |  |  |  |
|         | 16-QAM      |         | U         | 2310               | 27710          | 18.77                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2312.5             | 27735          | 18.64                 | 19   | 0                              |  |  |  |  |
|         |             | 12 RB   | 6         | 2307.5<br>2310     | 27685<br>27710 | 18.62<br>18.73        | 19<br>19                                     | 0                              |  |  |  |  |
|         |             | IZ ND   | 0         | 2310               | 27735          | 18.73                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2312.5             | 27685          | 18.79                 | 19   | 0                              |  |  |  |  |
|         |             |         | 13        | 2307.5             | 27710          | 18.85                 | 19   | 0                              |  |  |  |  |
|         |             |         | 13        | 2312.5             | 27735          | 18.77                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2312.5             | 27685          | 18.58                 | 19   | 0                              |  |  |  |  |
|         |             | 25      | RB        | 2307.5             | 27710          | 18.88                 | 19   | 0                              |  |  |  |  |
|         |             | 23      |           | 2312.5             | 27735          | 18.85                 | 19   | 0                              |  |  |  |  |
|         |             |         |           | 2012.0             | 21133          | 10.00                 | 13   | U                              |  |  |  |  |

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| FDD Band 66 |            |         |           |                    |                  |                       |              |                                |  |  |
|-------------|------------|---------|-----------|--------------------|------------------|-----------------------|--------------|--------------------------------|--|--|
|             |            |         |           | 33.                |                  |                       | Target       |                                |  |  |
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel          | Conducted power (dBm) | Power + Max. | MPR<br>Allowed per<br>3GPP(dB) |  |  |
|             |            |         |           | 1720               | 132072           | 18.29                 | 18.5         | 0                              |  |  |
|             |            |         | 0         | 1745               | 132322           | 18.23                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1770               | 132572           | 18.45                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1720               | 132072           | 18.11                 | 18.5         | 0                              |  |  |
|             |            | 1 RB    | 50        | 1745               | 132322           | 18.35                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1770               | 132572           | 18.32                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1720               | 132072           | 18.27                 | 18.5         | 0                              |  |  |
|             |            |         | 99        | 1745               | 132322           | 18.44                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1770               | 132572           | 18.36                 | 18.5         | 0                              |  |  |
|             |            | 0.001/  |           | 1720               | 132072           | 18.22                 | 18.5         | 0                              |  |  |
|             | QPSK       |         | 0         | 1745               | 132322           | 18.24                 | 18.5         | 0                              |  |  |
|             |            | 50 RB   |           | 1770               | 132572           | 18.43                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1720               | 132072           | 18.24                 | 18.5         | 0                              |  |  |
|             |            |         | 25        | 1745               | 132322           | 18.26                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1770               | 132572           | 18.25                 | 18.5         | 0                              |  |  |
|             |            |         | 50        | 1720               | 132072           | 18.20                 | 18.5         | 0                              |  |  |
|             |            |         | 50        | 1745               | 132322           | 18.44                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1770               | 132572           | 18.16                 | 18.5         | 0                              |  |  |
|             |            | 400     | NDD.      | 1720               | 132072           | 18.39                 | 18.5         | 0                              |  |  |
|             |            | 100     | )RB       | 1745               | 132322           | 18.46                 | 18.5         | 0                              |  |  |
| 20          |            |         | 1         | 1770               | 132572           | 18.45                 | 18.5         | 0                              |  |  |
|             |            |         | 0         | 1720<br>1745       | 132072<br>132322 | 18.10<br>17.89        | 18.5<br>18.5 | 0                              |  |  |
|             |            |         |           | 1745               |                  | +                     |              | 0                              |  |  |
|             |            |         |           | 1770               | 132572<br>132072 | 18.37<br>18.09        | 18.5<br>18.5 | 0                              |  |  |
|             |            | 1 RB    | 50        | 1745               | 132322           | 18.37                 | 18.5         | 0                              |  |  |
|             |            | TRE     | 00        | 1770               | 132572           | 18.24                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1770               | 132072           | 18.10                 | 18.5         | 0                              |  |  |
|             |            |         | 99        | 1745               | 132322           | 18.42                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1770               | 132572           | 18.26                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1720               | 132072           | 17.89                 | 18.5         | 0                              |  |  |
|             | 16-QAM     |         | 0         | 1745               | 132322           | 17.95                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1770               | 132572           | 18.11                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1720               | 132072           | 17.93                 | 18.5         | 0                              |  |  |
|             |            | 50 RB   | 25        | 1745               | 132322           | 17.97                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1770               | 132572           | 17.90                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1720               | 132072           | 18.02                 | 18.5         | 0                              |  |  |
|             |            |         | 50        | 1745               | 132322           | 18.11                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1770               | 132572           | 17.88                 | 18.5         | 0                              |  |  |
|             |            |         |           | 1720               | 132072           | 18.25                 | 18.5         | 0                              |  |  |
|             |            | 100RB   |           | 1745               | 132322           | 18.24                 | 18.5         | 0                              |  |  |
|             | 1001       |         | 1770      | 132572             | 18.12            | 18.5                  | 0            |                                |  |  |

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| FDD Band 66 |            |         |           |                    |         |                       |                                     |                                |  |  |  |
|-------------|------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|--------------------------------|--|--|--|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |
|             |            |         |           | 1717.5             | 132047  | 18.00                 | 18.5                                | 0                              |  |  |  |
|             |            |         | 0         | 1745               | 132322  | 18.07                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1772.5             | 132597  | 17.92                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1717.5             | 132047  | 17.87                 | 18.5                                | 0                              |  |  |  |
|             |            | 1 RB    | 36        | 1745               | 132322  | 17.71                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1772.5             | 132597  | 17.96                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1717.5             | 132047  | 17.60                 | 18.5                                | 0                              |  |  |  |
|             |            |         | 74        | 1745               | 132322  | 18.23                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1772.5             | 132597  | 18.06                 | 18.5                                | 0                              |  |  |  |
|             |            | 2014    |           | 1717.5             | 132047  | 17.83                 | 18.5                                | 0                              |  |  |  |
|             | QPSK       |         | 0         | 1745               | 132322  | 18.05                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1772.5             | 132597  | 18.00                 | 18.5                                | 0                              |  |  |  |
|             | 36 RB      |         | 1717.5    | 132047             | 17.87   | 18.5                  | 0                                   |                                |  |  |  |
|             |            | 36 RB   | 18        | 1745               | 132322  | 18.07                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1772.5             | 132597  | 17.93                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1717.5             | 132047  | 17.94                 | 18.5                                | 0                              |  |  |  |
|             |            |         | 37        | 1745               | 132322  | 18.18                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1772.5             | 132597  | 17.93                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1717.5             | 132047  | 18.01                 | 18.5                                | 0                              |  |  |  |
|             |            | 75      | RB        | 1745               | 132322  | 18.21                 | 18.5                                | 0                              |  |  |  |
| 15          |            |         |           | 1772.5             | 132597  | 18.10                 | 18.5                                | 0                              |  |  |  |
|             |            |         | 0         | 1717.5             | 132047  | 17.69                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1745               | 132322  | 18.01                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1772.5             | 132597  | 18.39                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1717.5             | 132047  | 17.81                 | 18.5                                | 0                              |  |  |  |
|             |            | 1 RB    | 36        | 1745               | 132322  | 18.43                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1772.5             | 132597  | 18.41                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1717.5             | 132047  | 17.77                 | 18.5                                | 0                              |  |  |  |
|             |            |         | 74        | 1745               | 132322  | 18.39                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1772.5             | 132597  | 17.98                 | 18.5                                | 0                              |  |  |  |
|             | 40.0       |         |           | 1717.5             | 132047  | 17.80                 | 18.5                                | 0                              |  |  |  |
|             | 16-QAM     |         | 0         | 1745               | 132322  | 17.90                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1772.5             | 132597  | 17.92                 | 18.5                                | 0                              |  |  |  |
|             |            | 00 DD   | 40        | 1717.5             | 132047  | 17.89                 | 18.5                                | 0                              |  |  |  |
|             |            | 36 RB   | 18        | 1745               | 132322  | 17.96                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1772.5             | 132597  | 17.84                 | 18.5                                | 0                              |  |  |  |
|             |            |         | 27        | 1717.5             | 132047  | 17.92                 | 18.5                                | 0                              |  |  |  |
|             |            |         | 37        | 1745               | 132322  | 18.09                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1772.5             | 132597  | 17.72                 | 18.5                                | 0                              |  |  |  |
|             |            | 75      | DD        | 1717.5             | 132047  | 18.07                 | 18.5                                | 0                              |  |  |  |
|             | 75F        |         | KD        | 1745               | 132322  | 18.20                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1772.5             | 132597  | 18.13                 | 18.5                                | 0                              |  |  |  |

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|-------------|------------|---------|-----------|--------------------|------------------|-----------------------|-------------------------------------|--------------------------------|--|--|--|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel          | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB) |  |  |  |
|             |            |         |           | 1715               | 132022           | 17.93                 | 18.5                                | 0                              |  |  |  |
|             |            |         | 0         | 1745               | 132322           | 18.11                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1775               | 132622           | 17.84                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1715               | 132022           | 17.83                 | 18.5                                | 0                              |  |  |  |
|             |            | 1 RB    | 25        | 1745               | 132322           | 18.04                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1775               | 132622           | 17.67                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1715               | 132022           | 17.83                 | 18.5                                | 0                              |  |  |  |
|             |            |         | 49        | 1745               | 132322           | 18.11                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1775               | 132622           | 17.88                 | 18.5                                | 0                              |  |  |  |
|             |            | NDO!    | _         | 1715               | 132022           | 17.84                 | 18.5                                | 0                              |  |  |  |
|             | QPSK       |         | 0         | 1745               | 132322           | 17.96                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1775               | 132622           | 17.87                 | 18.5                                | 0                              |  |  |  |
|             |            | 25 RB   |           | 1715               | 132022           | 17.82                 | 18.5                                | 0                              |  |  |  |
|             |            |         | 12        | 1745               | 132322           | 17.99                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1775               | 132622           | 17.77                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1715               | 132022           | 17.86                 | 18.5                                | 0                              |  |  |  |
|             |            |         | 25        | 1745               | 132322           | 18.04                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1775               | 132622           | 17.84                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1715               | 132022           | 17.93                 | 18.5                                | 0                              |  |  |  |
|             |            | 50      | RB        | 1745               | 132322           | 18.13                 | 18.5                                | 0                              |  |  |  |
| 10          |            |         | 1         | 1775               | 132622           | 18.00                 | 18.5                                | 0                              |  |  |  |
|             |            |         | 0         | 1715               | 132022           | 18.44                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1745               | 132322           | 17.94                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1775               | 132622           | 18.43                 | 18.5                                | 0                              |  |  |  |
|             |            | 1 RB    | 25        | 1715               | 132022           | 18.14                 | 18.5                                | 0                              |  |  |  |
|             |            | IRB     | 25        | 1745               | 132322           | 18.34                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1775<br>1715       | 132622           | 18.09                 | 18.5                                | 0                              |  |  |  |
|             |            |         | 49        | 1715               | 132022<br>132322 | 18.36<br>18.42        | 18.5<br>18.5                        | 0                              |  |  |  |
|             |            |         | 43        | 1745               | 132622           | 18.14                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1775               | 132022           | 17.75                 | 18.5                                | 0                              |  |  |  |
|             | 16-QAM     |         | 0         | 1745               | 132322           | 17.73                 | 18.5                                | 0                              |  |  |  |
|             | 10 30 1111 |         |           | 1775               | 132622           | 17.60                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1715               | 132022           | 17.76                 | 18.5                                | 0                              |  |  |  |
|             |            | 25 RB   | 12        | 1745               | 132322           | 17.88                 | 18.5                                | 0                              |  |  |  |
|             |            |         | _         | 1775               | 132622           | 17.69                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1715               | 132022           | 17.72                 | 18.5                                | 0                              |  |  |  |
|             |            |         | 25        | 1745               | 132322           | 17.96                 | 18.5                                | 0                              |  |  |  |
|             |            |         |           | 1775               | 132622           | 17.86                 | 18.5                                | 0                              |  |  |  |
|             |            |         | 1         | 1715               | 132022           | 17.80                 | 18.5                                | 0                              |  |  |  |
|             |            | 50      | RB        | 1745               | 132322           | 18.04                 | 18.5                                | 0                              |  |  |  |
|             | 50R        |         |           | 1775               | 132622           | 17.97                 | 18.5                                | 0                              |  |  |  |

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| FDD Band 66 |            |         |           |                    |         |                       |                                     |                                |   |  |  |
|-------------|------------|---------|-----------|--------------------|---------|-----------------------|-------------------------------------|--------------------------------|---|--|--|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR<br>Allowed per<br>3GPP(dB) |   |  |  |
|             |            |         |           | 1712.5             | 131997  | 17.89                 | 18.5                                | 0                              |   |  |  |
|             |            |         | 0         | 1745               | 132322  | 17.93                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1777.5             | 132647  | 17.57                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1712.5             | 131997  | 17.93                 | 18.5                                | 0                              |   |  |  |
|             |            | 1 RB    | 12        | 1745               | 132322  | 18.14                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1777.5             | 132647  | 17.80                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1712.5             | 131997  | 17.59                 | 18.5                                | 0                              |   |  |  |
|             |            |         | 24        | 1745               | 132322  | 18.20                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1777.5             | 132647  | 17.96                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1712.5             | 131997  | 17.64                 | 18.5                                | 0                              |   |  |  |
|             | QPSK       |         | 0         | 1745               | 132322  | 17.85                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1777.5             | 132647  | 17.76                 | 18.5                                | 0                              |   |  |  |
|             |            | 12 RB   | 10.00     |                    | 1712.5  | 131997                | 17.71                               | 18.5                           | 0 |  |  |
|             |            |         | 6         | 1745               | 132322  | 17.88                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1777.5             | 132647  | 17.78                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1712.5             | 131997  | 17.70                 | 18.5                                | 0                              |   |  |  |
|             |            |         | 13        | 1745               | 132322  | 17.93                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1777.5             | 132647  | 17.87                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1712.5             | 131997  | 17.82                 | 18.5                                | 0                              |   |  |  |
|             |            | 25      | RB        | 1745               | 132322  | 18.04                 | 18.5                                | 0                              |   |  |  |
| 5           |            |         |           | 1777.5             | 132647  | 17.90                 | 18.5                                | 0                              |   |  |  |
| Ŭ           |            |         | 0         | 1712.5             | 131997  | 18.01                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1745               | 132322  | 17.79                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1777.5             | 132647  | 18.20                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1712.5             | 131997  | 18.01                 | 18.5                                | 0                              |   |  |  |
|             |            | 1 RB    | 12        | 1745               | 132322  | 18.16                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1777.5             | 132647  | 18.04                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1712.5             | 131997  | 17.80                 | 18.5                                | 0                              |   |  |  |
|             |            |         | 24        | 1745               | 132322  | 18.21                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1777.5             | 132647  | 18.12                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1712.5             | 131997  | 17.50                 | 18.5                                | 0                              |   |  |  |
|             | 16-QAM     |         | 0         | 1745               | 132322  | 17.68                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1777.5             | 132647  | 17.59                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1712.5             | 131997  | 17.47                 | 18.5                                | 0                              |   |  |  |
|             |            | 12 RB   | 6         | 1745               | 132322  | 17.78                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1777.5             | 132647  | 17.59                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1712.5             | 131997  | 17.41                 | 18.5                                | 0                              |   |  |  |
|             |            |         | 13        | 1745               | 132322  | 17.55                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1777.5             | 132647  | 17.70                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1712.5             | 131997  | 17.56                 | 18.5                                | 0                              |   |  |  |
|             |            | 25      | RB        | 1745               | 132322  | 17.76                 | 18.5                                | 0                              |   |  |  |
|             |            |         |           | 1777.5             | 132647  | 17.62                 | 18.5                                | 0                              |   |  |  |

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| FDD Band 66 |            |         |           |                    |         |                       |  |                                |   |  |  |
|-------------|------------|---------|-----------|--------------------|---------|-----------------------|--|--------------------------------|---|--|--|
| BW(Mhz)     | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB) |   |  |  |
|             |            |         |           | 1711.5             | 131987  | 17.07                 | 18.5   | 0                              |   |  |  |
|             |            |         | 0         | 1745               | 132322  | 17.85                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1778.5             | 132657  | 17.92                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1711.5             | 131987  | 17.93                 | 18.5   | 0                              |   |  |  |
|             |            | 1 RB    | 7         | 1745               | 132322  | 17.82                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1778.5             | 132657  | 18.03                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1711.5             | 131987  | 17.45                 | 18.5   | 0                              |   |  |  |
|             |            |         | 14        | 1745               | 132322  | 17.46                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1778.5             | 132657  | 18.19                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1711.5             | 131987  | 17.71                 | 18.5   | 0                              |   |  |  |
|             | QPSK       |         | 0         | 1745               | 132322  | 17.93                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1778.5             | 132657  | 17.76                 | 18.5   | 0                              |   |  |  |
|             |            | 8 RB    |           |                    | 1711.5  | 131987                | 17.56  | 18.5                           | 0 |  |  |
|             |            |         | 4         | 1745               | 132322  | 17.82                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1778.5             | 132657  | 17.83                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1711.5             | 131987  | 17.61                 | 18.5   | 0                              |   |  |  |
|             |            |         | 7         | 1745               | 132322  | 17.81                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1778.5             | 132657  | 17.79                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1711.5             | 131987  | 17.68                 | 18.5   | 0                              |   |  |  |
|             |            | 15      | RB        | 1745               | 132322  | 17.75                 | 18.5   | 0                              |   |  |  |
| 3           |            |         |           | 1778.5             | 132657  | 17.99                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1711.5             | 131987  | 17.42                 | 18.5   | 0                              |   |  |  |
|             |            |         | 0         | 1745               | 132322  | 17.83                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1778.5             | 132657  | 17.97                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1711.5             | 131987  | 17.66                 | 18.5   | 0                              |   |  |  |
|             |            | 1 RB    | 7         | 1745               | 132322  | 18.06                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1778.5             | 132657  | 17.64                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1711.5             | 131987  | 17.86                 | 18.5   | 0                              |   |  |  |
|             |            |         | 14        | 1745               | 132322  | 17.81                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1778.5             | 132657  | 17.84                 | 18.5   | 0                              |   |  |  |
|             |            |         | _         | 1711.5             | 131987  | 17.23                 | 18.5   | 0                              |   |  |  |
|             | 16-QAM     |         | 0         | 1745               | 132322  | 17.43                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1778.5             | 132657  | 17.38                 | 18.5   | 0                              |   |  |  |
|             |            |         | _         | 1711.5             | 131987  | 17.14                 | 18.5   | 0                              |   |  |  |
|             |            | 8 RB    | 4         | 1745               | 132322  | 17.41                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1778.5             | 132657  | 17.41                 | 18.5   | 0                              |   |  |  |
|             |            |         | _         | 1711.5             | 131987  | 17.35                 | 18.5   | 0                              |   |  |  |
|             |            |         | 7         | 1745               | 132322  | 17.44                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1778.5             | 132657  | 17.41                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1711.5             | 131987  | 17.24                 | 18.5   | 0                              |   |  |  |
|             |            | 15RI    | KR        | 1745               | 132322  | 17.36                 | 18.5   | 0                              |   |  |  |
|             |            |         |           | 1778.5             | 132657  | 17.44                 | 18.5   | 0                              |   |  |  |

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|         |            |         |           | FDD Band 66        |         |                       |  |   |  |  |
|---------|------------|---------|-----------|--------------------|---------|-----------------------|--|---|--|--|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency<br>(MHz) | Channel | Conducted power (dBm) | Target<br>Power + Max.<br>Tolerance<br>(dBm) | MPR<br>Allowed per<br>3GPP(dB)  |  |  |
|         |            |         |           | 1710.7             | 131979  | 17.79                 | 18.5   | 0   |  |  |
|         |            |         | 0         | 1745               | 132322  | 18.15                 | 18.5   | 0   |  |  |
|         |            |         |           | 1779.3             | 132665  | 17.62                 | 18.5   | 0   |  |  |
|         |            |         |           | 1710.7             | 131979  | 17.80                 | 18.5   | 0   |  |  |
|         |            | 1 RB    | 2         | 1745               | 132322  | 18.09                 | 18.5   | 0   |  |  |
|         |            |         |           | 1779.3             | 132665  | 18.12                 | 18.5   | 0   |  |  |
|         |            |         |           | 1710.7             | 131979  | 17.46                 | 18.5   | 0   |  |  |
|         |            |         | 5         | 1745               | 132322  | 18.13                 | 18.5   | 0   |  |  |
|         |            |         |           | 1779.3             | 132665  | 17.63                 | 18.5   | 0   |  |  |
|         |            |         |           | 1710.7             | 131979  | 17.39                 | 18.5   | 0   |  |  |
|         | QPSK       |         | 0         | 1745               | 132322  | 18.00                 | 18.5   | 0   |  |  |
|         |            |         |           | 1779.3             | 132665  | 18.02                 | 18.5   | 0   |  |  |
|         |            |         |           | 1710.7             | 131979  | 17.65                 | 18.5   | 0   |  |  |
|         |            | 3 RB    | 2         | 1745               | 132322  | 17.94                 | 18.5   | 0   |  |  |
|         |            |         |           | 1779.3             | 132665  | 18.02                 | 18.5   | 0   |  |  |
|         |            |         |           | 1710.7             | 131979  | 17.48                 | 18.5   | 0   |  |  |
|         |            |         | 3         | 1745               | 132322  | 17.72                 | 18.5   | 0   |  |  |
|         |            |         |           | 1779.3             | 132665  | 17.97                 | 18.5   | 0   |  |  |
|         |            |         |           | 1710.7             | 131979  | 17.70                 | 18.5   | 0   |  |  |
|         |            | 6F      | RB        | 1745               | 132322  | 17.60                 | 18.5   | 0<br>0<br>0<br>0<br>0<br>0<br>0   |  |  |
| 1.4     |            |         |           | 1779.3             | 132665  | 18.05                 | 18.5   | 0   |  |  |
| 1.4     |            |         |           | 1710.7             | 131979  | 17.66                 | 18.5   | 0   |  |  |
|         |            |         | 0         | 1745               | 132322  | 18.03                 | 18.5   | 0   |  |  |
|         |            |         |           | 1779.3             | 132665  | 17.93                 | 18.5   | 0   |  |  |
|         |            |         |           | 1710.7             | 131979  | 17.53                 | 18.5   | 0   |  |  |
|         |            | 1 RB    | 2         | 1745               | 132322  | 18.05                 | 18.5   | 0   |  |  |
|         |            |         |           | 1779.3             | 132665  | 17.99                 | 18.5   | 0   |  |  |
|         |            |         |           | 1710.7             | 131979  | 17.42                 | 18.5   | 0   |  |  |
|         |            |         | 5         | 1745               | 132322  | 18.03                 | 18.5   | 0   |  |  |
|         |            |         |           | 1779.3             | 132665  | 18.01                 | 18.5   | 0   |  |  |
|         |            |         |           | 1710.7             | 131979  | 17.08                 | 18.5   | 0   |  |  |
|         | 16-QAM     |         | 0         | 1745               | 132322  | 17.43                 | 18.5   | 0   |  |  |
|         |            |         |           | 1779.3             | 132665  | 17.74                 | 18.5   | 0   |  |  |
|         |            |         |           | 1710.7             | 131979  | 17.27                 | 18.5   | 0   |  |  |
|         |            | 3 RB    | 2         | 1745               | 132322  | 17.56                 | 18.5   | 0   |  |  |
|         |            |         |           | 1779.3             | 132665  | 17.64                 | 18.5   | 0   |  |  |
|         |            |         |           | 1710.7             | 131979  | 17.29                 | 18.5   | 0   |  |  |
|         |            |         | 3         | 1745               | 132322  | 17.62                 | 18.5   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |  |
|         |            |         |           | 1779.3             | 132665  | 17.40                 | 18.5   | 0   |  |  |
|         |            |         |           | 1710.7             | 131979  | 17.36                 | 18.5   | 0   |  |  |
|         |            | 6F      | RB        | 1745               | 132322  | 17.33                 | 18.5   | 0   |  |  |
|         |            |         |           | 1779.3             | 132665  | 17.99                 | 18.5   | 0   |  |  |

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### WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80M) conducted power table:

| Antonno              | MIMO    |         |          |  |  |
|----------------------|---------|---------|----------|--|--|
| Antenna              | 518     | SO      | MIMO     |  |  |
| Band                 | Chain 0 | Chain 1 | Chain0+1 |  |  |
| WLAN802.11b          | V       | V       | -        |  |  |
| WLAN802.11g          | V       | V       | -        |  |  |
| WLAN802.11n(20M)     | V       | V       | V        |  |  |
| WLAN802.11n(40M)     | V       | V       | V        |  |  |
| WLAN802.11a          | V       | V       | -        |  |  |
| WLAN802.11n(20M) 5G  | V       | V       | V        |  |  |
| WLAN802.11n(40M) 5G  | V       | V       | V        |  |  |
| WLAN802.11ac(20M) 5G | V       | V       | V        |  |  |
| WLAN802.11ac(40M) 5G | V       | V       | V        |  |  |
| WLAN802.11ac(80M) 5G | V       | V       | V        |  |  |

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# Full power (Laptop mode) Main (Chain 0)

|            |               | Main A                          | Antenna            |           |  |                           |
|------------|---------------|---------------------------------|--------------------|-----------|--|---------------------------|
| Band       | Mode          | Channel                         | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|            |               | 1                               | 2412               |           | 20.00  | 19.84                     |
|            |               | 2                               | 2417               |           | 20.00  | 19.92                     |
|            |               | 6                               | 2437               |           | 20.00  | 19.93                     |
|            | 802.11b       | 10                              | 2457               | 1Mbps     | 20.00  | 19.98                     |
|            |               | 11                              | 2462               |           | 20.00  | 19.81                     |
|            |               | 12                              | 2467               |           | 16.50  | 16.40                     |
|            |               | 13                              | 2472               |           | 8.50   | 8.37                      |
|            |               | 1                               | 2412               |           | 18.00  | 17.94                     |
|            |               | 2                               | 2417               |           | 20.00  | 19.95                     |
|            |               | 6 2437<br>802.11g 10 2457 6Mbps |                    | 20.00     | 19.86  |                           |
|            | 802.11g       |                                 | 2457               | 6Mbps     | 17.50  | 17.39                     |
|            |               | 11                              | 2462               |           | 17.50  | 17.44                     |
|            |               | 12                              | 2467               |           | 11.50  | 11.43                     |
| 2450 MHz   |               | 13                              | 2472               |           | -2.50  | -2.64                     |
| 2430 IVIDZ |               | 1                               | 2412               |           | 18.00  | 17.97                     |
|            |               | 2                               | 2417               |           | 20.00  | 19.89                     |
|            |               | 6                               | 2437               |           | 20.00  | 19.88                     |
|            | 802.11n20-HT0 | 10                              | 2457               | MCS0      | 17.50  | 17.39                     |
|            |               | 11                              | 2462               |           | 17.50  | 17.37                     |
|            |               | 12                              | 2467               |           | 11.50  | 11.36                     |
|            |               | 13                              | 2472               |           | -2.50  | -2.63                     |
|            |               | 3                               | 2422               |           | 18.00  | 17.85                     |
|            |               | 4                               | 2427               |           | 18.50  | 18.40                     |
|            |               | 6                               | 2437               |           | 19.00  | 18.96                     |
|            | 802.11n40-HT0 | 8                               | 2447               | MCS0      | 17.00  | 16.90                     |
|            | 9 2452        |                                 | 16.00              | 15.90     |  |                           |
|            |               | 10                              | 2457               |           | 12.50  | 12.41                     |
|            |               | 11                              | 2462               |           | -2.50  | -2.76                     |

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| Main Antenna  |                  |         |                    |           |  |                           |  |  |  |
|---------------|------------------|---------|--------------------|-----------|--|---------------------------|--|--|--|
| Band          | Mode             | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |  |  |  |
|               |                  | 36      | 5180               |           | 18.00  | 17.97                     |  |  |  |
|               | 802.11a          | 40      | 5200               | 6Mbps     | 20.00  | 19.95                     |  |  |  |
|               | 002.11a          | 44      | 5220               | Olvibps   | 20.00  | 19.98                     |  |  |  |
|               |                  | 48      | 5240               |           | 19.50  | 19.46                     |  |  |  |
|               |                  | 36      | 5180               |           | 18.00  | 17.96                     |  |  |  |
|               | 802.11n20-HT0    | 40      | 5200               | MCS0      | 20.00  | 19.87                     |  |  |  |
|               | 002.111120-1110  | 44      | 5220               | IVICOU    | 20.00  | 19.93                     |  |  |  |
|               |                  | 48      | 5240               |           | 19.50  | 19.41                     |  |  |  |
| 5.15-5.25 GHz |                  | 36      | 5180               |           | 18.00  | 17.81                     |  |  |  |
|               | 802.11ac20-VHT0  | 40      | 5200               | MCS0      | 20.00  | 19.86                     |  |  |  |
|               | 002.11ac20-V1110 | 44      | 5220               | IVICOU    | 20.00  | 19.90                     |  |  |  |
|               |                  | 48      | 5240               |           | 19.50  | 19.45                     |  |  |  |
|               | 802.11n40-HT0    | 38      | 5190               | MCS0      | 18.00  | 17.91                     |  |  |  |
|               | 002.111140-1110  | 46      | 5230               | IVICOU    | 20.00  | 19.93                     |  |  |  |
|               | 802.11ac40-VHT0  | 38      | 5190               | MCS0      | 18.00  | 17.83                     |  |  |  |
|               | 002.11ac40-V1110 | 46      | 5230               | IVICOU    | 20.00  | 19.80                     |  |  |  |
|               | 802.11ac80-VHT0  | 42      | 5210               | MCS0      | 14.00  | 13.92                     |  |  |  |

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|               | Main Antenna                         |         |                    |           |  |                           |  |  |  |  |
|---------------|--------------------------------------|---------|--------------------|-----------|--|---------------------------|--|--|--|--|
| Band          | Mode                                 | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |  |  |  |  |
|               |                                      | 52      | 5260               |           | 20.00  | 19.97                     |  |  |  |  |
|               | 802.11a                              | 56      | 5280               | 6Mbps     | 20.00  | 19.89                     |  |  |  |  |
|               | 002.11a                              | 60      | 5300               | Olvibps   | 20.00  | 19.95                     |  |  |  |  |
|               |                                      | 64      | 5320               |           | 16.00  | 15.89                     |  |  |  |  |
|               |                                      | 52      | 5260               |           | 20.00  | 19.96                     |  |  |  |  |
|               | 802.11n20-HT0                        | 56      | 5280               | MCS0      | 20.00  | 19.85                     |  |  |  |  |
|               | 002.111120-1110                      | 60      | 5300               | IVICOU    | 20.00  | 19.91                     |  |  |  |  |
|               |                                      | 64      | 5320               |           | 16.00  | 15.95                     |  |  |  |  |
| 5.25-5.35 GHz |                                      | 52      | 5260               |           | 20.00  | 19.85                     |  |  |  |  |
|               | 802.11ac20-VHT0                      | 56      | 5280               | MCS0      | 20.00  | 19.82                     |  |  |  |  |
|               | 002.11ac20-VH10                      | 60      | 5300               | IVICSU    | 20.00  | 19.89                     |  |  |  |  |
|               |                                      | 64      | 5320               |           | 16.00  | 15.90                     |  |  |  |  |
|               | 802.11n40-HT0                        | 54      | 5270               | MCSO      | 20.00  | 19.92                     |  |  |  |  |
|               | ου <b>Ζ. Ι ΙΙΙ<del>4</del>υ-ΠΙ</b> Ι | 62      | 5310               | MCS0      | 14.50  | 14.36                     |  |  |  |  |
|               | 802.11ac40-VHT0                      | 54      | 5270               | MCS0      | 20.00  | 19.92                     |  |  |  |  |
|               | 002.11a040-VH10                      | 62      | 5310               | IVICOU    | 14.50  | 14.35                     |  |  |  |  |
|               | 802.11ac80-VHT0                      | 58      | 5290               | MCS0      | 12.00  | 11.84                     |  |  |  |  |

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|          |                   | Main    | Antenna            |           |  |                           |
|----------|-------------------|---------|--------------------|-----------|--|---------------------------|
| Band     | Mode              | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|          |                   | 100     | 5500               |           | 16.50  | 16.33                     |
|          |                   | 104     | 5520               |           | 20.00  | 19.88                     |
|          |                   | 116     | 5580               |           | 20.00  | 19.82                     |
|          | 802.11a           | 120     | 5600               | 6Mbps     | 20.00  | 19.78                     |
|          | 002.114           | 124     | 5620               | Olviops   | 20.00  | 19.77                     |
|          |                   | 128     | 5640               |           | 20.00  | 19.83                     |
|          |                   | 136     | 5680               |           | 20.00  | 19.81                     |
|          |                   | 140     | 5700               |           | 16.00  | 15.84                     |
|          |                   | 100     | 5500               |           | 16.50  | 16.39                     |
|          |                   | 104     | 5520               |           | 20.00  | 19.92                     |
|          |                   | 116     | 5580               |           | 20.00  | 19.84                     |
|          | 802.11n20-HT0     | 120     | 5600               | MCS0      | 20.00  | 19.80                     |
|          |                   | 124     | 5620               |           | 20.00  | 19.86                     |
|          |                   | 128     | 5640               |           | 20.00  | 19.76                     |
|          |                   | 136     | 5680               |           | 20.00  | 19.77                     |
|          |                   | 140     | 5700               |           | 16.00  | 15.91                     |
|          |                   | 100     | 5500               |           | 16.50  | 16.30                     |
|          |                   | 104     | 5520               |           | 20.00  | 19.88                     |
|          |                   | 116     | 5580               |           | 20.00  | 19.81                     |
| 5600 MHz | 000 44 00 1/1/170 | 120     | 5600               | 14000     | 20.00  | 19.77                     |
|          | 802.11ac20-VHT0   | 124     | 5620               | MCS0      | 20.00  | 19.87                     |
|          |                   | 128     | 5640               |           | 20.00  | 19.93                     |
|          |                   | 136     | 5680               |           | 20.00  | 19.80                     |
|          |                   | 140     | 5700               |           | 16.00  | 15.80                     |
|          |                   | 144     | 5720               |           | 20.00  | 19.88                     |
|          |                   | 102     | 5510               |           | 16.50  | 16.34                     |
|          |                   | 110     | 5550               |           | 20.00  | 19.88                     |
|          | 802.11n40-HT0     | 118     | 5590               | MCS0      | 20.00  | 19.73                     |
|          |                   | 126     | 5630               |           | 20.00  | 19.87                     |
|          |                   | 134     | 5670               |           | 17.00  | 16.90                     |
|          |                   | 142     | 5710               |           | 20.00  | 19.87                     |
|          |                   | 102     | 5510               |           | 16.50  | 16.40                     |
|          |                   | 110     | 5550               |           | 20.00  | 19.90                     |
|          | 802.11ac40-VHT0   | 118     | 5590               | MCS0      | 20.00  | 19.85                     |
|          |                   | 126     | 5630               |           | 20.00  | 19.89                     |
|          |                   | 134     | 5670               |           | 17.00  | 16.88                     |
|          |                   | 142     | 5710               |           | 20.00  | 19.93                     |
|          | 000 110 000 \/\   | 106     | 5530               | MCCC      | 13.50  | 13.42                     |
|          | 802.11ac80-VHT0   | 122     | 5610               | MCS0      | 17.50  | 17.37                     |
|          |                   | 138     | 5690               |           | 20.00  | 19.94                     |

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| Main Antenna |                  |         |                    |           |  |                           |  |  |  |
|--------------|------------------|---------|--------------------|-----------|--|---------------------------|--|--|--|
| Mode         | Mode             | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |  |  |  |
|              |                  | 149     | 5745               |           | 20.00  | 19.88                     |  |  |  |
|              | 802.11a          | 157     | 5785               | 6Mbps     | 20.00  | 19.94                     |  |  |  |
|              |                  | 165     | 5825               |           | 20.00  | 19.81                     |  |  |  |
|              |                  | 149     | 5745               |           | 20.00  | 19.88                     |  |  |  |
|              | 802.11n20-HT0    | 157     | 5785               | MCS0      | 20.00  | 19.86                     |  |  |  |
|              |                  | 165     | 5825               |           | 20.00  | 19.97                     |  |  |  |
| 5800 MHz     |                  | 149     | 5745               |           | 20.00  | 19.84                     |  |  |  |
| 3600 1011 12 | 802.11ac20-VHT0  | 157     | 5785               | MCS0      | 20.00  | 19.88                     |  |  |  |
|              |                  | 165     | 5825               |           | 20.00  | 19.81                     |  |  |  |
|              | 802.11n40-HT0    | 151     | 5755               | MCS0      | 20.00  | 19.89                     |  |  |  |
|              | 002.111140-1110  | 159     | 5795               | IVICOU    | 20.00  | 19.90                     |  |  |  |
|              | 802.11ac40-VHT0  | 151     | 5755               | MCS0      | 20.00  | 19.91                     |  |  |  |
|              | 002.11a040-V1110 | 159     | 5795               | IVICOU    | 20.00  | 19.87                     |  |  |  |
|              | 802.11ac80-VHT0  | 155     | 5775               | MCS0      | 17.50  | 17.40                     |  |  |  |

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# Full power (Laptop mode)

Aux (Chain 1)

| Aux (Chain | •             | Aux A   | Antenna            |           |  |                           |
|------------|---------------|---------|--------------------|-----------|--|---------------------------|
| Band       | Mode          | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|            |               | 1       | 2412               |           | 18.00  | 17.89                     |
|            |               | 2       | 2417               |           | 20.00  | 19.93                     |
|            |               | 6       | 2437               |           | 20.00  | 19.90                     |
|            | 802.11b       | 10      | 2457               | 1Mbps     | 20.00  | 19.91                     |
|            |               | 11      | 2462               |           | 18.50  | 18.46                     |
|            |               | 12      | 2467               |           | 16.00  | 15.87                     |
|            |               | 13      | 2472               |           | 8.50   | 8.46                      |
|            |               | 1       | 2412               |           | 18.00  | 17.88                     |
|            |               | 2       | 2417               |           | 20.00  | 19.89                     |
|            |               | 6       | 2437               |           | 20.00  | 19.98                     |
|            | 802.11g       | 10      | 2457               | 6Mbps     | 17.50  | 17.43                     |
|            |               | 11      | 2462               |           | 17.00  | 16.91                     |
|            |               | 12      | 2467               |           | 10.50  | 10.38                     |
| 2450 MHz   |               | 13      | 2472               |           | -2.50  | -2.52                     |
| 2450 IVITZ |               | 1       | 2412               |           | 18.00  | 17.86                     |
|            |               | 2       | 2417               |           | 20.00  | 19.97                     |
|            |               | 6       | 2437               |           | 20.00  | 19.89                     |
|            | 802.11n20-HT0 | 10      | 2457               | MCS0      | 17.50  | 17.36                     |
|            |               | 11      | 2462               |           | 17.00  | 16.90                     |
|            |               | 12      | 2467               |           | 10.50  | 10.44                     |
|            |               | 13      | 2472               |           | -2.50  | -2.71                     |
|            |               | 3       | 2422               |           | 17.00  | 16.86                     |
|            |               | 4       | 2427               |           | 17.50  | 17.34                     |
|            |               | 6 2437  | 19.00              | 18.78     |  |                           |
|            | 802.11n40-HT0 | 8       | 2447               | MCS0      | 16.50  | 16.36                     |
|            |               | 9       | 2452               |           | 16.00  | 15.91                     |
|            |               | 10      | 2457               |           | 12.50  | 12.40                     |
|            |               | 11      | 2462               |           | -2.50  | -2.69                     |

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|               | Aux Antenna      |         |                    |           |  |                           |  |  |  |
|---------------|------------------|---------|--------------------|-----------|--|---------------------------|--|--|--|
| Band          | Mode             | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |  |  |  |
|               |                  | 36      | 5180               |           | 17.50  | 17.44                     |  |  |  |
|               | 802.11a          | 40      | 5200               | 6Mbps     | 19.50  | 19.41                     |  |  |  |
|               | 002.11a          | 44      | 5220               | Olvibps   | 20.00  | 19.98                     |  |  |  |
|               |                  | 48      | 5240               |           | 19.50  | 19.46                     |  |  |  |
|               |                  | 36      | 5180               |           | 17.50  | 17.36                     |  |  |  |
|               | 802.11n20-HT0    | 40      | 5200               | MCS0      | 19.50  | 19.40                     |  |  |  |
|               | 002.111120-1110  | 44      | 5220               | IVICOU    | 20.00  | 19.89                     |  |  |  |
|               |                  | 48      | 5240               |           | 19.50  | 19.45                     |  |  |  |
| 5.15-5.25 GHz |                  | 36      | 5180               |           | 17.50  | 17.29                     |  |  |  |
|               | 802.11ac20-VHT0  | 40      | 5200               | MCS0      | 19.50  | 19.34                     |  |  |  |
|               | 002.11ac20-V1110 | 44      | 5220               | IVICSO    | 20.00  | 19.88                     |  |  |  |
|               |                  | 48      | 5240               |           | 19.50  | 19.41                     |  |  |  |
|               | 802.11n40-HT0    | 38      | 5190               | MCS0      | 18.00  | 17.93                     |  |  |  |
|               | 002.111140-1110  | 46      | 5230               | IVICOU    | 20.00  | 19.93                     |  |  |  |
|               | 802.11ac40-VHT0  | 38      | 5190               | MCS0      | 18.00  | 17.97                     |  |  |  |
|               | 002.11a040-VIII0 | 46      | 5230               | IVICOU    | 20.00  | 19.93                     |  |  |  |
|               | 802.11ac80-VHT0  | 42      | 5210               | MCS0      | 14.00  | 13.86                     |  |  |  |

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|               | Aux Antenna                  |         |                    |           |  |                           |  |  |  |
|---------------|------------------------------|---------|--------------------|-----------|--|---------------------------|--|--|--|
| Band          | Mode                         | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |  |  |  |
|               |                              | 52      | 5260               |           | 20.00  | 19.98                     |  |  |  |
|               | 802.11a                      | 56      | 5280               | 6Mbps     | 20.00  | 19.92                     |  |  |  |
|               | 002.114                      | 60      | 5300               | Olvibps   | 20.00  | 19.89                     |  |  |  |
|               |                              | 64      | 5320               |           | 16.50  | 16.47                     |  |  |  |
|               |                              | 52      | 5260               |           | 20.00  | 19.89                     |  |  |  |
|               | 802.11n20-HT0                | 56      | 5280               | MCS0      | 20.00  | 19.89                     |  |  |  |
|               | 002.111120-1110              | 60      | 5300               | IVICOU    | 20.00  | 19.81                     |  |  |  |
|               |                              | 64      | 5320               |           | 16.50  | 16.33                     |  |  |  |
| 5.25-5.35 GHz |                              | 52      | 5260               |           | 20.00  | 19.85                     |  |  |  |
|               | 802.11ac20-VHT0              | 56      | 5280               | MCS0      | 20.00  | 19.85                     |  |  |  |
|               | 002.11ac20-V1110             | 60      | 5300               | IVICSU    | 20.00  | 19.89                     |  |  |  |
|               |                              | 64      | 5320               |           | 16.50  | 16.42                     |  |  |  |
|               | 802.11n40-HT0                | 54      | 5270               | MCS0      | 20.00  | 19.94                     |  |  |  |
|               | 002.1111 <del>4</del> 0-1110 | 62      | 5310               | IVICOU    | 15.00  | 14.93                     |  |  |  |
|               | 802.11ac40-VHT0              | 54      | 5270               | MCS0      | 20.00  | 19.95                     |  |  |  |
|               | 002.11a040-VIII0             | 62      | 5310               | IVICOU    | 15.00  | 14.88                     |  |  |  |
|               | 802.11ac80-VHT0              | 58      | 5290               | MCS0      | 12.00  | 11.88                     |  |  |  |

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|          |                 | Aux A   | Antenna  |           |  |  |
|----------|-----------------|---|--|-----------|--|--|
| Band     | Mode            | Channel   | Frequency<br>(MHz)   | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm)                               | Average<br>power<br>(dBm)  |
|          | 802.11a         | 100<br>104<br>116<br>120<br>124<br>128<br>136               | 5500<br>5520<br>5580<br>5600<br>5620<br>5640<br>5680                         | 6Mbps     | 17.50<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00                            | 17.43<br>19.91<br>19.80<br>19.91<br>19.84<br>19.83<br>19.86                            |
|          | 802.11n20-HT0   | 140<br>100<br>104<br>116<br>120<br>124<br>128<br>136        | 5700<br>5500<br>5520<br>5580<br>5600<br>5620<br>5640<br>5680                 | MCS0      | 16.00<br>17.50<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00                   | 15.91<br>17.36<br>19.90<br>19.89<br>19.87<br>19.84<br>19.92<br>19.91                   |
| 5600 MHz | 802.11ac20-VHT0 | 140<br>100<br>104<br>116<br>120<br>124<br>128<br>136<br>140 | 5700<br>5500<br>5520<br>5580<br>5600<br>5620<br>5640<br>5680<br>5700<br>5720 | MCS0      | 16.00<br>17.50<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>16.00<br>20.00 | 15.89<br>17.45<br>19.95<br>19.92<br>19.86<br>19.87<br>19.91<br>19.89<br>15.86<br>19.91 |
|          | 802.11n40-HT0   | 102<br>110<br>118<br>126<br>134<br>142                      | 5510<br>5550<br>5590<br>5630<br>5670<br>5710                                 | MCS0      | 20.00<br>16.50<br>20.00<br>20.00<br>20.00<br>17.00<br>20.00                            | 19.91<br>16.48<br>19.90<br>19.82<br>19.83<br>16.98<br>19.96                            |
|          | 802.11ac40-VHT0 | 102<br>110<br>118<br>126<br>134<br>142                      | 5510<br>5550<br>5590<br>5630<br>5670<br>5710                                 | MCS0      | 16.50<br>20.00<br>20.00<br>20.00<br>17.00<br>20.00                                     | 16.37<br>19.96<br>19.94<br>19.92<br>16.92<br>19.90                                     |
|          | 802.11ac80-VHT0 | 106<br>122<br>138   | 5530<br>5610<br>5690   | MCS0      | 14.00<br>18.50<br>20.00  | 13.89<br>18.36<br>19.96  |

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| Aux Antenna  |                             |         |                    |           |  |                           |  |  |  |
|--------------|-----------------------------|---------|--------------------|-----------|--|---------------------------|--|--|--|
| Mode         | Mode                        | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |  |  |  |
|              |                             | 149     | 5745               |           | 20.00  | 19.83                     |  |  |  |
|              | 802.11a                     | 157     | 5785               | 6Mbps     | 20.00  | 19.92                     |  |  |  |
|              |                             | 165     | 5825               |           | 20.00  | 19.80                     |  |  |  |
|              |                             | 149     | 5745               |           | 20.00  | 19.81                     |  |  |  |
|              | 802.11n20-HT0               | 157     | 5785               | MCS0      | 20.00  | 19.93                     |  |  |  |
|              |                             | 165     | 5825               |           | 20.00  | 19.85                     |  |  |  |
| 5800 MHz     |                             | 149     | 5745               |           | 20.00  | 19.82                     |  |  |  |
| 3000 IVII 12 | 802.11ac20-VHT0             | 157     | 5785               | MCS0      | 20.00  | 19.84                     |  |  |  |
|              |                             | 165     | 5825               |           | 20.00  | 19.94                     |  |  |  |
|              | 802.11n40-HT0               | 151     | 5755               | MCS0      | 20.00  | 19.90                     |  |  |  |
|              | 002.1111 <del>4</del> 0-Π10 | 159     | 5795               | IVICOU    | 20.00  | 19.94                     |  |  |  |
|              | 802.11ac40-VHT0             | 151     | 5755               | MCS0      | 20.00  | 19.90                     |  |  |  |
|              | 002.11a040-V1110            | 159     | 5795               | IVICSU    | 20.00  | 19.86                     |  |  |  |
|              | 802.11ac80-VHT0             | 155     | 5775               | MCS0      | 17.50  | 17.40                     |  |  |  |

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# Reduced power (Tablet mode) Main (Chain 0)

|             |               | Main A  | Antenna            |           |  |                           |
|-------------|---------------|---------|--------------------|-----------|--|---------------------------|
| Band        | Mode          | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|             |               | 1       | 2412               |           | 18.00  | 17.93                     |
|             |               | 6       | 2437               |           | 18.00  | 17.92                     |
|             | 802.11b       | 11      | 2462               | 1Mbps     | 18.00  | 17.87                     |
|             |               | 12      | 2467               |           | 16.50  | 16.42                     |
|             |               | 13      | 2472               |           | 8.50   | 8.22                      |
|             |               | 1       | 2412               |           | 18.00  | 17.84                     |
|             |               | 2       | 2417               |           | 18.00  | 17.88                     |
|             |               | 6       | 2437               |           | 18.00  | 17.90                     |
|             | 802.11g       | 10      | 2457               | 6Mbps     | 17.50  | 17.38                     |
|             |               | 11      | 2462               |           | 17.50  | 17.39                     |
|             |               | 12      | 2467               |           | 11.50  | 11.33                     |
|             |               | 13      | 2472               |           | -2.50  | -2.55                     |
| 2450 MHz    |               | 1       | 2412               |           | 18.00  | 17.84                     |
| 2400 WII 12 |               | 2       | 2417               |           | 18.00  | 17.86                     |
|             |               | 6       | 2437               |           | 18.00  | 17.89                     |
|             | 802.11n20-HT0 | 10      | 2457               | MCS0      | 17.50  | 17.38                     |
|             |               | 11      | 2462               |           | 17.50  | 17.38                     |
|             |               | 12      | 2467               |           | 11.50  | 11.21                     |
|             |               | 13      | 2472               |           | -2.50  | -2.61                     |
|             |               | 3       | 2422               |           | 18.00  | 17.98                     |
|             |               | 4       | 2427               |           | 18.00  | 17.87                     |
|             |               | 6       | 2437               |           | 18.00  | 17.84                     |
|             | 802.11n40-HT0 | 8       | 2447               | MCS0      | 17.00  | 16.86                     |
|             |               | 9       | 2452               |           | 16.00  | 15.83                     |
|             |               | 10      | 2457               |           | 12.50  | 12.26                     |
|             |               | 11      | 2462               |           | -2.50  | -2.56                     |

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|               | Main Antenna     |    |                    |           |  |                           |  |  |  |
|---------------|------------------|----|--------------------|-----------|--|---------------------------|--|--|--|
| Band          | d Mode           |    | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |  |  |  |
|               |                  | 36 | 5180               |           | 16.00  | 15.88                     |  |  |  |
|               | 802.11a          | 40 | 5200               | 6Mbps     | 16.00  | 15.75                     |  |  |  |
|               | 002.11a          | 44 | 5220               | Joivibps  | 16.00  | 15.84                     |  |  |  |
|               |                  | 48 | 5240               |           | 16.00  | 15.91                     |  |  |  |
|               | 802.11n20-HT0    | 36 | 5180               |           | 16.00  | 15.87                     |  |  |  |
|               |                  | 40 | 5200               | MCS0      | 16.00  | 15.70                     |  |  |  |
|               |                  | 44 | 5220               | IVICOU    | 16.00  | 15.92                     |  |  |  |
|               |                  | 48 | 5240               |           | 16.00  | 15.78                     |  |  |  |
| 5.15-5.25 GHz |                  | 36 | 5180               |           | 16.00  | 15.78                     |  |  |  |
|               | 802.11ac20-VHT0  | 40 | 5200               | MCS0      | 16.00  | 15.89                     |  |  |  |
|               | 002.11ac20-V1110 | 44 | 5220               | IVICOU    | 16.00  | 15.82                     |  |  |  |
|               |                  | 48 | 5240               |           | 16.00  | 15.83                     |  |  |  |
|               | 802.11n40-HT0    | 38 | 5190               | MCS0      | 16.00  | 15.94                     |  |  |  |
|               | 002.111140-1110  | 46 | 5230               | IVICOU    | 16.00  | 15.88                     |  |  |  |
|               | 802.11ac40-VHT0  | 38 | 5190               | MCS0      | 16.00  | 15.87                     |  |  |  |
|               |                  | 46 | 5230               | IVICOU    | 16.00  | 15.92                     |  |  |  |
|               | 802.11ac80-VHT0  | 42 | 5210               | MCS0      | 14.00  | 13.84                     |  |  |  |

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|               |                  | Main A  | Antenna            |           |  |                           |
|---------------|------------------|---------|--------------------|-----------|--|---------------------------|
| Band          | Mode             | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|               |                  | 52      | 5260               |           | 16.00  | 15.93                     |
|               | 802.11a          | 56      | 5280               | 6Mbps     | 16.00  | 15.90                     |
|               | 002.11a          | 60      | 5300               | Joivibps  | 16.00  | 15.92                     |
|               |                  | 64      | 5320               |           | 16.00  | 15.89                     |
|               | 802.11n20-HT0    | 52      | 5260               |           | 16.00  | 15.90                     |
|               |                  | 56      | 5280               | MCS0      | 16.00  | 15.86                     |
|               |                  | 60      | 5300               | IVICOU    | 16.00  | 15.82                     |
|               |                  | 64      | 5320               |           | 16.00  | 15.88                     |
| 5.25-5.35 GHz |                  | 52      | 5260               |           | 16.00  | 15.89                     |
|               | 802.11ac20-VHT0  | 56      | 5280               | MCS0      | 16.00  | 15.88                     |
|               | 002.11ac20-V1110 | 60      | 5300               | IVICOU    | 16.00  | 15.89                     |
|               |                  | 64      | 5320               |           | 16.00  | 15.93                     |
|               | 802.11n40-HT0    | 54      | 5270               | MCS0      | 16.00  | 15.93                     |
|               | 002.111140-1110  | 62      | 5310               | IVICOU    | 14.50  | 14.40                     |
|               | 802.11ac40-VHT0  | 54      | 5270               | MCS0      | 16.00  | 15.85                     |
|               |                  | 62      | 5310               | IVICOU    | 14.50  | 14.39                     |
|               | 802.11ac80-VHT0  | 58      | 5290               | MCS0      | 12.00  | 11.95                     |

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|            |                  | Main <i>i</i> | Antenna            |           |  |                           |
|------------|------------------|---------------|--------------------|-----------|--|---------------------------|
| Band       | Mode             | Channel       | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|            |                  | 100           | 5500               |           | 16.00  | 15.83                     |
|            |                  | 116           | 5580               |           | 16.00  | 15.74                     |
|            |                  | 120           | 5600               |           | 16.00  | 15.81                     |
|            | 802.11a          | 124           | 5620               | 6Mbps     | 16.00  | 15.75                     |
|            |                  | 128           | 5640               |           | 16.00  | 15.83                     |
|            |                  | 136           | 5680               |           | 16.00  | 15.87                     |
|            |                  | 140           | 5700               |           | 16.00  | 15.91                     |
|            |                  | 100           | 5500               |           | 16.00  | 15.87                     |
|            |                  | 116           | 5580               |           | 16.00  | 15.91                     |
|            |                  | 120           | 5600               |           | 16.00  | 15.84                     |
|            | 802.11n20-HT0    | 124           | 5620               | MCS0      | 16.00  | 15.75                     |
|            |                  | 128           | 5640               |           | 16.00  | 15.88                     |
|            |                  | 136           | 5680               |           | 16.00  | 15.83                     |
|            |                  | 140           | 5700               |           | 16.00  | 15.94                     |
|            |                  | 100           | 5500               |           | 16.00  | 15.82                     |
|            |                  | 116           | 5580               |           | 16.00  | 15.95                     |
|            |                  | 120           | 5600               | MOGO      | 16.00  | 15.83                     |
| 5000 MILI- | 000 4400 1/1/170 | 124           | 5620               |           | 16.00  | 15.85                     |
| 5600 MHz   | 802.11ac20-VHT0  | 128           | 5640               | MCS0      | 16.00  | 15.84                     |
|            |                  | 136           | 5680               |           | 16.00  | 15.84                     |
|            |                  | 140           | 5700               |           | 16.00  | 15.82                     |
|            |                  | 144           | 5720               |           | 16.00  | 15.86                     |
|            |                  | 102           | 5510               |           | 16.00  | 15.80                     |
|            |                  | 110           | 5550               |           | 16.00  | 15.84                     |
|            | 802.11n40-HT0    | 118           | 5590               | MCS0      | 16.00  | 15.88                     |
|            |                  | 126           | 5630               |           | 16.00  | 15.77                     |
|            |                  | 134           | 5670               |           | 16.00  | 15.85                     |
|            |                  | 102           | 5510               |           | 16.00  | 15.83                     |
|            |                  | 110           | 5550               |           | 16.00  | 15.83                     |
|            | 902 110040 VUTO  | 118           | 5590               | MCS0      | 16.00  | 15.87                     |
|            | 802.11ac40-VHT0  | 126           | 5630               | IVICOU    | 16.00  | 15.92                     |
|            |                  | 134           | 5670               |           | 16.00  | 15.89                     |
|            |                  | 142           | 5710               |           | 16.00  | 15.86                     |
|            |                  | 106           | 5530               |           | 13.50  | 13.37                     |
|            | 802.11ac80-VHT0  | 122           | 5610               | MCS0      | 16.00  | 15.91                     |
|            |                  | 138           | 5690               |           | 16.00  | 15.86                     |

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|              |                                  | Main A  | Antenna            |           |  |                           |
|--------------|----------------------------------|---------|--------------------|-----------|--|---------------------------|
| Mode         | Mode                             | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|              |                                  | 149     | 5745               |           | 16.00  | 15.80                     |
|              | 802.11a                          | 157     | 5785               | 6Mbps     | 16.00  | 15.83                     |
|              |                                  | 165     | 5825               |           | 16.00  | 15.90                     |
|              |                                  | 149     | 5745               | MCS0      | 16.00  | 15.75                     |
|              | 802.11n20-HT0                    | 157     | 5785               |           | 16.00  | 15.80                     |
|              |                                  | 165     | 5825               |           | 16.00  | 15.90                     |
| 5800 MHz     |                                  | 149     | 5745               |           | 16.00  | 15.98                     |
| 3000 1011 12 | 802.11ac20-VHT0                  | 157     | 5785               | MCS0      | 16.00  | 15.93                     |
|              |                                  | 165     | 5825               |           | 16.00  | 15.79                     |
|              | 802.11n40-HT0<br>802.11ac40-VHT0 | 151     | 5755               | MCS0      | 16.00  | 15.79                     |
|              |                                  | 159     | 5795               | IVICOU    | 16.00  | 15.81                     |
|              |                                  | 151     | 5755               | MCS0      | 16.00  | 15.81                     |
|              |                                  | 159     | 5795               | IVICOU    | 16.00  | 15.83                     |
|              | 802.11ac80-VHT0                  | 155     | 5775               | MCS0      | 16.00  | 15.86                     |

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# Reduced power (Tablet mode)

Aux (Chain 1)

|             |               | Aux A   | Antenna            |           |  |                           |
|-------------|---------------|---------|--------------------|-----------|--|---------------------------|
| Band        | Mode          | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|             |               | 1       | 2412               |           | 18.00  | 17.97                     |
|             |               | 6       | 2437               |           | 18.00  | 17.89                     |
|             | 802.11b       | 11      | 2462               | 1Mbps     | 18.00  | 17.94                     |
|             |               | 12      | 2467               |           | 16.00  | 15.80                     |
|             |               | 13      | 2472               |           | 8.50   | 8.26                      |
|             |               | 1       | 2412               |           | 18.00  | 17.81                     |
|             |               | 2       | 2417               |           | 18.00  | 17.89                     |
|             |               | 6       | 2437               |           | 18.00  | 17.90                     |
|             | 802.11g       | 10      | 2457               | 6Mbps     | 17.50  | 17.26                     |
|             |               | 11      | 2462               |           | 17.00  | 16.93                     |
|             |               | 12      | 2467               |           | 10.50  | 10.29                     |
|             |               | 13      | 2472               |           | -2.50  | -2.73                     |
| 2450 MHz    |               | 1       | 2412               |           | 18.00  | 17.88                     |
| 2430 WII 12 |               | 2       | 2417               |           | 18.00  | 17.96                     |
|             |               | 6       | 2437               |           | 18.00  | 17.92                     |
|             | 802.11n20-HT0 | 10      | 2457               | MCS0      | 17.50  | 17.43                     |
|             |               | 11      | 2462               |           | 17.00  | 16.88                     |
|             |               | 12      | 2467               |           | 10.50  | 10.41                     |
|             |               | 13      | 2472               |           | -2.50  | -2.58                     |
|             |               | 3       | 2422               |           | 17.00  | 16.92                     |
|             |               | 4       | 2427               |           | 17.50  | 17.40                     |
|             |               | 6       | 2437               |           | 18.00  | 17.85                     |
|             | 802.11n40-HT0 | 8       | 2447               | MCS0      | 16.50  | 16.34                     |
|             |               | 9       | 2452               |           | 16.00  | 15.90                     |
|             |               | 10      | 2457               |           | 12.50  | 12.37                     |
|             |               | 11      | 2462               |           | -2.50  | -2.71                     |

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|               |                  | Aux A | Antenna            |           |  |                           |
|---------------|------------------|-------|--------------------|-----------|--|---------------------------|
| Band          | Mode             |       | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|               |                  | 36    | 5180               |           | 16.50  | 16.33                     |
|               | 802.11a          | 40    | 5200               | 6Mbps     | 16.50  | 16.27                     |
|               |                  | 44    | 5220               | Olvibps   | 16.50  | 16.36                     |
|               |                  | 48    | 5240               |           | 16.50  | 16.37                     |
|               | 802.11n20-HT0    | 36    | 5180               |           | 16.50  | 16.28                     |
|               |                  | 40    | 5200               | MCS0      | 16.50  | 16.35                     |
|               |                  | 44    | 5220               | IVICOU    | 16.50  | 16.39                     |
|               |                  | 48    | 5240               |           | 16.50  | 16.41                     |
| 5.15-5.25 GHz |                  | 36    | 5180               |           | 16.50  | 16.31                     |
|               | 802.11ac20-VHT0  | 40    | 5200               | MCS0      | 16.50  | 16.39                     |
|               | 002.11ac20-V1110 | 44    | 5220               | IVICOU    | 16.50  | 16.30                     |
|               |                  | 48    | 5240               |           | 16.50  | 16.24                     |
|               | 802.11n40-HT0    | 38    | 5190               | MCS0      | 16.50  | 16.48                     |
|               | 002.111140-1110  | 46    | 5230               | IVICOU    | 16.50  | 16.40                     |
|               | 802.11ac40-VHT0  | 38    | 5190               | MCS0      | 16.50  | 16.40                     |
|               | 002.11a040-VIII0 | 46    | 5230               | IVICOU    | 16.50  | 16.34                     |
|               | 802.11ac80-VHT0  | 42    | 5210               | MCS0      | 14.00  | 13.94                     |

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|               |                  | Aux A | Antenna            |           |  |                           |
|---------------|------------------|-------|--------------------|-----------|--|---------------------------|
| Band          | Mode             |       | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|               |                  | 52    | 5260               |           | 16.50  | 16.41                     |
|               | 802.11a          | 56    | 5280               | 6Mbps     | 16.50  | 16.37                     |
|               |                  | 60    | 5300               | Olvibps   | 16.50  | 16.33                     |
|               |                  | 64    | 5320               |           | 16.50  | 16.49                     |
|               | 802.11n20-HT0    | 52    | 5260               |           | 16.50  | 16.36                     |
|               |                  | 56    | 5280               | MCS0      | 16.50  | 16.40                     |
|               |                  | 60    | 5300               | IVICOU    | 16.50  | 16.37                     |
|               |                  | 64    | 5320               |           | 16.50  | 16.37                     |
| 5.25-5.35 GHz |                  | 52    | 5260               |           | 16.50  | 16.34                     |
|               | 802.11ac20-VHT0  | 56    | 5280               | MCS0      | 16.50  | 16.25                     |
|               | 002.11ac20-V1110 | 60    | 5300               | IVICOU    | 16.50  | 16.41                     |
|               |                  | 64    | 5320               |           | 16.50  | 16.40                     |
|               | 802.11n40-HT0    | 54    | 5270               | MCS0      | 16.50  | 16.36                     |
|               | 002.111140-1110  | 62    | 5310               | IVICOU    | 15.00  | 14.92                     |
|               | 802.11ac40-VHT0  | 54    | 5270               | MCS0      | 16.50  | 16.44                     |
|               |                  | 62    | 5310               | IVICOU    | 15.00  | 14.88                     |
|               | 802.11ac80-VHT0  | 58    | 5290               | MCS0      | 12.00  | 11.85                     |

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|            |                    | Aux A   | Antenna            |           |  |                           |
|------------|--------------------|---------|--------------------|-----------|--|---------------------------|
| Band       | Mode               | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|            |                    | 100     | 5500               |           | 16.50  | 16.36                     |
|            |                    | 116     | 5580               |           | 16.50  | 16.37                     |
|            |                    | 120     | 5600               |           | 16.50  | 16.42                     |
|            | 802.11a            | 124     | 5620               | 6Mbps     | 16.50  | 16.32                     |
|            |                    | 128     | 5640               |           | 16.50  | 16.32                     |
|            |                    | 136     | 5680               |           | 16.50  | 16.33                     |
|            |                    | 140     | 5700               |           | 16.00  | 15.90                     |
|            |                    | 100     | 5500               |           | 16.50  | 16.31                     |
|            | 802.11n20-HT0      | 116     | 5580               |           | 16.50  | 16.39                     |
|            |                    | 120     | 5600               |           | 16.50  | 16.29                     |
|            |                    | 124     | 5620               | MCS0      | 16.50  | 16.29                     |
|            |                    | 128     | 5640               |           | 16.50  | 16.26                     |
|            |                    | 136     | 5680               |           | 16.50  | 16.38                     |
|            |                    | 140     | 5700               |           | 16.00  | 15.94                     |
|            |                    | 100     | 5500               |           | 16.50  | 16.44                     |
|            |                    | 116     | 5580               |           | 16.50  | 16.34                     |
|            |                    | 120     | 5600               |           | 16.50  | 16.35                     |
| ECOO MILI- | 000 440 000 V/LITO | 124     | 5620               | M000      | 16.50  | 16.37                     |
| 5600 MHz   | 802.11ac20-VHT0    | 128     | 5640               | MCS0      | 16.50  | 16.39                     |
|            |                    | 136     | 5680               |           | 16.50  | 16.35                     |
|            |                    | 140     | 5700               |           | 16.00  | 15.93                     |
|            |                    | 144     | 5720               |           | 16.50  | 16.20                     |
|            |                    | 102     | 5510               |           | 16.50  | 16.37                     |
|            |                    | 110     | 5550               |           | 16.50  | 16.38                     |
|            | 802.11n40-HT0      | 118     | 5590               | MCS0      | 16.50  | 16.36                     |
|            |                    | 126     | 5630               |           | 16.50  | 16.30                     |
|            |                    | 134     | 5670               |           | 16.50  | 16.45                     |
|            |                    | 102     | 5510               |           | 16.50  | 16.38                     |
|            |                    | 110     | 5550               |           | 16.50  | 16.37                     |
|            | 802.11ac40-VHT0    | 118     | 5590               | MCS0      | 16.50  | 16.31                     |
|            | 002.11a040-VHTU    | 126     | 5630               | IVICOU    | 16.50  | 16.23                     |
|            |                    | 134     | 5670               |           | 16.50  | 16.37                     |
|            |                    | 142     | 5710               |           | 16.50  | 16.33                     |
|            |                    | 106     | 5530               |           | 14.00  | 13.90                     |
|            | 802.11ac80-VHT0    | 122     | 5610               | MCS0      | 16.50  | 16.34                     |
|            |                    | 138     | 5690               |           | 16.50  | 16.33                     |

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|              |                 | Aux A   | Antenna            |           |  |                           |
|--------------|-----------------|---------|--------------------|-----------|--|---------------------------|
| Mode         | Mode            | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated<br>Avg. Power<br>+ Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|              |                 | 149     | 5745               |           | 16.50  | 16.32                     |
|              | 802.11a         | 157     | 5785               | 6Mbps     | 16.50  | 16.35                     |
|              |                 | 165     | 5825               |           | 16.50  | 16.28                     |
|              |                 | 149     | 5745               | MCS0      | 16.50  | 16.32                     |
|              | 802.11n20-HT0   | 157     | 5785               |           | 16.50  | 16.36                     |
|              |                 | 165     | 5825               |           | 16.50  | 16.31                     |
| 5800 MHz     |                 | 149     | 5745               |           | 16.50  | 16.41                     |
| 3000 1011 12 | 802.11ac20-VHT0 | 157     | 5785               | MCS0      | 16.50  | 16.28                     |
|              |                 | 165     | 5825               |           | 16.50  | 16.29                     |
|              | 802.11n40-HT0   | 151     | 5755               | MCS0      | 16.50  | 16.40                     |
|              | 802.11140-HT0   | 159     | 5795               | IVICOU    | 16.50  | 16.37                     |
|              |                 | 151     | 5755               | MCS0      | 16.50  | 16.44                     |
|              | 002.11a040-VH10 | 159     | 5795               | IVICOU    | 16.50  | 16.45                     |
|              | 802.11ac80-VHT0 | 155     | 5775               | MCS0      | 16.50  | 16.42                     |

Bluetooth conducted power table:

| Mode   | Channel | Frequency<br>(MHz) | Average | Output Pow | ver (dBm) | Max. Rated Avg.<br>Power + Max. Tolerance (dBm |  |  |
|--------|---------|--------------------|---------|------------|-----------|--|--|--|
|        |         | (IVITIZ)           | 1Mbps   | 2Mbps      | 3Mbps     | Power + Max. Tolerance (ubin)                  |  |  |
|        | CH 00   | 2402               | 9.80    | 8.21       | 7.52      |  |  |  |
| BR/EDR | CH 39   | 2441               | 11.15   | 9.27       | 8.59      | 11.5   |  |  |
|        | CH 78   | 2480               | 9.72    | 8.03       | 7.05      |  |  |  |

| Mode | Channel | Frequency<br>(MHz) |      | Max. Rated Avg.<br>Power + Max. Tolerance (dBm) |
|------|---------|--------------------|------|---|
| (IVI |         | (1411 12)          | GFSK | Tower Timax: Telerance (aBin)                   |
|      | CH 00   | 2402               | 6.41 |   |
| LE   | CH 20   | 2442               | 6.93 | 7   |
|      | CH 39   | 2480               | 5.69 |   |

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## 1.3.1 LTE Downlink CA specification

## LTE Downlink 2CA conducted power table

|          |                           |                     |                                |            |             | Two                   | Compone             | ent Carrier I                  | Maximum ( | Conducted I               | Power               |                                | •  | •  |                |                  |
|----------|---------------------------|---------------------|--------------------------------|------------|-------------|-----------------------|---------------------|--------------------------------|-----------|---------------------------|---------------------|--------------------------------|--|--|----------------|------------------|
|          |                           |                     |                                | PCC        |             |                       |                     |                                |           | SC                        | C                   |                                | Po   | wer  |                |                  |
| PCC Band | PCC<br>Bandwidth<br>[MHz] | PCC (UL)<br>Channel | PCC (UL)<br>Frequency<br>[MHz] | Modulation | PCC (UL) RB | PCC (UL) RB<br>Offset | PCC (DL)<br>Channel | PCC (DL)<br>Frequency<br>[MHz] | SCC Band  | SCC<br>Bandwidth<br>[MHz] | SCC (DL)<br>Channel | SCC (DL)<br>Frequency<br>[MHz] | LTE Tx.Power<br>with DL CA<br>active (dBm) | LTE Tx.Power<br>with DL CA<br>inactive (dBm) | Configurations | Maximum<br>power |
| LTE B2   | 20                        | 18700               | 1860                           | QPSK       | 1           | 0                     | 700                 | 1940                           | LTE B2    | 20                        | 1100                | 1980                           | 23.20                                      | 23.30  | CA_2A-2A       | Full power       |
| LTE B2   | 20                        | 18700               | 1860                           | QPSK       | 1           | 0                     | 700                 | 1940                           | LTE B2    | 20                        | 1100                | 1980                           | 17.23                                      | 17.37  | CA_2A-2A       | Reduced powe     |
| LTE B2   | 20                        | 18700               | 1860                           | QPSK       | 1           | 0                     | 700                 | 1940                           | LTE B17   | 10                        | 5790                | 740                            | 23.10                                      | 23.30  | CA_2A-17A      | Full power       |
| LTE B2   | 20                        | 18900               | 1880                           | QPSK       | 100         | 0                     | 900                 | 1960                           | LTE B17   | 10                        | 5790                | 740                            | 17.31                                      | 17.48  | CA_2A-17A      | Reduced powe     |
| LTE B17  | 10                        | 23780               | 709                            | QPSK       | 1           | 0                     | 5780                | 739                            | LTE B2    | 20                        | 900                 | 1960                           | 22.61                                      | 22.74  | CA_2A-17A      | Full power       |
| LTE B17  | 10                        | 23780               | 709                            | QPSK       | 1           | 0                     | 5780                | 739                            | LTE B2    | 20                        | 900                 | 1960                           | 20.85                                      | 20.99  | CA_2A-17A      | Reduced powe     |
| LTE B4   | 20                        | 20300               | 1745                           | QPSK       | 1           | 99                    | 2300                | 2145                           | LTE B4    | 20                        | 2050                | 2120                           | 23.11                                      | 23.29  | CA_4A-4A       | Full power       |
| LTE B4   | 20                        | 20300               | 1745                           | QPSK       | 100         | 0                     | 2300                | 2145                           | LTE B4    | 20                        | 2050                | 2120                           | 18.33                                      | 18.48  | CA_4A-4A       | Reduced powe     |
| LTE B4   | 20                        | 20300               | 1745                           | QPSK       | 1           | 99                    | 2300                | 2145                           | LTE B17   | 10                        | 5790                | 740                            | 23.15                                      | 23.29  | CA_4A-17A      | Full power       |
| LTE B4   | 20                        | 20300               | 1745                           | QPSK       | 100         | 0                     | 2300                | 2145                           | LTE B17   | 10                        | 5790                | 740                            | 18.36                                      | 18.48  | CA_4A-17A      | Reduced power    |
| LTE B17  | 10                        | 23780               | 709                            | QPSK       | 1           | 0                     | 5780                | 739                            | LTE B4    | 20                        | 2175                | 2132.5                         | 22.56                                      | 22.74  | CA_4A-17A      | Full power       |
| LTE B17  | 10                        | 23780               | 709                            | QPSK       | 1           | 0                     | 5780                | 739                            | LTE B4    | 20                        | 2175                | 2132.5                         | 20.75                                      | 20.99  | CA_4A-17A      | Reduced power    |
| LTE B5   | 10                        | 20600               | 844                            | QPSK       | 1           | 0                     | 2600                | 889                            | LTE B7    | 20                        | 21100               | 2535                           | 23.80                                      | 23.91  | CA_5A-7A       | Full power       |
| LTE B5   | 10                        | 20600               | 844                            | QPSK       | 1           | 0                     | 2600                | 889                            | LTE B7    | 20                        | 21100               | 2535                           | 22.34                                      | 22.48  | CA_5A-7A       | Reduced power    |
| LTE B7   | 20                        | 21100               | 2535                           | QPSK       | 1           | 0                     | 3100                | 2655                           | LTE B5    | 10                        | 2525                | 881.5                          | 22.45                                      | 22.53  | CA_5A-7A       | Full power       |
| LTE B7   | 20                        | 21100               | 2535                           | QPSK       | 1           | 0                     | 3100                | 2655                           | LTE B5    | 10                        | 2525                | 881.5                          | 16.85                                      | 17.00  | CA_5A-7A       | Reduced power    |
| LTE B7   | 15                        | 20825               | 2507.5                         | QPSK       | 1           | 74                    | 2825                | 2627.5                         | LTE B7    | 5                         | 2918                | 2636                           | 22.11                                      | 22.26  | CA_7B          | Full power       |
| LTE B7   | 15                        | 20825               | 2507.5                         | QPSK       | 36          | 37                    | 2825                | 2627.5                         | LTE B7    | 5                         | 2918                | 2636                           | 16.66                                      | 16.78  | CA_7B          | Reduced power    |
| LTE B7   | 20                        | 21350               | 2560                           | QPSK       | 1           | 50                    | 3350                | 2680                           | LTE B7    | 20                        | 3152                | 2660.2                         | 22.32                                      | 22.52  | CA_7C          | Full power       |
| LTE B7   | 20                        | 21350               | 2560                           | QPSK       | 1           | 50                    | 3350                | 2680                           | LTE B7    | 20                        | 3152                | 2660.2                         | 16.85                                      | 16.91  | CA_7C          | Reduced power    |
| LTE B7   | 20                        | 21350               | 2560                           | QPSK       | 1           | 50                    | 3350                | 2680                           | LTE B7    | 20                        | 2850                | 2630                           | 22.43                                      | 22.52  | CA_7A-7A       | Full power       |
| LTE B7   | 20                        | 21350               | 2560                           | QPSK       | 1           | 50                    | 3350                | 2680                           | LTE B7    | 20                        | 2850                | 2630                           | 16.81                                      | 16.91  | CA_7A-7A       | Reduced power    |
| LTE B41  | 20                        | 41490               | 2680                           | QPSK       | 1           | 0                     | 41490               | 2680                           | LTE B41   | 20                        | 41292               | 2660.2                         | 22.32                                      | 22.49  | CA_41C         | Full power       |
| LTE B41  | 20                        | 41490               | 2680                           | QPSK       | 1           | 0                     | 41490               | 2680                           | LTE B41   | 20                        | 39750               | 2506                           | 22.41                                      | 22.49  | CA_41A-41A     | Full power       |
| LTE B66  | 20                        | 1770                | 132572                         | QPSK       | 1           | 0                     | 67036               | 2170                           | LTE B66   | 20                        | 65536               | 2120                           | 23.10                                      | 23.24  | CA_66A-66A     | Full power       |
| LTE B66  | 20                        | 1770                | 132572                         | QPSK       | 1           | 0                     | 67036               | 2170                           | LTE B66   | 20                        | 65536               | 2120                           | 18.32                                      | 18.45  | CA_66A-66A     | Reduced power    |

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### LTE Downlink 3CA conducted power table

|                    |                           |                     |                                |              |                |                       |                     | Thre                           | e Compor           |                           |                     | n Conducted                    | Power              |                           |                     |                                |  |  |                                |                             |
|--------------------|---------------------------|---------------------|--------------------------------|--------------|----------------|-----------------------|---------------------|--------------------------------|--------------------|---------------------------|---------------------|--------------------------------|--------------------|---------------------------|---------------------|--------------------------------|--|--|--------------------------------|-----------------------------|
|                    |                           |                     | 200 441                        | PCC          | 1              | 1                     |                     | 200 mil                        |                    |                           | C1                  | 000 (01)                       |                    |                           | CC 2                | 900 mil                        | Po   | wer  |                                | Meximum                     |
| PCC Band           | PCC<br>Bendwidth<br>[MHz] | PCC (UL)<br>Channel | PCC (UL)<br>Frequency<br>[MHz] | Modulation   | PCC (UL)<br>RB | PCC (UL)<br>RB Offset | PCC (DL)<br>Channel | PCC (DL)<br>Frequency<br>[MHz] | SCC Band           | SCC<br>Bandwidth<br>[MHz] | SCC (DL)<br>Channel | SCC (DL)<br>Frequency<br>[MHz] | SCC Band           | SCC<br>Bendwidth<br>[MHz] | SCC (DL)<br>Channel | SCC (DL)<br>Frequency<br>[MHz] | LTE Tx.Power<br>with DL CA<br>active (dBm) | LTE Tx.Power<br>with DL CA<br>inactive (dBm) | Configurations                 | power                       |
| LTE B2             | 20                        | 18700               | 1860                           | QPSK         | 1              | 0                     | 700                 | 1940                           | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B5             | 10                        | 2525                | 881.5                          | 23.20                                      | 23.30  | CA_2A-4A-5A                    | Full power                  |
| LTE B2             | 20                        | 18900               | 1880                           | QPSK         | 100            | 0                     | 900                 | 1960                           | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B5             | 10                        | 2525                | 881.5                          | 17.37                                      | 17.48  | CA_2A-4A-5A                    | Reduced power               |
| LTE B4             | 20                        | 20300               | 1745                           | QPSK         | 1              | 99                    | 2300                | 2145                           | LTE B2             | 20                        | 900                 | 1960                           | LTE B5             | 10                        | 2525                | 881.5                          | 23.17                                      | 23.29  | CA_2A-4A-5A                    | Full power                  |
| LTE B4<br>LTE B5   | 20<br>10                  | 20300<br>20600      | 1745<br>844                    | QPSK<br>QPSK | 100            | 0                     | 2300<br>2600        | 2145<br>889                    | LTE B2<br>LTE B2   | 20<br>20                  | 900                 | 1960<br>1960                   | LTE B5<br>LTE B4   | 10<br>20                  | 2525<br>2175        | 881.5<br>2132.5                | 18.22<br>23.71                             | 18.48<br>23.91                               | CA_2A-4A-5A<br>CA_2A-4A-5A     | Reduced power<br>Full power |
| LTE B5             | 10                        | 20600               | 844                            | QPSK         | 1              | 0                     | 2600                | 889                            | LTE B2             | 20                        | 900                 | 1960                           | LTE B4             | 20                        | 2175                | 2132.5                         | 22.27                                      | 22.48  | CA_2A-4A-5A<br>CA_2A-4A-5A     | Reduced power               |
| LTE B2             | 20                        | 18700               | 1860                           | QPSK         | 1              | 0                     | 700                 | 1940                           | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B13            | 10                        | 5230                | 751                            | 23.10                                      | 23.30  | CA_2A-4A-13A                   | Full power                  |
| LTE B2             | 20                        | 18900               | 1880                           | QPSK         | 100            | 0                     | 900                 | 1960                           | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B13            | 10                        | 5230                | 751                            | 17.35                                      | 17.48  | CA_2A-4A-13A                   | Reduced power               |
| LTE B4             | 20                        | 20300               | 1745                           | QPSK         | - 1            | 99                    | 2300                | 2145                           | LTE B2             | 20                        | 900                 | 1960                           | LTE B13            | 10                        | 5230                | 751                            | 23.18                                      | 23.29  | CA_2A-4A-13A                   | Full power                  |
| LTE B4             | 20<br>10                  | 20300<br>23230      | 1745<br>782                    | QPSK<br>QPSK | 100            | 0<br>25               | 2300<br>5230        | 2145<br>751                    | LTE B2<br>LTE B2   | 20<br>20                  | 900                 | 1960<br>1960                   | LTE B13<br>LTE B4  | 10<br>20                  | 5230<br>2175        | 751<br>2132.5                  | 18.39<br>22.66                             | 18.48<br>22.85                               | CA_2A-4A-13A<br>CA_2A-4A-13A   | Reduced power<br>Full power |
| LTE B13            | 10                        | 23230               | 782                            | QPSK         | 1              | 25                    | 5230                | 751                            | LTE B2             | 20                        | 900                 | 1960                           | LTE B4             | 20                        | 2175                | 2132.5                         | 22.21                                      | 22.32  | CA_2A-4A-13A                   | Reduced power               |
| LTE B5             | 10                        | 20600               | 844                            | QPSK         | 1              | 0                     | 2600                | 889                            | LTE B2             | 20                        | 700                 | 1940                           | LTE B2             | 20                        | 898                 | 1959.8                         | 23.80                                      | 23.91  | CA_2C-5A                       | Full power                  |
| LTE B5             | 10                        | 20600               | 844                            | QPSK         | 1              | 0                     | 2600                | 889                            | LTE B2             | 20                        | 700                 | 1940                           | LTE B2             | 20                        | 898                 | 1959.8                         | 22.40                                      | 22.48  | CA_2C-5A                       | Reduced power               |
| LTE B2<br>LTE B2   | 20<br>20                  | 18700<br>18700      | 1860<br>1860                   | QPSK<br>QPSK | 1              | 0                     | 700<br>700          | 1940<br>1940                   | LTE B2<br>LTE B2   | 20<br>20                  | 898<br>898          | 1959.8<br>1959.8               | LTE B5             | 10<br>10                  | 2525<br>2525        | 881.5<br>881.5                 | 23.15<br>17.30                             | 23.30<br>17.37                               | CA_2C-5A<br>CA_2C-5A           | Full power<br>Reduced power |
| LTE B2             | 20                        | 18700               | 1860                           | QPSK         | 1              | 0                     | 700                 | 1940                           | LTE B5             | 10                        | 2525                | 881.5                          | LTE B30            | 10                        | 9820                | 2355                           | 23.14                                      | 23.30  | CA_2A-5A-30A                   | Full power                  |
| LTE B2             | 20                        | 18900               | 1880                           | QPSK         | 100            | 0                     | 900                 | 1960                           | LTE B5             | 10                        | 2525                | 881.5                          | LTE B30            | 10                        | 9820                | 2355                           | 17.40                                      | 17.48  | CA_2A-5A-30A                   | Reduced power               |
| LTE B5             | 10                        | 20600               | 844                            | QPSK         | 1              | 0                     | 2600                | 889                            | LTE B2             | 20                        | 900                 | 1960                           | LTE B30            | 10                        | 9820                | 2355                           | 23.80                                      | 23.91  | CA_2A-5A-30A                   | Full power                  |
| LTE B5             | 10                        | 20600               | 844                            | QPSK<br>QPSK | 1              | 0                     | 2600<br>9820        | 889<br>2355                    | LTE B2             | 20                        | 900                 | 1960                           | LTE B30            | 10                        | 9820<br>2525        | 2355                           | 22.42                                      | 22.48  | CA_2A-5A-30A                   | Reduced power               |
| LTE B30            | 10<br>10                  | 27710<br>27710      | 2310<br>2310                   | QPSK         | 50             | 0                     | 9820<br>9820        | 2355<br>2355                   | LTE B2<br>LTE B2   | 20<br>20                  | 900                 | 1960<br>1960                   | LTE B5             | 10<br>10                  | 2525<br>2525        | 881.5<br>881.5                 | 22.18<br>18.74                             | 22.29<br>19.00                               | CA_2A-5A-30A<br>CA_2A-5A-30A   | Full power<br>Reduced power |
| LTE B2             | 20                        | 18700               | 1860                           | QPSK         | 1              | 0                     | 700                 | 1940                           | LTE B5             | 10                        | 2525                | 881.5                          | LTE B66            | 20                        | 66786               | 2145                           | 23.11                                      | 23.30  | CA_2A-5A-66A                   | Full power                  |
| LTE B2             | 20                        | 18900               | 1880                           | QPSK         | 100            | 0                     | 900                 | 1960                           | LTE B5             | 10                        | 2525                | 881.5                          | LTE B66            | 20                        | 66786               | 2145                           | 17.29                                      | 17.48  | CA_2A-5A-66A                   | Reduced power               |
| LTE B5             | 10                        | 20600               | 844                            | QPSK         | 1              | 0                     | 2600                | 889                            | LTE B2             | 20                        | 900                 | 1960                           | LTE B66            | 20                        | 66786               | 2145                           | 23.76                                      | 23.91  | CA_2A-5A-66A                   | Full power                  |
| LTE B5             | 10<br>20                  | 20600<br>132572     | 844<br>1770                    | QPSK<br>QPSK | 1              | 0                     | 2600<br>67036       | 889<br>2170                    | LTE B2<br>LTE B2   | 20<br>20                  | 900                 | 1960<br>1960                   | LTE B66<br>LTE B5  | 20<br>10                  | 66786<br>2525       | 2145<br>881.5                  | 22.34<br>23.12                             | 22.48<br>23.24                               | CA_2A-5A-66A<br>CA_2A-5A-66A   | Reduced power<br>Full power |
| LTE B66            | 20                        | 132572              | 1770                           | QPSK         | 100            | 0                     | 66786               | 21/0                           | LTE B2             | 20                        | 900                 | 1960                           | LTE B5             | 10                        | 2525                | 881.5<br>881.5                 | 18.31                                      | 18.46  | CA_2A-5A-66A                   | Reduced power               |
| LTE B2             | 20                        | 18700               | 1860                           | QPSK         | 1              | 0                     | 700                 | 1940                           | LTE B12            | 10                        | 5095                | 737.5                          | LTE B30            | 10                        | 9820                | 2355                           | 23.15                                      | 23.30  | CA_2A-12A-30A                  | Full power                  |
| LTE B2             | 20                        | 18900               | 1880                           | QPSK         | 100            | 0                     | 900                 | 1960                           | LTE B12            | 10                        | 5095                | 737.5                          | LTE B30            | 10                        | 9820                | 2355                           | 17.36                                      | 17.48  | CA_2A-12A-30A                  | Reduced power               |
| LTE B12<br>LTE B12 | 10                        | 23095<br>23095      | 707.5<br>707.5                 | QPSK<br>QPSK | 1              | 25<br>49              | 5095<br>5095        | 737.5<br>737.5                 | LTE B2<br>LTE B2   | 20<br>20                  | 900                 | 1960<br>1960                   | LTE B30<br>LTE B30 | 10<br>10                  | 9820<br>9820        | 2355<br>2355                   | 22.55<br>20.77                             | 22.69<br>20.96                               | CA_2A-12A-30A<br>CA_2A-12A-30A | Full power<br>Reduced power |
| LTE B30            | 10                        | 27710               | 2310                           | QPSK         | 1              | 0                     | 9820                | 2355                           | LTE B12            | 10                        | 5095                | 737.5                          | LTE B2             | 20                        | 900                 | 1960                           | 22.16                                      | 22.29  | CA_2A-12A-30A                  | Full power                  |
| LTE B30            | 10                        | 27710               | 2310                           | QPSK         | 50             | 0                     | 9820                | 2355                           | LTE B12            | 10                        | 5095                | 737.5                          | LTE B2             | 20                        | 900                 | 1960                           | 18.68                                      | 19.00  | CA_2A-12A-30A                  | Reduced power               |
| LTE B2             | 20                        | 18700               | 1860                           | QPSK         | - 1            | 0                     | 700                 | 1940                           | LTE B13            | 10                        | 5230                | 751                            | LTE B66            | 20                        | 66786               | 2145                           | 23.20                                      | 23.30  | CA_2A-13A-66A                  | Full power                  |
| LTE B2             | 20                        | 18900               | 1880                           | QPSK         | 100            | 0                     | 900                 | 1960                           | LTE B13            | 10                        | 5230                | 751                            | LTE B66            | 20                        | 66786               | 2145                           | 17.21                                      | 17.48  | CA_2A-13A-66A                  | Reduced power               |
| LTE B13            | 10                        | 23230<br>23230      | 782<br>782                     | QPSK<br>QPSK | 1              | 25<br>25              | 5230<br>5230        | 751<br>751                     | LTE B2<br>LTE B2   | 20<br>20                  | 900<br>900          | 1960<br>1960                   | LTE B66<br>LTE B66 | 20<br>20                  | 66786<br>66786      | 2145<br>2145                   | 22.69<br>22.21                             | 22.85<br>22.32                               | CA_2A-13A-66A<br>CA_2A-13A-66A | Full power<br>Reduced power |
| LTE B66            | 20                        | 132572              | 1770                           | QPSK         | 1              | 0                     | 67036               | 2170                           | LTE B2             | 20                        | 900                 | 1960                           | LTE B13            | 10                        | 5230                | 751                            | 23.17                                      | 23.24  | CA_2A-13A-66A                  | Full power                  |
| LTE B66            | 20                        | 132322              | 1745                           | QPSK         | 100            | 0                     | 66786               | 2145                           | LTE B2             | 20                        | 900                 | 1960                           | LTE B13            | 10                        | 5230                | 751                            | 18.32                                      | 18.46  | CA_2A-13A-66A                  | Reduced power               |
| LTE B2             | 20                        | 18700               | 1860                           | QPSK         | 1              | 0                     | 700                 | 1940                           | LTE B29            | 10                        | 9715                | 722.5                          | LTE B30            | 10                        | 9820                | 2355                           | 23.20                                      | 23.30  | CA_2A-29A-30A                  | Full power                  |
| LTE B2<br>LTE B30  | 20<br>10                  | 18900<br>27710      | 1880<br>2310                   | QPSK<br>QPSK | 100            | 0                     | 900<br>9820         | 1960<br>2355                   | LTE B29<br>LTE B2  | 10                        | 9715<br>900         | 722.5<br>1960                  | LTE B30<br>LTE B29 | 10                        | 9820<br>9715        | 2355<br>722.5                  | 17.30<br>22.18                             | 17.48<br>22.29                               | CA_2A-29A-30A<br>CA_2A-29A-30A | Reduced power<br>Full power |
| LTE B30            | 10                        | 27710               | 2310                           | QPSK         | 50             | 0                     | 9820                | 2355                           | LTE B2             | 20                        | 900                 | 1960                           | LTE B29            | 10                        | 9715                | 722.5                          | 18.76                                      | 19.00  | CA_2A-29A-30A                  | Reduced power               |
| LTE B2             | 20                        | 18700               | 1860                           | QPSK         | 1              | 0                     | 700                 | 1940                           | LTE B66            | 20                        | 66536               | 2120                           | LTE B66            | 20                        | 66734               | 2139.8                         | 23.20                                      | 23.30  | CA_2A-66B                      | Full power                  |
| LTE B2             | 20                        | 18900               | 1880                           | QPSK         | 100            | 0                     | 900                 | 1960                           | LTE B66            | 20                        | 66536               | 2120                           | LTE B66            | 20                        | 66734               | 2139.8                         | 17.37                                      | 17.48  | CA_2A-66B                      | Reduced power               |
| LTE B66            | 20                        | 132622              | 1775                           | QPSK         | 1              | 49                    | 67086               | 2175                           | LTE B66            | 20                        | 66987               | 2165.1                         | LTE B2             | 20                        | 900                 | 1960                           | 22.98                                      | 23.06  | CA_2A-66B                      | Full power                  |
| LTE B66<br>LTE B2  | 20<br>20                  | 132622<br>18700     | 1775<br>1860                   | QPSK<br>QPSK | 1              | 49                    | 67086<br>700        | 2175<br>1940                   | LTE B66<br>LTE B66 | 20                        | 66987<br>66536      | 2165.1<br>2120                 | LTE B2<br>LTE B66  | 20                        | 900<br>66734        | 1960<br>2139.8                 | 17.70<br>23.20                             | 17.88<br>23.30                               | CA_2A-66B<br>CA_2A-66C         | Reduced power<br>Full power |
| LTE B2             | 20                        | 18900               | 1880                           | QPSK         | 100            | 0                     | 900                 | 1960                           | LTE B66            | 20                        | 66536               | 2120                           | LTE B66            | 20                        | 66734               | 2139.8                         | 17.39                                      | 17.48  | CA_2A-66C                      | Reduced power               |
| LTE B66            | 20                        | 132572              | 1770                           | QPSK         | 1              | 0                     | 67036               | 2170                           | LTE B66            | 20                        | 66734               | 2139.8                         | LTE B2             | 20                        | 900                 | 1960                           | 23.16                                      | 23.24  | CA_2A-66C                      | Full power                  |
| LTE B66            | 20                        | 132572              | 1770                           | QPSK         | 1              | 0                     | 66838               | 2150.2                         | LTE B66            | 20                        | 66734               | 2139.8                         | LTE B2             | 20                        | 900                 | 1960                           | 18.32                                      | 18.45  | CA_2A-66C                      | Reduced power               |
| LTE B4<br>LTE B4   | 20<br>20                  | 20300<br>20300      | 1745<br>1745                   | QPSK<br>QPSK | 100            | 99                    | 2300<br>2300        | 2145<br>2145                   | LTE B5             | 10                        | 2525<br>2525        | 881.5<br>881.5                 | LTE B30<br>LTE B30 | 10<br>10                  | 9820<br>9820        | 2355<br>2355                   | 23.19<br>18.40                             | 23.29<br>18.48                               | CA_4A-5A-30A<br>CA_4A-5A-30A   | Full power<br>Reduced power |
| LTE B5             | 10                        | 20600               | 1745<br>844                    | QPSK         | 100            | 0                     | 2600                | 2145<br>889                    | LTE B5             | 20                        | 2525                | 2132.5                         | LTE B30            | 10                        | 9820                | 2355                           | 23.80                                      | 18.48<br>23.91                               | CA_4A-5A-30A<br>CA_4A-5A-30A   | Full power                  |
| LTE B5             | 10                        | 20600               | 844                            | QPSK         | 1              | 0                     | 2600                | 889                            | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B30            | 10                        | 9820                | 2355                           | 22.28                                      | 22.48  | CA_4A-5A-30A                   | Reduced power               |
| LTE B30            | 10                        | 27710               | 2310                           | QPSK         | 1              | 0                     | 9820                | 2355                           | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B5             | 10                        | 2525                | 881.5                          | 22.12                                      | 22.29  | CA_4A-5A-30A                   | Full power                  |
| LTE B30<br>LTE B4  | 10<br>20                  | 27710<br>20300      | 2310<br>1745                   | QPSK<br>QPSK | 50             | 99                    | 9820<br>2300        | 2355<br>2145                   | LTE B4<br>LTE B12  | 20<br>10                  | 2175<br>5095        | 2132.5<br>737.5                | LTE B5             | 10                        | 2525<br>9820        | 881.5<br>2355                  | 18.88<br>23.19                             | 19.00<br>23.29                               | CA_4A-5A-30A<br>CA_4A-12A-30A  | Reduced power<br>Full power |
| LTE B4             | 20                        | 20300               | 1745                           | QPSK         | 100            | 0                     | 2300                | 2145                           | LTE B12            | 10                        | 5095                | 737.5                          | LTE B30            | 10                        | 9820                | 2355                           | 18.30                                      | 18.48  | CA_4A-12A-30A                  | Reduced power               |
| LTE B12            | 10                        | 23095               | 707.5                          | QPSK         | 1              | 25                    | 5095                | 737.5                          | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B30            | 10                        | 9820                | 2355                           | 22.50                                      | 22.69  | CA_4A-12A-30A                  | Full power                  |
| LTE B12            | 10                        | 23095               | 707.5                          | QPSK         | 1              | 49                    | 5095                | 737.5                          | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B30            | 10                        | 9820                | 2355                           | 20.68                                      | 20.96  | CA_4A-12A-30A                  | Reduced power               |
| LTE B30            | 10                        | 27710               | 2310                           | QPSK         | 1              | 0                     | 9820                | 2355                           | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B12            | 10                        | 5095                | 737.5                          | 22.14                                      | 22.29  | CA_4A-12A-30A                  | Full power                  |
| LTE B30<br>LTE B4  | 10<br>20                  | 27710<br>20300      | 2310<br>1745                   | QPSK<br>QPSK | 50             | 99                    | 9820<br>2300        | 2355<br>2145                   | LTE B4<br>LTE B29  | 20<br>10                  | 2175<br>9715        | 2132.5<br>722.5                | LTE B12<br>LTE B30 | 10<br>10                  | 5095<br>9820        | 737.5<br>2355                  | 18.88<br>23.10                             | 19.00<br>23.29                               | CA_4A-12A-30A<br>CA_4A-29A-30A | Reduced power<br>Full power |
| LTE B4             | 20                        | 20300               | 1745                           | QPSK         | 100            | 0                     | 2300                | 2145                           | LTE B29            | 10                        | 9715<br>9715        | 722.5                          | LTE B30            | 10                        | 9820                | 2355                           | 18.40                                      | 18.48  | CA_4A-29A-30A<br>CA_4A-29A-30A | Reduced power               |
| LTE B30            | 10                        | 27710               | 2310                           | QPSK         | 1              | 0                     | 9820                | 2355                           | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B29            | 10                        | 9715                | 722.5                          | 22.18                                      | 22.29  | CA_4A-29A-30A                  | Full power                  |
| LTE B30            | 10                        | 27710               | 2310                           | QPSK         | 50             | 0                     | 9820                | 2355                           | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B29            | 10                        | 9715                | 722.5                          | 18.80                                      | 19.00  | CA_4A-29A-30A                  | Reduced power               |
| LTE B5             | 10                        | 20600               | 844<br>844                     | QPSK<br>QPSK | 1              | 0                     | 2600                | 889                            | LTE B66            | 20                        | 66536<br>66536      | 2120                           | LTE B66            | 20                        | 67036<br>67036      | 2170                           | 23.78                                      | 23.91  | CA_5A-66B                      | Full power                  |
| LTE B5             | 10<br>20                  | 20600<br>132622     | 844<br>1775                    | QPSK<br>QPSK | 1              | 0<br>49               | 2600<br>67086       | 889<br>2175                    | LTE B66<br>LTE B66 | 20                        | 66536<br>66987      | 2120<br>2165.1                 | LTE B66<br>LTE B5  | 10                        | 67036<br>2525       | 2170<br>881.5                  | 22.40<br>22.95                             | 22.48  | CA_5A-66B<br>CA_5A-66B         | Reduced power<br>Full power |
| LTE B66            | 20                        | 132622              | 1775                           | QPSK         | 1              | 49                    | 67086               | 2175                           | LTE B66            | 20                        | 66987               | 2165.1                         | LTE B5             | 10                        | 2525                | 881.5                          | 17.75                                      | 17.88  | CA_5A-66B                      | Reduced power               |
| LTE B5             | 10                        | 20600               | 844                            | QPSK         | 1              | 0                     | 2600                | 889                            | LTE B66            | 20                        | 66536               | 2120                           | LTE B66            | 20                        | 67036               | 2170                           | 23.82                                      | 23.91  | CA_5A-66C                      | Full power                  |
| LTE B5             | 10                        | 20600               | 844                            | QPSK         | 1              | 0                     | 2600                | 889                            | LTE B66            | 20                        | 66536               | 2120                           | LTE B66            | 20                        | 67036               | 2170                           | 22.32                                      | 22.48  | CA_5A-66C                      | Reduced power               |
| LTE B66            | 20                        | 132572<br>132572    | 1770<br>1770                   | QPSK<br>QPSK | 1 1            | 0                     | 67036<br>66838      | 2170<br>2150.2                 | LTE B66<br>LTE B66 | 20                        | 66734<br>66734      | 2139.8<br>2139.8               | LTE B5             | 10                        | 2525<br>2525        | 881.5<br>881.5                 | 23.10<br>18.33                             | 23.24<br>18.45                               | CA_5A-66C<br>CA_5A-66C         | Full power<br>Reduced power |
| LTE B66            | 20                        | 132572              | 1770                           | QPSK         | 1              | 50                    | 66838<br>66536      | 2150.2<br>2120                 | LTE B66            | 20                        | 66734<br>66734      | 2139.8<br>2139.8               | LTE B5             | 10<br>20                  | 2525<br>66932       | 881.5<br>2159.6                | 18.33<br>22.85                             | 18.45<br>22.95                               | CA_5A-66C<br>CA_66D            | Reduced power<br>Full power |
| LTE B66            | 20                        | 132072              | 1720                           | QPSK         | 1              | 0                     | 66536               | 2120                           | LTE B66            | 20                        | 66734               | 2139.8                         | LTE B66            | 20                        | 66932               | 2159.6                         | 18.12                                      | 18.29  | CA_66D                         | Reduced power               |
| LTE B13            | 10                        | 23230               | 782                            | QPSK         | 1              | 25                    | 5230                | 751                            | LTE B66            | 20                        | 66536               | 2120                           | LTE B66            | 20                        | 67036               | 2170                           | 22.65                                      | 22.85  | CA_13A-66B                     | Full power                  |
| LTE B13            | 10                        | 23230               | 782                            | QPSK         | 1              | 25                    | 5230                | 751                            | LTE B66            | 20                        | 66536               | 2120                           | LTE B66            | 20                        | 67036               | 2170                           | 22.20                                      | 22.32  | CA_13A-66B                     | Reduced power               |
| LTE B66            | 20                        | 132622              | 1775                           | QPSK         | 1 1            | 49                    | 67086               | 2175                           | LTE B66            | 20                        | 66987               | 2165.1                         | LTE B13            | 10                        | 5230                | 751                            | 22.90                                      | 23.06  | CA_13A-66B<br>CA_13A-66B       | Full power                  |
| LTE B66<br>LTE B13 | 20<br>10                  | 132622<br>23230     | 1775<br>782                    | QPSK<br>QPSK | 1              | 49<br>25              | 67086<br>5230       | 2175<br>751                    | LTE B66<br>LTE B66 | 20                        | 66987<br>66536      | 2165.1<br>2120                 | LTE B13<br>LTE B66 | 10<br>20                  | 5230<br>67036       | 751<br>2170                    | 17.70<br>22.60                             | 17.88<br>22.85                               | CA_13A-66B<br>CA_13A-66C       | Reduced power<br>Full power |
| LTE B13            | 10                        | 23230               | 782                            | QPSK         | 1              | 25                    | 5230                | 751                            | LTE B66            | 20                        | 66536               | 2120                           | LTE B66            | 20                        | 67036               | 2170                           | 22.12                                      | 22.32  | CA_13A-66C                     | Reduced power               |
| LTE B66            | 20                        | 132572              | 1770                           | QPSK         | 1              | 0                     | 67036               | 2170                           | LTE B66            | 20                        | 66734               | 2139.8                         | LTE B13            | 10                        | 5230                | 751                            | 23.12                                      | 23.24  | CA_13A-66C                     | Full power                  |
|                    |                           | 132572              | 1770                           | QPSK         | 1              | 0                     | 66838               | 2150.2                         | LTE B66            | 20                        | 66734               | 2139.8                         | LTE B13            | 10                        | 5230                | 751                            | 18.32                                      | 18.45  | CA_13A-66C                     | Reduced power               |

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#### LTE CA information

#### A)

The device supports downlink LTE Carrier Aggregation (CA) only. It supports a maximum of 3 carriers in the downlink. Other Release 10 features or higher features are not supported, including Uplink Carrier Aggregation, Enhanced SC-FDMA and Uplink MIMO or other antenna diversity configurations etc. All uplink communications are identical to the Release 8 Specifications.

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.521-1 V14.3.0. The conducted power measurement results of downlink LTE CA are provided as above per 3GPP TS 36.521-1 V14.3.0. According to KDB 941225 D05A and RF exposure procedures in TCB workshop April 2018, the downlink LTE CA SAR test is not required.

B)

CA combination table

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|         |            |              | Completely Covered |         |               |              | Completely Covered |
|---------|------------|--------------|--------------------|---------|---------------|--------------|--------------------|
| Index   | 2CC        | Restriction  | by Measurement     | Index   | 3CC           | Restriction  | by Measurement     |
| 2CC #1  | CA 2C      |              | 3CC #3             | 3CC #1  | CA 2A-4A-5A   |              | No                 |
| 2CC #2  | CA 2A-2A   |              | No                 | 3CC #2  | CA 2A-4A-13A  |              | No                 |
| 2CC #3  | CA 2A-4A   |              | 3CC #1             | 3CC #3  | CA 2C-5A      |              | No                 |
| 2CC #4  | CA 2A-5A   |              | 3CC #4             | 3CC #4  | CA 2A-5A-30A  |              | No                 |
| 2CC #5  | CA 2A-12A  |              | 3CC #6             | 3CC #5  | CA 2A-5A-66A  |              | No                 |
| 2CC #6  | CA 2A-13A  |              | 3CC #7             | 3CC #6  | CA 2A-12A-30A |              | No                 |
| 2CC #7  | CA 2A-17A  |              | No                 | 3CC #7  | CA 2A-13A-66A |              | No                 |
| 2CC #8  | CA 2A-29A  | B29 SCC only | 3CC #8             | 3CC #8  | CA 2A-29A-30A | B29 SCC only | No                 |
| 2CC #9  | CA 2A-30A  |              | 3CC #4             | 3CC #9  | CA 2A-66B     |              | No                 |
| 2CC #10 | CA 2A-66A  |              | 3CC #5             | 3CC #10 | CA 2A-66C     |              | No                 |
| 2CC #11 | CA 4A-4A   |              | No                 | 3CC #11 | CA 4A-5A-30A  |              | No                 |
| 2CC #12 | CA 4A-5A   |              | 3CC #11            | 3CC #12 | CA 4A-12A-30A |              | No                 |
| 2CC #13 | CA 4A-12A  |              | 3CC #12            | 3CC #13 | CA 4A-29A-30A | B29 SCC only | No                 |
| 2CC #14 | CA 4A-13A  |              | 3CC #2             | 3CC #14 | CA 5A-66B     |              | No                 |
| 2CC #15 | CA 4A-17A  |              | No                 | 3CC #15 | CA 5A-66C     |              | No                 |
| 2CC #16 | CA 4A-29A  | B29 SCC only | 3CC #13            | 3CC #16 | CA 66D        |              | No                 |
| 2CC #17 | CA 4A-30A  |              | 3CC #11            | 3CC #17 | CA 13A-66B    |              | No                 |
| 2CC #18 | CA 5A-7A   |              | No                 | 3CC #18 | CA 13A-66C    |              | No                 |
| 2CC #19 | CA 5A-30A  |              | 3CC #4             |         |               |              |                    |
| 2CC #20 | CA 5A-66A  |              | 3CC #5             |         |               |              |                    |
| 2CC #21 | CA-7B      |              | No                 |         |               |              |                    |
| 2CC #22 | CA-7C      |              | No                 |         |               |              |                    |
| 2CC #23 | CA-7A-7A   |              | No                 |         |               |              |                    |
| 2CC #24 | CA 12A-30A |              | 3CC #6             |         |               |              |                    |
| 2CC #25 | CA 13A-66A |              | 3CC #7             |         |               |              |                    |
| 2CC #26 | CA 29A-30A |              | 3CC #8             |         |               |              |                    |
| 2CC #27 | CA 41C     |              | No                 |         |               |              |                    |
| 2CC #28 | CA 41A-41A |              | No                 |         |               |              |                    |
| 2CC #29 | CA 66B     |              | 3CC #9             |         |               |              |                    |
| 2CC #30 | CA 66C     |              | 3CC #10            |         |               |              |                    |
| 2CC #31 | CA 66A-66A |              | No                 |         |               |              |                    |

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Table 1: intra-band contiguous CA

|           |                    | ent carriers in    |                    |                      |                       |
|-----------|--------------------|--------------------|--------------------|----------------------|-----------------------|
|           | ·                  | sing carriers in   |                    | Maximum              |                       |
| E-UTRA CA | Channel bandwidths | Channel bandwidths | Channel bandwidths | aggregated bandwidth | Bandwidth combination |
|           | for carrier        | for carrier        | for carrier        | [MHz]                | set                   |
|           | [MHz]              | [MHz]              | [MHz]              |                      |                       |
|           | 5                  | 20                 |                    |                      |                       |
| 04.00     | 10                 | 15,20              |                    | 40                   | 0                     |
| CA_2C     | 15                 | 10,15,20           |                    | 40                   | 0                     |
|           | 20                 | 5,10,15,20         |                    |                      |                       |
| CA_7B     | 15                 | 5                  |                    | 20                   | 0                     |
|           | 15                 | 15                 |                    | 40                   | 0                     |
|           | 20                 | 20                 |                    | 40                   | 0                     |
|           | 10                 | 20                 |                    |                      |                       |
| CA_7C     | 15                 | 15,20              |                    | 40                   | 1                     |
|           | 20                 | 10,15,20           |                    |                      |                       |
|           | 15                 | 10,15              |                    | 40                   |                       |
|           | 20                 | 15,20              |                    | 40                   | 2                     |
|           | 10                 | 20                 |                    |                      |                       |
|           | 15                 | 15,20              |                    | 40                   | 0                     |
|           | 20                 | 10,15,20           |                    |                      |                       |
|           | 5,10               | 20                 |                    |                      |                       |
|           | 15                 | 15,20              |                    | 40                   | 1                     |
| CA_41C    | 20                 | 5,10,15,20         |                    |                      |                       |
|           | 10                 | 15,20              |                    |                      |                       |
|           | 15                 | 10,15,20           |                    | 40                   | 2                     |
|           | 20                 | 10,15,20           |                    |                      |                       |
|           | 10                 | 20                 |                    |                      | _                     |
|           | 20                 | 20                 |                    | 40                   | 3                     |
| CA_66D    | 5                  | 20                 | 20                 | 60                   | 0                     |

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| 20       | 5     | 20    |
|----------|-------|-------|
| 20       | 20    | 5     |
| 10       | 20    | 15    |
| 15       | 20    | 10    |
| 10,15,20 | 15,20 | 20    |
| 15,20    | 10    | 20    |
| 15       | 15,20 | 15    |
| 20       | 15,20 | 10,15 |
| 20       | 10    | 15    |

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Table 2: intra-band non-contiguous CA (with two sub-blocks)

| -UTRACA configuration | -             | ent carriers in sing carrier fre Channel bandwidths for carrier | Maximum<br>aggregated<br>bandwidth<br>[MHz] | Bandwidth<br>combination<br>set |
|-----------------------|---------------|---|---|---------------------------------|
| CA_2A-2A              | 5,10,15,20    | 5,10,15,20  | 40  | 0                               |
|                       | 5,10,15,20    | 5,10,15,20  | 40  | 0                               |
| CA_4A-4A              | 5,10          | 5,10  | 20  | 1                               |
|                       | 5<br>10<br>15 | 15<br>10,15<br>15,20  | 40  | 0                               |
| CA_7A-7A              | 5,10,15,20    | 5,10,15,20  | 40  | 1                               |
|                       | 5,10,15,20    | 5,10  | 30  | 2                               |
|                       | 10,15,20      | 10,15,20  | 40  | 3                               |
|                       | 10,15,20      | 10,15,20  | 40  | 0                               |
| CA_41A-41A            | 5,10,15,20    | 5,10,15,20  | 40  | 1                               |

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Table 3: inter-band CA (two bands)

|                            |                 |            |          |                   | iu CA     |           | ,         | ı                                  | ı                               |
|----------------------------|-----------------|------------|----------|-------------------|-----------|-----------|-----------|------------------------------------|---------------------------------|
| E-UTRA CA<br>Configuration | E-UTRA<br>Bands | 1.4<br>MHz | 3<br>MHz | 5<br>MHz          | 10<br>MHz | 15<br>MHz | 20<br>MHz | Maximum aggregated bandwidth [MHz] | Bandwidth<br>combination<br>set |
|                            | 2               | Yes        | Yes      | Yes               | Yes       | Yes       | Yes       |                                    | _                               |
|                            | 4               |            |          | Yes               | Yes       | Yes       | Yes       | 40                                 | 0                               |
| 04.04.44                   | 2               |            |          | Yes               | Yes       |           |           | 00                                 |                                 |
| CA_2A-4A                   | 4               |            |          | Yes               | Yes       |           |           | 20                                 | 1                               |
|                            | 2               |            |          | Yes               | Yes       | Yes       | Yes       | 40                                 | 2                               |
|                            | 4               |            |          | Yes               | Yes       | Yes       | Yes       | 40                                 | 2                               |
|                            | 2               |            |          | Yes               | Yes       | Yes       | Yes       | 20                                 | 0                               |
| CA_2A-5A                   | 5               |            |          | Yes               | Yes       |           |           | 30                                 | 0                               |
| CA_ZA-5A                   | 2               |            |          | Yes               | Yes       |           |           | 20                                 | 1                               |
|                            | 5               |            |          | Yes               | Yes       |           |           | 20                                 | '                               |
| CA_2C-5A                   | 2               |            |          | oandwid<br>36,521 |           |           |           | 50                                 | 0                               |
|                            | 5               |            |          | Yes               | Yes       |           |           |                                    |                                 |
|                            | 2               |            |          | Yes               | Yes       | Yes       | Yes       |                                    |                                 |
|                            | 12              |            |          | Yes               | Yes       |           |           | 30                                 | 0                               |
|                            | 2               |            |          | Yes               | Yes       | Yes       | Yes       |                                    |                                 |
| CA_2A-12A                  | 12              |            | Yes      | Yes               | Yes       |           |           | 30                                 | 1                               |
|                            | 2               |            |          | Yes               | Yes       |           |           |                                    |                                 |
|                            | 12              |            |          | Yes               | Yes       |           |           | 20                                 | 2                               |
|                            | 2               |            |          | Yes               | Yes       | Yes       | Yes       |                                    |                                 |
| 04.04.404                  | 13              |            |          |                   | Yes       |           |           | 30                                 | 0                               |
| CA_2A-13A                  | 2               |            |          | Yes               | Yes       |           |           | 20                                 | _                               |
|                            | 13              |            |          |                   | Yes       |           |           | 20                                 | 1                               |
| OA OA 47A                  | 2               |            |          | Yes               | Yes       |           |           | 00                                 |                                 |
| CA_2A-17A                  | 17              |            |          | Yes               | Yes       |           |           | 20                                 | 0                               |
| CA_2A-29A                  | 2               |            |          | Yes               | Yes       |           |           | 20                                 | 0                               |

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|           | I  |         |             | 1                  | 1   | 1   | 1   |    |   |
|-----------|----|---------|-------------|--------------------|-----|-----|-----|----|---|
|           | 29 |         | Yes         | Yes                | Yes |     |     |    |   |
|           | 2  |         |             | Yes                | Yes |     |     | 00 | 4 |
|           | 29 |         |             | Yes                | Yes |     |     | 20 | 1 |
|           | 2  |         |             | Yes                | Yes | Yes | Yes | 00 |   |
|           | 29 |         |             | Yes                | Yes |     |     | 30 | 2 |
|           | 2  |         |             | Yes                | Yes | Yes | Yes |    |   |
| CA_2A-30A | 30 |         |             | Yes                | Yes |     |     | 30 | 0 |
|           | 2  | Yes     | Yes         | Yes                | Yes | Yes | Yes |    |   |
|           | 66 |         |             | Yes                | Yes | Yes | Yes | 40 | 0 |
|           | 2  |         |             | Yes                | Yes |     |     |    |   |
| CA_2A-66A | 66 |         |             | Yes                | Yes |     |     | 20 | 1 |
|           | 2  |         |             | Yes                | Yes | Yes | Yes |    | _ |
|           | 66 |         |             | Yes                | Yes | Yes | Yes | 40 | 2 |
|           | 2  |         |             | Yes                | Yes | Yes | Yes |    |   |
| CA_2A-66B | 66 |         |             | 3 bandw<br>S 36,52 |     |     |     | 40 | 0 |
|           | 2  | 0 111 0 |             | Yes                | Yes | Yes | Yes |    |   |
| CA_2A-66C |    | Soo (   | ۱<br>۲۸ 660 | bandw              | •   |     |     | 60 | 0 |
| O/_2/(000 | 66 |         |             | S 36,52            |     |     |     | 00 | Ü |
|           | 4  |         |             | Yes                | Yes |     |     |    |   |
|           | 5  |         |             | Yes                | Yes |     |     | 20 | 0 |
| CA_4A-5A  | 4  |         |             | Yes                | Yes | Yes | Yes |    |   |
|           | 5  |         |             | Yes                | Yes |     |     | 30 | 1 |
|           | 4  | Yes     | Yes         | Yes                | Yes |     |     |    |   |
|           | 12 |         |             | Yes                | Yes |     |     | 20 | 0 |
|           | 4  | Yes     | Yes         | Yes                | Yes | Yes | Yes |    |   |
|           | 12 |         |             | Yes                | Yes |     |     | 30 | 1 |
| CA_4A-12A | 4  |         |             | Yes                | Yes | Yes | Yes |    |   |
|           | 12 |         | Yes         | Yes                | Yes |     |     | 30 | 2 |
|           | 4  |         |             | Yes                | Yes |     |     |    |   |
|           | 12 |         |             | Yes                | Yes |     |     | 20 | 3 |

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|            | 1  |        |        |         |           |          |        |      |   |  |  |  |
|------------|----|--------|--------|---------|-----------|----------|--------|------|---|--|--|--|
|            | 4  |        |        | Yes     | Yes       | Yes      | Yes    | 30   | 4 |  |  |  |
|            | 12 |        |        | Yes     | Yes       |          |        | 30   | 4 |  |  |  |
|            | 4  |        |        | Yes     | Yes       | Yes      |        | 00   | - |  |  |  |
|            | 12 |        |        | Yes     |           |          |        | 20   | 5 |  |  |  |
|            | 4  |        |        | Yes     | Yes       | Yes      | Yes    |      |   |  |  |  |
|            | 13 |        |        |         | Yes       |          |        | 30   | 0 |  |  |  |
| CA_4A-13A  | 4  |        |        | Yes     | Yes       |          |        |      |   |  |  |  |
|            | 13 |        |        |         | Yes       |          |        | 20   | 1 |  |  |  |
|            | 4  |        |        | Yes     | Yes       |          |        |      | _ |  |  |  |
|            | 29 |        | Yes    | Yes     | Yes       |          |        | 20   | 0 |  |  |  |
|            | 4  |        |        | Yes     | Yes       |          |        |      |   |  |  |  |
| CA_4A-29A  | 29 |        |        | Yes     | Yes       |          |        | 20   | 1 |  |  |  |
|            | 4  |        |        | Yes     | Yes       | Yes      | Yes    |      | _ |  |  |  |
|            | 29 |        |        | Yes     | Yes       |          |        | 30   | 2 |  |  |  |
| <b>.</b>   | 4  |        |        | Yes     | Yes       | Yes      | Yes    |      | _ |  |  |  |
| CA_4A-30A  | 30 |        |        | Yes     | Yes       |          |        | 30   | 0 |  |  |  |
|            | 5  | Yes    | Yes    | Yes     | Yes       |          |        |      | _ |  |  |  |
| <b>.</b>   | 7  |        |        |         | Yes       | Yes      | Yes    | 30   | 0 |  |  |  |
| CA_5A-7A   | 5  |        |        | Yes     | Yes       |          |        |      |   |  |  |  |
|            | 7  |        |        |         | Yes       | Yes      | Yes    | 30   | 1 |  |  |  |
|            | 5  |        |        | Yes     | Yes       |          |        |      |   |  |  |  |
| CA_5A-30A  | 30 |        |        | Yes     | Yes       |          |        | 20   | 0 |  |  |  |
|            | 5  |        |        | Yes     | Yes       |          |        |      |   |  |  |  |
| CA_5A-66A  | 66 |        |        | Yes     | Yes       | Yes      | Yes    | 30   | 0 |  |  |  |
|            | 5  |        |        | Yes     | Yes       |          |        |      |   |  |  |  |
| CA_5A-66B  | 60 | See 0  | CA_66E | 3 bandw | ridth cor | mbinatio | on set | 30   | 0 |  |  |  |
|            | 66 | 2 in 3 | GPP T  | S 36,52 | 1-1 tabl  | e 5.4.2  | A. 1-1 |      |   |  |  |  |
|            | 5  |        |        | Yes     | Yes       |          |        |      |   |  |  |  |
| CA_5A-66C  | 00 | See 0  | CA_66C | bandw   | idth co   | mbinatio | on set | 50 0 |   |  |  |  |
|            | 66 | 2 in 3 | GPP T  | S 36,52 | 1-1 tabl  | A. 1-1   |        |      |   |  |  |  |
| CA_12A-30A | 12 |        |        | Yes     | Yes       |          |        | 20   | 0 |  |  |  |

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|            | 30 |   | Yes                | Yes |     |     |    |   |
|------------|----|---|--------------------|-----|-----|-----|----|---|
|            | 13 |   | Yes                | Yes |     |     |    |   |
| CA_13A-66A | 66 |   | Yes                | Yes | Yes | Yes | 30 | 0 |
|            | 13 |   | Yes                | Yes |     |     |    |   |
| CA_13A-66B | 66 | _ | 3 bandw<br>S 36,52 |     |     |     | 30 | 0 |
|            | 13 |   | Yes                | Yes |     |     |    |   |
| CA_13A-66C | 66 | _ | bandw<br>S 36,52   |     |     |     | 50 | 0 |
|            | 29 |   | Yes                | Yes |     |     |    |   |
| CA_29A-30A | 30 |   | Yes                | Yes |     |     | 20 | 0 |

#### Table 4: inter-band CA (three bands)

| E-UTRA CA<br>Configuration | E-UTRA<br>Bands | 1.4<br>MHz | 3<br>MHz | 5<br>MHz | 10<br>MHz | 15<br>MHz | 20<br>MHz | Maximum aggregated bandwidth [MHz] | Bandwidth<br>combination<br>set |
|----------------------------|-----------------|------------|----------|----------|-----------|-----------|-----------|------------------------------------|---------------------------------|
|                            | 2               |            |          | Yes      | Yes       | Yes       | Yes       |                                    |                                 |
| CA_2A-4A-5A                | 4               |            |          | Yes      | Yes       | Yes       | Yes       | 50                                 | 0                               |
|                            | 5               |            |          | Yes      | Yes       |           |           |                                    |                                 |
|                            | 2               |            |          | Yes      | Yes       | Yes       | Yes       |                                    |                                 |
| CA_2A-4A-13A               | 4               |            |          | Yes      | Yes       | Yes       | Yes       | 50                                 | 0                               |
|                            | 13              |            |          |          | Yes       |           |           |                                    |                                 |
|                            | 2               |            |          | Yes      | Yes       | Yes       | Yes       |                                    |                                 |
| CA_2A-5A-30A               | 5               |            |          | Yes      | Yes       |           |           | 40                                 | 0                               |
|                            | 30              |            |          | Yes      | Yes       |           |           |                                    |                                 |
|                            | 2               |            |          | Yes      | Yes       | Yes       | Yes       |                                    |                                 |
| CA_2A-5A-66A               | 5               |            |          | Yes      | Yes       |           |           | 50                                 | 0                               |
|                            | 66              |            |          | Yes      | Yes       | Yes       | Yes       |                                    |                                 |
|                            | 2               |            |          | Yes      | Yes       | Yes       | Yes       |                                    | _                               |
| CA_2A-12A-30A              | 12              |            |          | Yes      | Yes       |           |           | 40                                 | 0                               |

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|                 |    |  |     |     | 1   |      |    |   |
|-----------------|----|--|-----|-----|-----|------|----|---|
|                 | 30 |  | Yes | Yes |     |      |    |   |
|                 | 2  |  | Yes | Yes | Yes | Yes  |    |   |
| CA_2A-13A-66A   | 13 |  | Yes | Yes |     |      | 50 | 0 |
|                 | 66 |  | Yes | Yes | Yes | Yes  |    |   |
|                 | 2  |  | Yes | Yes | Yes | Yes  |    |   |
| CA_2A-29A-30A   | 29 |  | Yes | Yes |     |      | 40 | 0 |
| _               | 30 |  | Yes | Yes |     |      |    |   |
|                 | 4  |  | Yes | Yes | Yes | Yes  |    |   |
| CA_4A-5A-30A    | 5  |  | Yes | Yes |     |      | 40 | 0 |
|                 | 30 |  | Yes | Yes |     |      |    |   |
|                 | 4  |  | Yes | Yes | Yes | Yes  |    |   |
| CA_4A-12A-30A   | 12 |  | Yes | Yes |     |      | 40 | 0 |
|                 | 30 |  | Yes | Yes |     |      |    | - |
|                 | 4  |  | Yes | Yes | Yes | Yes  |    |   |
| CA_4A-29A-30A   | 29 |  | Yes | Yes |     | . 55 | 40 | 0 |
| 0.1_1/(20/(00/( | 30 |  | Yes | Yes |     |      | 10 |   |

#### Note:

- 1) For the inter-band CA combinations, except B29 can't be PCC, all the listed bands above can be used as PCC or SCC.
- 2) The channel spacing and aggregated channel bandwidth for CA are identical to the associated specification in 3GPP TS 36.521-1 V14.3.0.
- 3) The reference test frequencies for CA refers to 3GPP TS 36.508 V14.2.0
- 4) Testing is not required in bands or modes not intended/allowed for US operation
- 5) Based on TCB workshop April 2018, only indicate "No" in CA combination table need power measurement

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#### 1.3.2 SAR test exclusion for LTE DL MIMO

SAR test exclusion for LTE DL MIMO was determined by UL power measurements with and without DL MIMO. SAR for DL MIMO was not needed since the maximum output power with DL MIMO active was not > 0.25dB higher than the maximum output power with DL MIMO inactive.

| DL MIMO maximum power verification |                           |                     |                                |            |             |                       |                                       |  |                  |  |  |  |
|------------------------------------|---------------------------|---------------------|--------------------------------|------------|-------------|-----------------------|---------------------------------------|--|------------------|--|--|--|
|                                    |                           |                     | Po                             |            |             |                       |                                       |  |                  |  |  |  |
| PCC Band                           | PCC<br>Bandwidth<br>[MHz] | PCC (UL)<br>Channel | PCC (UL)<br>Frequency<br>[MHz] | Modulation | PCC (UL) RB | PCC (UL) RB<br>Offset | LTE Tx.Power<br>with<br>DL MIMO (dBm) | LTE Tx.Power<br>without<br>DL MIMO (dBm) | Maximum<br>power |  |  |  |
| LTE B2                             | 20                        | 18700               | 1860                           | QPSK       | 1           | 0                     | 23.20                                 | 23.30                                    | Full power       |  |  |  |
| LTE B2                             | 20                        | 18900               | 1880                           | QPSK       | 100         | 0                     | 17.37                                 | 17.48                                    | Reduced power    |  |  |  |
| LTE B4                             | 20                        | 20300               | 1745                           | QPSK       | 1           | 99                    | 23.15                                 | 23.29                                    | Full power       |  |  |  |
| LTE B4                             | 20                        | 20300               | 1745                           | QPSK       | 100         | 0                     | 18.42                                 | 18.48                                    | Reduced powe     |  |  |  |
| LTE B5                             | 10                        | 20600               | 844                            | QPSK       | 1           | 0                     | 23.86                                 | 23.91                                    | Full power       |  |  |  |
| LTE B5                             | 10                        | 20600               | 844                            | 844 QPSK 1 |             | 0                     | 22.34                                 | 22.48                                    | Reduced power    |  |  |  |
| LTE B7                             | 20                        | 21100               | 2535                           | QPSK       | 1           | 0                     | 22.42                                 | 22.53                                    | Full power       |  |  |  |
| LTE B7                             | 20                        | 21100               | 2535                           | QPSK       | 1           | 0                     | 16.90                                 | 17.00                                    | Reduced power    |  |  |  |
| LTE B12                            | 10                        | 23095               | 707.5                          | QPSK       | 1           | 25                    | 22.5                                  | 22.69                                    | Full power       |  |  |  |
| LTE B12                            | 10                        | 23095               | 707.5                          | QPSK       | 1           | 25                    | 20.8                                  | 20.96                                    | Reduced power    |  |  |  |
| LTE B13                            | 10                        | 23230               | 782                            | QPSK       | 1           | 25                    | 22.74                                 | 22.85                                    | Full power       |  |  |  |
| LTE B13                            | 10                        | 23230               | 782                            | QPSK       | 1           | 25                    | 22.25 22.32                           |  | Reduced power    |  |  |  |
| LTE B17                            | 10                        | 23780               | 709                            | QPSK       | 1           | 0                     | 22.60                                 | 22.74                                    | Full power       |  |  |  |
| LTE B17                            | 10                        | 23780               | 709                            | QPSK       | 1           | 0                     | 20.85                                 | 20.99                                    | Reduced power    |  |  |  |
| LTE B26                            | 15                        | 26865               | 831.5                          | QPSK       | 1           | 0                     | 22.54                                 | 22.64                                    | Full power       |  |  |  |
| LTE B26                            | 15                        | 26865               | 831.5                          | QPSK       | 1           | 74                    | 22.30                                 | 22.46                                    | Reduced power    |  |  |  |
| LTE B30                            | 10                        | 27710               | 2310                           | QPSK       | 1           | 0                     | 22.12                                 | 22.29                                    | Full power       |  |  |  |
| LTE B30                            | 10                        | 27710               | 2310                           | QPSK       | 50          | 0                     | 18.77                                 | 19.00                                    | Reduced power    |  |  |  |
| LTE B38                            | 20                        | 38000               | 2595                           | QPSK       | 1           | 0                     | 22.54                                 | 22.78                                    | Full power       |  |  |  |
| LTE B41                            | 20                        | 40620               | 2593                           | QPSK       | 1           | 0                     | 22.57                                 | 22.65                                    | Full power       |  |  |  |
| LTE B66                            | 20                        | 132572              | 1770                           | QPSK       | 1           | 0                     | 23.11                                 | 23.24                                    | Full power       |  |  |  |
| LTE B66                            | 20                        | 132322              | 1745                           | QPSK       | 100         | 0                     | 18.29                                 | 18.46                                    | Reduced power    |  |  |  |

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When carrier aggregation is applicable, power measurements were performed with DL CA and DL MIMO active for the configuration with highest maximum output power with DL CA inactive. SAR for DL CA and DL MIMO active was not needed since the maximum output power with DL CA and DL MIMO active was not > 0.25dB higher than the maximum output power with DL CA and DL MIMO inactive.

| Two Component Carrier Maximum Conducted Power |                           |                     |                                |            |             |                       |                     |                                |          |                           |                     |                                |   |  |                |                  |
|---|---------------------------|---------------------|--------------------------------|------------|-------------|-----------------------|---------------------|--------------------------------|----------|---------------------------|---------------------|--------------------------------|---|--|----------------|------------------|
| PCC   |                           |                     |                                |            |             |                       |                     |                                | scc      |                           |                     |                                | Power   |  |                |                  |
| PCC Band                                      | PCC<br>Bandwidth<br>[MHz] | PCC (UL)<br>Channel | PCC (UL)<br>Frequency<br>[MHz] | Modulation | PCC (UL) RB | PCC (UL) RB<br>Offset | PCC (DL)<br>Channel | PCC (DL)<br>Frequency<br>[MHz] | SCC Band | SCC<br>Bandwidth<br>[MHz] | SCC (DL)<br>Channel | SCC (DL)<br>Frequency<br>[MHz] | LTE Tx.Power<br>with DL CA<br>and DL MIMO<br>active (dBm) | LTE Tx.Power<br>with DL CA<br>inactive (dBm) | Configurations | Maximum<br>power |
| LTE B2  | 20                        | 18700               | 1860                           | QPSK       | 1           | 0                     | 700                 | 1940                           | LTE B2   | 20                        | 1100                | 1980                           | 23.25   | 23.30  | CA_2A-2A       | Full power       |
| LTE B2  | 20                        | 18700               | 1860                           | QPSK       | 1           | 0                     | 700                 | 1940                           | LTE B2   | 20                        | 1100                | 1980                           | 17.32   | 17.37  | CA_2A-2A       | Reduced power    |
| LTE B2  | 20                        | 18700               | 1860                           | QPSK       | 1           | 0                     | 700                 | 1940                           | LTE B17  | 10                        | 5790                | 740                            | 23.18   | 23.30  | CA_2A-17A      | Full power       |
| LTE B2  | 20                        | 18900               | 1880                           | QPSK       | 100         | 0                     | 900                 | 1960                           | LTE B17  | 10                        | 5790                | 740                            | 17.36   | 17.48  | CA_2A-17A      | Reduced power    |
| LTE B17                                       | 10                        | 23780               | 709                            | QPSK       | 1           | 0                     | 5780                | 739                            | LTE B2   | 20                        | 900                 | 1960                           | 22.55   | 22.74  | CA_2A-17A      | Full power       |
| LTE B17                                       | 10                        | 23780               | 709                            | QPSK       | 1           | 0                     | 5780                | 739                            | LTE B2   | 20                        | 900                 | 1960                           | 28.78   | 20.99  | CA_2A-17A      | Reduced power    |
| LTE B4  | 20                        | 20300               | 1745                           | QPSK       | 1           | 99                    | 2300                | 2145                           | LTE B4   | 20                        | 2050                | 2120                           | 23.19   | 23.29  | CA_4A-4A       | Full power       |
| LTE B4  | 20                        | 20300               | 1745                           | QPSK       | 100         | 0                     | 2300                | 2145                           | LTE B4   | 20                        | 2050                | 2120                           | 18.43   | 18.48  | CA_4A-4A       | Reduced power    |
| LTE B4  | 20                        | 20300               | 1745                           | QPSK       | 1           | 99                    | 2300                | 2145                           | LTE B17  | 10                        | 5790                | 740                            | 23.19   | 23.29  | CA_4A-17A      | Full power       |
| LTE B4  | 20                        | 20300               | 1745                           | QPSK       | 100         | 0                     | 2300                | 2145                           | LTE B17  | 10                        | 5790                | 740                            | 18.41   | 18.48  | CA_4A-17A      | Reduced power    |
| LTE B17                                       | 10                        | 23780               | 709                            | QPSK       | 1           | 0                     | 5780                | 739                            | LTE B4   | 20                        | 2175                | 2132.5                         | 22.72   | 22.74  | CA_4A-17A      | Full power       |
| LTE B17                                       | 10                        | 23780               | 709                            | QPSK       | 1           | 0                     | 5780                | 739                            | LTE B4   | 20                        | 2175                | 2132.5                         | 20.88   | 20.99  | CA_4A-17A      | Reduced power    |
| LTE B5  | 10                        | 20600               | 844                            | QPSK       | 1           | 0                     | 2600                | 889                            | LTE B7   | 20                        | 21100               | 2535                           | 23.80   | 23.91  | CA_5A-7A       | Full power       |
| LTE B5  | 10                        | 20600               | 844                            | QPSK       | 1           | 0                     | 2600                | 889                            | LTE B7   | 20                        | 21100               | 2535                           | 22.43   | 22.48  | CA_5A-7A       | Reduced power    |
| LTE B7  | 20                        | 21100               | 2535                           | QPSK       | 1           | 0                     | 3100                | 2655                           | LTE B5   | 10                        | 2525                | 881.5                          | 22.42   | 22.53  | CA_5A-7A       | Full power       |
| LTE B7  | 20                        | 21100               | 2535                           | QPSK       | 1           | 0                     | 3100                | 2655                           | LTE B5   | 10                        | 2525                | 881.5                          | 16.78   | 17.00  | CA_5A-7A       | Reduced power    |
| LTE B7  | 15                        | 20825               | 2507.5                         | QPSK       | 1           | 74                    | 2825                | 2627.5                         | LTE B7   | 5                         | 2918                | 2636                           | 22.20   | 22.26  | CA_7B          | Full power       |
| LTE B7  | 15                        | 20825               | 2507.5                         | QPSK       | 36          | 37                    | 2825                | 2627.5                         | LTE B7   | 5                         | 2918                | 2636                           | 16.71   | 16.78  | CA_7B          | Reduced power    |
| LTE B7  | 20                        | 21350               | 2560                           | QPSK       | 1           | 50                    | 3350                | 2680                           | LTE B7   | 20                        | 3152                | 2660.2                         | 22.42   | 22.52  | CA_7C          | Full power       |
| LTE B7  | 20                        | 21350               | 2560                           | QPSK       | 1           | 50                    | 3350                | 2680                           | LTE B7   | 20                        | 3152                | 2660.2                         | 16.85   | 16.91  | CA_7C          | Reduced power    |
| LTE B7  | 20                        | 21350               | 2560                           | QPSK       | 1           | 50                    | 3350                | 2680                           | LTE B7   | 20                        | 2850                | 2630                           | 22.39   | 22.52  | CA_7A-7A       | Full power       |
| LTE B7  | 20                        | 21350               | 2560                           | QPSK       | 1           | 50                    | 3350                | 2680                           | LTE B7   | 20                        | 2850                | 2630                           | 16.78   | 16.91  | CA_7A-7A       | Reduced power    |
| LTE B41                                       | 20                        | 41490               | 2680                           | QPSK       | 1           | 0                     | 41490               | 2680                           | LTE B41  | 20                        | 41292               | 2660.2                         | 22.41   | 22.49  | CA_41C         | Full power       |
| LTE B41                                       | 20                        | 41490               | 2680                           | QPSK       | 1           | 0                     | 41490               | 2680                           | LTE B41  | 20                        | 39750               | 2506                           | 22.45   | 22.49  | CA_41A-41A     | Full power       |
| LTE B66                                       | 20                        | 1770                | 132572                         | QPSK       | 1           | 0                     | 67036               | 2170                           | LTE B66  | 20                        | 65536               | 2120                           | 23.23   | 23.24  | CA_66A-66A     | Full power       |
| LTE B66                                       | 20                        | 1770                | 132572                         | QPSK       | 1           | 0                     | 67036               | 2170                           | LTE B66  | 20                        | 65536               | 2120                           | 18.40   | 18.45  | CA_66A-66A     | Reduced power    |

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| Three Component Carrier Maximum Conducted Power |                           |                     |                                |              |                |                       |                     | e Compon                       | ent Carrie         | r Maximun                 | n Conducted         | Power                          |                    |                           |                     |                                |   |  |                                |                             |
|---|---------------------------|---------------------|--------------------------------|--------------|----------------|-----------------------|---------------------|--------------------------------|--------------------|---------------------------|---------------------|--------------------------------|--------------------|---------------------------|---------------------|--------------------------------|---|--|--------------------------------|-----------------------------|
|   | 1                         |                     |                                | PCC          |                | 1                     |                     |                                |                    |                           | C1                  | ı                              |                    |                           | CC 2                |                                | LTE Tx.Power                              | ower   |                                |                             |
| PCC Band  | PCC<br>Bandwidth<br>[MHz] | PCC (UL)<br>Channel | PCC (UL)<br>Frequency<br>[MHz] | Modulation   | PCC (UL)<br>RB | PCC (UL)<br>RB Offset | PCC (DL)<br>Channel | PCC (DL)<br>Frequency<br>[MHz] | SCC Band           | SCC<br>Bandwidth<br>[MHz] | SCC (DL)<br>Channel | SCC (DL)<br>Frequency<br>[MHz] | SCC Band           | SCC<br>Bandwidth<br>[MHz] | SCC (DL)<br>Channel | SCC (DL)<br>Frequency<br>[MHz] | with DL CA<br>and DL MIMO<br>active (dBm) | LTE Tx.Power<br>with DL CA<br>inactive (dBm) | Configurations                 | Meximum<br>power            |
| LTE B2  | 20                        | 18700               | 1860                           | QPSK<br>QPSK | 1              | 0                     | 700                 | 1940                           | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B5             | 10                        | 2525                | 881.5                          | 23.19                                     | 23.30  | CA_2A-4A-5A                    | Full power                  |
| LTE B2<br>LTE B4                                | 20                        | 18900<br>20300      | 1880<br>1745                   | QPSK         | 100            | 99                    | 900<br>2300         | 1960<br>2145                   | LTE B4<br>LTE B2   | 20<br>20                  | 2175<br>900         | 2132.5<br>1960                 | LTE B5             | 10<br>10                  | 2525<br>2525        | 881.5<br>881.5                 | 17.25<br>23.28                            | 17.48<br>23.29                               | CA_2A-4A-5A<br>CA_2A-4A-5A     | Reduced power<br>Full power |
| LTE B4  | 20                        | 20300               | 1745                           | QPSK         | 100            | 0                     | 2300                | 2145                           | LTE B2             | 20                        | 900                 | 1960                           | LTE B5             | 10                        | 2525                | 881.5                          | 18.41                                     | 18.48  | CA_2A-4A-5A                    | Reduced power               |
| LTE B5  | 10                        | 20600               | 844                            | QPSK         | 1              | 0                     | 2600                | 889                            | LTE B2             | 20                        | 900                 | 1960                           | LTE B4             | 20                        | 2175                | 2132.5                         | 23.92                                     | 23.91  | CA_2A-4A-5A                    | Full power                  |
| LTE B5  | 10<br>20                  | 20600<br>18700      | 844<br>1860                    | QPSK<br>QPSK | 1              | 0                     | 2600<br>700         | 889<br>1940                    | LTE B2<br>LTE B4   | 20<br>20                  | 900<br>2175         | 1960<br>2132.5                 | LTE B4<br>LTE B13  | 20<br>10                  | 2175<br>5230        | 2132.5<br>751                  | 22.41<br>23.27                            | 22.48  | CA_2A-4A-5A<br>CA_2A-4A-13A    | Reduced power<br>Full power |
| LTE B2  | 20                        | 18900               | 1880                           | QPSK         | 100            | 0                     | 900                 | 1960                           | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B13            | 10                        | 5230                | 751                            | 17.45                                     | 17.48  | CA_2A-4A-13A                   | Reduced power               |
| LTE B4  | 20                        | 20300               | 1745                           | QPSK         | 1              | 99                    | 2300                | 2145                           | LTE B2             | 20                        | 900                 | 1960                           | LTE B13            | 10                        | 5230                | 751                            | 23.27                                     | 23.29  | CA_2A-4A-13A                   | Full power                  |
| LTE B4<br>LTE B13                               | 20<br>10                  | 20300               | 1745<br>782                    | QPSK<br>QPSK | 100            | 0                     | 2300<br>5230        | 2145<br>751                    | LTE B2<br>LTE B2   | 20                        | 900                 | 1960<br>1960                   | LTE B13            | 10<br>20                  | 5230<br>2175        | 751<br>2132.5                  | 18.45<br>22.68                            | 18.48<br>22.85                               | CA_2A-4A-13A<br>CA_2A-4A-13A   | Reduced power<br>Full power |
| LTE B13   | 10                        | 23230               | 782                            | QPSK         | 1              | 25<br>25              | 5230                | 751                            | LTE B2             | 20                        | 900                 | 1960                           | LTE B4             | 20                        | 2175                | 2132.5                         | 22.30                                     | 22.32  | CA_2A-4A-13A                   | Reduced power               |
| LTE B5  | 10                        | 20600               | 844                            | QPSK         | 1              | 0                     | 2600                | 889                            | LTE B2             | 20                        | 700                 | 1940                           | LTE B2             | 20                        | 898                 | 1959.8                         | 23.90                                     | 23.91  | CA_2C-5A                       | Full power                  |
| LTE B5  | 10                        | 20600               | 844                            | QPSK         | 1              | 0                     | 2600                | 889                            | LTE B2             | 20                        | 700                 | 1940                           | LTE B2             | 20                        | 898                 | 1959.8                         | 22.33                                     | 22.48  | CA_2C-5A                       | Reduced power               |
| LTE B2<br>LTE B2                                | 20                        | 18700<br>18700      | 1860<br>1860                   | QPSK<br>QPSK | 1              | 0                     | 700<br>700          | 1940<br>1940                   | LTE B2<br>LTE B2   | 20<br>20                  | 898<br>898          | 1959.8<br>1959.8               | LTE B5             | 10                        | 2525<br>2525        | 881.5<br>881.5                 | 23.25<br>17.34                            | 23.30<br>17.37                               | CA_2C-5A<br>CA_2C-5A           | Full power<br>Reduced power |
| LTE B2  | 20                        | 18700               | 1860                           | QPSK         | 1              | 0                     | 700                 | 1940                           | LTE B5             | 10                        | 2525                | 881.5                          | LTE B30            | 10                        | 9820                | 2355                           | 23.18                                     | 23.30  | CA_2A-5A-30A                   | Full power                  |
| LTE B2  | 20                        | 18900               | 1880                           | QPSK         | 100            | 0                     | 900                 | 1960                           | LTE B5             | 10                        | 2525                | 881.5                          | LTE B30            | 10                        | 9820                | 2355                           | 17.44                                     | 17.48  | CA_2A-5A-30A                   | Reduced power               |
| LTE B5  | 10                        | 20600<br>20600      | 844<br>844                     | QPSK<br>QPSK | 1              | 0                     | 2600<br>2600        | 889<br>889                     | LTE B2<br>LTE B2   | 20                        | 900                 | 1960<br>1960                   | LTE B30<br>LTE B30 | 10                        | 9820<br>9820        | 2355<br>2355                   | 23.79                                     | 23.91  | CA_2A-5A-30A<br>CA_2A-5A-30A   | Full power<br>Reduced power |
| LTE B30   | 10                        | 27710               | 2310                           | QPSK         | 1              | 0                     | 9820                | 2355                           | LTE B2             | 20                        | 900                 | 1960                           | LTE B5             | 10                        | 2525                | 881.5                          | 22.39                                     | 22.40  | CA_2A-5A-30A<br>CA_2A-5A-30A   | Full power                  |
| LTE B30   | 10                        | 27710               | 2310                           | QPSK         | 50             | 0                     | 9820                | 2355                           | LTE B2             | 20                        | 900                 | 1960                           | LTE B5             | 10                        | 2525                | 881.5                          | 18.88                                     | 19.00  | CA_2A-5A-30A                   | Reduced power               |
| LTE B2  | 20                        | 18700               | 1860                           | QPSK         | 1              | 0                     | 700                 | 1940                           | LTE B5             | 10                        | 2525                | 881.5                          | LTE B66            | 20                        | 66786               | 2145                           | 23.23                                     | 23.30  | CA_2A-5A-66A                   | Full power                  |
| LTE B2<br>LTE B5                                | 20<br>10                  | 18900<br>20600      | 1880<br>844                    | QPSK<br>QPSK | 100            | 0                     | 900<br>2600         | 1960<br>889                    | LTE B5<br>LTE B2   | 10<br>20                  | 2525<br>900         | 881.5<br>1960                  | LTE B66            | 20<br>20                  | 66786<br>66786      | 2145<br>2145                   | 17.45<br>23.85                            | 17.48<br>23.91                               | CA_2A-5A-66A<br>CA_2A-5A-66A   | Reduced power<br>Full power |
| LTE B5  | 10                        | 20600               | 844                            | QPSK         | 1              | 0                     | 2600                | 889                            | LTE B2             | 20                        | 900                 | 1960                           | LTE B66            | 20                        | 66786               | 2145                           | 22.35                                     | 22.48  | CA_2A-5A-66A                   | Reduced power               |
| LTE B66   | 20                        | 132572              | 1770                           | QPSK         | 1              | 0                     | 67036               | 2170                           | LTE B2             | 20                        | 900                 | 1960                           | LTE B5             | 10                        | 2525                | 881.5                          | 23.21                                     | 23.24  | CA_2A-5A-66A                   | Full power                  |
| LTE B66<br>LTE B2                               | 20                        | 132322<br>18700     | 1745<br>1860                   | QPSK<br>QPSK | 100            | 0                     | 66786<br>700        | 2145<br>1940                   | LTE B2<br>LTE B12  | 20<br>10                  | 900<br>5095         | 1960<br>737.5                  | LTE B5             | 10                        | 2525<br>9820        | 881.5<br>2355                  | 18.40<br>23.15                            | 18.46<br>23.30                               | CA_2A-5A-66A<br>CA_2A-12A-30A  | Reduced power<br>Full power |
| LTE B2  | 20                        | 18900               | 1880                           | QPSK         | 100            | 0                     | 900                 | 1960                           | LTE B12            | 10                        | 5095                | 737.5                          | LTE B30            | 10                        | 9820                | 2355                           | 17.40                                     | 17.48  | CA_2A-12A-30A                  | Reduced power               |
| LTE B12   | 10                        | 23095               | 707.5                          | QPSK         | 1              | 25                    | 5095                | 737.5                          | LTE B2             | 20                        | 900                 | 1960                           | LTE B30            | 10                        | 9820                | 2355                           | 22.59                                     | 22.69  | CA_2A-12A-30A                  | Full power                  |
| LTE B12   | 10                        | 23095               | 707.5                          | QPSK         | 1              | 49                    | 5095                | 737.5                          | LTE B2             | 20                        | 900                 | 1960                           | LTE B30            | 10                        | 9820                | 2355                           | 20.92                                     | 20.96  | CA_2A-12A-30A                  | Reduced power               |
| LTE B30<br>LTE B30                              | 10                        | 27710<br>27710      | 2310<br>2310                   | QPSK<br>QPSK | 50             | 0                     | 9820<br>9820        | 2355<br>2355                   | LTE B12<br>LTE B12 | 10                        | 5095<br>5095        | 737.5<br>737.5                 | LTE B2<br>LTE B2   | 20<br>20                  | 900                 | 1960<br>1960                   | 22.17<br>18.77                            | 22.29<br>19.00                               | CA_2A-12A-30A<br>CA_2A-12A-30A | Full power<br>Reduced power |
| LTE B2  | 20                        | 18700               | 1860                           | QPSK         | 1              | 0                     | 700                 | 1940                           | LTE B13            | 10                        | 5230                | 751                            | LTE B66            | 20                        | 66786               | 2145                           | 23.14                                     | 23.30  | CA_2A-13A-66A                  | Full power                  |
| LTE B2  | 20                        | 18900               | 1880                           | QPSK         | 100            | 0                     | 900                 | 1960                           | LTE B13            | 10                        | 5230                | 751                            | LTE B66            | 20                        | 66786               | 2145                           | 17.41                                     | 17.48  | CA_2A-13A-66A                  | Reduced power               |
| LTE B13   | 10<br>10                  | 23230<br>23230      | 782<br>782                     | QPSK<br>QPSK | 1              | 25<br>25              | 5230<br>5230        | 751<br>751                     | LTE B2<br>LTE B2   | 20<br>20                  | 900                 | 1960<br>1960                   | LTE B66<br>LTE B66 | 20<br>20                  | 66786<br>66786      | 2145<br>2145                   | 22.70<br>22.21                            | 22.85  | CA_2A-13A-66A<br>CA_2A-13A-66A | Full power<br>Reduced power |
| LTE B66   | 20                        | 132572              | 1770                           | QPSK         | 1              | 0                     | 67036               | 2170                           | LTE B2             | 20                        | 900                 | 1960                           | LTE B13            | 10                        | 5230                | 751                            | 23.12                                     | 23.24  | CA_2A-13A-66A                  | Full power                  |
| LTE B66   | 20                        | 132322              | 1745                           | QPSK         | 100            | 0                     | 66786               | 2145                           | LTE B2             | 20                        | 900                 | 1960                           | LTE B13            | 10                        | 5230                | 751                            | 18.23                                     | 18.46  | CA_2A-13A-66A                  | Reduced power               |
| LTE B2  | 20<br>20                  | 18700<br>18900      | 1860<br>1880                   | QPSK<br>QPSK | 100            | 0                     | 700<br>900          | 1940<br>1960                   | LTE B29<br>LTE B29 | 10                        | 9715<br>9715        | 722.5<br>722.5                 | LTE B30<br>LTE B30 | 10<br>10                  | 9820<br>9820        | 2355<br>2355                   | 23.21<br>17.40                            | 23.30<br>17.48                               | CA_2A-29A-30A<br>CA_2A-29A-30A | Full power<br>Reduced power |
| LTE B30   | 10                        | 27710               | 2310                           | QPSK         | 1              | 0                     | 9820                | 2355                           | LTE B2             | 20                        | 900                 | 1960                           | LTE B29            | 10                        | 9715                | 722.5                          | 22.18                                     | 22.29  | CA_2A-29A-30A                  | Full power                  |
| LTE B30   | 10                        | 27710               | 2310                           | QPSK         | 50             | 0                     | 9820                | 2355                           | LTE B2             | 20                        | 900                 | 1960                           | LTE B29            | 10                        | 9715                | 722.5                          | 18.82                                     | 19.00  | CA_2A-29A-30A                  | Reduced power               |
| LTE B2  | 20                        | 18700               | 1860                           | QPSK         | 1              | 0                     | 700                 | 1940                           | LTE B66            | 20                        | 66536               | 2120                           | LTE B66            | 20                        | 66734               | 2139.8                         | 23.24                                     | 23.30  | CA_2A-66B                      | Full power                  |
| LTE B2  | 20                        | 18900<br>132622     | 1880<br>1775                   | QPSK<br>QPSK | 100            | 0<br>49               | 900<br>67086        | 1960<br>2175                   | LTE B66            | 20                        | 66536<br>66987      | 2120<br>2165.1                 | LTE B66<br>LTE B2  | 20<br>20                  | 66734<br>900        | 2139.8<br>1960                 | 17.39<br>22.92                            | 17.48<br>23.06                               | CA_2A-66B<br>CA_2A-66B         | Reduced power<br>Full power |
| LTE B66   | 20                        | 132622              | 1775                           | QPSK         | 1              | 49                    | 67086               | 2175                           | LTE B66            | 20                        | 66987               | 2165.1                         | LTE B2             | 20                        | 900                 | 1960                           | 17.60                                     | 17.88  | CA_2A-66B                      | Reduced power               |
| LTE B2  | 20                        | 18700               | 1860                           | QPSK         | 1              | 0                     | 700                 | 1940                           | LTE B66            | 20                        | 66536               | 2120                           | LTE B66            | 20                        | 66734               | 2139.8                         | 23.20                                     | 23.30  | CA_2A-66C                      | Full power                  |
| LTE B2<br>LTE B66                               | 20<br>20                  | 18900<br>132572     | 1880<br>1770                   | QPSK<br>QPSK | 100            | 0                     | 900<br>67036        | 1960<br>2170                   | LTE B66<br>LTE B66 | 20                        | 66536<br>66734      | 2120<br>2139.8                 | LTE B66<br>LTE B2  | 20<br>20                  | 66734<br>900        | 2139.8<br>1960                 | 17.40<br>23.06                            | 17.48<br>23.24                               | CA_2A-66C<br>CA_2A-66C         | Reduced power<br>Full power |
| LTE B66   | 20                        | 132572              | 1770                           | QPSK         | 1              | 0                     | 66838               | 2150.2                         | LTE B66            | 20                        | 66734               | 2139.8                         | LTE B2             | 20                        | 900                 | 1960                           | 18.35                                     | 18.45  | CA_2A-66C                      | Reduced power               |
| LTE B4  | 20                        | 20300               | 1745                           | QPSK         | 1              | 99                    | 2300                | 2145                           | LTE B5             | 10                        | 2525                | 881.5                          | LTE B30            | 10                        | 9820                | 2355                           | 23.19                                     | 23.29  | CA_4A-5A-30A                   | Full power                  |
| LTE B4<br>LTE B5                                | 20<br>10                  | 20300               | 1745<br>844                    | QPSK<br>QPSK | 100            | 0                     | 2300<br>2600        | 2145<br>889                    | LTE B5<br>LTE B4   | 10<br>20                  | 2525<br>2175        | 881.5<br>2132.5                | LTE B30<br>LTE B30 | 10<br>10                  | 9820<br>9820        | 2355<br>2355                   | 18.30<br>23.83                            | 18.48<br>23.91                               | CA_4A-5A-30A<br>CA_4A-5A-30A   | Reduced power<br>Full power |
| LTE B5  | 10                        | 20600               | 844                            | QPSK         | 1              | 0                     | 2600                | 889                            | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B30            | 10                        | 9820                | 2355                           | 23.83                                     | 23.91  | CA_4A-5A-30A<br>CA_4A-5A-30A   | Reduced power               |
| LTE B30   | 10                        | 27710               | 2310                           | QPSK         | 1              | 0                     | 9820                | 2355                           | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B5             | 10                        | 2525                | 881.5                          | 22.21                                     | 22.29  | CA_4A-5A-30A                   | Full power                  |
| LTE B30   | 10                        | 27710               | 2310                           | QPSK         | 50             | 0                     | 9820                | 2355                           | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B5             | 10                        | 2525                | 881.5                          | 18.89                                     | 19.00  | CA_4A-5A-30A                   | Reduced power               |
| LTE B4  | 20<br>20                  | 20300               | 1745<br>1745                   | QPSK<br>QPSK | 100            | 99                    | 2300<br>2300        | 2145<br>2145                   | LTE B12<br>LTE B12 | 10<br>10                  | 5095<br>5095        | 737.5<br>737.5                 | LTE B30<br>LTE B30 | 10<br>10                  | 9820<br>9820        | 2355<br>2355                   | 23.19<br>18.22                            | 23.29<br>18.48                               | CA_4A-12A-30A<br>CA_4A-12A-30A | Full power<br>Reduced power |
| LTE B12   | 10                        | 23095               | 707.5                          | QPSK         | 1              | 25                    | 5095                | 737.5                          | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B30            | 10                        | 9820                | 2355                           | 22.49                                     | 22.69  | CA_4A-12A-30A                  | Full power                  |
| LTE B12   | 10                        | 23095               | 707.5                          | QPSK         | 1              | 49                    | 5095                | 737.5                          | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B30            | 10                        | 9820                | 2355                           | 20.78                                     | 20.96  | CA_4A-12A-30A                  | Reduced power               |
| LTE B30<br>LTE B30                              | 10<br>10                  | 27710<br>27710      | 2310<br>2310                   | QPSK<br>QPSK | 1<br>50        | 0                     | 9820<br>9820        | 2355<br>2355                   | LTE B4<br>LTE B4   | 20<br>20                  | 2175<br>2175        | 2132.5<br>2132.5               | LTE B12<br>LTE B12 | 10                        | 5095<br>5095        | 737.5<br>737.5                 | 22.19<br>18.70                            | 22.29<br>19.00                               | CA_4A-12A-30A<br>CA_4A-12A-30A | Full power<br>Reduced power |
| LTE B30   | 20                        | 20300               | 1745                           | QPSK         | 1              | 99                    | 2300                | 2355                           | LTE B29            | 10                        | 9715                | 722.5                          | LTE B30            | 10                        | 9820                | 2355                           | 23.10                                     | 19.00  | CA_4A-12A-30A<br>CA_4A-29A-30A | Full power                  |
| LTE B4  | 20                        | 20300               | 1745                           | QPSK         | 100            | 0                     | 2300                | 2145                           | LTE B29            | 10                        | 9715                | 722.5                          | LTE B30            | 10                        | 9820                | 2355                           | 18.40                                     | 18.48  | CA_4A-29A-30A                  | Reduced power               |
| LTE B30   | 10                        | 27710               | 2310                           | QPSK         | 1              | 0                     | 9820                | 2355                           | LTE B4             | 20                        | 2175                | 2132.5                         | LTE B29            | 10                        | 9715                | 722.5                          | 22.10                                     | 22.29  | CA_4A-29A-30A                  | Full power                  |
| LTE B30<br>LTE B5                               | 10<br>10                  | 27710<br>20600      | 2310<br>844                    | QPSK<br>QPSK | 50             | 0                     | 9820<br>2600        | 2355<br>889                    | LTE B4<br>LTE B66  | 20<br>20                  | 2175<br>66536       | 2132.5<br>2120                 | LTE B29<br>LTE B66 | 10<br>20                  | 9715<br>67036       | 722.5<br>2170                  | 18.60<br>23.74                            | 19.00  | CA_4A-29A-30A<br>CA_5A-66B     | Reduced power<br>Full power |
| LTE B5  | 10                        | 20600               | 844                            | QPSK         | 1              | 0                     | 2600                | 889                            | LTE B66            | 20                        | 66536               | 2120                           | LTE B66            | 20                        | 67036               | 2170                           | 22.40                                     | 22.48  | CA_5A-66B                      | Reduced power               |
| LTE B66   | 20                        | 132622              | 1775                           | QPSK         | 1              | 49                    | 67086               | 2175                           | LTE B66            | 20                        | 66987               | 2165.1                         | LTE B5             | 10                        | 2525                | 881.5                          | 22.80                                     | 23.06  | CA_5A-66B                      | Full power                  |
| LTE B66<br>LTE B5                               | 20                        | 132622<br>20600     | 1775<br>844                    | QPSK<br>QPSK | 1              | 49                    | 67086<br>2600       | 2175<br>889                    | LTE B66            | 20<br>20                  | 66987<br>66536      | 2165.1<br>2120                 | LTE B5<br>LTE B66  | 10                        | 2525<br>67036       | 881.5<br>2170                  | 17.70<br>23.80                            | 17.88<br>23.91                               | CA_5A-66B                      | Reduced power               |
| LTE B5  | 10<br>10                  | 20600               | 844<br>844                     | QPSK         | 1              | 0                     | 2600<br>2600        | 889<br>889                     | LTE B66            | 20                        | 66536<br>66536      | 2120<br>2120                   | LTE B66            | 20<br>20                  | 67036<br>67036      | 2170<br>2170                   | 23.80                                     | 23.91  | CA_5A-66C<br>CA_5A-66C         | Full power<br>Reduced power |
| LTE B66   | 20                        | 132572              | 1770                           | QPSK         | 1              | 0                     | 67036               | 2170                           | LTE B66            | 20                        | 66734               | 2139.8                         | LTE B5             | 10                        | 2525                | 881.5                          | 23.10                                     | 23.24  | CA_5A-66C                      | Full power                  |
| LTE B66   | 20                        | 132572              | 1770                           | QPSK         | 1              | 0                     | 66838               | 2150.2                         | LTE B66            | 20                        | 66734               | 2139.8                         | LTE B5             | 10                        | 2525                | 881.5                          | 18.30                                     | 18.45  | CA_5A-66C                      | Reduced power               |
| LTE B66<br>LTE B66                              | 20                        | 132072<br>132072    | 1720<br>1720                   | QPSK<br>QPSK | 1              | 50                    | 66536<br>66536      | 2120<br>2120                   | LTE B66<br>LTE B66 | 20                        | 66734<br>66734      | 2139.8<br>2139.8               | LTE B66<br>LTE B66 | 20<br>20                  | 66932<br>66932      | 2159.6<br>2159.6               | 22.80<br>18.15                            | 22.95<br>18.29                               | CA_66D<br>CA_66D               | Full power<br>Reduced power |
| LTE B13   | 10                        | 23230               | 782                            | QPSK         | 1              | 25                    | 5230                | 751                            | LTE B66            | 20                        | 66536               | 2139.6                         | LTE B66            | 20                        | 67036               | 2170                           | 22.65                                     | 22.85  | CA_66B<br>CA_13A-66B           | Full power                  |
| LTE B13   | 10                        | 23230               | 782                            | QPSK         | 1              | 25                    | 5230                | 751                            | LTE B66            | 20                        | 66536               | 2120                           | LTE B66            | 20                        | 67036               | 2170                           | 22.20                                     | 22.32  | CA_13A-66B                     | Reduced power               |
| LTE B66   | 20                        | 132622              | 1775                           | QPSK         | 1              | 49                    | 67086               | 2175                           | LTE B66            | 20                        | 66987               | 2165.1                         | LTE B13            | 10                        | 5230                | 751                            | 22.80                                     | 23.06  | CA_13A-66B                     | Full power                  |
| LTE B66<br>LTE B13                              | 20<br>10                  | 132622<br>23230     | 1775<br>782                    | QPSK<br>QPSK | 1              | 49<br>25              | 67086<br>5230       | 2175<br>751                    | LTE B66<br>LTE B66 | 20                        | 66987<br>66536      | 2165.1<br>2120                 | LTE B13<br>LTE B66 | 10<br>20                  | 5230<br>67036       | 751<br>2170                    | 17.70<br>22.60                            | 17.88<br>22.85                               | CA_13A-66B<br>CA_13A-66C       | Reduced power<br>Full power |
| LTE B13   | 10                        | 23230               | 782                            | QPSK         | 1              | 25                    | 5230                | 751                            | LTE B66            | 20                        | 66536               | 2120                           | LTE B66            | 20                        | 67036               | 2170                           | 22.20                                     | 22.32  | CA_13A-66C                     | Reduced power               |
| LTE B66   | 20                        | 132572              | 1770                           | QPSK         | 1              | 0                     | 67036               | 2170                           | LTE B66            | 20                        | 66734               | 2139.8                         | LTE B13            | 10                        | 5230                | 751                            | 23.10                                     | 23.24  | CA_13A-66C                     | Full power                  |
| LTE B66   | 20                        | 132572              | 1770                           | QPSK         | 1              | 0                     | 66838               | 2150.2                         | LTE B66            | 20                        | 66734               | 2139.8                         | LTE B13            | 10                        | 5230                | 751                            | 18.28                                     | 18.45  | CA_13A-66C                     | Reduced power               |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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### 1.4 Test Environment

Ambient Temperature: 22±2° C Tissue Simulating Liquid: 22±2° C

## 1.5 Operation Description

For WWAN, the EUT is controlled by using a Radio Communication Tester, and the communication between the EUT and the tester is established by air link.

For WLAN, using chipset specific software to control the EUT, and makes it transmit in maximum power. The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.

EUT was tested as below based on KDB inquiry.

#### WWAN / WLAN

### **Tablet mode**

Back/top/bottom/right/left sides\_0mm with reduced power

## Laptop mode

SAR measurement for Laptop SAR with full power is not required since the distance between antenna and user is > 20cm

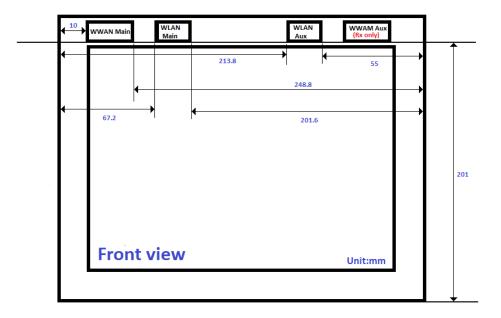
SAR measurement for stand/tent mode is not required since the device will be operated away from user in these modes based on KDB inquiry.

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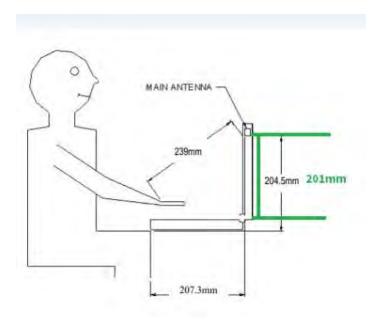
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# **Antenna location (Tablet mode)**



Antenna location of EUT (laptop mode)

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#### Note:

- 1. During the SAR testing, the DASY 5 system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- 2. The 3G SAR test reduction procedure is applied to HSDPA with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSDPA) is ≤ ¼ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSDPA). The following 4 sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

| Sub-test | βε                   | βα                   | βα<br>(SF) | βο/βα                | β <sub>HS</sub> <sup>(1)(2)</sup> | CM <sup>(3)</sup><br>(dB) | MPR (3)<br>(dB) |
|----------|----------------------|----------------------|------------|----------------------|-----------------------------------|---------------------------|-----------------|
| 1        | 2/15                 | 15/15                | 64         | 2/15                 | 4/15                              | 0.0                       | 0.0             |
| 2        | 12/15 <sup>(4)</sup> | 15/15 <sup>(4)</sup> | 64         | 12/15 <sup>(4)</sup> | 24/15                             | 1.0                       | 0.0             |
| 3        | 15/15                | 8/15                 | 64         | 15/8                 | 30/15                             | 1.5                       | 0.5             |
| 4        | 15/15                | 4/15                 | 64         | 15/4                 | 30/15                             | 1.5                       | 0.5             |

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{HS} = 30/15 * \beta_{C}$ 

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ<sub>ACK</sub> and Δ<sub>NACK</sub> = 30/15 with β<sub>HS</sub> = 30/15 \* β<sub>c</sub>, and Δ<sub>CGI</sub> = 24/15 with  $\beta_{HS} = 24/15 * \beta_c$ .

Note 3: CM = 1 for  $\beta_0/\beta_0 = 12/15$ ,  $\beta_{HS}/\beta_0 = 24/15$ . For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases

4: For subtest 2 the β<sub>2</sub>/β<sub>d</sub> ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c$  = 11/15 and  $\beta_d$  = 15/15.

3. The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA) is  $\leq 1/4$  dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA). The following 5 sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

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| Sub-test | βο        | βd        | β <sub>d</sub><br>(SF) | βc/βd     | β <sub>HS</sub> (1) | βες     | β <sub>ed</sub> (4)(5)     | β <sub>ed</sub><br>(SF) | β <sub>ed</sub><br>(Codes) | CM (2)<br>(dB) | MPR (2)(6)<br>(dB) | AG (5)<br>Index | E-TFCI |
|----------|-----------|-----------|------------------------|-----------|---------------------|---------|----------------------------|-------------------------|----------------------------|----------------|--------------------|-----------------|--------|
| 1        | 11/15 (3) | 15/15 (3) | 64                     | 11/15 (3) | 22/15               | 209/225 | 1309/225                   | 4                       | 1                          | 1.0            | 0.0                | 20              | 75     |
| 2        | 6/15      | 15/15     | 64                     | 6/15      | 12/15               | 12/15   | 94/75                      | 4                       | 1                          | 3.0            | 2.0                | 12              | 67     |
| 3        | 15/15     | 9/15      | 64                     | 15/9      | 30/15               | 30/15   | βed1: 47/15<br>βed2: 47/15 | 4<br>4                  | 2                          | 2.0            | 1.0                | 15              | 92     |
| 4        | 2/15      | 15/15     | 64                     | 2/15      | 4/15                | 2/15    | 56/75                      | 4                       | 1                          | 3.0            | 2.0                | 17              | 71     |
| 5        | 15/15     | 0         | -                      | -         | 5/15                | 5/15    | 47/15                      | 4                       | 1                          | 1.0            | 0.0                | 12              | 67     |

The 3G SAR test reduction procedure is applied to HSPA+ with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA+) is ≤ ¼ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA+). The following 1 sub-test was completed according to Release 7 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

| Sub-<br>test                                   | β <sub>c</sub><br>(Note3) | βa   | β <sub>HS</sub><br>(Note1)                           | βec  | β <sub>ed</sub><br>(2xSF2)<br>(Note 4)  | β <sub>ed</sub><br>(2xSF4)<br>(Note 4)   | CM<br>(dB)<br>(Note 2) | MPR<br>(dB)<br>(Note 2) | AG<br>Index<br>(Note 4) | E-TFCI<br>(Note 5) | (boost) |
|--|---------------------------|--|--|--|---|--|------------------------|-------------------------|-------------------------|--------------------|---------|
| 1  | 1                         | 0  | 30/15  | 30/15  | β <sub>ed</sub> 1: 30/15<br>β <sub>ed</sub> 2: 30/15  | β <sub>ed</sub> 3: 24/15<br>β <sub>ed</sub> 4: 24/15                               | 3.5                    | 2.5                     | 14                      | 105                | 105     |
| Note 1<br>Note 2<br>Note 3<br>Note 4<br>Note 5 | CM = DPD : βed C : All th | = 3.5 a<br>CH is<br>an no<br>ie sub<br>CH ca | and the Mi<br>not config<br>t be set di<br>tests req | PR is bas<br>jured, the<br>rectly; it is<br>uire the U | with $\beta_{hz} = 30/15$<br>ed on the relative<br>refore the $\beta_c$ is seen by Absolute<br>E to transmit 2S<br>TI is set to 2ms | e CM difference<br>set to 1 and β <sub>d</sub> =<br>e Grant Value.<br>F2+2SF4 16QA | 0 by defa              | ult.<br>and they a      | apply for t             |                    |         |

5. The 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable. Since the maximum output power in a secondary mode (DC-HSDPA) is ≤ ¼ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (DC-HSDPA). The following tests were

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Note 1: For sub-test 1 to 4, Δαρχ, Δμάρχ and Δροι = 30/15 with β<sub>HS</sub> = 30/15 \* β<sub>e</sub>. For sub-test 5, Δαρχ, Δμάρχ and Δροι = 5/15 with β<sub>HS</sub> = 5/15 \* β<sub>e</sub>.

Note 2: CM = 1 for β<sub>θ</sub>β<sub>d</sub> = 12/15, β<sub>HS</sub>β<sub>e</sub> = 24/15. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM.

Note 3: For subtest 1 the βJ/βd ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_e = 10/15$  and  $\beta_d = 15/15$ .

lote 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: (i) acron to be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.



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completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these setting are illustrated below:

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122

Table C.8.1.12: Fixed Reference Channel H-Set 12

|   | Parameter                            | Unit        | Value  |  |  |  |  |
|---|--------------------------------------|-------------|--------|--|--|--|--|
| Nominal .   | Avg. Inf. Bit Rate                   | kbps        | 60     |  |  |  |  |
| Inter-TTI   | Distance                             | TTI's       | 1      |  |  |  |  |
| Number (  | of HARQ Processes                    | Proces      | 6      |  |  |  |  |
|   |                                      | ses         | O      |  |  |  |  |
| Informati   | on Bit Payload ( $N_{ m \it INF}$ )  | Bits        | 120    |  |  |  |  |
| Number  | Code Blocks                          | Blocks      | 1      |  |  |  |  |
| Binary Cl   | hannel Bits Per TTI                  | Bits        | 960    |  |  |  |  |
| Total Ava   | nilable SML's in UE                  | SML's       | 19200  |  |  |  |  |
| Number (  | of SML's per HARQ Proc.              | SML's       | 3200   |  |  |  |  |
| Coding R  | Rate                                 |             | 0.15   |  |  |  |  |
| Number (  | of Physical Channel Codes            | Codes       | 1      |  |  |  |  |
| Modulatio   | on                                   |             | QPSK   |  |  |  |  |
| Note 1:   | The RMC is intended to be used for   | or DC-HSD   | PA     |  |  |  |  |
|   | mode and both cells shall transmit   | with identi | cal    |  |  |  |  |
|   | parameters as listed in the table.   |             |        |  |  |  |  |
| Note 2: Maximum number of transmission is limited to 1, i.e., |                                      |             |        |  |  |  |  |
|   | retransmission is not allowed. The   | e redundan  | cy and |  |  |  |  |
|   | constellation version 0 shall be use | ed.         |        |  |  |  |  |

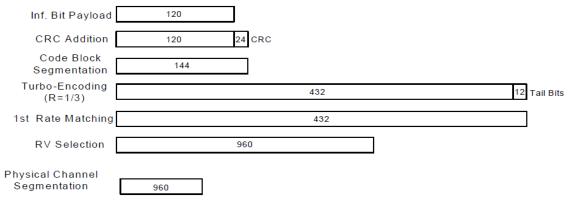


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 sub-tests for HSDPA were completed according to Release 8 procedures in section 5.2 of 3GPP TS34.121. A summary of subtest settings are illustrated below:

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| Sub-test | βε                   | βα                   | βd<br>(SF) | βο/βα                | β <sub>HS</sub> <sup>(1)(2)</sup> | CM <sup>(3)</sup><br>(dB) | MPR <sup>(3)</sup><br>(dB) |
|----------|----------------------|----------------------|------------|----------------------|-----------------------------------|---------------------------|----------------------------|
| 1        | 2/15                 | 15/15                | 64         | 2/15                 | 4/15                              | 0.0                       | 0.0                        |
| 2        | 12/15 <sup>(4)</sup> | 15/15 <sup>(4)</sup> | 64         | 12/15 <sup>(4)</sup> | 24/15                             | 1.0                       | 0.0                        |
| 3        | 15/15                | 8/15                 | 64         | 15/8                 | 30/15                             | 1.5                       | 0.5                        |
| 4        | 15/15                | 4/15                 | 64         | 15/4                 | 30/15                             | 1.5                       | 0.5                        |

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{HS} = 30/15 * \beta_{C}$ 

- LTE modes test according to KDB 941225D05v02r05.
  - a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.
  - Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
  - When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.
  - When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.
  - b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation
  - The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
  - c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation
  - For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are  $\leq$  0.8 W/kg.
  - Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be

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Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA,  $\Delta_{ACK}$  and  $\Delta_{NACK} = 30/15$  with  $\beta_{HS} = 30/15$  \*  $\beta_c$ , and  $\Delta_{CGI} = 30/15$  via the  $\beta_{HS} = 30/15$  via the 24/15 with  $\beta_{HS} = 24/15 * \beta_c$ .

Note 3: CM = 1 for β<sub>0</sub>β<sub>0</sub> = 12/15, β<sub>H5</sub>/β<sub>0</sub> = 24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases

Note 4: For subtest 2 the β<sub>0</sub>/β<sub>d</sub> ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c$  = 11/15 and  $\beta_d$  = 15/15



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#### tested.

- d. Per Section 5.2.4, Higher order modulations
- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is  $> \frac{1}{2}$  dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.
- e. Per Section 5.3, other channel bandwidth standalone SAR test requirements
- For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > 1/2 dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.
- TDD LTE was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 7. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.

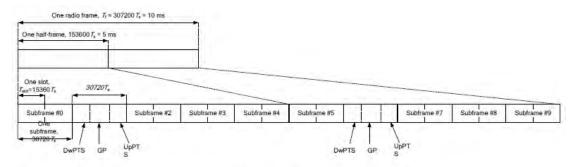
According to KDB 941225 D05, SAR testing for TDD LTE must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP TDD LTE configurations. The TDD-LTE of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be tabulated as below.

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3GPP TS 36.211 Figure 4.2-1: Frame Structure Type 2

|                  | No         | rmal Cyclic Prefix in | Downlink         | Exter      | nded Cyclic Prefix in | Downlink         |  |
|------------------|------------|-----------------------|------------------|------------|-----------------------|------------------|--|
| Special Subframe |            | Upl                   | PTS              |            | Upl                   | PTS              |  |
| Configuration    | DwPTS      | Normal Cyclic         | Extended Cyclic  | DwPTS      | Normal Cyclic         | Extended Cyclic  |  |
|                  |            | Prefix in Uplink      | Prefix in Uplink |            | Prefix in Uplink      | Prefix in Uplink |  |
| 0                | 6592 • Ts  |                       |                  | 7680 • Ts  |                       |                  |  |
| 1                | 19760 • Ts |                       | 2560 • Ts        | 20480 • Ts | 2192 • Ts             | 2560 • Ts        |  |
| 2                | 21952 • Ts | 2192 • Ts             |                  | 23040 • Ts |                       |                  |  |
| 3                | 24144 • Ts |                       |                  | 25600 • Ts |                       |                  |  |
| 4                | 26336 • Ts |                       |                  | 7680 • Ts  |                       |                  |  |
| 5                | 6592 • Ts  |                       |                  | 20480 • Ts | 4384 ∙ Ts             | 5120 ⋅ Ts        |  |
| 6                | 19760 • Ts |                       |                  | 23040 • Ts | 4384 • 15             | 5120 • 18        |  |
| 7                | 21952 · Ts | 4384 • Ts             | 5120 • Ts        | 12800 • Ts |                       |                  |  |
| 8                | 24144 • Ts |                       |                  | -          | -                     | -                |  |
| 9                | 13168 • Ts |                       |                  | -          | -                     | -                |  |

3GPP TS 36.211 Table 4.2-1: Configuration of Special Subframe

| Uplink-Downlink | Downlink-to-Uplink       |   |   | Subframe Number |   |   |   |   |   |   |   |
|-----------------|--------------------------|---|---|-----------------|---|---|---|---|---|---|---|
| Configuration   | Switch-Point Periodicity | 0 | 1 | 2               | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0               | 5 ms                     | D | S | U               | U | U | D | S | U | U | U |
| 1               | 5 ms                     | D | S | U               | U | D | D | S | U | U | D |
| 2               | 5 ms                     | D | S | U               | D | D | D | S | U | D | D |
| 3               | 10 ms                    | D | S | U               | U | U | D | D | D | D | D |
| 4               | 10 ms                    | D | S | U               | U | D | D | D | D | D | D |
| 5               | 10 ms                    | D | S | U               | D | D | D | D | D | D | D |
| 6               | 5 ms                     | D | s | U               | U | U | D | S | U | U | D |

3GPP TS 36.211 Table 4.2-2: Uplink-Downlink Configurations

The uplink duty cycle of these seven configurations can be computed as below.

|                        | - · · · · · · · · · · · · · · · · · · · |        |        | <u> </u> |        |        |        |
|------------------------|---|--------|--------|----------|--------|--------|--------|
| UL-DL<br>Configuration | 0                                       | 1      | 2      | 3        | 4      | 5      | 6      |
| Highest<br>Duty-Cycle  | 63.33%                                  | 43.33% | 23.33% | 31.67%   | 21.67% | 11.67% | 53.33% |

Considering the highest transmission duty cycle, TDD LTE was tested using Uplink-Downlink configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 7 using extended cyclic prefix uplink. Therefore, SAR testing for TDD LTE was measured at the maximum output power with highest transmission duty cycle of 63.33%.

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## LTE downlink CA (KDB942225 D05A)

- 7. The device supports a maximum of 3 carriers in the downlink. All uplink communications are identical to the Release 8 specifications. Uplink maximum output power is measured with downlink carrier aggregation active, only for the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- 8. The downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements. The nominal channel spacing is determined by [BW1 + BW2 - 0.1\*|BW1 - BW2|]/2 MHz, where BW1 and BW2 are the channel bandwidths of the CC in a 2-CC aggregation configuration.
- 9. The downlink PCC channel should be paired with the uplink channel according to normal configurations, as if there is no carrier aggregation. The downlink SCC should be adjacent to the PCC and remain within the downlink transmission band for contiguous intra-band CA. For non-contiguous intra-band CA, the SCC should be selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band. For inter-band CA, the SCC should be near the middle of its transmission band.
- 10. When downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation inactive, so SAR evaluation is not required for downlink carrier aggregation.
- 11. According to KDB447498D01v06, SAR test exclusion evaluation

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surfaces/edges of tablet mode is not required since SAR measurements for all the surfaces/edges were performed.

- 12. According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is  $\leq$  0.8 W/kg, when the transmission band is  $\leq$  100 MHz.
- 13. According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit)

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# 1.6 Operating modes validation by power measurement

The device is a convertible laptop computer with WWAN/WLAN/BT feature.

Based on KDB inquiry, there are the G-sensor in the device, and the sensor can detect the operation mode transformation and then adjust the maximum output power accordingly.

For the operating modes validation, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively.

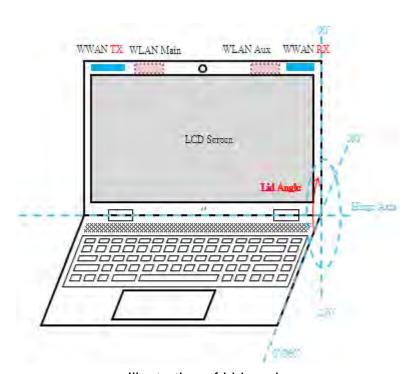


Illustration of Lid angle

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### 1.6.1 Results and conclusion

The measured output power versus lid angle is tabulated in the following table, and the triggering verification complies with the device mode / power level declared by the manufacturer.

# Operating mode validation by power measurement

| Antenna   | Operation mode | Lid angle | 802.11b | 802.11g | 802.11n(20) | 802.11n(40) |
|-----------|----------------|-----------|---------|---------|-------------|-------------|
|           |                | 0°        | n/a     | n/a     | n/a         | n/a         |
|           |                | 10°       | n/a     | n/a     | n/a         | n/a         |
|           | Lid close      | 20°       | n/a     | n/a     | n/a         | n/a         |
|           |                | 30°       | n/a     | n/a     | n/a         | n/a         |
|           |                | 34°       | n/a     | n/a     | n/a         | n/a         |
|           |                | 35°       | 19.93   | 19.78   | 19.83       | 18.87       |
|           |                | 40°       | 19.85   | 19.80   | 19.79       | 18.96       |
|           |                | 50°       | 19.84   | 19.79   | 19.82       | 18.94       |
|           |                | 60°       | 19.90   | 19.86   | 19.88       | 18.93       |
|           |                | 70°       | 19.92   | 19.77   | 19.82       | 18.87       |
|           | Notebook       | 80°       | 19.88   | 19.77   | 19.85       | 18.89       |
|           |                | 90°       | 19.91   | 19.83   | 19.81       | 18.92       |
|           |                | 100°      | 19.85   | 19.79   | 19.85       | 18.91       |
|           |                | 110°      | 19.85   | 19.79   | 19.84       | 18.93       |
|           |                | 120°      | 19.93   | 19.80   | 19.82       | 18.90       |
|           |                | 129°      | 19.87   | 19.77   | 19.83       | 18.90       |
|           |                | 130°      | 17.90   | 17.84   | 17.87       | 17.83       |
|           |                | 140°      | 17.84   | 17.84   | 17.85       | 17.77       |
|           |                | 150°      | 17.89   | 17.81   | 17.87       | 17.80       |
| WLAN Main |                | 160°      | 17.86   | 17.83   | 17.86       | 17.77       |
| (2.4GHz)  |                | 170°      | 17.90   | 17.88   | 17.81       | 17.84       |
| ,         |                | 180°      | 17.91   | 17.88   | 17.84       | 17.80       |
|           |                | 190°      | 17.85   | 17.89   | 17.85       | 17.77       |
|           |                | 200°      | 17.85   | 17.82   | 17.83       | 17.83       |
|           |                | 210°      | 17.87   | 17.89   | 17.89       | 17.82       |
|           |                | 220°      | 17.83   | 17.86   | 17.82       | 17.77       |
|           |                | 230°      | 17.92   | 17.86   | 17.87       | 17.78       |
|           |                | 240°      | 17.83   | 17.90   | 17.88       | 17.78       |
|           | Non-Notebook   | 250°      | 17.84   | 17.90   | 17.88       | 17.76       |
|           |                | 260°      | 17.90   | 17.90   | 17.80       | 17.75       |
|           |                | 270°      | 17.90   | 17.88   | 17.87       | 17.81       |
|           |                | 280°      | 17.83   | 17.85   | 17.82       | 17.81       |
|           |                | 290°      | 17.91   | 17.86   | 17.87       | 17.79       |
|           |                | 300°      | 17.90   | 17.89   | 17.81       | 17.83       |
|           |                | 310°      | 17.86   | 17.86   | 17.88       | 17.77       |
|           |                | 320°      | 17.86   | 17.85   | 17.89       | 17.83       |
|           |                | 330°      | 17.85   | 17.81   | 17.84       | 17.79       |
|           |                | 340°      | 17.90   | 17.86   | 17.80       | 17.84       |
|           |                | 350°      | 17.83   | 17.86   | 17.82       | 17.76       |
|           |                | 360°      | 17.91   | 17.87   | 17.87       | 17.77       |

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| Antenna   | Operation mode | Lid angle | 802.11b | 802.11g | 802.11n(20) | 802.11n(40) |       |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |
|-----------|----------------|-----------|---------|---------|-------------|-------------|-------|--|--|--|--|--|--|--|--|--|--|--|--|------|-------|-------|-------|-------|
|           |                | 201°      | 19.87   | 19.85   | 19.82       | 18.89       |       |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |
|           |                | 210°      | 19.91   | 19.81   | 19.81       | 18.93       |       |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |
|           |                | 220°      | 19.86   | 19.80   | 19.80       | 18.94       |       |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |
|           |                | 230°      | 19.86   | 19.84   | 19.87       | 18.90       |       |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |
|           |                | 240°      | 19.85   | 19.79   | 19.83       | 18.88       |       |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |
|           |                | 250°      | 19.91   | 19.77   | 19.82       | 18.92       |       |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |
|           |                | 260°      | 19.87   | 19.82   | 19.88       | 18.87       |       |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |
| WLAN Main | Stand          | 270°      | 19.89   | 19.84   | 19.83       | 18.87       |       |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |
| (2.4GHz)  | Stariu         | Stariu    | 280°    | 19.88   | 19.84       | 19.79       | 18.87 |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |
|           |                | 290°      | 19.88   | 19.86   | 19.81       | 18.95       |       |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |
|           |                | 300°      | 19.84   | 19.81   | 19.87       | 18.91       |       |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |
|           |                | 310°      | 19.87   | 19.78   | 19.85       | 18.90       |       |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |
|           |                |           |         |         |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  | 320° | 19.90 | 19.80 | 19.80 | 18.92 |
|           |                | 330°      | 19.85   | 19.81   | 19.86       | 18.87       |       |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |
|           |                | 340°      | 19.89   | 19.80   | 19.80       | 18.88       |       |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |
|           |                | 345°      | 19.92   | 19.79   | 19.83       | 18.87       |       |  |  |  |  |  |  |  |  |  |  |  |  |      |       |       |       |       |

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| Antenna  | Operation mode | Lid angle | 802.11b | 802.11g | 802.11n(20) | 802.11n(40) |
|----------|----------------|-----------|---------|---------|-------------|-------------|
|          |                | 0°        | n/a     | n/a     | n/a         | n/a         |
|          |                | 10°       | n/a     | n/a     | n/a         | n/a         |
|          | Lid close      | 20°       | n/a     | n/a     | n/a         | n/a         |
|          |                | 30°       | n/a     | n/a     | n/a         | n/a         |
|          |                | 34°       | n/a     | n/a     | n/a         | n/a         |
|          |                | 35°       | 19.86   | 19.89   | 19.85       | 18.78       |
|          |                | 40°       | 19.83   | 19.96   | 19.82       | 18.74       |
|          |                | 50°       | 19.90   | 19.92   | 19.85       | 18.77       |
|          |                | 60°       | 19.84   | 19.90   | 19.88       | 18.70       |
|          |                | 70°       | 19.85   | 19.91   | 19.88       | 18.72       |
|          | Notebook       | 80°       | 19.81   | 19.93   | 19.84       | 18.73       |
|          |                | 90°       | 19.81   | 19.98   | 19.88       | 18.72       |
|          |                | 100°      | 19.90   | 19.93   | 19.80       | 18.78       |
|          |                | 110°      | 19.87   | 19.92   | 19.83       | 18.69       |
|          |                | 120°      | 19.88   | 19.95   | 19.86       | 18.73       |
|          |                | 129°      | 19.87   | 19.96   | 19.88       | 18.74       |
|          |                | 130°      | 17.82   | 17.90   | 17.83       | 17.84       |
|          |                | 140°      | 17.82   | 17.84   | 17.83       | 17.76       |
|          |                | 150°      | 17.80   | 17.82   | 17.89       | 17.76       |
| WLAN Aux |                | 160°      | 17.80   | 17.81   | 17.91       | 17.76       |
| (2.4GHz) |                | 170°      | 17.86   | 17.87   | 17.92       | 17.77       |
|          |                | 180°      | 17.82   | 17.83   | 17.90       | 17.85       |
|          |                | 190°      | 17.82   | 17.87   | 17.86       | 17.82       |
|          |                | 200°      | 17.86   | 17.86   | 17.83       | 17.82       |
|          |                | 210°      | 17.85   | 17.86   | 17.92       | 17.82       |
|          |                | 220°      | 17.81   | 17.84   | 17.87       | 17.76       |
|          |                | 230°      | 17.81   | 17.86   | 17.89       | 17.79       |
|          | Non-Notebook   | 240°      | 17.82   | 17.83   | 17.87       | 17.82       |
|          | Non-Notebook   | 250°      | 17.83   | 17.88   | 17.86       | 17.79       |
|          |                | 260°      | 17.81   | 17.89   | 17.88       | 17.81       |
|          |                | 270°      | 17.83   | 17.86   | 17.85       | 17.82       |
|          |                | 280°      | 17.85   | 17.81   | 17.90       | 17.82       |
|          |                | 290°      | 17.89   | 17.90   | 17.89       | 17.80       |
|          |                | 300°      | 17.86   | 17.89   | 17.88       | 17.76       |
|          |                | 310°      | 17.86   | 17.87   | 17.88       | 17.77       |
|          |                | 320°      | 17.88   | 17.83   | 17.91       | 17.84       |
|          |                | 330°      | 17.84   | 17.84   | 17.90       | 17.82       |
|          |                | 340°      | 17.82   | 17.86   | 17.84       | 17.85       |
|          |                | 350°      | 17.80   | 17.85   | 17.92       | 17.77       |
|          |                | 360°      | 17.85   | 17.88   | 17.87       | 17.84       |

| Antenna  | Operation mode                               | Lid angle | 802.11b | 802.11g | 802.11n(20) | 802.11n(40) |
|----------|--|-----------|---------|---------|-------------|-------------|
|          | 201° 210° 220° 230° 240° 250° 260° 260° 270° | 19.84     | 19.91   | 19.84   | 18.73       |             |
|          |  | 210°      | 19.86   | 19.98   | 19.82       | 18.75       |
|          |  | 220°      | 19.84   | 19.93   | 19.89       | 18.78       |
|          |  | 230°      | 19.86   | 19.92   | 19.83       | 18.74       |
|          |  | 240°      | 19.89   | 19.94   | 19.80       | 18.73       |
|          |  | 250°      | 19.89   | 19.91   | 19.80       | 18.74       |
|          |  | 260°      | 19.90   | 19.97   | 19.89       | 18.77       |
| WLAN Aux | Stand  | 270°      | 19.82   | 19.90   | 19.86       | 18.71       |
| (2.4GHz) | Stariu                                       | 280°      | 19.81   | 19.97   | 19.88       | 18.71       |
|          |  | 290°      | 19.85   | 19.94   | 19.89       | 18.73       |
|          |  | 300°      | 19.81   | 19.97   | 19.86       | 18.77       |
|          |  | 310°      | 19.90   | 19.95   | 19.86       | 18.71       |
|          |  | 320°      | 19.85   | 19.96   | 19.82       | 18.77       |
|          |  | 330°      | 19.86   | 19.97   | 19.89       | 18.70       |
|          |  | 340°      | 19.81   | 19.91   | 19.85       | 18.74       |
|          |  | 345°      | 19.86   | 19.93   | 19.89       | 18.77       |

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| Antenna   | Operation mode  | Lid angle | 802.11b | 802.11g | 802.11n(20) | 802.11n(40) | 802.11ac(40) |       |
|-----------|-----------------|-----------|---------|---------|-------------|-------------|--------------|-------|
|           |                 | 0°        | n/a     | n/a     | n/a         | n/a         | n/a          | n/a   |
|           |                 | 10°       | n/a     | n/a     | n/a         | n/a         | n/a          | n/a   |
|           | Lid close       | 20°       | n/a     | n/a     | n/a         | n/a         | n/a          | n/a   |
|           |                 | 30°       | n/a     | n/a     | n/a         | n/a         | n/a          | n/a   |
|           |                 | 34°       | n/a     | n/a     | n/a         | n/a         | n/a          | n/a   |
|           |                 | 35°       | 19.94   | 19.86   | 19.82       | 19.88       | 19.71        | 13.86 |
|           |                 | 40°       | 19.94   | 19.82   | 19.83       | 19.85       | 19.75        | 13.88 |
|           |                 | 50°       | 19.90   | 19.85   | 19.84       | 19.85       | 19.80        | 13.88 |
|           |                 | 60°       | 19.91   | 19.83   | 19.80       | 19.86       | 19.74        | 13.84 |
|           |                 | 70°       | 19.89   | 19.81   | 19.86       | 19.90       | 19.71        | 13.84 |
|           | Notebook        | 80°       | 19.89   | 19.78   | 19.86       | 19.85       | 19.76        | 13.89 |
|           |                 | 90°       | 19.88   | 19.80   | 19.85       | 19.91       | 19.75        | 13.92 |
|           |                 | 100°      | 19.94   | 19.84   | 19.80       | 19.92       | 19.71        | 13.92 |
|           |                 | 110°      | 19.89   | 19.81   | 19.81       | 19.85       | 19.74        | 13.90 |
|           |                 | 120°      | 19.95   | 19.79   | 19.81       | 19.90       | 19.77        | 13.85 |
|           |                 | 129°      | 19.86   | 19.84   | 19.78       | 19.86       | 19.71        | 13.86 |
|           |                 | 130°      | 15.72   | 15.61   | 15.80       | 15.87       | 15.87        | 13.80 |
|           |                 | 140°      | 15.71   | 15.65   | 15.84       | 15.86       | 15.79        | 13.81 |
|           |                 | 150°      | 15.72   | 15.69   | 15.80       | 15.91       | 15.86        | 13.78 |
| WLAN Main |                 | 160°      | 15.68   | 15.62   | 15.83       | 15.87       | 15.82        | 13.84 |
| (5.2GHz)  |                 | 170°      | 15.73   | 15.68   | 15.83       | 15.90       | 15.87        | 13.75 |
|           |                 | 180°      | 15.75   | 15.62   | 15.89       | 15.93       | 15.81        | 13.83 |
|           |                 | 190°      | 15.74   | 15.67   | 15.84       | 15.87       | 15.78        | 13.81 |
|           |                 | 200°      | 15.70   | 15.61   | 15.81       | 15.90       | 15.81        | 13.76 |
|           |                 | 210°      | 15.75   | 15.63   | 15.86       | 15.92       | 15.83        | 13.83 |
|           |                 | 220°      | 15.72   | 15.68   | 15.86       | 15.85       | 15.79        | 13.83 |
|           |                 | 230°      | 15.69   | 15.62   | 15.88       | 15.86       | 15.80        | 13.82 |
|           | Non-Notebook    | 240°      | 15.67   | 15.64   | 15.81       | 15.86       | 15.82        | 13.81 |
|           | INOTI-INOTEDOOK | 250°      | 15.68   | 15.67   | 15.80       | 15.91       | 15.85        | 13.79 |
|           |                 | 260°      | 15.66   | 15.70   | 15.80       | 15.92       | 15.83        | 13.76 |
|           |                 | 270°      | 15.70   | 15.69   | 15.85       | 15.88       | 15.80        | 13.77 |
|           |                 | 280°      | 15.66   | 15.63   | 15.87       | 15.91       | 15.87        | 13.76 |
|           |                 | 290°      | 15.74   | 15.62   | 15.85       | 15.85       | 15.83        | 13.77 |
|           |                 | 300°      | 15.67   | 15.67   | 15.85       | 15.88       | 15.82        | 13.82 |
|           |                 | 310°      | 15.66   | 15.63   | 15.85       | 15.87       | 15.86        | 13.80 |
|           |                 | 320°      | 15.71   | 15.63   | 15.84       | 15.90       | 15.85        | 13.76 |
|           |                 | 330°      | 15.74   | 15.67   | 15.80       | 15.93       | 15.82        | 13.80 |
|           |                 | 340°      | 15.74   | 15.68   | 15.85       | 15.88       | 15.85        | 13.78 |
|           |                 | 350°      | 15.74   | 15.65   | 15.84       | 15.85       | 15.79        | 13.78 |
|           |                 | 360°      | 15.67   | 15.64   | 15.84       | 15.90       | 15.78        | 13.78 |

| Antenna   | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40)   | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
|-----------|----------------|-----------|---------|-------------|---|--------------|--------------|--------------|
|           |                | 201°      | 19.93   | 19.82       | 19.77   | 19.91        | 19.77        | 13.87        |
|           |                | 210°      | 19.95   | 19.83       | 19.82   | 19.88        | 19.79        | 13.87        |
|           |                | 220°      | 19.91   | 19.81       | .81 19.77 19.84<br>.82 19.82 19.91<br>.78 19.78 19.91<br>.86 19.77 19.85<br>.79 19.77 19.89 | 19.80        | 13.91        |              |
|           |                | 230°      | 19.92   | 19.82       | 19.82   | 19.91        | 19.80        | 13.86        |
|           |                | 240°      | 19.87   | 19.78       | 19.78   | 19.91        | 19.80        | 13.83        |
|           |                | 250°      | 19.88   | 19.86       | 19.77   | 19.85        | 19.80        | 13.89        |
|           |                | 260°      | 19.95   | 19.79       | 19.77   | 19.89        | 19.78        | 13.87        |
| WLAN Main | Stand          | 270°      | 19.93   | 19.79       | 19.77   | 19.85        | 19.71        | 13.86        |
| (5.2GHz)  | Statiu         | 280°      | 19.94   | 19.87       | 19.83   | 19.89        | 19.71        | 13.88        |
|           |                | 290°      | 19.89   | 19.81       | 19.78   | 19.89        | 19.76        | 13.87        |
|           |                | 300°      | 19.89   | 19.87       | 19.84   | 19.92        | 19.72        | 13.87        |
|           |                | 310°      | 19.90   | 19.83       | 19.85   | 19.92        | 19.78        | 13.87        |
|           |                | 320°      | 19.87   | 19.83       | 19.83   | 19.90        | 19.72        | 13.83        |
|           |                | 330°      | 19.91   | 19.79       | 19.81   | 19.85        | 19.75        | 13.84        |
|           |                | 340°      | 19.93   | 19.81       | 19.79   | 19.92        | 19.79        | 13.92        |
|           |                | 345°      | 19.87   | 19.83       | 19.78   | 19.92        | 19.78        | 13.85        |

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| Antenna    | Operation mode | Lid angle | 802.11b | 802.11g     | 802.11n(20) | 802.11n(40)  | 802.11ac(40) | 802.11ac(80) |
|------------|----------------|-----------|---------|-------------|-------------|--|--------------|--------------|
| 7          | 3p0.a          | 0°        | n/a     | n/a         | n/a         | n/a  | n/a          | n/a          |
|            |                | 10°       | n/a     | n/a         | n/a         | n/a  | n/a          | n/a          |
|            | Lid close      | 20°       | n/a     | n/a         | n/a         | n/a  | n/a          | n/a          |
|            | Lia 51050      | 30°       | n/a     | n/a         | n/a         | n/a  | n/a          | n/a          |
|            |                | 34°       | n/a     | n/a         | n/a         | n/a  | n/a          | n/a          |
|            |                | 35°       | 19.92   | 19.88       | 19.79       | 19.91  | 19.92        | 13.85        |
|            |                | 40°       | 19.97   | 19.80       | 19.84       | 19.85  | 19.84        | 13.82        |
|            |                | 50°       | 19.91   | 19.84       | 19.79       | 19.93  | 19.90        | 13.85        |
|            |                | 60°       | 19.90   | 19.87       | 19.82       | 19.86  | 19.93        | 13.84        |
|            |                | 70°       | 19.98   | 19.83       | 19.79       | 19.91  | 19.85        | 13.81        |
|            | Notebook       | 80°       | 19.92   | 19.81       | 19.82       | 19.93  | 19.90        | 13.85        |
|            | Notebook       | 90°       | 19.94   | 19.80       | 19.87       | 19.92  | 19.92        | 13.80        |
|            |                | 100°      | 19.94   | 19.87       | 19.82       | 19.92  | 19.89        | 13.85        |
|            |                | 110°      | 19.93   | 19.80       | 19.87       | 19.91  | 19.88        | 13.85        |
|            |                | 120°      | 19.89   | 19.86       | 19.81       | 19.84  | 19.88        | 13.80        |
|            |                | 129°      | 19.89   | 19.85       | 19.82       | 19.89  | 19.91        | 13.85        |
|            |                | 130°      | 16.20   | 16.27       | 16.32       | 16.47  | 16.39        |              |
|            |                | 140°      |         |             |             |  |              | 13.87        |
|            |                |           | 16.27   | 16.26       | 16.36       | 16.46  | 16.35        | 13.91        |
| \A/I ANI A |                | 150°      | 16.24   | 16.31       | 16.37       | 16.40  | 16.37        | 13.90        |
| WLAN Aux   |                | 160°      | 16.26   | 16.35       | 16.37       | 16.46  | 16.34        | 13.91        |
| (5.2GHz)   |                | 170°      | 16.23   | 16.26       | 16.30       |  | 16.34        | 13.87        |
|            |                | 180°      | 16.18   | 16.35       | 16.33       |  | 16.31        | 13.91        |
|            |                | 190°      | 16.23   | 16.26       | 16.38       |  | 16.37        | 13.91        |
|            |                | 200°      | 16.18   | 16.31       | 16.34       |  | 16.37        | 13.93        |
|            |                | 210°      | 16.25   | 16.26       | 16.35       | 30 16.47<br>33 16.43<br>38 16.45<br>34 16.43<br>35 16.46<br>38 16.41<br>39 16.43<br>39 16.41 | 16.37        | 13.91        |
|            |                | 220°      | 16.20   | 16.35       | 16.38       |  | 16.33        | 13.90        |
|            |                | 230°      | 16.20   | 16.30       | 16.39       |  | 16.33        | 13.89        |
|            | Non-Notebook   | 240°      | 16.26   | 16.32       | 16.39       |  | 16.34        | 13.88        |
|            |                | 250°      | 16.23   | 16.31       | 16.32       | 16.43<br>16.41<br>16.45  | 16.38        | 13.85        |
|            |                | 260°      | 16.21   | 16.35       | 16.33       | 16.43  | 16.34        | 13.92        |
|            |                | 270°      | 16.19   | 16.29       | 16.30       | 16.47  | 16.40        | 13.90        |
|            |                | 280°      | 16.24   | 16.34       | 16.37       | 16.45  | 16.31        | 13.90        |
|            |                | 290°      | 16.23   | 16.26       | 16.31       | 16.46  | 16.33        | 13.86        |
|            |                | 300°      | 16.18   | 16.32       | 16.37       | 16.46  | 16.35        | 13.86        |
|            |                | 310°      | 16.21   | 16.34       | 16.30       | 16.47  | 16.31        | 13.94        |
|            |                | 320°      | 16.23   | 16.27       | 16.38       | 16.48  | 16.38        | 13.85        |
|            |                | 330°      | 16.20   | 16.34       | 16.32       | 16.41  | 16.36        | 13.89        |
|            |                | 340°      | 16.25   | 16.31       | 16.32       | 16.47  | 16.33        | 13.91        |
|            |                | 350°      | 16.21   | 16.34       | 16.34       | 16.47  | 16.40        | 13.85        |
|            |                | 360°      | 16.26   | 16.33       | 16.30       | 16.40  | 16.38        | 13.89        |
| Antenna    | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20)   | 802.11ac(40) | 802.11ac(80) |
|            |                | 201°      | 19.98   | 19.81       | 19.88       | 19.87  | 19.93        | 13.85        |
|            |                | 210°      | 19.93   | 19.80       | 19.83       | 19.85  | 19.91        | 13.85        |
|            |                | 220°      | 19.92   | 19.82       | 19.79       | 19.87  | 19.93        | 13.78        |
|            |                | 230°      | 19.94   | 19.83       | 19.87       | 19.89  | 19.93        | 13.83        |
|            |                | 240°      | 19.95   | 19.88       | 19.79       | 19.87  | 19.87        | 13.84        |
|            |                | 250°      | 19.93   | 19.87       | 19.84       | 19.92  | 19.84        | 13.80        |
|            |                | 260°      | 19.90   | 19.82       | 19.88       | 19.92  | 19.93        | 13.77        |
| WLAN Aux   | Ctond          | 270°      | 19.89   | 19.82       | 19.84       | 19.88  | 19.92        | 13.81        |
| (5.2GHz)   | Stand          | 280°      | 19.90   | 19.87       | 19.85       | 19.92  | 19.92        | 13.77        |
|            |                | 290°      | 19.91   | 19.80       | 19.86       | 19.92  | 19.85        | 13.85        |
|            |                | 300°      | 19.96   | 19.83       | 19.88       | 19.84  | 19.88        | 13.86        |
|            |                | 310°      | 19.98   | 19.84       | 19.82       | 19.91  | 19.89        | 13.86        |
|            |                | 320°      | 19.98   | 19.86       | 19.82       | 19.91  | 19.87        | 13.83        |
|            |                | 330°      | 19.91   | 19.82       | 19.86       | 19.84  | 19.85        | 13.79        |
|            |                | 340°      | 19.92   | 19.88       | 19.87       | 19.87  | 19.88        | 13.82        |
|            |                | 345°      | 19.97   | 19.81       | 19.88       | 19.87  | 19.86        | 13.78        |
|            |                |           |         |             | . 5.55      |  |              |              |

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| Antenna     | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20)                              | 802.11ac(40) | 802.11ac(80) |
|-------------|----------------|-----------|---------|-------------|-------------|---|--------------|--------------|
| 7 111011110 | oporanor mode  | 0°        | n/a     | n/a         | n/a         | n/a                                       | n/a          | n/a          |
|             |                | 10°       | n/a     | n/a         | n/a         | n/a                                       | n/a          | n/a          |
|             | Lid close      | 20°       | n/a     | n/a         | n/a         | n/a                                       | n/a          | n/a          |
|             | Liu diosc      | 30°       | n/a     | n/a         | n/a         | n/a                                       | n/a          | n/a          |
|             |                | 34°       | n/a     | n/a         | n/a         | n/a                                       | n/a          | n/a          |
| •           |                | 35°       | 19.85   | 19.59       |             | 19.74                                     | 19.81        | 11.78        |
|             |                |           |         |             | 19.66       |   |              |              |
|             |                | 40°       | 19.80   | 19.75       | 19.72       | 19.81                                     | 19.83        | 11.62        |
|             |                | 50°       | 19.72   | 19.84       | 19.73       | 19.76                                     | 19.72        | 11.66        |
|             |                | 60°       | 19.65   | 19.67       | 19.81       | 19.69                                     | 19.82        | 11.63        |
|             | Matabaali      | 70°       | 19.78   | 19.72       | 19.77       | 19.82                                     | 19.77        | 11.75        |
|             | Notebook       | 80°       | 19.76   | 19.67       | 19.57       | 19.71                                     | 19.79        | 11.65        |
|             |                | 90°       | 19.74   | 19.67       | 19.77       | 19.69                                     | 19.75        | 11.78        |
|             |                | 100°      | 19.68   | 19.60       | 19.72       | 19.77                                     | 19.86        | 11.74        |
|             |                | 110°      | 19.71   | 19.73       | 19.66       | 19.78                                     | 19.80        | 11.64        |
|             |                | 120°      | 19.76   | 19.64       | 19.72       | 19.86                                     | 19.86        | 11.72        |
| ] .         |                | 129°      | 19.74   | 19.67       | 19.64       | 19.69                                     | 19.76        | 11.68        |
|             |                | 130°      | 15.69   | 15.67       | 15.77       | 15.79                                     | 15.79        | 11.84        |
|             |                | 140°      | 15.68   | 15.62       | 15.67       | 15.84                                     | 15.77        | 11.85        |
|             |                | 150°      | 15.71   | 15.69       | 15.78       | 15.73                                     | 15.60        | 11.71        |
| WLAN Main   |                | 160°      | 15.81   | 15.81       | 15.80       | 15.86                                     | 15.65        | 11.78        |
| (5.3GHz)    |                | 170°      | 15.78   | 15.67       | 15.72       | 15.78                                     | 15.70        | 11.78        |
|             |                | 180°      | 15.79   | 15.71       | 15.85       | 15.79                                     | 15.72        | 11.83        |
|             |                | 190°      | 15.79   | 15.78       | 15.74       | 15.85                                     | 15.66        | 11.81        |
|             |                | 200°      | 15.79   | 15.64       | 15.63       | 15.78                                     | 15.67        | 11.81        |
|             |                | 210°      | 15.68   | 15.65       | 15.84       | 15.77                                     | 15.67        | 11.83        |
|             |                | 220°      | 15.77   | 15.71       | 15.69       | 15.77                                     | 15.79        | 11.86        |
|             |                | 230°      | 15.63   | 15.81       | 15.70       | 15.79                                     | 15.76        | 11.71        |
|             | Non-Notebook   | 240°      | 15.78   | 15.67       | 15.70       | 15.81                                     | 15.59        | 11.82        |
|             | Non-Notebook   | 250°      | 15.75   | 15.78       | 15.74       | 15.77<br>15.77<br>15.79<br>15.81<br>15.73 | 15.78        | 11.81        |
|             |                | 260°      | 15.80   | 15.78       | 15.63       | 15.79                                     | 15.79        | 11.90        |
|             |                | 270°      | 15.77   | 15.77       | 15.84       | 15.86                                     | 15.84        | 11.86        |
|             |                | 280°      | 15.79   | 15.77       | 15.75       | 15.84                                     | 15.69        | 11.85        |
|             |                | 290°      | 15.71   | 15.77       | 15.75       | 15.82                                     | 15.71        | 11.74        |
|             |                | 300°      | 15.73   | 15.66       | 15.75       | 15.82                                     | 15.70        | 11.78        |
|             |                | 310°      | 15.76   | 15.68       | 15.82       | 15.74                                     | 15.75        | 11.71        |
|             |                | 320°      | 15.77   | 15.62       | 15.79       | 15.84                                     | 15.56        | 11.72        |
|             |                | 330°      | 15.75   | 15.81       | 15.76       | 15.86                                     | 15.70        | 11.82        |
|             |                | 340°      | 15.86   | 15.62       | 15.66       | 15.82                                     | 15.71        | 11.77        |
|             |                | 350°      | 15.76   | 15.71       | 15.63       | 15.71                                     | 15.60        | 11.76        |
|             |                | 360°      | 15.63   | 15.76       | 15.85       | 15.71                                     | 15.63        | 11.79        |
| Antenna     | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20)                              | 802.11ac(40) | 802.11ac(80) |
|             |                | 201°      | 19.81   | 19.83       | 19.78       | 19.88                                     | 19.87        | 11.75        |
|             |                | 210°      | 19.84   | 19.79       | 19.78       | 19.83                                     | 19.84        | 11.84        |
|             |                | 220°      | 19.83   | 19.77       | 19.77       | 19.88                                     | 19.87        | 11.81        |
|             |                | 230°      | 19.85   | 19.84       | 19.75       | 19.89                                     | 19.90        | 11.75        |
|             |                | 240°      | 19.88   | 19.77       | 19.78       | 19.89                                     | 19.84        | 11.80        |
|             |                | 250°      | 19.80   | 19.78       | 19.74       | 19.86                                     | 19.92        | 11.79        |
|             |                | 260°      | 19.83   | 19.84       | 19.80       | 19.91                                     | 19.88        | 11.77        |
| WLAN Main   | 01-            | 270°      | 19.82   | 19.77       | 19.80       | 19.91                                     | 19.92        | 11.77        |
| (5.3GHz)    | Stand          | 280°      | 19.81   | 19.76       | 19.79       | 19.88                                     | 19.90        | 11.83        |
| , ,         |                | 290°      | 19.88   | 19.79       | 19.78       | 19.84                                     | 19.90        | 11.82        |
|             |                | 300°      | 19.84   | 19.84       | 19.82       | 19.83                                     | 19.86        | 11.83        |
|             |                | 310°      | 19.87   | 19.77       | 19.77       | 19.84                                     | 19.89        | 11.83        |
|             |                | 320°      | 19.82   | 19.79       | 19.77       | 19.92                                     | 19.86        | 11.75        |
|             |                | 330°      | 19.84   | 19.76       | 19.74       | 19.91                                     | 19.91        | 11.78        |
|             |                | 340°      | 19.83   | 19.77       | 19.78       | 19.90                                     | 19.84        | 11.77        |
|             |                | 345°      | 19.80   | 19.84       | 19.77       | 19.85                                     | 19.88        | 11.80        |
|             |                | U 70      | 10.00   | 10.07       | 10.77       | 10.00                                     | 10.00        | 11.00        |

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| Antenna   | Operation mode | Lid angle    | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
|-----------|----------------|--------------|---------|-------------|-------------|--------------|--------------|--------------|
| Antenna   | Operation mode | 0°           | n/a     | n/a         | n/a         | n/a          | n/a          | n/a          |
|           |                | 10°          | n/a     | n/a         | n/a         | n/a          | n/a          | n/a          |
|           | Lid close      | 20°          | n/a     | n/a         | n/a         | n/a          | n/a          | n/a          |
|           | 2.0 0.000      | 30°          | n/a     | n/a         | n/a         | n/a          | n/a          | n/a          |
|           |                | 34°          | n/a     | n/a         | n/a         | n/a          | n/a          | n/a          |
|           |                | 35°          | 19.91   | 19.85       | 19.85       | 19.89        | 19.93        | 11.83        |
|           |                | 40°          | 19.90   | 19.87       | 19.85       | 19.91        | 19.93        | 11.83        |
|           |                | 50°          | 19.89   | 19.83       | 19.77       | 19.86        | 19.95        | 11.86        |
|           |                | 60°          | 19.91   | 19.85       | 19.77       | 19.94        | 19.92        | 11.80        |
|           |                | 70°          | 19.87   | 19.87       | 19.83       | 19.94        | 19.89        | 11.84        |
|           | Notebook       | 80°          | 19.90   | 19.80       | 19.77       | 19.88        | 19.87        | 11.83        |
|           |                | 90°          | 19.91   | 19.84       | 19.82       | 19.85        | 19.92        | 11.82        |
|           |                | 100°         | 19.84   | 19.87       | 19.84       | 19.90        | 19.95        | 11.83        |
|           |                | 110°         | 19.90   | 19.83       | 19.83       | 19.94        | 19.94        | 11.83        |
|           |                | 120°         | 19.83   | 19.88       | 19.78       | 19.88        | 19.89        | 11.79        |
|           |                | 129°         | 19.85   | 19.82       | 19.83       | 19.90        | 19.90        | 11.80        |
|           |                | 130°         | 16.34   | 16.40       | 16.18       | 16.33        | 16.44        | 11.85        |
|           |                | 140°         | 16.29   | 16.36       | 16.21       | 16.27        | 16.35        | 11.84        |
|           |                | 150°         | 16.34   | 16.35       | 16.21       | 16.35        | 16.40        | 11.82        |
| WLAN Aux  |                | 160°         | 16.34   | 16.37       | 16.23       | 16.33        | 16.38        | 11.81        |
| (5.3GHz)  |                | 170°         | 16.28   | 16.32       | 16.23       | 16.29        | 16.36        | 11.83        |
| (0.00.1.) |                | 180°         | 16.31   | 16.37       | 16.19       | 16.33        | 16.36        | 11.81        |
|           |                | 190°         | 16.29   | 16.33       | 16.24       | 16.36        | 16.39        | 11.82        |
|           |                | 200°         | 16.33   | 16.35       | 16.19       | 16.28        | 16.41        | 11.84        |
|           |                | 210°         | 16.29   | 16.36       | 16.24       | 16.28        | 16.43        | 11.83        |
|           |                | 220°         | 16.31   | 16.39       | 16.25       | 16.30        | 16.41        | 11.85        |
|           |                | 230°         | 16.29   | 16.31       | 16.20       | 16.36        | 16.40        | 11.77        |
|           |                | 240°         | 16.28   | 16.31       | 16.21       | 16.29        | 16.40        | 11.78        |
|           | Non-Notebook   | 250°         | 16.32   | 16.33       | 16.17       | 16.33        | 16.41        | 11.85        |
|           |                | 260°         | 16.35   | 16.34       | 16.22       | 16.29        | 16.43        | 11.79        |
|           |                | 270°         | 16.28   | 16.36       | 16.25       | 16.29        | 16.42        | 11.82        |
|           |                | 280°         | 16.30   | 16.34       | 16.19       | 16.30        | 16.44        | 11.84        |
|           |                | 290°         | 16.32   | 16.40       | 16.25       | 16.27        | 16.39        | 11.79        |
|           |                | 300°         | 16.34   | 16.33       | 16.17       | 16.28        | 16.38        | 11.80        |
|           |                | 310°         | 16.30   | 16.32       | 16.20       | 16.35        | 16.36        | 11.78        |
|           |                | 320°         | 16.29   | 16.38       | 16.21       | 16.35        | 16.44        | 11.80        |
|           |                | 330°         | 16.32   | 16.31       | 16.24       | 16.31        | 16.39        | 11.84        |
|           |                | 340°         | 16.34   | 16.35       | 16.23       | 16.35        | 16.42        | 11.80        |
|           |                | 350°         | 16.35   | 16.35       | 16.24       | 16.27        | 16.38        | 11.82        |
|           |                | 360°         | 16.28   | 16.36       | 16.16       | 16.28        | 16.42        | 11.79        |
| Antenna   | Operation mode | Lid angle    | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
| Antonia   | operation mode | 201°         | 19.83   | 19.80       | 19.81       | 19.90        | 19.91        | 11.87        |
|           |                | 210°         | 19.86   | 19.88       | 19.80       | 19.91        | 19.86        | 11.88        |
|           |                | 220°         | 19.89   | 19.84       | 19.84       | 19.90        | 19.94        | 11.86        |
|           |                | 230°         | 19.89   | 19.86       | 19.78       | 19.89        | 19.89        | 11.85        |
|           |                | 240°         | 19.89   | 19.86       | 19.83       | 19.91        | 19.93        | 11.80        |
|           |                | 250°         | 19.83   | 19.81       | 19.85       | 19.87        | 19.87        | 11.81        |
|           |                | 260°         | 19.84   | 19.81       | 19.82       | 19.85        | 19.93        | 11.86        |
| WLAN Aux  | <b>O</b> : :   | 270°         | 19.89   | 19.85       | 19.84       | 19.92        | 19.86        | 11.80        |
| (5.3GHz)  | Stand          | 280°         | 19.92   | 19.81       | 19.76       | 19.88        | 19.94        | 11.85        |
| , /       |                | 290°         | 19.89   | 19.86       | 19.81       | 19.89        | 19.86        | 11.85        |
|           |                | 300°         | 19.83   | 19.89       | 19.78       | 19.90        | 19.89        | 11.80        |
|           |                | 310°         | 19.86   | 19.85       | 19.84       | 19.93        | 19.92        | 11.80        |
|           |                | 320°         | 19.87   | 19.83       | 19.78       | 19.93        | 19.89        | 11.80        |
|           | _              |              |         |             |             |              | 19.90        | 11.87        |
|           |                | 330°         | 19.83   | 19.89       | 19.78       | 19.93        | 19.90        | 11.07        |
|           |                | 330°<br>340° | 19.83   | 19.80       | 19.76       | 19.93        | 19.86        | 11.85        |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| Antenna       | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20)            | 802.11ac(40) | 802.11ac(80) |
|---------------|----------------|-----------|---------|-------------|-------------|-------------------------|--------------|--------------|
| 7 11 10 11 10 | oporanon mode  | 0°        | n/a     | n/a         | n/a         | n/a                     | n/a          | n/a          |
|               |                | 10°       | n/a     | n/a         | n/a         | n/a                     | n/a          | n/a          |
|               | Lid close      | 20°       | n/a     | n/a         | n/a         | n/a                     | n/a          | n/a          |
|               | Lia diose      | 30°       | n/a     | n/a         | n/a         | n/a                     | n/a          | n/a          |
|               |                | 34°       | n/a     | n/a         | n/a         | n/a                     | n/a          | n/a          |
|               |                | 35°       | 19.70   | 19.80       | 19.71       | 19.69                   | 19.85        | 19.91        |
|               |                |           |         |             |             |                         |              |              |
|               |                | 40°       | 19.75   | 19.73       | 19.74       | 19.71                   | 19.82        | 19.92        |
|               |                | 50°       | 19.76   | 19.74       | 19.74       | 19.68                   | 19.79        | 19.90        |
|               |                | 60°       | 19.72   | 19.75       | 19.69       | 19.64                   | 19.79        | 19.89        |
|               | Matabaali      | 70°       | 19.72   | 19.71       | 19.71       | 19.72                   | 19.85        | 19.86        |
|               | Notebook       | 80°       | 19.69   | 19.80       | 19.69       | 19.69                   | 19.84        | 19.90        |
|               |                |           | 19.78   | 19.74       | 19.73       | 19.73                   | 19.76        | 19.93        |
|               |                | 100°      | 19.73   | 19.74       | 19.70       | 19.69                   | 19.81        | 19.90        |
|               |                | 110°      | 19.73   | 19.77       | 19.71       | 19.72                   | 19.76        | 19.87        |
|               |                | 120°      | 19.76   | 19.76       | 19.73       | 19.69                   | 19.81        | 19.86        |
|               |                | 129°      | 19.75   | 19.73       | 19.77       | 19.64                   | 19.77        | 19.89        |
|               |                | 130°      | 15.78   | 15.78       | 15.82       | 15.83                   | 15.78        | 15.85        |
|               |                | 140°      | 15.80   | 15.75       | 15.81       | 15.83                   | 15.82        | 15.83        |
| [             |                | 150°      | 15.79   | 15.78       | 15.74       | 15.88                   | 15.81        | 15.89        |
| WLAN Main     |                | 160°      | 15.81   | 15.76       | 15.75       | 15.84                   | 15.82        | 15.85        |
| (5.6GHz)      |                | 170°      | 15.75   | 15.84       | 15.74       | 15.86                   | 15.85        | 15.87        |
|               |                | 180°      | 15.72   | 15.78       | 15.77       | 15.87                   | 15.80        | 15.82        |
|               |                | 190°      | 15.73   | 15.78       | 15.83       | 15.79                   | 15.85        | 15.84        |
|               |                | 200°      | 15.72   | 15.76       | 15.78       | 15.83                   | 15.79        | 15.87        |
|               |                | 210°      | 15.79   | 15.77       | 15.76       | 15.80                   | 15.83        | 15.82        |
|               |                | 220°      | 15.75   | 15.81       | 15.75       | 15.86                   | 15.85        | 15.88        |
|               |                | 230°      | 15.75   | 15.75       | 15.78       | 15.80                   | 15.82        | 15.91        |
|               | Non-Notebook   | 240°      | 15.79   | 15.78       | 15.81       | 15.86<br>15.80<br>15.79 | 15.85        | 15.83        |
|               | THOM THOUGHOUR | 250°      | 15.77   | 15.79       | 15.77       | 15.87                   | 15.84        | 15.91        |
|               |                | 260°      | 15.73   | 15.84       | 15.78       | 15.84                   | 15.86        | 15.82        |
|               |                | 270°      | 15.78   | 15.84       | 15.82       | 15.79                   | 15.86        | 15.91        |
|               |                | 280°      | 15.74   | 15.81       | 15.78       | 15.84                   | 15.80        | 15.82        |
|               |                | 290°      | 15.74   | 15.80       | 15.78       | 15.80                   | 15.78        | 15.88        |
|               |                | 300°      | 15.73   | 15.82       | 15.80       | 15.80                   | 15.83        | 15.89        |
|               |                | 310°      | 15.80   | 15.84       | 15.77       | 15.81                   | 15.79        | 15.88        |
|               |                | 320°      | 15.81   | 15.76       | 15.76       | 15.86                   | 15.85        | 15.87        |
|               |                | 330°      | 15.75   | 15.75       | 15.78       | 15.88                   | 15.83        | 15.91        |
|               |                | 340°      | 15.76   | 15.76       | 15.79       | 15.79                   | 15.82        | 15.83        |
|               |                | 350°      | 15.72   | 15.77       | 15.81       | 15.87                   | 15.78        | 15.82        |
|               |                | 360°      | 15.80   | 15.76       | 15.74       | 15.81                   | 15.83        | 15.91        |
| Antenna       | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20)            | 802.11ac(40) | 802.11ac(80) |
|               |                | 201°      | 19.77   | 19.74       | 19.72       | 19.73                   | 19.80        | 19.92        |
|               |                | 210°      | 19.76   | 19.80       | 19.72       | 19.72                   | 19.76        | 19.89        |
|               |                | 220°      | 19.74   | 19.78       | 19.70       | 19.71                   | 19.80        | 19.90        |
|               |                | 230°      | 19.72   | 19.80       | 19.72       | 19.69                   | 19.79        | 19.86        |
|               |                | 240°      | 19.71   | 19.78       | 19.71       | 19.66                   | 19.83        | 19.92        |
|               |                | 250°      | 19.76   | 19.75       | 19.71       | 19.67                   | 19.79        | 19.93        |
|               |                | 260°      | 19.78   | 19.75       | 19.69       | 19.71                   | 19.81        | 19.94        |
| WLAN Main     | 01             | 270°      | 19.70   | 19.78       | 19.77       | 19.69                   | 19.81        | 19.88        |
| (5.6GHz)      | Stand          | 280°      | 19.78   | 19.80       | 19.77       | 19.72                   | 19.84        | 19.90        |
| ` - '         |                | 290°      | 19.74   | 19.72       | 19.77       | 19.73                   | 19.76        | 19.92        |
|               |                | 300°      | 19.72   | 19.71       | 19.68       | 19.64                   | 19.84        | 19.86        |
|               |                | 310°      | 19.78   | 19.74       | 19.75       | 19.67                   | 19.85        | 19.86        |
|               |                | 320°      | 19.76   | 19.72       | 19.77       | 19.65                   | 19.85        | 19.94        |
|               |                | 330°      | 19.74   | 19.75       | 19.71       | 19.68                   | 19.84        | 19.92        |
|               |                | 340°      | 19.72   | 19.71       | 19.76       | 19.68                   | 19.82        | 19.91        |
|               |                | 345°      | 19.76   | 19.76       | 19.75       | 19.72                   | 19.77        | 19.88        |
|               |                |           |         |             |             |                         |              | . 5.55       |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| Antenna   | Operation mode   | Lid angle | 802.11a | 802.11n(20)             | 802.11n(40)             | 802.11ac(20)            | 802.11ac(40)            | 802.11ac(80)            |
|-----------|--|-----------|---------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|           | - протольный протольны | 0°        | n/a     | n/a                     | n/a                     | n/a                     | n/a                     | n/a                     |
|           |  | 10°       | n/a     | n/a                     | n/a                     | n/a                     | n/a                     | n/a                     |
|           | Lid close  | 20°       | n/a     | n/a                     | n/a                     | n/a                     | n/a                     | n/a                     |
|           |  | 30°       | n/a     | n/a                     | n/a                     | n/a                     | n/a                     | n/a                     |
|           |  | 34°       | n/a     | n/a                     | n/a                     | n/a                     | n/a                     | n/a                     |
|           |  | 35°       | 19.86   | 19.85                   | 19.79                   | 19.74                   | 19.87                   | 19.88                   |
|           |  | 40°       | 19.82   | 19.80                   | 19.77                   | 19.78                   | 19.89                   | 19.88                   |
|           |  | 50°       | 19.88   | 19.86                   | 19.86                   | 19.82                   | 19.89                   | 19.96                   |
|           |  | 60°       | 19.90   | 19.87                   | 19.77                   | 19.77                   | 19.93                   | 19.90                   |
|           |  | 70°       | 19.83   | 19.78                   | 19.83                   | 19.80                   | 19.92                   | 19.90                   |
|           | Notebook   | 80°       | 19.83   | 19.78                   | 19.83                   | 19.78                   | 19.86                   | 19.94                   |
|           |  | 90°       | 19.86   | 19.78                   | 19.82                   | 19.80                   | 19.87                   | 19.87                   |
|           |  | 100°      | 19.86   | 19.81                   | 19.85                   | 19.80                   | 19.85                   | 19.90                   |
|           |  | 110°      | 19.86   | 19.85                   | 19.79                   | 19.79                   | 19.86                   | 19.95                   |
|           |  | 120°      | 19.82   | 19.79                   | 19.77                   | 19.79                   | 19.85                   | 19.92                   |
|           |  | 129°      | 19.86   | 19.82                   | 19.83                   | 19.73                   | 19.91                   | 19.88                   |
|           |  | 130°      | 16.38   | 16.26                   | 16.33                   | 16.27                   | 16.23                   | 16.25                   |
|           |  | 140°      | 16.39   | 16.29                   | 16.30                   | 16.33                   | 16.26                   | 16.31                   |
|           |  | 150°      | 16.42   | 16.28                   | 16.28                   | 16.32                   | 16.27                   | 16.30                   |
| WLAN Aux  |  | 160°      | 16.33   | 16.28                   | 16.32                   | 16.33                   | 16.31                   | 16.25                   |
| (5.6GHz)  |  | 170°      | 16.37   | 16.23                   | 16.34                   | 16.28                   | 16.30                   | 16.34                   |
| (010011_) |  | 180°      | 16.36   | 16.27                   | 16.35                   |                         | 16.24                   | 16.26                   |
|           |  | 190°      | 16.41   | 16.26                   | 16.26                   |                         | 16.23                   | 16.28                   |
|           |  | 200°      | 16.38   | 16.26                   | 16.35                   |                         | 16.31                   | 16.32                   |
|           |  | 210°      | 16.42   | 16.28                   | 16.27                   | 6 16.27<br>5 16.35      | 16.22                   | 16.26                   |
|           |  | 220°      | 16.42   | 16.23                   | 16.31                   | 16.27                   | 16.23                   | 16.33                   |
|           |  | 230°      | 16.39   | 16.24                   | 16.28                   | 16.30                   | 16.27                   | 16.33                   |
|           |  | 240°      | 16.34   | 16.27                   | 16.26                   | 16.33                   | 16.24                   | 16.29                   |
|           | Non-Notebook   | 250°      | 16.34   | 16.23                   | 16.34                   | 16.30                   | 16.26                   | 16.27                   |
|           |  | 260°      | 16.37   | 16.24                   | 16.28                   | 16.31                   | 16.25                   | 16.32                   |
|           |  | 270°      | 16.37   | 16.22                   | 16.35                   | 16.32                   | 16.28                   | 16.32                   |
|           |  | 280°      | 16.39   | 16.27                   | 16.26                   | 16.34                   | 16.30                   | 16.31                   |
|           |  | 290°      | 16.38   | 16.21                   | 16.31                   | 16.34                   | 16.24                   | 16.33                   |
|           |  | 300°      | 16.39   | 16.27                   | 16.30                   | 16.29                   | 16.25                   | 16.27                   |
|           |  | 310°      | 16.38   | 16.20                   | 16.34                   | 16.36                   | 16.28                   | 16.34                   |
|           |  | 320°      | 16.37   | 16.21                   | 16.26                   | 16.33                   | 16.25                   | 16.34                   |
|           |  | 330°      | 16.34   | 16.25                   | 16.35                   | 16.33                   | 16.31                   | 16.30                   |
|           |  | 340°      | 16.36   | 16.24                   | 16.34                   | 16.31                   | 16.31                   | 16.25                   |
|           |  | 350°      | 16.39   | 16.26                   | 16.27                   | 16.31                   | 16.31                   | 16.29                   |
|           |  | 360°      | 16.42   | 16.22                   | 16.26                   | 16.30                   | 16.23                   | 16.25                   |
| Antenna   | Operation mode   | Lid angle | 802.11a | 802.11n(20)             | 802.11n(40)             | 802.11ac(20)            | 802.11ac(40)            | 802.11ac(80)            |
| Antenna   | Operation mode   | 201°      | 19.85   | 19.79                   | 19.86                   | 19.76                   | 19.91                   | 19.96                   |
|           |  | 210°      | 19.87   | 19.79                   | 19.83                   | 19.73                   | 19.88                   | 19.95                   |
|           |  | 210°      | 19.85   | 19.86                   | 19.80                   | 19.73                   | 19.00                   | 19.95                   |
|           |  | 230°      | 19.88   | 19.66                   | 19.82                   | 19.81                   | 19.93                   | 19.96                   |
|           |  | 240°      | 19.85   | 19.86                   | 19.79                   | 19.75                   | 19.90                   | 19.95                   |
|           |  | 250°      | 19.83   | 19.81                   | 19.75                   | 19.82                   | 19.92                   | 19.88                   |
|           |  | 260°      | 19.88   | 19.79                   | 19.83                   | 19.81                   | 19.87                   | 19.96                   |
| WLAN Aux  | _  | 270°      | 19.90   | 19.86                   | 19.84                   | 19.73                   | 19.92                   | 19.87                   |
| (5.6GHz)  | Stand  | 280°      | 19.85   | 19.78                   | 19.82                   | 19.77                   | 19.86                   | 19.88                   |
| (0.00112) |  | 290°      | 19.83   | 19.84                   | 19.86                   | 19.78                   | 19.93                   | 19.87                   |
|           |  | 300°      | 19.87   | 19.84                   | 19.85                   | 19.79                   | 19.85                   | 19.88                   |
|           |  | 310°      | 19.87   | 19.84                   | 19.77                   | 19.79                   | 19.85                   | 19.89                   |
| ļ         |  |           |         | 10.07                   | 10.11                   | 10.02                   | 10.00                   | 10.00                   |
|           |  |           |         | 19.83                   | 19.79                   | 19.75                   | 19.93                   | 19.88                   |
|           |  | 320°      | 19.86   | 19.83<br>19.82          | 19.79<br>19.85          | 19.75<br>19.82          | 19.93<br>19.93          | 19.88<br>19.88          |
|           |  |           |         | 19.83<br>19.82<br>19.86 | 19.79<br>19.85<br>19.82 | 19.75<br>19.82<br>19.80 | 19.93<br>19.93<br>19.87 | 19.88<br>19.88<br>19.94 |

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| Antenna   | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20)   | 802.11ac(40) | 802.11ac(80) |
|-----------|----------------|-----------|---------|-------------|-------------|----------------|--------------|--------------|
| Antenna   | operation mode | 0°        | n/a     | n/a         | n/a         | n/a            | n/a          | n/a          |
|           |                | 10°       | n/a     | n/a         | n/a         | n/a            | n/a          | n/a          |
|           | Lid close      | 20°       | n/a     | n/a         | n/a         | n/a            | n/a          | n/a          |
|           |                | 30°       | n/a     | n/a         | n/a         | n/a            | n/a          | n/a          |
|           |                | 34°       | n/a     | n/a         | n/a         | n/a            | n/a          | n/a          |
|           |                | 35°       | 19.93   | 19.79       | 19.85       | 19.88          | 19.82        | 17.40        |
|           |                | 40°       | 19.92   | 19.83       | 19.82       | 19.83          | 19.87        | 17.35        |
|           |                | 50°       | 19.92   | 19.85       | 19.87       | 19.87          | 19.80        | 17.34        |
|           |                | 60°       | 19.88   | 19.80       | 19.79       | 19.90          | 19.87        | 17.36        |
|           |                | 70°       | 19.86   | 19.84       | 19.86       | 19.89          | 19.85        | 17.34        |
|           | Notebook       | 80°       | 19.92   | 19.78       | 19.80       | 19.84          | 19.87        | 17.32        |
|           |                | 90°       | 19.87   | 19.77       | 19.84       | 19.83          | 19.80        | 17.35        |
|           |                | 100°      | 19.94   | 19.77       | 19.80       | 19.87          | 19.87        | 17.32        |
|           |                | 110°      | 19.94   | 19.84       | 19.88       | 19.83          | 19.81        | 17.40        |
|           |                | 120°      | 19.89   | 19.81       | 19.82       | 19.90          | 19.81        | 17.37        |
|           |                | 129°      | 19.88   | 19.82       | 19.85       | 19.86          | 19.80        | 17.33        |
|           |                | 130°      | 15.83   | 15.76       | 15.91       | 15.77          | 15.75        | 15.79        |
|           |                | 140°      | 15.79   | 15.80       | 15.84       | 15.76          | 15.76        | 15.77        |
|           |                | 150°      | 15.83   | 15.74       | 15.92       | 15.77          | 15.77        | 15.86        |
| WLAN Main |                | 160°      | 15.77   | 15.76       | 15.87       | 15.76          | 15.78        | 15.83        |
| (5.8GHz)  |                | 170°      | 15.79   | 15.76       | 15.85       | 15.72          | 15.81        | 15.77        |
|           |                | 180°      | 15.82   | 15.73       | 15.92       | 15.74          | 15.75        | 15.80        |
|           |                | 190°      | 15.82   | 15.80       | 15.93       | 15.77          | 15.72        | 15.83        |
|           |                | 200°      | 15.78   | 15.75       | 15.92       |                | 15.75        | 15.82        |
|           |                | 210°      | 15.82   | 15.72       | 15.84       | 15.78<br>15.79 | 15.78        | 15.82        |
|           |                | 220°      | 15.83   | 15.71       | 15.92       | 15.77          | 15.73        | 15.77        |
|           |                | 230°      | 15.80   | 15.71       | 15.84       | 15.79          | 15.74        | 15.84        |
|           | Non-Notebook   | 240°      | 15.79   | 15.76       | 15.93       | 15.76          | 15.72        | 15.81        |
|           | NOTHINGLEDOOK  | 250°      | 15.77   | 15.76       | 15.89       | 15.73          | 15.73        | 15.78        |
|           |                | 260°      | 15.76   | 15.73       | 15.89       | 15.73          | 15.78        | 15.85        |
|           |                | 270°      | 15.78   | 15.74       | 15.93       | 15.81          | 15.79        | 15.79        |
|           |                | 280°      | 15.79   | 15.75       | 15.84       | 15.76          | 15.74        | 15.81        |
|           |                | 290°      | 15.82   | 15.75       | 15.84       | 15.80          | 15.72        | 15.82        |
|           |                | 300°      | 15.77   | 15.74       | 15.84       | 15.77          | 15.80        | 15.85        |
|           |                | 310°      | 15.80   | 15.77       | 15.84       | 15.74          | 15.73        | 15.85        |
|           |                | 320°      | 15.77   | 15.78       | 15.86       | 15.72          | 15.80        | 15.84        |
|           |                | 330°      | 15.74   | 15.80       | 15.86       | 15.77          | 15.78        | 15.85        |
|           |                | 340°      | 15.77   | 15.79       | 15.84       | 15.75          | 15.74        | 15.82        |
|           |                | 350°      | 15.76   | 15.78       | 15.85       | 15.72          | 15.80        | 15.79        |
|           |                | 360°      | 15.79   | 15.80       | 15.87       | 15.74          | 15.72        | 15.86        |
| Antenna   | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20)   | 802.11ac(40) | 802.11ac(80) |
|           |                | 201°      | 19.85   | 19.86       | 19.88       | 19.82          | 19.83        | 17.31        |
|           |                | 210°      | 19.85   | 19.86       | 19.87       | 19.82          | 19.82        | 17.38        |
|           |                | 220°      | 19.92   | 19.83       | 19.87       | 19.89          | 19.79        | 17.40        |
|           |                | 230°      | 19.85   | 19.81       | 19.80       | 19.84          | 19.78        | 17.32        |
|           |                | 240°      | 19.87   | 19.80       | 19.82       | 19.82          | 19.79        | 17.38        |
|           |                | 250°      | 19.86   | 19.80       | 19.79       | 19.81          | 19.83        | 17.39        |
| l l       |                | 260°      | 19.91   | 19.82       | 19.87       | 19.87          | 19.82        | 17.39        |
| WLAN Main | Stand          | 270°      | 19.91   | 19.84       | 19.79       | 19.81          | 19.87        | 17.37        |
| (5.8GHz)  |                | 280°      | 19.93   | 19.81       | 19.79       | 19.84          | 19.85        | 17.33        |
|           |                | 290°      | 19.91   | 19.79       | 19.84       | 19.82          | 19.78        | 17.32        |
|           |                | 300°      | 19.88   | 19.77       | 19.82       | 19.90          | 19.83        | 17.32        |
|           |                | 310°      | 19.85   | 19.80       | 19.85       | 19.87          | 19.79        | 17.32        |
|           |                | 320°      | 19.94   | 19.82       | 19.86       | 19.89          | 19.86        | 17.35        |
|           |                | 330°      | 19.90   | 19.86       | 19.81       | 19.88          | 19.78        | 17.38        |
|           |                | 340°      | 19.90   | 19.85       | 19.80       | 19.83          | 19.78        | 17.34        |
|           |                | 345°      | 19.90   | 19.86       | 19.83       | 19.82          | 19.78        | 17.36        |

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| Antenna    | Operation mode                        | Lid angle | 802.11a | 802.11n(20) | 802.11n(40)    | 802.11ac(20) | 802.11ac(40)   | 802.11ac(80) |
|------------|---------------------------------------|-----------|---------|-------------|----------------|--------------|----------------|--------------|
|            | 0   0   0   0   0   0   0   0   0   0 | 0°        | n/a     | n/a         | n/a            | n/a          | n/a            | n/a          |
|            |                                       | 10°       | n/a     | n/a         | n/a            | n/a          | n/a            | n/a          |
|            | Lid close                             | 20°       | n/a     | n/a         | n/a            | n/a          | n/a            | n/a          |
|            | 2.0 0.000                             | 30°       | n/a     | n/a         | n/a            | n/a          | n/a            | n/a          |
|            |                                       | 34°       | n/a     | n/a         | n/a            | n/a          | n/a            | n/a          |
|            |                                       | 35°       | 19.87   | 19.90       | 19.83          | 19.87        | 19.80          | 17.33        |
|            |                                       | 40°       | 19.83   |             | 19.81          | 19.91        |                | 17.38        |
|            |                                       |           |         | 19.86       |                |              | 19.82          |              |
|            |                                       | 50°       | 19.88   | 19.86       | 19.75          | 19.87        | 19.79          | 17.34        |
|            |                                       | 60°       | 19.89   | 19.93       | 19.77<br>19.78 | 19.90        | 19.78<br>19.86 | 17.39        |
|            | Motobook                              | 70°       | 19.92   | 19.91       |                | 19.86        |                | 17.38        |
|            | Notebook                              | 80°       | 19.85   | 19.85       | 19.77          | 19.93        | 19.81          | 17.31        |
|            |                                       | 90°       | 19.83   | 19.92       | 19.79          | 19.94        | 19.79          | 17.39        |
|            |                                       | 100°      | 19.87   | 19.93       | 19.75          | 19.92        | 19.80          | 17.34        |
|            |                                       | 110°      | 19.85   | 19.92       | 19.76          | 19.89        | 19.84          | 17.31        |
|            |                                       | 120°      | 19.92   | 19.88       | 19.78          | 19.94        | 19.86          | 17.40        |
| ]          |                                       | 129°      | 19.83   | 19.93       | 19.80          | 19.89        | 19.82          | 17.32        |
|            |                                       | 130°      | 16.26   | 16.35       | 16.26          | 16.40        | 16.41          | 16.39        |
|            |                                       | 140°      | 16.32   | 16.28       | 16.24          | 16.32        | 16.41          | 16.33        |
|            |                                       | 150°      | 16.32   | 16.36       | 16.21          | 16.36        | 16.43          | 16.38        |
| WLAN Aux   |                                       | 160°      | 16.33   | 16.33       | 16.23          | 16.32        | 16.35          | 16.38        |
| (5.8GHz)   |                                       | 170°      | 16.29   | 16.32       | 16.23          | 16.39        | 16.35          | 16.41        |
|            |                                       | 180°      | 16.31   | 16.30       | 16.28          | 16.33        | 16.36          | 16.34        |
|            |                                       | 190°      | 16.30   | 16.35       | 16.25          | 16.36        | 16.35          | 16.37        |
|            |                                       | 200°      | 16.29   | 16.29       | 16.19          | 16.35        | 16.36          | 16.39        |
|            |                                       | 210°      | 16.35   | 16.34       | 16.21          | 16.32        | 16.37          | 16.34        |
|            |                                       | 220°      | 16.26   | 16.30       | 16.19          | 16.35        | 16.35          | 16.36        |
|            |                                       | 230°      | 16.28   | 16.31       | 16.25          | 16.33        | 16.40          | 16.34        |
|            | Non-Notebook                          | 240°      | 16.30   | 16.36       | 16.24          |              | 16.43          | 16.38        |
|            | NOTI-NOTEDOOK                         | 250°      | 16.28   | 16.34       | 16.28          | 16.37        | 16.43          | 16.42        |
|            |                                       | 260°      | 16.35   | 16.28       | 16.25          | 16.33        | 16.35          | 16.35        |
|            |                                       | 270°      | 16.35   | 16.33       | 16.24          | 16.36        | 16.39          | 16.38        |
|            |                                       | 280°      | 16.32   | 16.32       | 16.26          | 16.35        | 16.44          | 16.34        |
|            |                                       | 290°      | 16.28   | 16.30       | 16.27          | 16.37        | 16.38          | 16.40        |
|            |                                       | 300°      | 16.35   | 16.35       | 16.21          | 16.39        | 16.38          | 16.41        |
|            |                                       | 310°      | 16.27   | 16.31       | 16.19          | 16.32        | 16.39          | 16.33        |
|            |                                       | 320°      | 16.34   | 16.28       | 16.27          | 16.40        | 16.41          | 16.35        |
|            |                                       | 330°      | 16.27   | 16.32       | 16.19          | 16.39        | 16.44          | 16.35        |
|            |                                       | 340°      | 16.34   | 16.33       | 16.26          | 16.36        | 16.35          | 16.40        |
|            |                                       | 350°      | 16.27   | 16.32       | 16.19          | 16.36        | 16.44          | 16.35        |
|            |                                       | 360°      | 16.30   | 16.33       | 16.27          | 16.32        | 16.39          | 16.34        |
| Antenna    | Operation mode                        | Lid angle | 802.11a | 802.11n(20) | 802.11n(40)    | 802.11ac(20) | 802.11ac(40)   | 802.11ac(80) |
| ,Jiiila    | 5 0.0.011111000                       | 201°      | 19.88   | 19.84       | 19.80          | 19.94        | 19.84          | 17.36        |
|            |                                       | 210°      | 19.83   | 19.93       | 19.83          | 19.87        | 19.78          | 17.32        |
|            |                                       | 220°      | 19.89   | 19.91       | 19.82          | 19.86        | 19.78          | 17.38        |
|            |                                       | 230°      | 19.88   | 19.93       | 19.75          | 19.87        | 19.86          | 17.39        |
|            |                                       | 240°      | 19.89   | 19.92       | 19.83          | 19.87        | 19.85          | 17.32        |
|            |                                       | 250°      | 19.91   | 19.87       | 19.82          | 19.86        | 19.83          | 17.40        |
|            |                                       | 260°      | 19.86   | 19.90       | 19.82          | 19.85        | 19.86          | 17.31        |
| WLAN Aux   | _                                     | 270°      | 19.89   | 19.85       | 19.75          | 19.89        | 19.78          | 17.36        |
| (5.8GHz)   | Stand                                 | 280°      | 19.86   | 19.90       | 19.83          | 19.86        | 19.83          | 17.31        |
| (5.5 5.12) |                                       | 290°      | 19.83   | 19.85       | 19.82          | 19.92        | 19.79          | 17.38        |
|            |                                       | 300°      | 19.87   | 19.85       | 19.80          | 19.94        | 19.77          | 17.34        |
|            |                                       | 310°      | 19.83   | 19.90       | 19.80          | 19.87        | 19.80          | 17.32        |
|            |                                       | 320°      | 19.88   | 19.92       | 19.75          | 19.87        | 19.77          | 17.40        |
|            |                                       | 330°      | 19.87   | 19.85       | 19.80          | 19.91        | 19.85          | 17.36        |
|            |                                       | 340°      | 19.83   | 19.84       | 19.75          | 19.94        | 19.78          | 17.31        |
|            |                                       | 345°      | 19.92   | 19.87       | 19.82          | 19.85        | 19.83          | 17.32        |
|            |                                       | U-10      | 10.02   | 13.01       | 13.02          | 13.00        | 13.00          | 17.02        |

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| Antenna               | Operation mode | Lid angle | WCDMA | HSDPA | HSPA  | HSPA+ | DC-HSDPA |
|-----------------------|----------------|-----------|-------|-------|-------|-------|----------|
|                       |                | 0°        | n/a   | n/a   | n/a   | n/a   | n/a      |
|                       |                | 10°       | n/a   | n/a   | n/a   | n/a   | n/a      |
|                       | Lid close      | 20°       | n/a   | n/a   | n/a   | n/a   | n/a      |
|                       |                | 30°       | n/a   | n/a   | n/a   | n/a   | n/a      |
|                       |                | 34°       | n/a   | n/a   | n/a   | n/a   | n/a      |
|                       |                | 35°       | 23.62 | 23.50 | 23.48 | 22.43 | 23.53    |
|                       |                | 40°       | 23.61 | 23.42 | 23.40 | 22.61 | 23.54    |
|                       |                | 50°       | 23.60 | 23.41 | 23.46 | 22.45 | 23.42    |
|                       |                | 60°       | 23.56 | 23.49 | 23.45 | 22.49 | 23.50    |
|                       |                | 70°       | 23.61 | 23.50 | 23.42 | 22.61 | 23.53    |
|                       | Notebook       | 80°       | 23.58 | 23.42 | 23.48 | 22.47 | 23.48    |
|                       |                | 90°       | 23.53 | 23.41 | 23.48 | 22.57 | 23.56    |
|                       |                | 100°      | 23.54 | 23.46 | 23.47 | 22.51 | 23.52    |
|                       |                | 110°      | 23.62 | 23.43 | 23.44 | 22.57 | 23.50    |
|                       |                | 120°      | 23.60 | 23.50 | 23.40 | 22.52 | 23.57    |
|                       |                | 129°      | 23.56 | 23.47 | 23.46 | 22.44 | 23.51    |
|                       |                | 130°      | 17.35 | 17.22 | 17.23 | 17.22 | 17.15    |
|                       | 4              | 140°      | 17.34 | 17.28 | 17.20 | 17.28 | 17.13    |
|                       |                | 150°      | 17.40 | 17.22 | 17.25 | 17.15 | 17.13    |
| WWAN TX<br>WCDMA Band |                | 160°      | 17.33 | 17.28 | 17.25 | 17.33 | 17.13    |
| II)                   |                | 170°      | 17.41 | 17.25 | 17.23 | 17.18 | 17.24    |
| 11)                   |                | 180°      | 17.33 | 17.25 | 17.25 | 17.24 | 17.09    |
|                       |                | 190°      | 17.33 | 17.19 | 17.19 | 17.33 | 17.08    |
|                       |                | 200°      | 17.32 | 17.19 | 17.24 | 17.18 | 17.18    |
|                       |                | 210°      | 17.33 | 17.22 | 17.24 | 17.22 | 17.12    |
|                       |                | 220°      | 17.32 | 17.26 | 17.18 | 17.23 | 17.20    |
|                       |                | 230°      | 17.33 | 17.27 | 17.22 | 17.29 | 17.22    |
|                       |                | 240°      | 17.34 | 17.20 | 17.18 | 17.20 | 17.16    |
|                       | Non-Notebook   | 250°      | 17.35 | 17.23 | 17.26 | 17.26 | 17.11    |
|                       |                | 260°      | 17.33 | 17.28 | 17.23 | 17.18 | 17.19    |
|                       |                | 270°      | 17.33 | 17.26 | 17.26 | 17.16 | 17.13    |
|                       |                | 280°      | 17.39 | 17.27 | 17.22 | 17.21 | 17.19    |
|                       |                | 290°      | 17.36 | 17.21 | 17.17 | 17.32 | 17.24    |
|                       |                | 300°      | 17.38 | 17.20 | 17.22 | 17.30 | 17.22    |
|                       |                | 310°      | 17.34 | 17.28 | 17.23 | 17.27 | 17.19    |
|                       |                | 320°      | 17.33 | 17.23 | 17.25 | 17.29 | 17.10    |
|                       |                | 330°      | 17.39 | 17.24 | 17.22 | 17.28 | 17.22    |
|                       |                | 340°      | 17.35 | 17.19 | 17.22 | 17.28 | 17.24    |
|                       |                | 350°      | 17.39 | 17.24 | 17.23 | 17.23 | 17.17    |
|                       |                | 360°      | 17.41 | 17.28 | 17.17 | 17.32 | 17.08    |

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| Antenna                | Operation mode | Lid angle | WCDMA | HSDPA | HSPA  | HSPA+ | DC-HSDPA |
|------------------------|----------------|-----------|-------|-------|-------|-------|----------|
|                        |                | 201°      | 23.64 | 23.52 | 23.50 | 22.54 | 23.55    |
|                        |                | 210°      | 23.59 | 23.45 | 23.44 | 22.58 | 23.57    |
|                        |                | 220°      | 23.62 | 23.47 | 23.39 | 22.54 | 23.40    |
|                        |                | 230°      | 23.55 | 23.47 | 23.47 | 22.48 | 23.51    |
|                        |                | 240°      | 23.61 | 23.49 | 23.43 | 22.51 | 23.41    |
|                        |                | 250°      | 23.58 | 23.50 | 23.41 | 22.51 | 23.48    |
|                        |                | 260°      | 23.62 | 23.50 | 23.46 | 22.53 | 23.42    |
| WWAN TX<br>(WCDMA Band | Stand          | 270°      | 23.53 | 23.44 | 23.44 | 22.44 | 23.39    |
| II)                    | Staria         | 280°      | 23.61 | 23.41 | 23.40 | 22.62 | 23.41    |
| ,                      |                | 290°      | 23.54 | 23.42 | 23.48 | 22.55 | 23.50    |
|                        |                | 300°      | 23.53 | 23.46 | 23.39 | 22.44 | 23.38    |
|                        |                | 310°      | 23.55 | 23.49 | 23.47 | 22.59 | 23.41    |
|                        |                | 320°      | 23.60 | 23.43 | 23.46 | 22.57 | 23.48    |
|                        |                | 330°      | 23.55 | 23.49 | 23.45 | 22.50 | 23.50    |
|                        |                | 340°      | 23.58 | 23.48 | 23.45 | 22.62 | 23.38    |
|                        |                | 345°      | 23.54 | 23.43 | 23.46 | 22.49 | 23.57    |

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| Antenna           | Operation mode | Lid angle | WCDMA | HSDPA | HSPA  | HSPA+ | DC-HSDPA |
|-------------------|----------------|-----------|-------|-------|-------|-------|----------|
|                   |                | 0°        | n/a   | n/a   | n/a   | n/a   | n/a      |
|                   |                | 10°       | n/a   | n/a   | n/a   | n/a   | n/a      |
|                   | Lid close      | 20°       | n/a   | n/a   | n/a   | n/a   | n/a      |
|                   |                | 30°       | n/a   | n/a   | n/a   | n/a   | n/a      |
|                   |                | 34°       | n/a   | n/a   | n/a   | n/a   | n/a      |
|                   |                | 35°       | 23.52 | 23.42 | 23.40 | 22.31 | 23.21    |
|                   |                | 40°       | 23.43 | 23.38 | 23.38 | 22.25 | 23.38    |
|                   |                | 50°       | 23.49 | 23.41 | 23.38 | 22.25 | 23.21    |
|                   |                | 60°       | 23.48 | 23.41 | 23.40 | 22.36 | 23.26    |
|                   |                | 70°       | 23.44 | 23.35 | 23.39 | 22.23 | 23.25    |
|                   | Notebook       | 80°       | 23.46 | 23.34 | 23.31 | 22.36 | 23.29    |
|                   |                | 90°       | 23.50 | 23.39 | 23.34 | 22.27 | 23.30    |
|                   |                | 100°      | 23.47 | 23.37 | 23.35 | 22.39 | 23.29    |
|                   |                | 110°      | 23.43 | 23.34 | 23.33 | 22.34 | 23.24    |
|                   |                | 120°      | 23.47 | 23.33 | 23.34 | 22.38 | 23.28    |
|                   |                | 129°      | 23.48 | 23.41 | 23.39 | 22.39 | 23.27    |
|                   |                | 130°      | 18.28 | 18.14 | 18.10 | 18.01 | 18.04    |
|                   |                | 140°      | 18.22 | 18.15 | 18.08 | 18.04 | 18.06    |
|                   |                | 150°      | 18.27 | 18.10 | 18.13 | 18.06 | 18.02    |
| WWAN TX           |                | 160°      | 18.26 | 18.13 | 18.14 | 18.04 | 18.08    |
| WCDMA Band<br>IV) |                | 170°      | 18.26 | 18.15 | 18.14 | 18.19 | 17.94    |
| ,                 |                | 180°      | 18.26 | 18.17 | 18.06 | 18.12 | 17.95    |
|                   |                | 190°      | 18.24 | 18.10 | 18.11 | 18.19 | 18.03    |
|                   |                | 200°      | 18.27 | 18.18 | 18.06 | 18.11 | 17.96    |
|                   |                | 210°      | 18.25 | 18.14 | 18.09 | 18.01 | 17.96    |
|                   |                | 220°      | 18.26 | 18.12 | 18.14 | 18.03 | 17.95    |
|                   |                | 230°      | 18.25 | 18.15 | 18.07 | 18.13 | 18.00    |
|                   | Nam Natalanak  | 240°      | 18.21 | 18.17 | 18.13 | 18.18 | 18.07    |
|                   | Non-Notebook   | 250°      | 18.23 | 18.15 | 18.08 | 18.04 | 18.04    |
|                   |                | 260°      | 18.23 | 18.17 | 18.08 | 18.14 | 18.08    |
|                   |                | 270°      | 18.29 | 18.16 | 18.06 | 18.02 | 18.10    |
|                   |                | 280°      | 18.29 | 18.12 | 18.12 | 18.05 | 18.09    |
|                   |                | 290°      | 18.24 | 18.16 | 18.07 | 18.09 | 18.13    |
|                   |                | 300°      | 18.21 | 18.16 | 18.10 | 18.07 | 17.94    |
|                   |                | 310°      | 18.27 | 18.12 | 18.07 | 18.14 | 18.11    |
|                   |                | 320°      | 18.26 | 18.14 | 18.10 | 18.02 | 18.09    |
|                   |                | 330°      | 18.24 | 18.09 | 18.07 | 18.07 | 18.04    |
|                   |                | 340°      | 18.28 | 18.12 | 18.06 | 18.15 | 18.08    |
|                   |                | 350°      | 18.30 | 18.11 | 18.12 | 18.15 | 18.12    |
|                   |                | 360°      | 18.29 | 18.17 | 18.06 | 18.02 | 17.95    |

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| Antenna                | Operation mode | Lid angle   | WCDMA | HSDPA | HSPA  | HSPA+ | DC-HSDPA |       |       |       |       |       |       |       |       |
|------------------------|----------------|-------------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|
|                        |                | 201°        | 23.50 | 23.40 | 23.37 | 22.40 | 23.39    |       |       |       |       |       |       |       |       |
|                        |                | 210°        | 23.46 | 23.33 | 23.35 | 22.29 | 23.28    |       |       |       |       |       |       |       |       |
|                        |                | 220°        | 23.44 | 23.40 | 23.36 | 22.36 | 23.30    |       |       |       |       |       |       |       |       |
|                        |                | 230°        | 23.45 | 23.40 | 23.37 | 22.31 | 23.29    |       |       |       |       |       |       |       |       |
|                        |                | 240°        | 23.43 | 23.34 | 23.31 | 22.25 | 23.24    |       |       |       |       |       |       |       |       |
|                        |                | 250°        | 23.46 | 23.38 | 23.36 | 22.22 | 23.33    |       |       |       |       |       |       |       |       |
|                        |                | 260°        | 23.46 | 23.34 | 23.31 | 22.28 | 23.37    |       |       |       |       |       |       |       |       |
| WWAN TX<br>(WCDMA Band | Stand          | 270°        | 23.46 | 23.42 | 23.31 | 22.28 | 23.35    |       |       |       |       |       |       |       |       |
| IV)                    | Staria         | 280°        | 23.49 | 23.41 | 23.38 | 22.26 | 23.35    |       |       |       |       |       |       |       |       |
| ,                      |                | 290°        | 23.43 | 23.34 | 23.39 | 22.41 | 23.38    |       |       |       |       |       |       |       |       |
|                        |                | -<br>-<br>- | 300°  | 23.47 | 23.37 | 23.40 | 22.25    | 23.24 |       |       |       |       |       |       |       |
|                        |                |             |       | 310°  | 23.46 | 23.37 | 23.33    | 22.26 | 23.32 |       |       |       |       |       |       |
|                        |                |             |       |       |       |       |          |       |       | 320°  | 23.51 | 23.35 | 23.40 | 22.41 | 23.31 |
|                        |                |             |       |       | 330°  | 23.46 | 23.37    | 23.31 | 22.33 | 23.23 |       |       |       |       |       |
|                        |                |             | 340°  | 23.43 | 23.41 | 23.32 | 22.39    | 23.21 |       |       |       |       |       |       |       |
|                        |                | 345°        | 23.49 | 23.33 | 23.38 | 22.30 | 23.27    |       |       |       |       |       |       |       |       |

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| Antenna                | Operation mode   | Lid angle | WCDMA | HSDPA | HSPA  | HSPA+ | DC-HSDPA |
|------------------------|------------------|-----------|-------|-------|-------|-------|----------|
|                        |                  | 0°        | n/a   | n/a   | n/a   | n/a   | n/a      |
|                        |                  | 10°       | n/a   | n/a   | n/a   | n/a   | n/a      |
|                        | Lid close        | 20°       | n/a   | n/a   | n/a   | n/a   | n/a      |
|                        |                  | 30°       | n/a   | n/a   | n/a   | n/a   | n/a      |
|                        |                  | 34°       | n/a   | n/a   | n/a   | n/a   | n/a      |
|                        |                  | 35°       | 24.3  | 24.18 | 24.16 | 23.57 | 24.16    |
|                        |                  | 40°       | 24.26 | 24.15 | 24.07 | 23.54 | 24.08    |
|                        |                  | 50°       | 24.22 | 24.13 | 24.15 | 23.64 | 24.18    |
|                        |                  | 60°       | 24.22 | 24.11 | 24.11 | 23.62 | 24.09    |
|                        |                  | 70°       | 24.3  | 24.15 | 24.14 | 23.52 | 24.21    |
|                        | Notebook         | 80°       | 24.26 | 24.15 | 24.13 | 23.52 | 24.22    |
|                        |                  | 90°       | 24.3  | 24.18 | 24.15 | 23.56 | 24.20    |
|                        |                  | 100°      | 24.27 | 24.1  | 24.15 | 23.60 | 24.15    |
|                        |                  | 110°      | 24.22 | 24.17 | 24.11 | 23.66 | 24.07    |
|                        |                  | 120°      | 24.23 | 24.13 | 24.14 | 23.60 | 24.19    |
|                        |                  | 129°      | 24.27 | 24.18 | 24.07 | 23.52 | 24.21    |
|                        |                  | 130°      | 22.25 | 22.14 | 22.1  | 22.18 | 21.99    |
|                        |                  | 140°      | 22.18 | 22.09 | 22.07 | 22.16 | 21.89    |
|                        |                  | 150°      | 22.21 | 22.1  | 22.08 | 22.18 | 21.90    |
| WWAN TX<br>(WCDMA Band |                  | 160°      | 22.19 | 22.1  | 22.02 | 22.14 | 21.91    |
| V)                     |                  | 170°      | 22.15 | 22.08 | 22.09 | 22.19 | 21.97    |
|                        |                  | 180°      | 22.21 | 22.12 | 22.08 | 22.09 | 21.94    |
|                        |                  | 190°      | 22.23 | 22.06 | 22.07 | 22.22 | 22.06    |
|                        |                  | 200°      | 22.17 | 22.05 | 22.07 | 22.20 | 21.92    |
|                        |                  | 210°      | 22.16 | 22.07 | 22    | 22.20 | 21.91    |
|                        |                  | 220°      | 22.19 | 22.09 | 22.04 | 22.18 | 21.88    |
|                        |                  | 230°      | 22.23 | 22.09 | 22.05 | 22.19 | 22.07    |
|                        | Non-Notebook     | 240°      | 22.17 | 22.07 | 22.03 | 22.17 | 21.89    |
|                        | TVOIT TVOICEDOOK | 250°      | 22.17 | 22.07 | 22.06 | 22.21 | 21.90    |
|                        |                  | 260°      | 22.14 | 22.07 | 22.02 | 22.11 | 21.94    |
|                        |                  | 270°      | 22.19 | 22.03 | 22.03 | 22.16 | 21.95    |
|                        |                  | 280°      | 22.2  | 22.04 | 22.01 | 22.19 | 21.90    |
|                        |                  | 290°      | 22.22 | 22.1  | 22.03 | 22.18 | 22.06    |
|                        |                  | 300°      | 22.18 | 22.06 | 22.05 | 22.04 | 21.98    |
|                        |                  | 310°      | 22.14 | 22.09 | 22.09 | 22.06 | 21.91    |
|                        |                  | 320°      | 22.17 | 22.03 | 22.07 | 22.12 | 21.91    |
|                        |                  | 330°      | 22.17 | 22.06 | 22.08 | 22.20 | 22.02    |
|                        |                  | 340°      | 22.19 | 22.07 | 22.02 | 22.17 | 21.94    |
|                        |                  | 350°      | 22.15 | 22.03 | 22.07 | 22.14 | 21.88    |
|                        |                  | 360°      | 22.23 | 22.03 | 22.09 | 22.17 | 21.94    |

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| Antenna                | Operation mode | Lid angle | WCDMA | HSDPA | HSPA  | HSPA+ | DC-HSDPA |       |       |       |  |  |      |       |       |       |       |       |
|------------------------|----------------|-----------|-------|-------|-------|-------|----------|-------|-------|-------|--|--|------|-------|-------|-------|-------|-------|
|                        |                | 201°      | 24.31 | 24.2  | 24.18 | 23.52 | 24.09    |       |       |       |  |  |      |       |       |       |       |       |
|                        |                | 210°      | 24.29 | 24.12 | 24.08 | 23.58 | 24.17    |       |       |       |  |  |      |       |       |       |       |       |
|                        |                | 220°      | 24.22 | 24.14 | 24.07 | 23.65 | 24.23    |       |       |       |  |  |      |       |       |       |       |       |
|                        |                | 230°      | 24.24 | 24.1  | 24.12 | 23.55 | 24.15    |       |       |       |  |  |      |       |       |       |       |       |
|                        |                | 240°      | 24.21 | 24.12 | 24.16 | 23.59 | 24.15    |       |       |       |  |  |      |       |       |       |       |       |
|                        |                | 250°      | 24.25 | 24.13 | 24.13 | 23.61 | 24.07    |       |       |       |  |  |      |       |       |       |       |       |
|                        |                | 260°      | 24.29 | 24.12 | 24.1  | 23.51 | 24.25    |       |       |       |  |  |      |       |       |       |       |       |
| WWAN TX<br>(WCDMA Band | Stand          | 270°      | 24.27 | 24.1  | 24.16 | 23.69 | 24.14    |       |       |       |  |  |      |       |       |       |       |       |
| V)                     | Staria         | 280°      | 24.26 | 24.14 | 24.13 | 23.51 | 24.24    |       |       |       |  |  |      |       |       |       |       |       |
| ,                      |                | 290°      | 24.23 | 24.14 | 24.09 | 23.64 | 24.13    |       |       |       |  |  |      |       |       |       |       |       |
|                        |                |           |       |       | 300°  | 24.22 | 24.18    | 24.13 | 23.66 | 24.19 |  |  |      |       |       |       |       |       |
|                        |                | 310°      | 24.3  | 24.12 | 24.13 | 23.59 | 24.07    |       |       |       |  |  |      |       |       |       |       |       |
|                        |                | -         |       |       |       |       |          |       |       |       |  |  | 320° | 24.26 | 24.18 | 24.11 | 23.64 | 24.11 |
|                        |                |           | 330°  | 24.22 | 24.11 | 24.09 | 23.67    | 24.13 |       |       |  |  |      |       |       |       |       |       |
|                        |                | 340°      | 24.23 | 24.1  | 24.12 | 23.61 | 24.20    |       |       |       |  |  |      |       |       |       |       |       |
|                        |                | 345°      | 24.26 | 24.09 | 24.14 | 23.69 | 24.22    |       |       |       |  |  |      |       |       |       |       |       |

|          |                |           | 201   | ИНz   | 151   | ИНz   | 109   | ИНZ   | 5N    | 1Hz   | 3N    | ИНZ   | 1.41  | MHz   |
|----------|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antenna  | Operation mode | Lid angle | QPSK  | 16QAM |
|          |                | 0°        | n/a   |
|          |                | 10°       | n/a   |
|          | Lid close      | 20°       | n/a   |
|          |                | 30°       | n/a   |
|          |                | 34°       | n/a   |
|          |                | 35°       | 22.74 | 22.12 | 23.19 | 22.58 | 23.04 | 22.30 | 23.04 | 22.28 | 23.03 | 22.14 | 23.07 | 22.26 |
|          |                | 40°       | 22.91 | 22.07 | 23.16 | 22.57 | 23.13 | 22.37 | 23.13 | 22.28 | 23.12 | 22.07 | 23.03 | 22.25 |
|          |                | 50°       | 22.83 | 22.12 | 23.03 | 22.57 | 23.11 | 22.38 | 23.05 | 22.37 | 23.04 | 22.22 | 22.90 | 22.18 |
|          |                | 60°       | 22.75 | 22.05 | 23.04 | 22.56 | 23.04 | 22.38 | 22.99 | 22.20 | 23.04 | 22.21 | 23.03 | 22.29 |
|          |                | 70°       | 22.84 | 22.13 | 23.09 | 22.53 | 23.18 | 22.36 | 23.13 | 22.37 | 22.97 | 22.21 | 23.00 | 22.29 |
|          | Notebook       | 80°       | 22.82 | 22.20 | 23.05 | 22.65 | 23.18 | 22.36 | 23.04 | 22.36 | 23.15 | 22.24 | 23.00 | 22.14 |
|          |                | 90°       | 22.90 | 22.22 | 23.17 | 22.53 | 23.05 | 22.29 | 23.07 | 22.22 | 23.10 | 22.23 | 22.93 | 22.21 |
|          |                | 100°      | 22.85 | 22.20 | 23.16 | 22.68 | 23.20 | 22.30 | 23.18 | 22.31 | 22.96 | 22.14 | 23.06 | 22.13 |
|          |                | 110°      | 22.85 | 22.13 | 23.07 | 22.64 | 23.21 | 22.27 | 23.04 | 22.37 | 23.05 | 22.08 | 23.06 | 22.21 |
|          |                | 120°      | 22.89 | 22.22 | 23.10 | 22.59 | 23.03 | 22.36 | 23.18 | 22.22 | 23.08 | 22.07 | 22.90 | 22.18 |
|          |                | 129°      | 22.79 | 22.10 | 23.06 | 22.64 | 23.08 | 22.28 | 23.18 | 22.23 | 23.13 | 22.23 | 23.03 | 22.18 |
|          |                | 130°      | 17.21 | 17.19 | 17.26 | 17.20 | 17.22 | 16.93 | 17.17 | 17.06 | 17.08 | 17.02 | 17.26 | 16.98 |
|          |                | 140°      | 17.14 | 17.16 | 17.13 | 17.04 | 17.21 | 17.08 | 17.15 | 17.02 | 17.10 | 16.97 | 17.20 | 17.08 |
|          |                | 150°      | 17.19 | 17.07 | 17.25 | 17.11 | 17.25 | 16.99 | 17.18 | 17.09 | 17.16 | 16.94 | 17.29 | 16.98 |
| WWAN TX  |                | 160°      | 17.21 | 17.10 | 17.18 | 17.17 | 17.13 | 17.03 | 17.11 | 16.96 | 17.09 | 17.04 | 17.19 | 16.94 |
| (LTE B2) |                | 170°      | 17.28 | 17.23 | 17.12 | 17.06 | 17.16 | 17.05 | 17.11 | 16.96 | 17.05 | 17.02 | 17.18 | 17.09 |
|          |                | 180°      | 17.15 | 17.18 | 17.27 | 17.19 | 17.23 | 16.94 | 17.13 | 17.05 | 17.14 | 16.93 | 17.28 | 17.05 |
|          |                | 190°      | 17.15 | 17.12 | 17.12 | 17.19 | 17.16 | 16.98 | 17.04 | 16.97 | 17.04 | 17.02 | 17.37 | 17.03 |
|          |                | 200°      | 17.13 | 17.11 | 17.25 | 17.16 | 17.23 | 17.03 | 17.16 | 17.08 | 17.09 | 17.11 | 17.29 | 16.94 |
|          |                | 210°      | 17.32 | 17.24 | 17.21 | 17.07 | 17.26 | 17.06 | 17.15 | 17.05 | 17.12 | 17.11 | 17.22 | 17.05 |
|          |                | 220°      | 17.22 | 17.20 | 17.22 | 17.06 | 17.19 | 16.94 | 17.14 | 17.10 | 17.02 | 16.97 | 17.36 | 16.98 |
|          |                | 230°      | 17.20 | 17.11 | 17.21 | 17.19 | 17.24 | 16.99 | 17.05 | 17.08 | 17.12 | 16.98 | 17.35 | 17.04 |
|          | Non-Notebook   | 240°      | 17.24 | 17.21 | 17.17 | 17.05 | 17.29 | 17.03 | 17.00 | 16.95 | 17.16 | 17.07 | 17.22 | 17.04 |
|          | THOS HOLDOOK   | 250°      | 17.24 | 17.10 | 17.15 | 17.14 | 17.17 | 16.97 | 17.01 | 17.04 | 17.07 | 16.97 | 17.33 | 17.07 |
|          |                | 260°      | 17.19 | 17.06 | 17.16 | 17.19 | 17.15 | 17.03 | 17.11 | 17.09 | 16.99 | 16.93 | 17.20 | 17.09 |
|          |                | 270°      | 17.14 | 17.08 | 17.16 | 17.16 | 17.13 | 17.02 | 17.10 | 17.09 | 17.12 | 17.11 | 17.19 | 16.98 |
|          |                | 280°      | 17.20 | 17.11 | 17.09 | 17.08 | 17.18 | 17.11 | 17.16 | 16.92 | 17.15 | 17.03 | 17.29 | 17.02 |
|          |                | 290°      | 17.20 | 17.08 | 17.11 | 17.08 | 17.14 | 17.02 | 17.11 | 16.96 | 17.01 | 17.00 | 17.22 | 16.99 |
|          |                | 300°      | 17.21 | 17.20 | 17.24 | 17.13 | 17.19 | 17.00 | 17.10 | 16.92 | 16.99 | 17.04 | 17.21 | 17.09 |
|          |                | 310°      | 17.29 | 17.06 | 17.20 | 17.04 | 17.20 | 17.11 | 17.10 | 17.08 | 17.03 | 16.92 | 17.36 | 17.10 |
|          |                | 320°      | 17.22 | 17.05 | 17.26 | 17.10 | 17.20 | 17.07 | 17.03 | 17.10 | 17.03 | 16.93 | 17.36 | 16.93 |
|          |                | 330°      | 17.18 | 17.22 | 17.20 | 17.09 | 17.25 | 17.07 | 17.09 | 17.04 | 17.04 | 17.02 | 17.35 | 17.03 |
|          |                | 340°      | 17.20 | 17.10 | 17.27 | 17.08 | 17.17 | 16.92 | 17.18 | 17.02 | 17.07 | 17.05 | 17.21 | 17.01 |
|          |                | 350°      | 17.27 | 17.18 | 17.20 | 17.21 | 17.25 | 17.11 | 17.18 | 17.03 | 17.11 | 16.97 | 17.35 | 17.02 |
|          |                | 360°      | 17.16 | 17.19 | 17.12 | 17.09 | 17.24 | 16.99 | 17.13 | 16.92 | 17.09 | 17.02 | 17.23 | 16.94 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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|                |           | 201   | ИНZ   | 15N   | ИHz   | 108   | ИНz   | 5N    | 1Hz   | 3N    | 1Hz   | 1.4   | MHz   |
|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Operation mode | Lid angle | QPSK  | 16QAM |
|                | 201°      | 22.62 | 22.00 | 23.07 | 22.46 | 22.92 | 22.18 | 22.92 | 22.16 | 22.91 | 22.02 | 22.95 | 22.14 |
|                | 210°      | 22.79 | 21.95 | 23.04 | 22.45 | 23.01 | 22.25 | 23.01 | 22.16 | 23.00 | 21.95 | 22.91 | 22.13 |
|                | 220°      | 22.71 | 22.00 | 22.91 | 22.45 | 22.99 | 22.26 | 22.93 | 22.25 | 22.92 | 22.10 | 22.78 | 22.06 |
|                | 230°      | 22.63 | 21.93 | 22.92 | 22.44 | 22.92 | 22.26 | 22.87 | 22.08 | 22.92 | 22.09 | 22.91 | 22.17 |
|                | 240°      | 22.72 | 22.01 | 22.97 | 22.41 | 23.06 | 22.24 | 23.01 | 22.25 | 22.85 | 22.09 | 22.88 | 22.17 |
|                | 250°      | 22.70 | 22.08 | 22.93 | 22.53 | 23.06 | 22.24 | 22.92 | 22.24 | 23.03 | 22.12 | 22.88 | 22.02 |
|                | 260°      | 22.78 | 22.10 | 23.05 | 22.41 | 22.93 | 22.17 | 22.95 | 22.10 | 22.98 | 22.11 | 22.81 | 22.09 |
| Stand          | 270°      | 22.73 | 22.08 | 23.04 | 22.56 | 23.08 | 22.18 | 23.06 | 22.19 | 22.84 | 22.02 | 22.94 | 22.01 |
| Staria         | 280°      | 22.73 | 22.01 | 22.95 | 22.52 | 23.09 | 22.15 | 22.92 | 22.25 | 22.93 | 21.96 | 22.94 | 22.09 |
|                | 290°      | 22.77 | 22.10 | 22.98 | 22.47 | 22.91 | 22.24 | 23.06 | 22.10 | 22.96 | 21.95 | 22.78 | 22.06 |
|                | 300°      | 22.67 | 21.98 | 22.94 | 22.52 | 22.96 | 22.16 | 23.06 | 22.11 | 23.01 | 22.11 | 22.91 | 22.06 |
|                | 310°      | 22.68 | 22.06 | 23.13 | 22.52 | 22.98 | 22.24 | 22.98 | 22.22 | 22.97 | 22.08 | 23.01 | 22.20 |
|                | 320°      | 22.85 | 22.01 | 23.10 | 22.51 | 23.07 | 22.31 | 23.07 | 22.22 | 23.06 | 22.01 | 22.97 | 22.19 |
|                | 330°      | 22.77 | 22.06 | 22.97 | 22.51 | 23.05 | 22.32 | 22.99 | 22.31 | 22.98 | 22.16 | 22.84 | 22.12 |
|                | 340°      | 22.69 | 21.99 | 22.98 | 22.50 | 22.98 | 22.32 | 22.93 | 22.14 | 22.98 | 22.15 | 22.97 | 22.23 |
|                | 345°      | 22.78 | 22.07 | 23.03 | 22.47 | 23.12 | 22.30 | 23.07 | 22.31 | 22.91 | 22.15 | 22.94 | 22.23 |

|          |                |           | 201   | ИНz   | 15/   | ИHz   | 101   | ИHz   | 5M    | Hz    | 3N    | lHz   | 1.41  | MHz   |
|----------|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antenna  | Operation mode | Lid angle | QPSK  | 16QAM |
|          |                | 0°        | n/a   |
|          |                | 10°       | n/a   |
|          | Lid close      | 20°       | n/a   |
|          |                | 30°       | n/a   |
|          |                | 34°       | n/a   |
|          |                | 35°       | 22.86 | 22.24 | 23.13 | 21.72 | 22.99 | 22.27 | 22.95 | 22.28 | 22.81 | 22.08 | 22.84 | 21.94 |
|          |                | 40°       | 22.87 | 22.14 | 23.23 | 21.66 | 22.87 | 22.13 | 23.00 | 22.27 | 22.92 | 22.18 | 22.80 | 21.83 |
|          |                | 50°       | 22.87 | 22.12 | 23.17 | 21.77 | 23.02 | 22.20 | 22.87 | 22.22 | 22.88 | 22.24 | 22.86 | 21.81 |
|          |                | 60°       | 22.88 | 22.19 | 23.17 | 21.74 | 22.96 | 22.25 | 22.81 | 22.32 | 22.88 | 22.09 | 22.85 | 21.93 |
|          |                | 70°       | 22.93 | 22.11 | 23.16 | 21.67 | 23.01 | 22.29 | 22.86 | 22.25 | 22.75 | 22.23 | 22.84 | 21.81 |
|          | Notebook       | 80°       | 22.88 | 22.18 | 23.20 | 21.66 | 22.91 | 22.23 | 22.98 | 22.26 | 22.83 | 22.11 | 22.71 | 21.91 |
|          |                | 90°       | 22.93 | 22.19 | 23.10 | 21.66 | 23.03 | 22.30 | 22.90 | 22.39 | 22.84 | 22.07 | 22.77 | 21.88 |
|          |                | 100°      | 22.80 | 22.27 | 23.19 | 21.65 | 22.93 | 22.22 | 22.87 | 22.41 | 22.79 | 22.18 | 22.80 | 21.97 |
|          |                | 110°      | 22.85 | 22.09 | 23.22 | 21.80 | 22.94 | 22.30 | 23.00 | 22.38 | 22.83 | 22.07 | 22.87 | 21.92 |
|          |                | 120°      | 22.82 | 22.09 | 23.19 | 21.78 | 23.00 | 22.27 | 22.98 | 22.26 | 22.78 | 22.14 | 22.74 | 21.84 |
|          |                | 129°      | 22.82 | 22.25 | 23.11 | 21.71 | 22.86 | 22.29 | 22.90 | 22.36 | 22.82 | 22.15 | 22.80 | 21.89 |
|          |                | 130°      | 18.10 | 17.57 | 18.23 | 18.10 | 18.03 | 17.93 | 18.03 | 17.86 | 18.18 | 18.02 | 18.07 | 17.81 |
|          |                | 140°      | 18.22 | 17.70 | 18.11 | 17.99 | 18.04 | 17.91 | 17.98 | 17.89 | 18.10 | 18.07 | 17.95 | 17.86 |
|          |                | 150°      | 18.12 | 17.61 | 18.22 | 18.07 | 18.09 | 18.05 | 18.12 | 17.93 | 18.26 | 18.05 | 18.10 | 17.88 |
| WWAN TX  |                | 160°      | 18.08 | 17.71 | 18.14 | 18.08 | 18.04 | 17.96 | 18.05 | 17.84 | 18.12 | 17.94 | 18.10 | 17.80 |
| (LTE B4) |                | 170°      | 18.12 | 17.66 | 18.10 | 18.01 | 18.17 | 18.03 | 18.01 | 17.99 | 18.09 | 18.09 | 18.00 | 17.79 |
|          |                | 180°      | 18.18 | 17.67 | 18.14 | 18.08 | 18.00 | 18.00 | 18.02 | 17.87 | 18.19 | 18.05 | 17.96 | 17.78 |
|          |                | 190°      | 18.17 | 17.67 | 18.27 | 18.12 | 18.15 | 17.97 | 18.00 | 17.89 | 18.12 | 18.07 | 18.10 | 17.74 |
|          |                | 200°      | 18.23 | 17.57 | 18.28 | 18.06 | 18.07 | 17.98 | 18.09 | 17.90 | 18.15 | 17.93 | 18.07 | 17.84 |
|          |                | 210°      | 18.18 | 17.65 | 18.21 | 18.06 | 17.99 | 17.90 | 17.97 | 17.97 | 18.22 | 18.10 | 17.99 | 17.70 |
|          |                | 220°      | 18.11 | 17.52 | 18.10 | 18.18 | 18.02 | 17.91 | 18.04 | 17.95 | 18.15 | 17.93 | 18.04 | 17.75 |
|          |                | 230°      | 18.09 | 17.67 | 18.23 | 18.03 | 17.98 | 17.91 | 18.07 | 17.87 | 18.25 | 18.06 | 18.06 | 17.83 |
|          | Non-Notebook   | 240°      | 18.13 | 17.54 | 18.28 | 18.07 | 18.12 | 17.96 | 18.03 | 17.85 | 18.17 | 18.07 | 18.09 | 17.77 |
|          |                | 250°      | 18.08 | 17.71 | 18.15 | 18.11 | 18.01 | 17.89 | 18.09 | 17.88 | 18.18 | 17.98 | 18.04 | 17.72 |
|          |                | 260°      | 18.21 | 17.60 | 18.27 | 17.99 | 18.04 | 18.05 | 18.08 | 18.00 | 18.27 | 18.08 | 18.01 | 17.84 |
|          |                | 270°      | 18.10 | 17.67 | 18.18 | 18.08 | 18.17 | 18.04 | 18.00 | 17.99 | 18.14 | 18.08 | 17.94 | 17.87 |
|          |                | 280°      | 18.22 | 17.68 | 18.11 | 18.10 | 18.17 | 17.90 | 18.10 | 17.97 | 18.22 | 18.00 | 17.99 | 17.87 |
|          |                | 290°      | 18.08 | 17.65 | 18.09 | 18.17 | 18.15 | 17.97 | 18.07 | 17.90 | 18.09 | 18.03 | 17.94 | 17.74 |
|          |                | 300°      | 18.10 | 17.68 | 18.09 | 18.08 | 18.06 | 18.01 | 17.96 | 17.95 | 18.20 | 17.98 | 18.10 | 17.79 |
|          |                | 310°      | 18.24 | 17.54 | 18.10 | 18.09 | 18.05 | 17.98 | 18.01 | 17.94 | 18.26 | 17.93 | 18.04 | 17.86 |
|          |                | 320°      | 18.10 | 17.68 | 18.24 | 18.08 | 17.98 | 18.02 | 17.97 | 18.01 | 18.21 | 17.94 | 18.06 | 17.89 |
|          |                | 330°      | 18.20 | 17.64 | 18.27 | 18.18 | 17.99 | 17.96 | 17.98 | 17.85 | 18.25 | 18.10 | 18.08 | 17.82 |
|          |                | 340°      | 18.19 | 17.58 | 18.24 | 18.00 | 18.13 | 18.02 | 18.06 | 17.88 | 18.27 | 18.10 | 18.10 | 17.85 |
|          |                | 350°      | 18.21 | 17.61 | 18.11 | 18.00 | 17.98 | 18.02 | 18.04 | 17.91 | 18.10 | 18.11 | 18.10 | 17.78 |
|          |                | 360°      | 18.17 | 17.62 | 18.11 | 18.13 | 18.02 | 17.89 | 18.04 | 17.84 | 18.20 | 18.09 | 17.91 | 17.77 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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|          |                |           | 201   | ИНZ   | 158   | ЛНz   | 100   | ИНz   | 5M    | lHz   | 3N    | lHz   | 1.4   | MHz   |
|----------|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antenna  | Operation mode | Lid angle | QPSK  | 16QAM |
|          |                | 201°      | 22.74 | 22.19 | 23.10 | 21.54 | 22.89 | 22.24 | 22.78 | 22.09 | 22.72 | 22.07 | 22.84 | 21.75 |
|          |                | 210°      | 22.78 | 22.14 | 23.00 | 21.56 | 22.80 | 22.24 | 22.77 | 22.23 | 22.79 | 22.07 | 22.83 | 21.91 |
|          |                | 220°      | 22.69 | 22.20 | 23.09 | 21.60 | 22.95 | 22.12 | 22.83 | 22.19 | 22.71 | 21.98 | 22.79 | 21.85 |
|          |                | 230°      | 22.79 | 22.10 | 23.00 | 21.57 | 22.82 | 22.20 | 22.93 | 22.11 | 22.70 | 21.90 | 22.68 | 21.90 |
|          |                | 240°      | 22.83 | 22.06 | 23.03 | 21.57 | 22.87 | 22.13 | 22.93 | 22.24 | 22.63 | 21.90 | 22.68 | 21.84 |
|          |                | 250°      | 22.82 | 22.23 | 23.07 | 21.59 | 22.94 | 22.18 | 22.78 | 22.16 | 22.68 | 21.92 | 22.67 | 21.76 |
|          |                | 260°      | 22.76 | 22.09 | 22.98 | 21.69 | 22.89 | 22.11 | 22.88 | 22.16 | 22.70 | 22.03 | 22.83 | 21.83 |
| WWAN TX  | Stand          | 270°      | 22.81 | 22.24 | 23.13 | 21.65 | 22.92 | 22.19 | 22.85 | 22.14 | 22.81 | 21.98 | 22.66 | 21.80 |
| (LTE B4) | Staria         | 280°      | 22.67 | 22.19 | 22.98 | 21.61 | 22.96 | 22.15 | 22.80 | 22.09 | 22.63 | 21.96 | 22.72 | 21.78 |
|          |                | 290°      | 22.84 | 22.12 | 22.97 | 21.67 | 22.97 | 22.13 | 22.90 | 22.12 | 22.79 | 22.02 | 22.66 | 21.90 |
|          |                | 300°      | 22.72 | 22.18 | 22.95 | 21.59 | 22.86 | 22.15 | 22.93 | 22.23 | 22.68 | 22.02 | 22.69 | 21.91 |
|          |                | 310°      | 22.80 | 22.21 | 23.11 | 21.54 | 22.97 | 22.14 | 22.85 | 22.13 | 22.64 | 21.96 | 22.71 | 21.86 |
|          |                | 320°      | 22.73 | 22.05 | 22.94 | 21.62 | 22.85 | 22.21 | 22.76 | 22.13 | 22.71 | 22.06 | 22.70 | 21.78 |
|          |                | 330°      | 22.84 | 22.09 | 22.94 | 21.71 | 22.80 | 22.18 | 22.92 | 22.16 | 22.76 | 21.89 | 22.77 | 21.75 |
|          |                | 340°      | 22.72 | 22.24 | 23.02 | 21.59 | 22.86 | 22.11 | 22.94 | 22.24 | 22.77 | 22.08 | 22.74 | 21.90 |
|          |                | 345°      | 22.80 | 22.16 | 23.12 | 21.67 | 22.91 | 22.11 | 22.93 | 22.24 | 22.76 | 22.03 | 22.84 | 21.75 |

|          |                 |           | 101   | ИНz   | 5/\   | 1Hz   | 3N    | lHz   | 1.41  | ИНz   |
|----------|-----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antenna  | Operation mode  | Lid angle | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
|          |                 | 0°        | n/a   |
|          |                 | 10°       | n/a   |
|          | Lid close       | 20°       | n/a   |
|          |                 | 30°       | n/a   |
|          |                 | 34°       | n/a   |
|          |                 | 35°       | 23.43 | 22.56 | 23.55 | 22.40 | 23.48 | 22.67 | 23.58 | 22.76 |
|          |                 | 40°       | 23.54 | 22.55 | 23.59 | 22.29 | 23.51 | 22.71 | 23.59 | 22.84 |
|          |                 | 50°       | 23.48 | 22.68 | 23.50 | 22.35 | 23.47 | 22.73 | 23.46 | 22.84 |
|          |                 | 60°       | 23.49 | 22.64 | 23.43 | 22.40 | 23.48 | 22.62 | 23.46 | 22.77 |
|          |                 | 70°       | 23.42 | 22.68 | 23.54 | 22.35 | 23.53 | 22.63 | 23.61 | 22.81 |
|          | Notebook        | 80°       | 23.44 | 22.67 | 23.56 | 22.29 | 23.42 | 22.75 | 23.54 | 22.79 |
|          |                 | 90°       | 23.43 | 22.61 | 23.46 | 22.44 | 23.49 | 22.75 | 23.51 | 22.74 |
|          |                 | 100°      | 23.60 | 22.63 | 23.57 | 22.29 | 23.45 | 22.62 | 23.56 | 22.77 |
|          |                 | 110°      | 23.55 | 22.56 | 23.44 | 22.39 | 23.51 | 22.62 | 23.51 | 22.72 |
|          |                 | 120°      | 23.53 | 22.53 | 23.55 | 22.38 | 23.48 | 22.69 | 23.60 | 22.74 |
|          |                 | 129°      | 23.41 | 22.57 | 23.44 | 22.39 | 23.44 | 22.66 | 23.51 | 22.79 |
|          |                 | 130°      | 22.20 | 22.06 | 22.05 | 21.89 | 22.31 | 22.30 | 21.98 | 21.86 |
|          |                 | 140°      | 22.16 | 22.05 | 22.08 | 21.80 | 22.19 | 22.28 | 22.15 | 21.86 |
|          |                 | 150°      | 22.21 | 22.06 | 22.13 | 21.86 | 22.33 | 22.36 | 22.05 | 21.84 |
| WWAN TX  |                 | 160°      | 22.26 | 22.07 | 22.23 | 21.86 | 22.33 | 22.27 | 21.97 | 21.86 |
| (LTE B5) |                 | 170°      | 22.22 | 22.10 | 22.14 | 21.74 | 22.29 | 22.23 | 22.12 | 21.96 |
|          |                 | 180°      | 22.23 | 22.18 | 22.16 | 21.86 | 22.23 | 22.19 | 22.09 | 21.87 |
|          |                 | 190°      | 22.15 | 22.06 | 22.23 | 21.80 | 22.29 | 22.17 | 21.97 | 21.83 |
|          |                 | 200°      | 22.26 | 22.12 | 22.22 | 21.79 | 22.32 | 22.34 | 21.96 | 21.97 |
|          |                 | 210°      | 22.21 | 22.02 | 22.10 | 21.90 | 22.33 | 22.33 | 22.08 | 21.93 |
|          |                 | 220°      | 22.23 | 22.13 | 22.13 | 21.75 | 22.36 | 22.19 | 21.99 | 21.99 |
|          |                 | 230°      | 22.31 | 22.05 | 22.22 | 21.73 | 22.21 | 22.24 | 22.06 | 21.96 |
|          | Non-Notebook    | 240°      | 22.31 | 22.14 | 22.13 | 21.91 | 22.21 | 22.18 | 22.12 | 21.88 |
|          | 14011 1401CBOOK | 250°      | 22.22 | 22.05 | 22.12 | 21.90 | 22.18 | 22.17 | 22.05 | 21.92 |
|          |                 | 260°      | 22.34 | 22.06 | 22.13 | 21.87 | 22.22 | 22.35 | 22.04 | 21.95 |
|          |                 | 270°      | 22.25 | 22.07 | 22.06 | 21.74 | 22.27 | 22.30 | 22.07 | 22.02 |
|          |                 | 280°      | 22.24 | 22.16 | 22.06 | 21.77 | 22.32 | 22.20 | 22.00 | 21.99 |
|          |                 | 290°      | 22.24 | 22.04 | 22.14 | 21.85 | 22.26 | 22.20 | 21.99 | 21.94 |
|          |                 | 300°      | 22.21 | 22.02 | 22.12 | 21.81 | 22.24 | 22.27 | 22.06 | 21.89 |
|          |                 | 310°      | 22.31 | 22.06 | 22.04 | 21.77 | 22.37 | 22.26 | 22.03 | 21.86 |
|          |                 | 320°      | 22.30 | 22.16 | 22.15 | 21.90 | 22.26 | 22.36 | 21.99 | 21.91 |
|          |                 | 330°      | 22.16 | 22.09 | 22.17 | 21.84 | 22.35 | 22.21 | 22.10 | 21.96 |
|          |                 | 340°      | 22.17 | 22.00 | 22.17 | 21.92 | 22.35 | 22.32 | 21.97 | 22.02 |
|          |                 | 350°      | 22.23 | 22.16 | 22.07 | 21.86 | 22.26 | 22.28 | 21.97 | 21.96 |
|          |                 | 360°      | 22.32 | 22.15 | 22.12 | 21.90 | 22.18 | 22.24 | 22.05 | 21.90 |

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|          |                |           | 100   | ИНz   | 5N    | 1Hz   | 3N    | 1Hz   | 1.4   | MHz   |
|----------|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antenna  | Operation mode | Lid angle | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
|          |                | 201°      | 23.43 | 22.39 | 23.39 | 22.40 | 23.43 | 22.57 | 23.51 | 22.65 |
|          |                | 210°      | 23.43 | 22.50 | 23.36 | 22.29 | 23.31 | 22.64 | 23.53 | 22.63 |
|          |                | 220°      | 23.24 | 22.43 | 23.44 | 22.40 | 23.44 | 22.49 | 23.49 | 22.72 |
|          |                | 230°      | 23.39 | 22.39 | 23.42 | 22.27 | 23.39 | 22.49 | 23.58 | 22.62 |
|          |                | 240°      | 23.26 | 22.42 | 23.51 | 22.34 | 23.45 | 22.60 | 23.42 | 22.75 |
|          |                | 250°      | 23.24 | 22.46 | 23.37 | 22.24 | 23.33 | 22.48 | 23.45 | 22.71 |
|          |                | 260°      | 23.33 | 22.53 | 23.54 | 22.38 | 23.30 | 22.56 | 23.39 | 22.63 |
| WWAN TX  | Stand          | 270°      | 23.36 | 22.52 | 23.37 | 22.23 | 23.47 | 22.60 | 23.48 | 22.57 |
| (LTE B5) | Sianu          | 280°      | 23.42 | 22.43 | 23.38 | 22.30 | 23.33 | 22.54 | 23.48 | 22.74 |
|          |                | 290°      | 23.37 | 22.55 | 23.43 | 22.33 | 23.43 | 22.54 | 23.41 | 22.59 |
|          |                | 300°      | 23.27 | 22.41 | 23.41 | 22.29 | 23.47 | 22.62 | 23.52 | 22.68 |
|          |                | 310°      | 23.36 | 22.45 | 23.38 | 22.28 | 23.38 | 22.63 | 23.47 | 22.73 |
|          |                | 320°      | 23.36 | 22.45 | 23.36 | 22.29 | 23.45 | 22.54 | 23.45 | 22.57 |
|          |                | 330°      | 23.39 | 22.46 | 23.46 | 22.38 | 23.36 | 22.51 | 23.52 | 22.70 |
|          |                | 340°      | 23.38 | 22.55 | 23.49 | 22.25 | 23.38 | 22.49 | 23.57 | 22.75 |
|          |                | 345°      | 23.25 | 22.42 | 23.51 | 22.38 | 23.30 | 22.48 | 23.55 | 22.65 |

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|          |                |           | 201   | ИНz   | 15    | MHz   | 101   | MHz   | 5/    | ИНz   |
|----------|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antenna  | Operation mode | Lid angle | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
|          |                | 0°        | n/a   |
|          |                | 10°       | n/a   |
|          | Lid close      | 20°       | n/a   |
|          |                | 30°       | n/a   |
|          |                | 34°       | n/a   |
|          |                | 35°       | 22.49 | 21.49 | 22.25 | 21.48 | 22.25 | 21.41 | 22.40 | 21.09 |
|          |                | 40°       | 22.43 | 21.50 | 22.24 | 21.40 | 22.13 | 21.49 | 22.25 | 21.05 |
|          |                | 50°       | 22.50 | 21.46 | 22.08 | 21.56 | 22.28 | 21.33 | 22.30 | 21.05 |
|          |                | 60°       | 22.50 | 21.51 | 22.17 | 21.39 | 22.25 | 21.46 | 22.37 | 20.99 |
|          |                | 70°       | 22.34 | 21.52 | 22.24 | 21.41 | 22.20 | 21.39 | 22.31 | 21.06 |
|          | Notebook       | 80°       | 22.52 | 21.50 | 22.09 | 21.46 | 22.17 | 21.47 | 22.24 | 21.04 |
|          |                | 90°       | 22.38 | 21.61 | 22.19 | 21.46 | 22.29 | 21.48 | 22.26 | 20.98 |
|          |                | 100°      | 22.42 | 21.49 | 22.19 | 21.48 | 22.31 | 21.40 | 22.27 | 20.99 |
|          |                | 110°      | 22.51 | 21.60 | 22.07 | 21.38 | 22.28 | 21.43 | 22.32 | 21.10 |
|          |                | 120°      | 22.44 | 21.45 | 22.09 | 21.51 | 22.18 | 21.41 | 22.39 | 21.01 |
|          |                | 129°      | 22.41 | 21.45 | 22.22 | 21.39 | 22.30 | 21.39 | 22.31 | 21.11 |
|          |                | 130°      | 16.88 | 16.80 | 16.82 | 16.70 | 16.66 | 16.48 | 16.73 | 16.63 |
|          |                | 140°      | 16.89 | 16.79 | 16.88 | 16.74 | 16.66 | 16.62 | 16.73 | 16.67 |
|          |                | 150°      | 16.82 | 16.76 | 16.83 | 16.77 | 16.82 | 16.48 | 16.76 | 16.59 |
| WWAN TX  |                | 160°      | 16.89 | 16.75 | 16.73 | 16.61 | 16.79 | 16.50 | 16.82 | 16.66 |
| (LTE B7) |                | 170°      | 16.96 | 16.77 | 16.87 | 16.69 | 16.81 | 16.56 | 16.71 | 16.62 |
|          |                | 180°      | 16.81 | 16.82 | 16.72 | 16.77 | 16.69 | 16.54 | 16.77 | 16.57 |
|          |                | 190°      | 16.82 | 16.77 | 16.78 | 16.69 | 16.84 | 16.55 | 16.85 | 16.71 |
|          |                | 200°      | 16.95 | 16.84 | 16.88 | 16.71 | 16.78 | 16.62 | 16.85 | 16.70 |
|          |                | 210°      | 17.00 | 16.84 | 16.91 | 16.79 | 16.84 | 16.57 | 16.73 | 16.57 |
|          |                | 220°      | 16.85 | 16.80 | 16.75 | 16.68 | 16.82 | 16.52 | 16.87 | 16.66 |
|          |                | 230°      | 16.88 | 16.76 | 16.87 | 16.79 | 16.81 | 16.48 | 16.88 | 16.63 |
|          | Non-Notebook   | 240°      | 16.88 | 16.88 | 16.84 | 16.66 | 16.71 | 16.65 | 16.75 | 16.74 |
|          | NOII-NOICEOOK  | 250°      | 16.88 | 16.90 | 16.76 | 16.74 | 16.66 | 16.51 | 16.89 | 16.65 |
|          |                | 260°      | 16.95 | 16.89 | 16.88 | 16.79 | 16.82 | 16.63 | 16.84 | 16.73 |
|          |                | 270°      | 16.92 | 16.88 | 16.73 | 16.66 | 16.66 | 16.60 | 16.85 | 16.73 |
|          |                | 280°      | 16.84 | 16.74 | 16.83 | 16.73 | 16.66 | 16.53 | 16.71 | 16.57 |
|          |                | 290°      | 16.97 | 16.73 | 16.83 | 16.71 | 16.82 | 16.62 | 16.70 | 16.62 |
|          |                | 300°      | 17.00 | 16.72 | 16.83 | 16.68 | 16.79 | 16.58 | 16.81 | 16.74 |
|          |                | 310°      | 16.88 | 16.80 | 16.84 | 16.65 | 16.79 | 16.50 | 16.87 | 16.58 |
|          |                | 320°      | 16.95 | 16.75 | 16.72 | 16.72 | 16.72 | 16.50 | 16.71 | 16.64 |
|          |                | 330°      | 16.81 | 16.88 | 16.74 | 16.65 | 16.71 | 16.55 | 16.70 | 16.63 |
|          |                | 340°      | 16.89 | 16.85 | 16.89 | 16.63 | 16.68 | 16.62 | 16.70 | 16.70 |
|          |                | 350°      | 16.94 | 16.90 | 16.75 | 16.67 | 16.81 | 16.56 | 16.80 | 16.73 |
|          |                | 360°      | 16.91 | 16.83 | 16.81 | 16.79 | 16.68 | 16.48 | 16.85 | 16.63 |

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|          |                |           | 201   | ИНZ   | 150   | ЛНz   | 100   | ЛHz   | 5M    | lHz   |
|----------|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antenna  | Operation mode | Lid angle | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
|          |                | 201°      | 22.49 | 21.49 | 22.25 | 21.48 | 22.25 | 21.41 | 22.40 | 21.09 |
|          |                | 210°      | 22.47 | 21.44 | 22.20 | 21.44 | 22.19 | 21.38 | 22.24 | 20.93 |
|          |                | 220°      | 22.40 | 21.47 | 22.07 | 21.30 | 22.21 | 21.35 | 22.40 | 20.93 |
|          |                | 230°      | 22.33 | 21.33 | 22.14 | 21.32 | 22.06 | 21.40 | 22.22 | 20.99 |
|          |                | 240°      | 22.33 | 21.34 | 22.10 | 21.41 | 22.22 | 21.36 | 22.26 | 20.92 |
|          |                | 250°      | 22.42 | 21.37 | 22.12 | 21.37 | 22.20 | 21.34 | 22.27 | 21.06 |
|          |                | 260°      | 22.31 | 21.46 | 22.17 | 21.32 | 22.15 | 21.31 | 22.32 | 21.07 |
| WWAN TX  | Stand          | 270°      | 22.46 | 21.43 | 22.08 | 21.35 | 22.11 | 21.41 | 22.37 | 21.09 |
| (LTE B7) | Sianu          | 280°      | 22.49 | 21.48 | 22.20 | 21.37 | 22.22 | 21.38 | 22.33 | 21.02 |
|          |                | 290°      | 22.47 | 21.37 | 22.22 | 21.36 | 22.06 | 21.29 | 22.36 | 21.02 |
|          |                | 300°      | 22.39 | 21.45 | 22.12 | 21.37 | 22.16 | 21.31 | 22.31 | 21.02 |
|          |                | 310°      | 22.32 | 21.30 | 22.14 | 21.32 | 22.16 | 21.38 | 22.35 | 20.98 |
|          |                | 320°      | 22.43 | 21.33 | 22.19 | 21.48 | 22.18 | 21.39 | 22.24 | 20.98 |
|          |                | 330°      | 22.48 | 21.49 | 22.19 | 21.32 | 22.25 | 21.32 | 22.22 | 20.90 |
|          |                | 340°      | 22.49 | 21.49 | 22.23 | 21.43 | 22.09 | 21.23 | 22.26 | 20.95 |
|          |                | 345°      | 22.49 | 21.38 | 22.17 | 21.35 | 22.18 | 21.26 | 22.36 | 20.90 |

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|                      |                |           | 10MHz |       | 5MHz  |       | 3MHz  |       | 1.4MHz |       |
|----------------------|----------------|-----------|-------|-------|-------|-------|-------|-------|--------|-------|
| Antenna              | Operation mode | Lid angle | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK   | 16QAM |
|                      | Lid close      | 0°        | n/a    | n/a   |
|                      |                | 10°       | n/a    | n/a   |
|                      |                | 20°       | n/a    | n/a   |
|                      |                | 30°       | n/a    | n/a   |
|                      |                | 34°       | n/a    | n/a   |
|                      | Notebook       | 35°       | 22.44 | 21.75 | 22.65 | 21.55 | 22.25 | 21.74 | 22.29  | 21.71 |
|                      |                | 40°       | 22.52 | 21.81 | 22.60 | 21.51 | 22.34 | 21.78 | 22.43  | 21.79 |
|                      |                | 50°       | 22.54 | 21.81 | 22.62 | 21.64 | 22.31 | 21.69 | 22.38  | 21.72 |
|                      |                | 60°       | 22.44 | 21.74 | 22.53 | 21.68 | 22.36 | 21.71 | 22.34  | 21.79 |
|                      |                | 70°       | 22.42 | 21.70 | 22.52 | 21.59 | 22.38 | 21.66 | 22.37  | 21.73 |
|                      |                | 80°       | 22.51 | 21.79 | 22.67 | 21.51 | 22.23 | 21.78 | 22.44  | 21.76 |
|                      |                | 90°       | 22.58 | 21.75 | 22.52 | 21.52 | 22.40 | 21.62 | 22.46  | 21.68 |
|                      |                | 100°      | 22.45 | 21.76 | 22.55 | 21.54 | 22.35 | 21.69 | 22.41  | 21.66 |
| WWAN TX<br>(LTE B12) |                | 110°      | 22.51 | 21.74 | 22.66 | 21.59 | 22.33 | 21.77 | 22.48  | 21.82 |
|                      |                | 120°      | 22.40 | 21.70 | 22.49 | 21.63 | 22.26 | 21.73 | 22.43  | 21.82 |
|                      |                | 129°      | 22.44 | 21.69 | 22.48 | 21.56 | 22.36 | 21.75 | 22.43  | 21.66 |
|                      | Non-Nolebook   | 130°      | 20.73 | 20.28 | 20.38 | 20.12 | 20.63 | 20.34 | 20.29  | 20.29 |
|                      |                | 140°      | 20.71 | 20.42 | 20.39 | 20.15 | 20.62 | 20.34 | 20.35  | 20.31 |
|                      |                | 150°      | 20.76 | 20.40 | 20.43 | 20.24 | 20.66 | 20.39 | 20.38  | 20.20 |
|                      |                | 160°      | 20.64 | 20.33 | 20.46 | 20.13 | 20.65 | 20.23 | 20.43  | 20.29 |
|                      |                | 170°      | 20.72 | 20.24 | 20.36 | 20.21 | 20.66 | 20.28 | 20.28  | 20.24 |
|                      |                | 180°      | 20.60 | 20.25 | 20.29 | 20.18 | 20.64 | 20.29 | 20.33  | 20.26 |
|                      |                | 190°      | 20.71 | 20.25 | 20.39 | 20.11 | 20.58 | 20.35 | 20.41  | 20.18 |
|                      |                | 200°      | 20.60 | 20.27 | 20.47 | 20.28 | 20.69 | 20.31 | 20.32  | 20.16 |
|                      |                | 210°      | 20.73 | 20.25 | 20.29 | 20.11 | 20.63 | 20.37 | 20.42  | 20.25 |
|                      |                | 220°      | 20.66 | 20.28 | 20.43 | 20.19 | 20.56 | 20.33 | 20.45  | 20.32 |
|                      |                | 230°      | 20.62 | 20.27 | 20.31 | 20.22 | 20.55 | 20.35 | 20.45  | 20.16 |
|                      |                | 240°      | 20.64 | 20.42 | 20.45 | 20.15 | 20.56 | 20.22 | 20.40  | 20.17 |
|                      |                | 250°      | 20.79 | 20.38 | 20.41 | 20.23 | 20.59 | 20.22 | 20.42  | 20.19 |
|                      |                | 260°      | 20.60 | 20.38 | 20.42 | 20.19 | 20.62 | 20.29 | 20.45  | 20.29 |
|                      |                | 270°      | 20.75 | 20.31 | 20.29 | 20.10 | 20.64 | 20.38 | 20.33  | 20.17 |
|                      |                | 280°      | 20.78 | 20.27 | 20.45 | 20.14 | 20.52 | 20.35 | 20.44  | 20.26 |
|                      |                | 290°      | 20.60 | 20.37 | 20.43 | 20.11 | 20.64 | 20.38 | 20.42  | 20.23 |
|                      |                | 300°      | 20.63 | 20.30 | 20.32 | 20.15 | 20.65 | 20.34 | 20.41  | 20.13 |
|                      |                | 310°      | 20.78 | 20.43 | 20.29 | 20.22 | 20.51 | 20.33 | 20.46  | 20.25 |
|                      |                | 320°      | 20.60 | 20.30 | 20.45 | 20.23 | 20.66 | 20.38 | 20.40  | 20.25 |
|                      |                | 330°      | 20.66 | 20.24 | 20.31 | 20.24 | 20.63 | 20.23 | 20.33  | 20.20 |
|                      |                | 340°      | 20.72 | 20.33 | 20.29 | 20.17 | 20.67 | 20.40 | 20.33  | 20.30 |
|                      |                | 350°      | 20.78 | 20.42 | 20.48 | 20.11 | 20.52 | 20.26 | 20.31  | 20.14 |
|                      |                | 360°      | 20.61 | 20.34 | 20.33 | 20.16 | 20.62 | 20.29 | 20.32  | 20.20 |

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| Antenna              | Operation mode | Lid angle | 10MHz |       | 5MHz  |       | 3MHz  |       | 1.4MHz |       |
|----------------------|----------------|-----------|-------|-------|-------|-------|-------|-------|--------|-------|
|                      |                |           | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK   | 16QAM |
| WWAN TX<br>(LTE B12) | Stand          | 201°      | 22.30 | 21.68 | 22.53 | 21.40 | 22.15 | 21.68 | 22.15  | 21.64 |
|                      |                | 210°      | 22.43 | 21.71 | 22.59 | 21.39 | 22.08 | 21.64 | 22.20  | 21.56 |
|                      |                | 220°      | 22.28 | 21.72 | 22.57 | 21.37 | 22.13 | 21.69 | 22.18  | 21.62 |
|                      |                | 230°      | 22.27 | 21.58 | 22.46 | 21.37 | 22.18 | 21.65 | 22.23  | 21.62 |
|                      |                | 240°      | 22.42 | 21.62 | 22.55 | 21.47 | 22.16 | 21.58 | 22.14  | 21.62 |
|                      |                | 250°      | 22.40 | 21.70 | 22.65 | 21.43 | 22.21 | 21.61 | 22.13  | 21.70 |
|                      |                | 260°      | 22.36 | 21.73 | 22.53 | 21.45 | 22.15 | 21.60 | 22.29  | 21.55 |
|                      |                | 270°      | 22.34 | 21.61 | 22.54 | 21.53 | 22.22 | 21.63 | 22.15  | 21.53 |
|                      |                | 280°      | 22.30 | 21.72 | 22.48 | 21.51 | 22.10 | 21.74 | 22.15  | 21.67 |
|                      |                | 290°      | 22.42 | 21.75 | 22.47 | 21.49 | 22.19 | 21.61 | 22.18  | 21.53 |
|                      |                | 300°      | 22.31 | 21.70 | 22.59 | 21.40 | 22.24 | 21.72 | 22.10  | 21.70 |
|                      |                | 310°      | 22.43 | 21.61 | 22.50 | 21.44 | 22.19 | 21.59 | 22.18  | 21.68 |
|                      |                | 320°      | 22.26 | 21.70 | 22.64 | 21.53 | 22.18 | 21.59 | 22.14  | 21.70 |
|                      |                | 330°      | 22.35 | 21.64 | 22.51 | 21.47 | 22.20 | 21.68 | 22.24  | 21.69 |
|                      |                | 340°      | 22.44 | 21.60 | 22.46 | 21.51 | 22.17 | 21.64 | 22.25  | 21.53 |
|                      |                | 345°      | 22.32 | 21.70 | 22.54 | 21.52 | 22.17 | 21.59 | 22.21  | 21.68 |

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|           |                                     |           | 10    | MHz   | 5N    | 1Hz   |       |
|-----------|-------------------------------------|-----------|-------|-------|-------|-------|-------|
| Antenna   | Operation mode                      | Lid angle | QPSK  | 16QAM | QPSK  | 16QAM |       |
|           |                                     | 0°        | n/a   | n/a   | n/a   | n/a   |       |
|           | Operation mode  Lid close  Notebook | 10°       | n/a   | n/a   | n/a   | n/a   |       |
|           | Lid close                           | 20°       | n/a   | n/a   | n/a   | n/a   |       |
|           |                                     | 30°       | n/a   | n/a   | n/a   | n/a   |       |
|           |                                     | 34°       | n/a   | n/a   | n/a   | n/a   |       |
|           |                                     | 35°       | 22.78 | 21.60 | 22.58 | 21.65 |       |
|           |                                     | 40°       | 22.82 | 21.60 | 22.74 | 21.64 |       |
|           |                                     | 50°       | 22.76 | 21.71 | 22.62 | 21.67 |       |
|           |                                     | 60°       | 22.83 | 21.61 | 22.58 | 21.56 |       |
|           |                                     | 70°       | 22.81 | 21.61 | 22.71 | 21.67 |       |
|           | Notebook                            | 80°       | 22.75 | 21.58 | 22.66 | 21.63 |       |
|           |                                     | 90°       | 22.74 | 21.75 | 22.59 | 21.58 |       |
|           |                                     | 100°      | 22.68 | 21.63 | 22.72 | 21.54 |       |
|           |                                     | 110°      | 22.66 | 21.67 | 22.64 | 21.65 |       |
|           |                                     | 120°      | 22.79 | 21.58 | 22.72 | 21.65 |       |
|           |                                     | 129°      | 22.83 | 21.77 | 22.63 | 21.69 |       |
| •         |                                     |           | 130°  | 22.21 | 21.41 | 21.94 | 21.94 |
|           |                                     |           | 140°  | 22.23 | 21.45 | 21.96 | 21.91 |
|           |                                     | 150°      | 22.21 | 21.40 | 21.98 | 21.90 |       |
| WWAN TX   |                                     | 160°      | 22.13 | 21.47 | 22.06 | 22.05 |       |
| (LTE B13) |                                     | 170°      | 22.29 | 21.47 | 22.03 | 21.97 |       |
|           |                                     | 180°      | 22.31 | 21.41 | 21.99 | 22.04 |       |
|           |                                     | 190°      | 22.20 | 21.43 | 22.04 | 22.05 |       |
|           |                                     | 200°      | 22.20 | 21.53 | 21.97 | 21.88 |       |
|           |                                     | 210°      | 22.29 | 21.56 | 22.01 | 21.92 |       |
|           |                                     | 220°      | 22.17 | 21.40 | 22.02 | 21.95 |       |
|           |                                     | 230°      | 22.17 | 21.48 | 21.98 | 21.99 |       |
|           | Nam Natabash                        | 240°      | 22.28 | 21.50 | 22.00 | 21.89 |       |
|           | Non-Notebook                        | 250°      | 22.24 | 21.43 | 22.06 | 22.05 |       |
|           |                                     | 260°      | 22.24 | 21.47 | 22.11 | 22.04 |       |
|           |                                     | 270°      | 22.22 | 21.44 | 21.98 | 21.88 |       |
|           |                                     | 280°      | 22.31 | 21.42 | 22.07 | 21.97 |       |
|           |                                     | 290°      | 22.14 | 21.57 | 21.94 | 21.89 |       |
|           |                                     | 300°      | 22.27 | 21.56 | 21.93 | 21.98 |       |
|           |                                     | 310°      | 22.22 | 21.41 | 22.00 | 22.02 |       |
|           |                                     | 320°      | 22.21 | 21.47 | 22.00 | 21.93 |       |
|           |                                     | 330°      | 22.19 | 21.49 | 21.96 | 22.01 |       |
|           |                                     | 340°      | 22.14 | 21.41 | 22.11 | 22.03 |       |
|           |                                     | 350°      | 22.15 | 21.45 | 21.92 | 21.86 |       |
|           |                                     | 360°      | 22.16 | 21.56 | 21.94 | 21.99 |       |

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|           |                |           | 101   | ЛНz   | 5N    | 1Hz   |       |       |       |
|-----------|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|
| Antenna   | Operation mode | Lid angle | QPSK  | 16QAM | QPSK  | 16QAM |       |       |       |
|           |                | 201°      | 22.78 | 21.60 | 22.58 | 21.65 |       |       |       |
|           |                | 210°      | 22.64 | 21.52 | 22.45 | 21.52 |       |       |       |
|           |                | 220°      | 22.76 | 21.50 | 22.39 | 21.58 |       |       |       |
|           |                | 230°      | 22.62 | 21.60 | 22.41 | 21.54 |       |       |       |
|           |                | 240°      | 22.63 | 21.53 | 22.58 | 21.49 |       |       |       |
|           |                | 250°      | 22.66 | 21.49 | 22.50 | 21.53 |       |       |       |
|           |                | 260°      | 22.74 | 21.48 | 22.53 | 21.60 |       |       |       |
| WWAN TX   | Stand          | 270°      | 22.75 | 21.60 | 22.47 | 21.62 |       |       |       |
| (LTE B13) | Staria         | 280°      | 22.67 | 21.56 | 22.53 | 21.63 |       |       |       |
|           |                | 290°      | 22.67 | 21.45 | 22.53 | 21.55 |       |       |       |
|           |                |           |       |       | 300°  | 22.74 | 21.51 | 22.56 | 21.57 |
|           |                |           | 310°  | 22.61 | 21.44 | 22.50 | 21.55 |       |       |
|           |                | 320°      | 22.68 | 21.48 | 22.50 | 21.63 |       |       |       |
|           |                | 330°      | 22.74 | 21.51 | 22.47 | 21.58 |       |       |       |
|           |                | 340°      | 22.69 | 21.51 | 22.43 | 21.51 |       |       |       |
|           |                | 345°      | 22.78 | 21.45 | 22.46 | 21.51 |       |       |       |

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|           |                |           | 10    | MHz   | 5/\   | ИНZ   |
|-----------|----------------|-----------|-------|-------|-------|-------|
| Antenna   | Operation mode | Lid angle | QPSK  | 16QAM | QPSK  | 16QAM |
|           |                | 0°        | n/a   | n/a   | n/a   | n/a   |
|           |                | 10°       | n/a   | n/a   | n/a   | n/a   |
|           | Lid close      | 20°       | n/a   | n/a   | n/a   | n/a   |
|           |                | 30°       | n/a   | n/a   | n/a   | n/a   |
|           |                | 34°       | n/a   | n/a   | n/a   | n/a   |
|           |                | 35°       | 22.47 | 21.84 | 22.49 | 21.32 |
|           |                | 40°       | 22.46 | 21.91 | 22.40 | 21.28 |
|           |                | 50°       | 22.51 | 21.85 | 22.42 | 21.37 |
|           |                | 60°       | 22.49 | 21.94 | 22.49 | 21.24 |
|           |                | 70°       | 22.48 | 21.84 | 22.48 | 21.30 |
|           | Notebook       | 80°       | 22.45 | 21.81 | 22.49 | 21.21 |
|           |                | 90°       | 22.44 | 21.81 | 22.39 | 21.18 |
|           |                | 100°      | 22.58 | 21.87 | 22.40 | 21.37 |
|           |                | 110°      | 22.57 | 21.89 | 22.42 | 21.36 |
|           |                | 120°      | 22.40 | 21.78 | 22.37 | 21.27 |
|           |                | 129°      | 22.43 | 21.85 | 22.37 | 21.36 |
| ļ         |                | 130°      | 20.84 | 20.65 | 20.69 | 20.58 |
|           |                | 140°      | 20.79 | 20.65 | 20.77 | 20.76 |
|           |                | 150°      | 20.75 | 20.60 | 20.82 | 20.61 |
| WWAN TX   |                | 160°      | 20.77 | 20.49 | 20.66 | 20.70 |
| (LTE B17) |                | 170°      | 20.83 | 20.58 | 20.75 | 20.71 |
|           |                | 180°      | 20.83 | 20.63 | 20.63 | 20.76 |
|           |                | 190°      | 20.70 | 20.62 | 20.81 | 20.65 |
|           |                | 200°      | 20.82 | 20.64 | 20.80 | 20.63 |
|           |                | 210°      | 20.78 | 20.47 | 20.82 | 20.74 |
|           |                | 220°      | 20.75 | 20.52 | 20.73 | 20.61 |
|           |                | 230°      | 20.83 | 20.48 | 20.66 | 20.71 |
|           |                | 240°      | 20.72 | 20.53 | 20.79 | 20.72 |
|           | Non-Notebook   | 250°      | 20.73 | 20.56 | 20.75 | 20.76 |
|           |                | 260°      | 20.72 | 20.55 | 20.81 | 20.57 |
|           |                | 270°      | 20.72 | 20.55 | 20.64 | 20.64 |
|           |                | 280°      | 20.83 | 20.51 | 20.80 | 20.65 |
|           |                | 290°      | 20.87 | 20.51 | 20.66 | 20.70 |
|           |                | 300°      | 20.78 | 20.63 | 20.75 | 20.75 |
|           |                | 310°      | 20.83 | 20.57 | 20.79 | 20.59 |
|           |                | 320°      | 20.84 | 20.65 | 20.72 | 20.75 |
|           |                | 330°      | 20.70 | 20.65 | 20.76 | 20.63 |
|           |                | 340°      | 20.83 | 20.53 | 20.64 | 20.65 |
|           |                | 350°      | 20.87 | 20.54 | 20.72 | 20.57 |
|           |                | 360°      | 20.76 | 20.47 | 20.80 | 20.61 |

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|           |                |           | 101   | ЛНz   | 5N    | 1Hz   |       |
|-----------|----------------|-----------|-------|-------|-------|-------|-------|
| Antenna   | Operation mode | Lid angle | QPSK  | 16QAM | QPSK  | 16QAM |       |
|           |                | 201°      | 22.46 | 21.81 | 22.31 | 21.18 |       |
|           |                | 210°      | 22.40 | 21.79 | 22.43 | 21.27 |       |
|           |                | 220°      | 22.35 | 21.68 | 22.36 | 21.31 |       |
|           |                | 230°      | 22.40 | 21.74 | 22.32 | 21.25 |       |
|           |                | 240°      | 22.35 | 21.66 | 22.48 | 21.23 |       |
|           |                | 250°      | 22.31 | 21.70 | 22.35 | 21.18 |       |
|           |                | 260°      | 20.74 | 20.58 | 20.81 | 20.76 |       |
| WWAN TX   | Stand          | 270°      | 22.44 | 21.72 | 22.38 | 21.25 |       |
| (LTE B17) | Stariu         | 280°      | 22.36 | 21.74 | 22.36 | 21.30 |       |
|           |                | 290°      | 22.36 | 21.82 | 22.46 | 21.26 |       |
|           |                |           | 300°  | 22.36 | 21.65 | 22.36 | 21.24 |
|           |                | 310°      | 22.44 | 21.73 | 22.43 | 21.13 |       |
|           |                | 320°      | 22.46 | 21.68 | 22.30 | 21.22 |       |
|           |                | 330°      | 22.32 | 21.77 | 22.33 | 21.26 |       |
|           |                | 340°      | 22.41 | 21.84 | 22.42 | 21.29 |       |
|           |                | 345°      | 22.32 | 21.74 | 22.38 | 21.25 |       |

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|           |                |           | 151   | ЛНz   | 101   | ИНz   | 5N    | MHz   | 3N    | MHz   | 1.4   | ИНz   |
|-----------|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antenna   | Operation mode | Lid angle | QPSK  | 16QAM |
|           |                | 0°        | n/a   |
|           |                | 10°       | n/a   |
|           | Lid close      | 20°       | n/a   |
|           |                | 30°       | n/a   |
|           |                | 34°       | n/a   |
|           |                | 35°       | 22.48 | 21.67 | 22.22 | 21.27 | 22.08 | 21.81 | 22.16 | 21.55 | 22.22 | 21.22 |
|           |                | 40°       | 22.52 | 21.64 | 22.26 | 21.24 | 22.16 | 21.69 | 22.20 | 21.48 | 22.17 | 21.22 |
|           |                | 50°       | 22.49 | 21.64 | 22.28 | 21.20 | 22.11 | 21.72 | 22.19 | 21.42 | 22.28 | 21.19 |
|           |                | 60°       | 22.49 | 21.64 | 22.29 | 21.39 | 22.07 | 21.73 | 22.31 | 21.40 | 22.25 | 21.09 |
|           |                | 70°       | 22.58 | 21.78 | 22.22 | 21.31 | 22.04 | 21.65 | 22.13 | 21.43 | 22.20 | 21.19 |
|           | Notebook       | 80°       | 22.51 | 21.77 | 22.19 | 21.28 | 22.19 | 21.81 | 22.24 | 21.43 | 22.18 | 21.22 |
|           |                | 90°       | 22.47 | 21.60 | 22.12 | 21.39 | 22.13 | 21.70 | 22.17 | 21.50 | 22.15 | 21.20 |
|           |                | 100°      | 22.50 | 21.71 | 22.17 | 21.20 | 22.19 | 21.68 | 22.29 | 21.57 | 22.26 | 21.17 |
|           |                | 110°      | 22.58 | 21.59 | 22.17 | 21.23 | 22.10 | 21.64 | 22.18 | 21.45 | 22.19 | 21.04 |
|           |                | 120°      | 22.49 | 21.60 | 22.23 | 21.33 | 22.11 | 21.80 | 22.31 | 21.58 | 22.28 | 21.08 |
|           |                | 129°      | 22.48 | 21.62 | 22.25 | 21.20 | 22.09 | 21.76 | 22.24 | 21.56 | 22.26 | 21.04 |
|           |                | 130°      | 22.00 | 21.75 | 22.12 | 22.00 | 22.03 | 21.70 | 22.07 | 21.88 | 22.09 | 21.87 |
|           |                | 140°      | 21.98 | 21.71 | 22.02 | 21.86 | 21.98 | 21.79 | 22.04 | 21.79 | 22.05 | 21.89 |
|           |                | 150°      | 21.97 | 21.81 | 22.01 | 21.91 | 22.04 | 21.77 | 22.11 | 21.84 | 21.95 | 21.94 |
| WWAN TX   |                | 160°      | 21.88 | 21.77 | 22.10 | 21.96 | 21.91 | 21.83 | 22.09 | 21.88 | 22.00 | 22.02 |
| (LTE B26) |                | 170°      | 21.89 | 21.74 | 22.13 | 21.96 | 21.88 | 21.78 | 22.11 | 21.73 | 21.96 | 22.02 |
|           |                | 180°      | 21.98 | 21.78 | 22.01 | 21.91 | 21.88 | 21.77 | 22.09 | 21.89 | 22.08 | 22.00 |
|           |                | 190°      | 21.85 | 21.75 | 21.95 | 21.90 | 22.07 | 21.83 | 22.04 | 21.79 | 21.98 | 21.95 |
|           |                | 200°      | 21.84 | 21.77 | 22.06 | 21.93 | 22.06 | 21.81 | 22.07 | 21.88 | 22.12 | 21.83 |
|           |                | 210°      | 21.93 | 21.65 | 22.04 | 21.86 | 22.06 | 21.83 | 22.19 | 21.87 | 22.10 | 22.01 |
|           |                | 220°      | 21.86 | 21.70 | 22.06 | 22.01 | 22.05 | 21.75 | 22.05 | 21.74 | 21.95 | 21.98 |
|           |                | 230°      | 21.93 | 21.79 | 22.02 | 21.98 | 22.07 | 21.70 | 22.05 | 21.73 | 22.05 | 21.88 |
|           | Non-Notebook   | 240°      | 21.84 | 21.79 | 21.98 | 21.86 | 21.97 | 21.71 | 22.08 | 21.80 | 22.00 | 21.83 |
|           |                | 250°      | 22.01 | 21.81 | 21.99 | 21.94 | 22.05 | 21.83 | 22.08 | 21.91 | 22.12 | 21.88 |
|           |                | 260°      | 22.02 | 21.64 | 21.94 | 21.85 | 21.95 | 21.71 | 22.17 | 21.78 | 22.11 | 21.85 |
|           |                | 270°      | 21.92 | 21.77 | 22.06 | 21.92 | 21.92 | 21.86 | 22.05 | 21.88 | 22.10 | 21.88 |
|           |                | 280°      | 21.89 | 21.71 | 22.10 | 21.93 | 21.97 | 21.72 | 22.19 | 21.90 | 21.94 | 21.92 |
|           |                | 290°      | 21.90 | 21.76 | 22.11 | 21.93 | 21.98 | 21.79 | 22.21 | 21.80 | 22.13 | 22.00 |
|           |                | 300°      | 21.91 | 21.76 | 22.05 | 21.99 | 22.05 | 21.74 | 22.13 | 21.76 | 22.13 | 22.02 |
|           |                | 310°      | 21.93 | 21.67 | 22.06 | 21.86 | 22.00 | 21.77 | 22.13 | 21.78 | 22.08 | 21.92 |
|           |                | 320°      | 21.93 | 21.75 | 22.02 | 21.94 | 21.97 | 21.77 | 22.08 | 21.83 | 22.07 | 21.95 |
|           |                | 330°      | 21.93 | 21.63 | 21.97 | 21.95 | 21.90 | 21.80 | 22.07 | 21.75 | 22.08 | 21.94 |
|           |                | 340°      | 22.02 | 21.79 | 22.11 | 21.82 | 21.88 | 21.74 | 22.20 | 21.74 | 22.01 | 21.91 |
|           |                | 350°      | 22.02 | 21.67 | 22.10 | 21.90 | 22.03 | 21.86 | 22.11 | 21.90 | 22.04 | 21.83 |
|           |                | 360°      | 21.96 | 21.62 | 21.94 | 22.00 | 21.92 | 21.85 | 22.11 | 21.91 | 22.05 | 21.85 |

|           |                |           | 15/   | ЛНz   | 101   | ИНz   | 5N    | 1Hz   | 3N    | 1Hz   | 1.4   | MHz   |
|-----------|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antenna   | Operation mode | Lid angle | QPSK  | 16QAM |
|           |                | 201°      | 22.32 | 21.64 | 22.08 | 21.16 | 21.95 | 21.81 | 22.08 | 21.52 | 22.09 | 21.09 |
|           |                | 210°      | 22.38 | 21.62 | 22.08 | 21.22 | 21.94 | 21.77 | 22.04 | 21.45 | 22.20 | 21.03 |
|           |                | 220°      | 22.44 | 21.48 | 22.08 | 21.23 | 21.99 | 21.72 | 22.12 | 21.36 | 22.07 | 21.19 |
|           |                | 230°      | 22.42 | 21.66 | 22.17 | 21.26 | 22.02 | 21.71 | 22.15 | 21.43 | 22.07 | 21.19 |
|           |                | 240°      | 22.47 | 21.63 | 22.08 | 21.10 | 22.05 | 21.79 | 22.13 | 21.55 | 22.22 | 21.12 |
|           |                | 250°      | 22.44 | 21.51 | 22.03 | 21.08 | 21.99 | 21.68 | 21.97 | 21.45 | 22.22 | 21.15 |
|           |                | 260°      | 22.31 | 21.54 | 22.14 | 21.20 | 22.04 | 21.67 | 22.09 | 21.54 | 22.07 | 21.10 |
| WWAN TX   | Stand          | 270°      | 22.29 | 21.62 | 22.13 | 21.10 | 21.97 | 21.62 | 22.13 | 21.50 | 22.20 | 21.08 |
| (LTE B26) | Staria         | 280°      | 22.31 | 21.55 | 22.19 | 21.10 | 21.90 | 21.66 | 22.10 | 21.47 | 22.04 | 21.22 |
|           |                | 290°      | 22.44 | 21.52 | 22.10 | 21.22 | 22.05 | 21.64 | 22.05 | 21.54 | 22.18 | 21.04 |
|           |                | 300°      | 22.42 | 21.57 | 22.05 | 21.25 | 22.00 | 21.74 | 22.05 | 21.44 | 22.06 | 21.17 |
|           |                | 310°      | 22.47 | 21.51 | 22.17 | 21.20 | 21.91 | 21.70 | 22.11 | 21.43 | 22.21 | 21.05 |
|           |                | 320°      | 22.48 | 21.60 | 22.15 | 21.19 | 21.90 | 21.65 | 21.99 | 21.55 | 22.22 | 21.08 |
|           |                | 330°      | 22.46 | 21.60 | 22.22 | 21.08 | 22.05 | 21.79 | 22.11 | 21.49 | 22.18 | 21.03 |
|           |                | 340°      | 22.36 | 21.58 | 22.13 | 21.16 | 21.94 | 21.72 | 22.14 | 21.44 | 22.12 | 21.11 |
|           |                | 345°      | 22.39 | 21.56 | 22.05 | 21.27 | 22.00 | 21.75 | 21.99 | 21.40 | 22.06 | 21.11 |

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|           |                        |           | 101   | MHz   | 5N    | ИНz   |       |
|-----------|------------------------|-----------|-------|-------|-------|-------|-------|
| Antenna   | Operation mode         | Lid angle | QPSK  | 16QAM | QPSK  | 16QAM |       |
|           |                        | 0°        | n/a   | n/a   | n/a   | n/a   |       |
|           | Notebook  Non-Notebook | 10°       | n/a   | n/a   | n/a   | n/a   |       |
|           | Lid close              | 20°       | n/a   | n/a   | n/a   | n/a   |       |
|           |                        | 30°       | n/a   | n/a   | n/a   | n/a   |       |
|           |                        | 34°       | n/a   | n/a   | n/a   | n/a   |       |
| -<br> -   |                        | 35°       | 22.02 | 21.56 | 22.14 | 21.23 |       |
|           |                        | 40°       | 22.07 | 21.51 | 22.17 | 21.22 |       |
|           |                        | 50°       | 22.04 | 21.58 | 21.99 | 21.29 |       |
|           |                        | 60°       | 22.17 | 21.54 | 22.01 | 21.19 |       |
|           |                        | 70°       | 22.08 | 21.46 | 22.08 | 21.19 |       |
|           | Notebook               | 80°       | 22.15 | 21.44 | 22.08 | 21.29 |       |
|           |                        | 90°       | 22.11 | 21.53 | 22.05 | 21.20 |       |
|           |                        | 100°      | 22.12 | 21.54 | 22.03 | 21.27 |       |
|           |                        | 110°      | 22.11 | 21.47 | 22.15 | 21.21 |       |
|           |                        | 120°      | 22.03 | 21.48 | 22.08 | 21.24 |       |
|           |                        | 129°      | 22.18 | 21.57 | 22.10 | 21.12 |       |
| Ī         |                        | 130°      | 18.75 | 18.82 | 18.56 | 18.50 |       |
|           |                        |           | 140°  | 18.85 | 18.83 | 18.50 | 18.56 |
|           |                        | 150°      | 18.91 | 18.87 | 18.52 | 18.52 |       |
| WWAN TX   |                        | 160°      | 18.77 | 18.72 | 18.49 | 18.52 |       |
| (LTE B30) |                        | 170°      | 18.86 | 18.75 | 18.52 | 18.45 |       |
|           |                        | 180°      | 18.79 | 18.77 | 18.55 | 18.40 |       |
|           |                        | 190°      | 18.74 | 18.87 | 18.52 | 18.52 |       |
|           |                        | 200°      | 18.86 | 18.77 | 18.52 | 18.49 |       |
|           |                        | 210°      | 18.83 | 18.80 | 18.54 | 18.49 |       |
|           |                        | 220°      | 18.88 | 18.74 | 18.47 | 18.53 |       |
|           |                        | 230°      | 18.90 | 18.78 | 18.46 | 18.44 |       |
|           |                        | 240°      | 18.79 | 18.75 | 18.60 | 18.57 |       |
|           | Non-Notebook           | 250°      | 18.83 | 18.72 | 18.50 | 18.50 |       |
|           |                        | 260°      | 18.86 | 18.69 | 18.47 | 18.55 |       |
|           |                        | 270°      | 18.77 | 18.85 | 18.50 | 18.52 |       |
|           |                        | 280°      | 18.75 | 18.69 | 18.61 | 18.56 |       |
|           |                        | 290°      | 18.86 | 18.82 | 18.54 | 18.52 |       |
|           |                        | 300°      | 18.80 | 18.82 | 18.52 | 18.49 |       |
|           |                        | 310°      | 18.79 | 18.78 | 18.61 | 18.52 |       |
|           |                        | 320°      | 18.89 | 18.75 | 18.53 | 18.43 |       |
|           |                        | 330°      | 18.85 | 18.77 | 18.60 | 18.53 |       |
|           |                        | 340°      | 18.82 | 18.83 | 18.59 | 18.39 |       |
|           |                        | 350°      | 18.87 | 18.70 | 18.53 | 18.48 |       |
|           |                        | 360°      | 18.90 | 18.81 | 18.59 | 18.41 |       |

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|           |                |           | 101   | ЛНz   | 5N    | 1Hz   |       |       |       |
|-----------|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|
| Antenna   | Operation mode | Lid angle | QPSK  | 16QAM | QPSK  | 16QAM |       |       |       |
|           |                | 201°      | 22.08 | 21.46 | 22.03 | 21.12 |       |       |       |
|           |                | 210°      | 21.97 | 21.49 | 22.02 | 21.14 |       |       |       |
|           |                | 220°      | 22.08 | 21.40 | 22.01 | 21.22 |       |       |       |
|           |                |           | 230°  | 22.02 | 21.43 | 22.08 | 21.11 |       |       |
|           |                | 240°      | 22.03 | 21.42 | 22.08 | 21.11 |       |       |       |
|           |                | 250°      | 22.06 | 21.43 | 21.98 | 21.06 |       |       |       |
|           |                | 260°      | 22.11 | 21.52 | 22.04 | 21.07 |       |       |       |
| WWAN TX   | Stand          | 270°      | 22.09 | 21.43 | 21.96 | 21.13 |       |       |       |
| (LTE B30) | Staria         | Staria    | 280°  | 22.04 | 21.54 | 21.98 | 21.13 |       |       |
|           |                | 290°      | 22.00 | 21.53 | 22.06 | 21.07 |       |       |       |
|           |                |           |       | 300°  | 21.99 | 21.55 | 22.12 | 21.05 |       |
|           |                | 310°      | 22.11 | 21.53 | 22.01 | 21.05 |       |       |       |
|           |                |           |       |       | 320°  | 21.96 | 21.54 | 22.01 | 21.18 |
|           |                | 330°      | 22.06 | 21.48 | 22.14 | 21.09 |       |       |       |
|           |                | 340°      | 22.01 | 21.37 | 21.98 | 21.15 |       |       |       |
|           |                | 345°      | 22.05 | 21.45 | 21.97 | 21.08 |       |       |       |

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|           |                 |           | 201   | ИHz   | 15N   | ИНz   | 101   | ИНz   | 5N    | 1Hz   |
|-----------|-----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antenna   | Operation mode  | Lid angle | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
|           |                 | 0°        | n/a   |
|           |                 | 10°       | n/a   |
|           | Lid close       | 20°       | n/a   |
|           |                 | 30°       | n/a   |
|           |                 | 34°       | n/a   |
|           |                 | 35°       | 22.63 | 21.56 | 22.37 | 21.66 | 22.45 | 21.74 | 22.44 | 21.73 |
|           |                 | 40°       | 22.68 | 21.44 | 22.43 | 21.60 | 22.43 | 21.82 | 22.47 | 21.61 |
|           |                 | 50°       | 22.63 | 21.61 | 22.52 | 21.66 | 22.54 | 21.74 | 22.61 | 21.73 |
|           |                 | 60°       | 22.69 | 21.61 | 22.49 | 21.70 | 22.53 | 21.70 | 22.62 | 21.76 |
|           |                 | 70°       | 22.78 | 21.55 | 22.55 | 21.55 | 22.54 | 21.66 | 22.44 | 21.80 |
|           | Notebook        | 80°       | 22.67 | 21.45 | 22.39 | 21.60 | 22.58 | 21.74 | 22.54 | 21.77 |
|           |                 | 90°       | 22.73 | 21.55 | 22.36 | 21.60 | 22.60 | 21.74 | 22.49 | 21.72 |
|           |                 | 100°      | 22.78 | 21.59 | 22.44 | 21.73 | 22.61 | 21.81 | 22.50 | 21.75 |
|           |                 | 110°      | 22.67 | 21.57 | 22.43 | 21.59 | 22.53 | 21.78 | 22.47 | 21.61 |
|           |                 | 120°      | 22.63 | 21.61 | 22.36 | 21.60 | 22.58 | 21.76 | 22.60 | 21.73 |
|           |                 | 129°      | 22.73 | 21.58 | 22.51 | 21.65 | 22.47 | 21.77 | 22.44 | 21.80 |
|           |                 | 130°      | 22.62 | 21.54 | 22.50 | 21.69 | 22.44 | 21.75 | 22.46 | 21.67 |
|           |                 | 140°      | 22.60 | 21.44 | 22.41 | 21.65 | 22.51 | 21.63 | 22.58 | 21.68 |
|           |                 | 150°      | 22.72 | 21.50 | 22.55 | 21.70 | 22.53 | 21.79 | 22.47 | 21.73 |
| WWAN TX   |                 | 160°      | 22.77 | 21.44 | 22.46 | 21.60 | 22.56 | 21.73 | 22.51 | 21.66 |
| (LTE B38) |                 | 170°      | 22.60 | 21.61 | 22.51 | 21.66 | 22.52 | 21.66 | 22.47 | 21.65 |
|           |                 | 180°      | 22.68 | 21.48 | 22.51 | 21.72 | 22.58 | 21.80 | 22.51 | 21.75 |
|           |                 | 190°      | 22.74 | 21.44 | 22.50 | 21.68 | 22.45 | 21.74 | 22.52 | 21.77 |
|           |                 | 200°      | 22.63 | 21.49 | 22.53 | 21.73 | 22.44 | 21.81 | 22.49 | 21.63 |
|           |                 | 210°      | 22.71 | 21.53 | 22.38 | 21.71 | 22.49 | 21.82 | 22.47 | 21.70 |
|           |                 | 220°      | 22.67 | 21.44 | 22.45 | 21.71 | 22.57 | 21.70 | 22.59 | 21.78 |
|           |                 | 230°      | 22.60 | 21.54 | 22.48 | 21.60 | 22.50 | 21.78 | 22.56 | 21.80 |
|           | Non-Notebook    | 240°      | 22.63 | 21.63 | 22.52 | 21.67 | 22.46 | 21.79 | 22.51 | 21.67 |
|           | 110111101000011 | 250°      | 22.64 | 21.49 | 22.48 | 21.68 | 22.56 | 21.63 | 22.62 | 21.78 |
|           |                 | 260°      | 22.69 | 21.49 | 22.47 | 21.69 | 22.59 | 21.68 | 22.51 | 21.71 |
|           |                 | 270°      | 22.71 | 21.59 | 22.36 | 21.63 | 22.51 | 21.67 | 22.46 | 21.79 |
|           |                 | 280°      | 22.77 | 21.58 | 22.37 | 21.70 | 22.53 | 21.64 | 22.54 | 21.80 |
|           |                 | 290°      | 22.69 | 21.50 | 22.47 | 21.64 | 22.47 | 21.75 | 22.55 | 21.73 |
|           |                 | 300°      | 22.65 | 21.46 | 22.37 | 21.63 | 22.46 | 21.75 | 22.47 | 21.62 |
|           |                 | 310°      | 22.60 | 21.53 | 22.54 | 21.56 | 22.55 | 21.65 | 22.62 | 21.78 |
|           |                 | 320°      | 22.71 | 21.58 | 22.45 | 21.70 | 22.48 | 21.66 | 22.47 | 21.67 |
|           |                 | 330°      | 22.69 | 21.49 | 22.38 | 21.71 | 22.53 | 21.76 | 22.61 | 21.67 |
|           |                 | 340°      | 22.78 | 21.55 | 22.53 | 21.69 | 22.46 | 21.65 | 22.53 | 21.69 |
|           |                 | 350°      | 22.61 | 21.49 | 22.52 | 21.73 | 22.48 | 21.80 | 22.49 | 21.69 |
|           |                 | 360°      | 22.63 | 21.54 | 22.41 | 21.56 | 22.46 | 21.79 | 22.53 | 21.75 |

|           |                |           | 201   | ИHz   | 15    | ИНz   | 10    | ИHz   | 5MHz  |       |
|-----------|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antenna   | Operation mode | Lid angle | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
|           |                | 201°      | 22.61 | 21.39 | 22.28 | 21.57 | 22.40 | 21.65 | 22.44 | 21.61 |
|           |                | 210°      | 22.47 | 21.37 | 22.36 | 21.53 | 22.41 | 21.61 | 22.29 | 21.60 |
|           |                | 220°      | 22.52 | 21.51 | 22.22 | 21.65 | 22.28 | 21.61 | 22.25 | 21.58 |
|           |                | 230°      | 22.50 | 21.43 | 22.37 | 21.52 | 22.44 | 21.68 | 22.43 | 21.62 |
|           |                | 240°      | 22.45 | 21.49 | 22.19 | 21.57 | 22.26 | 21.73 | 22.38 | 21.72 |
|           |                | 250°      | 22.63 | 21.50 | 22.37 | 21.53 | 22.37 | 21.59 | 22.28 | 21.73 |
|           |                | 260°      | 22.56 | 21.53 | 22.22 | 21.52 | 22.33 | 21.57 | 22.39 | 21.55 |
| WWAN TX   | Stand          | 270°      | 22.61 | 21.51 | 22.24 | 21.59 | 22.38 | 21.61 | 22.26 | 21.72 |
| (LTE B38) | Stand          | 280°      | 22.57 | 21.40 | 22.36 | 21.52 | 22.32 | 21.61 | 22.43 | 21.65 |
|           |                | 290°      | 22.54 | 21.39 | 22.32 | 21.60 | 22.36 | 21.59 | 22.40 | 21.60 |
|           |                | 300°      | 22.61 | 21.52 | 22.27 | 21.65 | 22.29 | 21.56 | 22.38 | 21.70 |
|           |                | 310°      | 22.45 | 21.45 | 22.19 | 21.63 | 22.45 | 21.64 | 22.31 | 21.61 |
|           |                | 320°      | 22.49 | 21.41 | 22.30 | 21.60 | 22.40 | 21.64 | 22.41 | 21.65 |
|           |                | 330°      | 22.54 | 21.46 | 22.31 | 21.54 | 22.33 | 21.57 | 22.34 | 21.59 |
|           |                | 340°      | 22.52 | 21.42 | 22.29 | 21.50 | 22.43 | 21.63 | 22.38 | 21.56 |
|           |                | 345°      | 22.59 | 21.43 | 22.34 | 21.54 | 22.32 | 21.69 | 22.34 | 21.71 |

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|           |                |           | 201   | ЛНz   | 15N   | ЛНz   | 101   | ИНz   | 5N    | 1Hz   |
|-----------|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antenna   | Operation mode | Lid angle | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
|           |                | 0°        | n/a   |
|           |                | 10°       | n/a   |
|           | Lid close      | 20°       | n/a   |
|           |                | 30°       | n/a   |
|           |                | 34°       | n/a   |
|           |                | 35°       | 22.35 | 21.58 | 22.38 | 21.41 | 22.16 | 21.55 | 22.22 | 21.50 |
|           |                | 40°       | 22.37 | 21.60 | 22.38 | 21.54 | 22.25 | 21.62 | 22.21 | 21.49 |
|           |                | 50°       | 22.27 | 21.50 | 22.29 | 21.52 | 22.16 | 21.63 | 22.31 | 21.53 |
|           |                | 60°       | 22.27 | 21.60 | 22.20 | 21.60 | 22.26 | 21.59 | 22.35 | 21.43 |
|           |                | 70°       | 22.37 | 21.65 | 22.29 | 21.45 | 22.20 | 21.53 | 22.26 | 21.51 |
|           | Notebook       | 80°       | 22.42 | 21.55 | 22.36 | 21.58 | 22.22 | 21.46 | 22.31 | 21.48 |
|           |                | 90°       | 22.40 | 21.49 | 22.21 | 21.50 | 22.29 | 21.63 | 22.35 | 21.50 |
|           |                | 100°      | 22.42 | 21.59 | 22.27 | 21.45 | 22.25 | 21.63 | 22.38 | 21.52 |
|           |                | 110°      | 22.42 | 21.67 | 22.24 | 21.58 | 22.29 | 21.63 | 22.21 | 21.47 |
|           |                | 120°      | 22.26 | 21.56 | 22.26 | 21.47 | 22.20 | 21.65 | 22.35 | 21.44 |
|           |                | 129°      | 22.28 | 21.58 | 22.20 | 21.56 | 22.18 | 21.52 | 22.36 | 21.44 |
|           |                | 130°      | 22.37 | 21.52 | 22.38 | 21.45 | 22.27 | 21.57 | 22.30 | 21.56 |
|           |                | 140°      | 22.43 | 21.62 | 22.20 | 21.41 | 22.19 | 21.51 | 22.23 | 21.54 |
|           |                | 150°      | 22.25 | 21.63 | 22.21 | 21.57 | 22.34 | 21.55 | 22.34 | 21.46 |
| WWAN TX   |                | 160°      | 22.27 | 21.54 | 22.24 | 21.57 | 22.20 | 21.56 | 22.22 | 21.39 |
| (LTE B41) |                | 170°      | 22.41 | 21.58 | 22.25 | 21.51 | 22.34 | 21.47 | 22.25 | 21.52 |
|           |                | 180°      | 22.32 | 21.56 | 22.25 | 21.50 | 22.30 | 21.58 | 22.30 | 21.44 |
|           |                | 190°      | 22.38 | 21.54 | 22.31 | 21.54 | 22.34 | 21.58 | 22.23 | 21.52 |
|           |                | 200°      | 22.44 | 21.67 | 22.29 | 21.56 | 22.18 | 21.51 | 22.37 | 21.39 |
|           |                | 210°      | 22.33 | 21.50 | 22.20 | 21.55 | 22.33 | 21.64 | 22.38 | 21.45 |
|           |                | 220°      | 22.44 | 21.58 | 22.30 | 21.41 | 22.28 | 21.51 | 22.22 | 21.53 |
|           |                | 230°      | 22.36 | 21.58 | 22.35 | 21.47 | 22.31 | 21.51 | 22.20 | 21.58 |
|           | Non-Notebook   | 240°      | 22.29 | 21.53 | 22.29 | 21.53 | 22.32 | 21.48 | 22.24 | 21.40 |
|           | NOIT-NOTEDOOK  | 250°      | 22.29 | 21.52 | 22.30 | 21.52 | 22.31 | 21.57 | 22.31 | 21.47 |
|           |                | 260°      | 22.27 | 21.51 | 22.25 | 21.53 | 22.31 | 21.59 | 22.30 | 21.41 |
|           |                | 270°      | 22.39 | 21.50 | 22.37 | 21.54 | 22.16 | 21.59 | 22.27 | 21.49 |
|           |                | 280°      | 22.39 | 21.52 | 22.24 | 21.60 | 22.18 | 21.56 | 22.26 | 21.39 |
|           |                | 290°      | 22.26 | 21.55 | 22.30 | 21.54 | 22.29 | 21.52 | 22.38 | 21.52 |
|           |                | 300°      | 22.37 | 21.67 | 22.19 | 21.55 | 22.28 | 21.57 | 22.23 | 21.39 |
|           |                | 310°      | 22.36 | 21.49 | 22.22 | 21.51 | 22.18 | 21.55 | 22.35 | 21.55 |
|           |                | 320°      | 22.28 | 21.66 | 22.29 | 21.57 | 22.18 | 21.54 | 22.38 | 21.56 |
|           |                | 330°      | 22.43 | 21.49 | 22.30 | 21.55 | 22.18 | 21.60 | 22.31 | 21.54 |
|           |                | 340°      | 22.36 | 21.55 | 22.33 | 21.51 | 22.24 | 21.48 | 22.33 | 21.54 |
|           |                | 350°      | 22.38 | 21.64 | 22.21 | 21.45 | 22.18 | 21.47 | 22.39 | 21.51 |
|           |                | 360°      | 22.35 | 21.58 | 22.32 | 21.49 | 22.34 | 21.61 | 22.24 | 21.46 |

|           |                |           | 201   | ИHz   | 150   | ИHz   | 101   | ИHz   | 5MHz  |       |
|-----------|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antenna   | Operation mode | Lid angle | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
|           |                | 201°      | 22.22 | 21.52 | 22.27 | 21.22 | 22.01 | 21.40 | 22.05 | 21.42 |
|           |                | 210°      | 22.18 | 21.57 | 22.34 | 21.23 | 22.04 | 21.43 | 22.20 | 21.40 |
|           |                | 220°      | 22.32 | 21.47 | 22.19 | 21.36 | 22.04 | 21.55 | 22.19 | 21.48 |
|           |                | 230°      | 22.34 | 21.54 | 22.25 | 21.27 | 22.11 | 21.48 | 22.07 | 21.44 |
|           |                | 240°      | 22.30 | 21.54 | 22.36 | 21.32 | 22.06 | 21.53 | 22.06 | 21.47 |
|           |                | 250°      | 22.33 | 21.57 | 22.27 | 21.33 | 21.99 | 21.51 | 22.06 | 21.42 |
|           |                | 260°      | 22.16 | 21.52 | 22.20 | 21.36 | 22.09 | 21.42 | 22.08 | 21.45 |
| WWAN TX   | Stand          | 270°      | 22.32 | 21.41 | 22.36 | 21.25 | 22.04 | 21.51 | 22.18 | 21.45 |
| (LTE B41) | Stand          | 280°      | 22.25 | 21.56 | 22.20 | 21.27 | 22.16 | 21.43 | 22.21 | 21.35 |
|           |                | 290°      | 22.28 | 21.50 | 22.20 | 21.24 | 22.03 | 21.38 | 22.04 | 21.49 |
|           |                | 300°      | 22.34 | 21.49 | 22.25 | 21.36 | 22.02 | 21.52 | 22.17 | 21.41 |
|           |                | 310°      | 22.27 | 21.50 | 22.26 | 21.34 | 22.00 | 21.39 | 22.21 | 21.32 |
|           |                | 320°      | 22.35 | 21.47 | 22.32 | 21.29 | 21.99 | 21.45 | 22.04 | 21.35 |
|           |                | 330°      | 22.22 | 21.55 | 22.22 | 21.29 | 22.06 | 21.52 | 22.08 | 21.34 |
|           |                | 340°      | 22.35 | 21.41 | 22.20 | 21.38 | 22.02 | 21.46 | 22.14 | 21.39 |
|           |                | 345°      | 22.28 | 21.49 | 22.34 | 21.24 | 22.16 | 21.44 | 22.16 | 21.42 |

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|           |                |           | 201   | ИHz   | 15N   | ИHz   | 100   | ИHz   | 5M    | Hz    | 3N    | lHz   | 1.41  | ИНz   |
|-----------|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antenna   | Operation mode | Lid angle | QPSK  | 16QAM |
|           |                | 0°        | n/a   |
|           |                | 10°       | n/a   |
|           | Lid close      | 20°       | n/a   |
|           |                | 30°       | n/a   |
|           |                | 34°       | n/a   |
|           |                | 35°       | 22.82 | 22.19 | 22.56 | 21.81 | 22.78 | 21.78 | 22.62 | 22.13 | 22.86 | 22.32 | 23.01 | 22.36 |
|           |                | 40°       | 22.83 | 22.28 | 22.70 | 21.86 | 22.87 | 21.74 | 22.55 | 22.18 | 22.79 | 22.21 | 22.95 | 22.25 |
|           |                | 50°       | 22.70 | 22.28 | 22.62 | 21.76 | 22.89 | 21.79 | 22.58 | 22.18 | 22.80 | 22.25 | 23.00 | 22.28 |
|           |                | 60°       | 22.74 | 22.11 | 22.72 | 21.69 | 22.76 | 21.66 | 22.64 | 22.23 | 22.83 | 22.29 | 22.89 | 22.25 |
|           |                | 70°       | 22.75 | 22.25 | 22.64 | 21.82 | 22.74 | 21.67 | 22.57 | 22.17 | 22.83 | 22.30 | 22.92 | 22.42 |
|           | Notebook       | 80°       | 22.74 | 22.15 | 22.61 | 21.80 | 22.76 | 21.60 | 22.69 | 22.23 | 22.77 | 22.33 | 22.92 | 22.31 |
|           |                | 90°       | 22.86 | 22.25 | 22.71 | 21.69 | 22.85 | 21.76 | 22.55 | 22.12 | 22.84 | 22.17 | 22.91 | 22.38 |
|           |                | 100°      | 22.82 | 22.12 | 22.67 | 21.69 | 22.90 | 21.73 | 22.54 | 22.22 | 22.86 | 22.34 | 23.00 | 22.25 |
|           |                | 110°      | 22.82 | 22.14 | 22.58 | 21.71 | 22.82 | 21.62 | 22.69 | 22.10 | 22.85 | 22.30 | 23.02 | 22.40 |
|           |                | 120°      | 22.77 | 22.13 | 22.60 | 21.82 | 22.86 | 21.63 | 22.55 | 22.14 | 22.81 | 22.19 | 23.00 | 22.37 |
|           |                | 129°      | 22.84 | 22.14 | 22.74 | 21.75 | 22.89 | 21.64 | 22.55 | 22.23 | 22.77 | 22.31 | 23.03 | 22.31 |
|           |                | 130°      | 18.19 | 17.85 | 17.94 | 17.98 | 18.10 | 17.88 | 17.87 | 17.66 | 17.72 | 17.81 | 18.10 | 17.99 |
|           |                | 140°      | 18.23 | 17.75 | 17.93 | 17.85 | 17.96 | 17.87 | 17.78 | 17.70 | 17.71 | 17.66 | 18.05 | 17.95 |
|           |                | 150°      | 18.05 | 17.71 | 18.01 | 17.96 | 18.05 | 17.83 | 17.93 | 17.66 | 17.67 | 17.80 | 18.01 | 17.97 |
| WWAN TX   |                | 160°      | 18.21 | 17.78 | 17.93 | 17.98 | 17.93 | 17.85 | 17.85 | 17.68 | 17.79 | 17.69 | 18.02 | 17.89 |
| (LTE B66) |                | 170°      | 18.08 | 17.73 | 17.94 | 18.01 | 18.09 | 17.87 | 17.79 | 17.71 | 17.75 | 17.68 | 18.00 | 17.95 |
|           |                | 180°      | 18.14 | 17.73 | 17.89 | 17.87 | 17.95 | 17.75 | 17.74 | 17.62 | 17.81 | 17.81 | 18.13 | 18.02 |
|           |                | 190°      | 18.18 | 17.79 | 17.89 | 17.97 | 18.03 | 17.82 | 17.83 | 17.65 | 17.76 | 17.76 | 18.05 | 17.94 |
|           |                | 200°      | 18.12 | 17.75 | 17.88 | 18.00 | 18.10 | 17.91 | 17.74 | 17.70 | 17.72 | 17.69 | 18.02 | 18.01 |
|           |                | 210°      | 18.19 | 17.71 | 17.90 | 17.91 | 18.10 | 17.87 | 17.76 | 17.74 | 17.72 | 17.72 | 17.99 | 17.96 |
|           |                | 220°      | 18.05 | 17.70 | 17.92 | 17.99 | 18.07 | 17.77 | 17.91 | 17.69 | 17.76 | 17.69 | 18.15 | 17.89 |
|           |                | 230°      | 18.18 | 17.76 | 18.05 | 17.92 | 18.10 | 17.76 | 17.89 | 17.60 | 17.83 | 17.79 | 18.08 | 18.02 |
|           | Non-Notebook   | 240°      | 18.19 | 17.89 | 17.97 | 17.96 | 18.10 | 17.87 | 17.82 | 17.78 | 17.69 | 17.66 | 18.00 | 17.97 |
|           | THOTTHOLODOON  | 250°      | 18.21 | 17.73 | 18.03 | 17.83 | 18.10 | 17.85 | 17.78 | 17.74 | 17.78 | 17.75 | 17.97 | 17.90 |
|           |                | 260°      | 18.20 | 17.86 | 18.00 | 17.85 | 18.08 | 17.89 | 17.92 | 17.67 | 17.80 | 17.75 | 18.13 | 17.91 |
|           |                | 270°      | 18.06 | 17.76 | 17.98 | 17.82 | 18.03 | 17.91 | 17.84 | 17.67 | 17.83 | 17.73 | 17.96 | 17.87 |
|           |                | 280°      | 18.17 | 17.72 | 18.04 | 17.91 | 17.93 | 17.83 | 17.87 | 17.69 | 17.73 | 17.71 | 18.08 | 17.98 |
|           |                | 290°      | 18.14 | 17.71 | 17.92 | 17.97 | 17.96 | 17.89 | 17.82 | 17.75 | 17.84 | 17.78 | 18.02 | 17.98 |
|           |                | 300°      | 18.23 | 17.87 | 17.96 | 17.88 | 17.98 | 17.90 | 17.78 | 17.68 | 17.69 | 17.64 | 18.08 | 17.86 |
|           |                | 310°      | 18.19 | 17.76 | 17.89 | 17.86 | 18.09 | 17.91 | 17.84 | 17.74 | 17.73 | 17.83 | 18.01 | 17.97 |
|           |                | 320°      | 18.21 | 17.73 | 17.97 | 17.88 | 18.09 | 17.92 | 17.80 | 17.74 | 17.69 | 17.75 | 18.03 | 17.84 |
|           |                | 330°      | 18.21 | 17.89 | 18.06 | 17.85 | 17.97 | 17.77 | 17.85 | 17.61 | 17.79 | 17.70 | 18.03 | 17.89 |
|           |                | 340°      | 18.09 | 17.87 | 17.93 | 17.95 | 17.99 | 17.89 | 17.93 | 17.70 | 17.81 | 17.69 | 17.97 | 18.01 |
|           |                | 350°      | 18.20 | 17.73 | 18.02 | 17.96 | 18.09 | 17.81 | 17.76 | 17.72 | 17.76 | 17.73 | 17.98 | 17.93 |
|           |                | 360°      | 18.14 | 17.76 | 17.96 | 17.83 | 17.95 | 17.76 | 17.79 | 17.69 | 17.71 | 17.70 | 18.11 | 17.89 |

|           |                |           | 201   | ИНz   | 15N   | ИНz   | 101   | ИHz   | 5N    | lHz   | 3N    | ИНz   | 1.4   | MHz   |
|-----------|----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antenna   | Operation mode | Lid angle | QPSK  | 16QAM |
|           |                | 201°      | 22.79 | 22.15 | 22.38 | 21.62 | 22.73 | 21.78 | 22.57 | 22.09 | 22.76 | 22.21 | 22.88 | 22.30 |
|           |                | 210°      | 22.73 | 22.15 | 22.42 | 21.81 | 22.61 | 21.73 | 22.54 | 22.00 | 22.71 | 22.22 | 22.87 | 22.18 |
|           |                | 220°      | 22.79 | 22.19 | 22.51 | 21.65 | 22.64 | 21.68 | 22.46 | 22.08 | 22.77 | 22.19 | 22.90 | 22.19 |
|           |                | 230°      | 22.80 | 22.01 | 22.42 | 21.79 | 22.73 | 21.74 | 22.50 | 21.99 | 22.82 | 22.18 | 22.86 | 22.22 |
|           |                | 240°      | 22.63 | 22.11 | 22.45 | 21.74 | 22.69 | 21.75 | 22.60 | 21.94 | 22.78 | 22.15 | 22.95 | 22.18 |
|           | Stand          | 250°      | 22.79 | 22.05 | 22.49 | 21.70 | 22.69 | 21.60 | 22.56 | 21.94 | 22.79 | 22.14 | 22.90 | 22.24 |
|           |                | 260°      | 22.77 | 22.03 | 22.44 | 21.75 | 22.76 | 21.61 | 22.59 | 22.00 | 22.70 | 22.17 | 22.96 | 22.21 |
| WWAN TX   |                | 270°      | 22.70 | 22.07 | 22.40 | 21.76 | 22.64 | 21.77 | 22.60 | 22.02 | 22.68 | 22.21 | 22.88 | 22.29 |
| (LTE B66) |                | 280°      | 22.69 | 22.03 | 22.55 | 21.75 | 22.61 | 21.59 | 22.51 | 22.02 | 22.70 | 22.28 | 22.95 | 22.28 |
|           |                | 290°      | 22.71 | 22.01 | 22.41 | 21.76 | 22.71 | 21.59 | 22.57 | 22.12 | 22.73 | 22.30 | 22.96 | 22.35 |
|           |                | 300°      | 22.65 | 22.17 | 22.53 | 21.72 | 22.77 | 21.73 | 22.55 | 21.96 | 22.76 | 22.30 | 22.89 | 22.35 |
|           |                | 310°      | 22.75 | 22.18 | 22.56 | 21.78 | 22.78 | 21.70 | 22.61 | 21.97 | 22.86 | 22.25 | 22.89 | 22.34 |
|           |                | 320°      | 22.69 | 22.04 | 22.43 | 21.81 | 22.75 | 21.65 | 22.44 | 22.13 | 22.86 | 22.27 | 22.84 | 22.34 |
|           |                | 330°      | 22.66 | 22.10 | 22.37 | 21.72 | 22.78 | 21.59 | 22.50 | 22.02 | 22.78 | 22.18 | 22.87 | 22.22 |
|           |                | 340°      | 22.80 | 22.15 | 22.41 | 21.69 | 22.73 | 21.68 | 22.52 | 22.00 | 22.73 | 22.25 | 22.87 | 22.23 |
|           |                | 345°      | 22.67 | 22.15 | 22.48 | 21.66 | 22.78 | 21.62 | 22.55 | 22.07 | 22.69 | 22.26 | 23.00 | 22.31 |

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## 1.7 The SAR Measurement System

A block diagram of the SAR measurement System is given in Fig. a. This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR=  $\sigma$  (|Ei|<sup>2</sup>)/  $\rho$ where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-simulant.

The DASY 5 system for performing compliance tests consists of the following items:

- 1. A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- 2. A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage intissue simulating liquid. The probe is equipped with an optical surface detector system.
- 3. A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

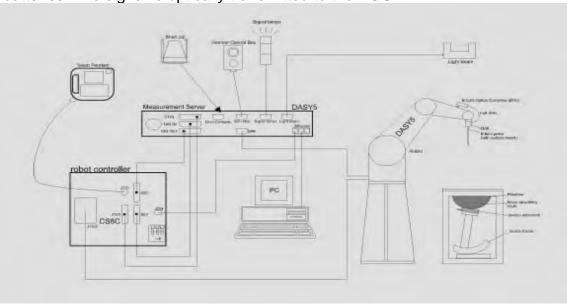


Fig. a The block diagram of SAR system

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- 4. The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- 5. The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- 6. A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- 7. A computer operating Windows 7.
- 8. DASY 5 software.
- 9. Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- Tissue simulating liquid mixed according to the given recipes.
- 11. Validation dipole kits allowing to validate the proper functioning of the system.

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## 1.8 System Components

## **EX3DV4 E-Field Probe**

| Construction | Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to  |  |  |  |  |  |  |  |  |
|--------------|--|--|--|--|--|--|--|--|--|
| Calibration  | organic solvents, e.g., DGBE)  Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835/1750/1900/2300/2450/2600/ 5200/5300/5600/5800MHz Additional CF for other liquids and frequencies upon request |  |  |  |  |  |  |  |  |
| Frequency    | 10 MHz to > 6 GHz  |  |  |  |  |  |  |  |  |
| Directivity  | ± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)   |  |  |  |  |  |  |  |  |
| Dynamic      | 10 μW/g to > 100 mW/g  |  |  |  |  |  |  |  |  |
| Range        | Linearity: ± 0.2 dB (noise: typically < 1 μW/g)  |  |  |  |  |  |  |  |  |
| Dimensions   | Tip diameter: 2.5 mm   |  |  |  |  |  |  |  |  |
| Application  | High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of petter 30%.               |  |  |  |  |  |  |  |  |

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#### **PHANTOM**

| PHANTOW         |   |
|-----------------|---|
| Model           | ELI   |
| Construction    | The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles. |
| Shell Thickness | 2 ± 0.2 mm  |
| Filling Volume  | Approx. 30 liters   |
| Dimensions      | Major axis: 600 mm Minor axis: 400 mm   |

## **DEVICE HOLDER**

| Construction | The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin ) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks | TO TO         |
|--------------|---|---------------|
|              | notebooks.  |               |
|              |   | Device Holder |

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## 1.9 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. These tests were done at 750/835/1750/1900/2300/2450/2600/5200/5300/5600/5800MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the liquid depth above the ear reference points was  $\geq$  15 cm  $\pm$  5 mm (frequency  $\leq$  3 GHz) or  $\geq$  10 cm  $\pm$  5 mm (frequency > 3 G Hz) in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

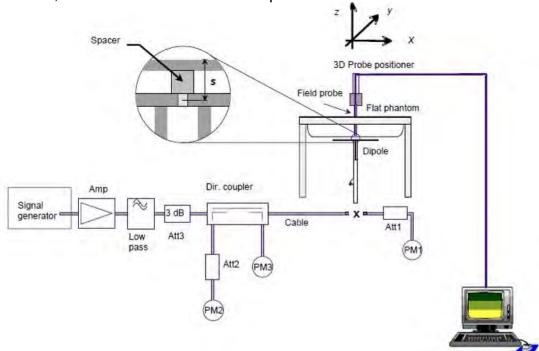


Fig. b The block diagram of system verification

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| Validation<br>Kit | S/N   | Frequency<br>(MHz) |      | 1W<br>Target<br>SAR-1g<br>(mW/g) | Measured<br>SAR-1g<br>(mW/g) | Measured<br>SAR-1g<br>normalized to<br>1W (mW/g) | Deviation (%) | Measured<br>Date |
|-------------------|-------|--------------------|------|----------------------------------|------------------------------|--|---------------|------------------|
| D750V3            | 1015  | 750                | Body | 8.76                             | 2.11                         | 8.44   | -3.65%        | Jul. 26, 2018    |
| D835V2            | 4d063 | 835                | Body | 9.57                             | 2.31                         | 9.24   | -3.45%        | Jul. 27, 2018    |
| D1750V2           | 1008  | 1750               | Body | 36.7                             | 8.97                         | 35.88  | -2.23%        | Jul. 30, 2018    |
| D1900V2           | 5d173 | 1900               | Body | 40.9                             | 10.3                         | 41.20  | 0.73%         | Jul. 31, 2018    |
| D2300V2           | 1023  | 2300               | Body | 46.4                             | 11.8                         | 47.20  | 1.72%         | Aug. 01, 2018    |
| D2450V2           | 727   | 2450               | Body | 50.8                             | 13.1                         | 52.4   | 3.15%         | Jul. 28, 2018    |
| D2600V2           | 1005  | 2600               | Body | 54.4                             | 14.1                         | 56.40  | 3.68%         | Aug. 02, 2018    |
|                   |       | 5200               | Body | 70.9                             | 7.24                         | 72.4   | 2.12%         | Jul. 30, 2018    |
| D5GHzV2           | 1023  | 5300               | Body | 72.9                             | 7.41                         | 74.1   | 1.65%         | Jul. 30, 2018    |
| DoGHZVZ           | 1023  | 5600               | Body | 77.6                             | 7.88                         | 78.8   | 1.55%         | Jul. 31, 2018    |
|                   |       | 5800               | Body | 74.1                             | 7.45                         | 74.5   | 0.54%         | Jul. 31, 2018    |

Table 1. Results of system verification

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# 1.10 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this Head-simulant fluid were measured by using the Agilent Model 85070E Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Network Analyzer.

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within ± 5% of the target values.

The depth of the tissue simulant in the flat section of the phantom was  $\geq 15$  cm  $\pm 5$ mm (Frequency  $\leq$ 3G) or  $\geq$  10 cm  $\pm$  5 mm (Frequency >3G) during all tests. (Fig. 2)

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| Tissue<br>Type | Measurement<br>Date | Measured<br>Frequency<br>(MHz) | Target Dielectric Constant, | Target<br>Conductivity,<br>σ (S/m) | Measured<br>Dielectric<br>Constant, | Measured<br>Conductivity,<br>σ (S/m) | % dev εr         | % dev σ |
|----------------|---------------------|--------------------------------|-----------------------------|------------------------------------|-------------------------------------|--------------------------------------|------------------|---------|
|                |                     | ` ,                            | ٤r                          | , ,                                | εr                                  | , ,                                  |                  |         |
|                |                     | 704.00                         | 55.710                      | 0.960                              | 57.251                              | 0.930                                | -2.77%           | 3.10%   |
|                |                     | 707.50                         | 55.697                      | 0.960                              | 57.248                              | 0.932                                | -2.78%           | 2.92%   |
|                |                     | 709.00                         | 55.691                      | 0.960                              | 57.233                              | 0.934                                | -2.77%           | 2.73%   |
|                | Jul, 26. 2018       | 710.00                         | 55.687                      | 0.960                              | 57.258                              | 0.938                                | -2.82%           | 2.32%   |
|                |                     | 711.00                         | 55.683                      | 0.960                              | 57.187                              | 0.941                                | -2.70%           | 2.01%   |
|                |                     | 750.00                         | 55.531                      | 0.963                              | 56.943                              | 0.976                                | -2.54%           | -1.31%  |
|                |                     | 782.00                         | 55.406                      | 0.966                              | 56.625                              | 1.007                                | -2.20%           | -4.26%  |
|                |                     | 822.50                         | 55.249                      | 0.969                              | 57.448                              | 0.981                                | -3.98%           | -1.24%  |
|                |                     | 826.40                         | 55.226                      | 0.959                              | 57.439                              | 0.983                                | -4.01%           | -2.46%  |
|                |                     | 829.00                         | 55.218                      | 0.963                              | 57.428                              | 0.984                                | -4.00%           | -2.22%  |
|                |                     | 831.50                         | 55.214                      | 0.970                              | 57.425                              | 0.991                                | -4.01%           | -2.19%  |
|                | Jul, 27. 2018       | 835.00                         | 55.200                      | 0.970                              | 57.424                              | 0.992                                | -4.03%           | -2.27%  |
|                | oui, 27. 2010       | 836.50                         | 55.195                      | 0.972                              | 57.371                              | 0.994                                | -3.94%           | -2.28%  |
|                |                     | 836.60                         | 55.194                      | 0.970                              | 57.368                              | 0.996                                | -3.94%           | -2.67%  |
|                |                     | 841.50                         | 55.180                      | 0.978                              | 57.350                              | 0.999                                | -3.93%           | -2.15%  |
|                |                     | 844.00                         | 55.172                      | 0.981                              | 57.345                              | 1.003                                | -3.94%           | -2.23%  |
|                |                     | 846.60                         | 55.164                      | 0.984                              | 57.277                              | 1.004                                | -3.83%           | -2.00%  |
|                |                     | 1712.40                        | 53.531                      | 1.465                              | 51.544                              | 1.425                                | 3.71%            | 2.71%   |
|                |                     | 1720.00                        | 53.511                      | 1.469                              | 51.497                              | 1.436                                | 3.76%            | 2.28%   |
|                |                     | 1732.40                        | 53.478                      | 1.477                              | 51.462                              | 1.448                                | 3.77%            | 1.98%   |
|                | I.I. 20, 2019       | 1732.50                        | 53.478                      | 1.477                              | 51.451                              | 1.449                                | 3.79%            | 1.92%   |
| D. d.          | Jul, 30. 2018       | 1745.00                        | 53.445                      | 1.485                              | 51.435                              | 1.460                                | 3.76%            | 1.70%   |
| Body           |                     | 1750.00                        | 53.432                      | 1.488                              | 51.418                              | 1.469                                | 3.77%            | 1.30%   |
|                |                     | 1752.60                        | 53.425                      | 1.490                              | 51.411                              | 1.471                                | 3.77%            | 1.28%   |
|                |                     | 1770.00                        | 53.379                      | 1.501                              | 51.352                              | 1.489                                | 3.80%            | 0.80%   |
|                |                     | 1852.40                        | 53.162                      | 1.553                              | 51.057                              | 1.576                                | 3.96%            | -1.47%  |
|                |                     | 1860.00                        | 53.142                      | 1.558                              | 51.027                              | 1.583                                | 3.98%            | -1.61%  |
|                | Jul, 31. 2018       | 1880.00                        | 53.089                      | 1.571                              | 50.974                              | 1.606                                | 3.98%            | -2.26%  |
|                | •                   | 1900.00                        | 53.037                      | 1.583                              | 50.896                              | 1.627                                | 4.04%            | -2.77%  |
|                |                     | 1907.60                        | 53.017                      | 1.588                              | 50.861                              | 1.637                                | 4.07%            | -3.09%  |
|                |                     | 2300.00                        | 52.900                      | 1.807                              | 53.611                              | 1.845                                | -1.34%           | -2.12%  |
|                | Aug, 01. 2018       | 2310.00                        | 52.887                      | 1.816                              | 53.568                              | 1.854                                | -1.29%           | -2.08%  |
|                |                     | 2506.00                        | 52.629                      | 2.029                              | 52.887                              | 2.117                                | -0.49%           | -4.32%  |
|                |                     | 2510.00                        | 52.624                      | 2.035                              | 52.866                              | 2.127                                | -0.46%           | -4.52%  |
|                |                     | 2535.00                        | 52.592                      | 2.071                              | 52.785                              | 2.163                                | -0.37%           | -4.47%  |
|                |                     | 2549.50                        | 52.573                      | 2.071                              | 52.761                              | 2.181                                | -0.36%           | -4.47 % |
|                |                     | 2549.50                        | 52.560                      | 2.106                              | 52.701                              | 2.101                                | -0.36%           | -4.27%  |
|                |                     |                                | 52.535                      | 2.100                              |                                     | 2.190                                |                  |         |
|                | Aug, 02. 2018       | 2580.00                        |                             |                                    | 52.647<br>52.500                    |                                      | -0.21%<br>-0.14% | -4.20%  |
|                |                     | 2593.00<br>2595.00             | 52.518<br>52.515            | 2.153<br>2.156                     | 52.590                              | 2.240<br>2.243                       | -0.14%<br>-0.15% | -4.05%  |
|                |                     |                                | 52.515                      |                                    | 52.593                              |                                      | -0.15%           | -4.05%  |
|                |                     | 2600.00                        | 52.509                      | 2.163                              | 52.577                              | 2.251                                | -0.13%           | -4.08%  |
|                |                     | 2610.00                        | 52.496                      | 2.177                              | 52.526                              | 2.263                                | -0.06%           | -3.95%  |
|                |                     | 2636.50                        | 52.463                      | 2.214                              | 52.453                              | 2.307                                | 0.02%            | -4.18%  |
|                |                     | 2680.00                        | 52.407                      | 2.276                              | 52.314                              | 2.365                                | 0.18%            | -3.90%  |

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| Measurement<br>Date | Measured<br>Frequency<br>(MHz) | Target Dielectric Constant, εr | Target<br>Conductivity,<br>σ (S/m) | Measured<br>Dielectric<br>Constant,<br>εr | Measured<br>Conductivity,<br>σ (S/m) | % dev εr | % dev σ |
|---------------------|--------------------------------|--------------------------------|------------------------------------|---|--------------------------------------|----------|---------|
|                     | 2412                           | 52.751                         | 1.914                              | 53.000                                    | 1.882                                | -0.47%   | 1.66%   |
|                     | 2417                           | 52.744                         | 1.918                              | 52.956                                    | 1.889                                | -0.40%   | 1.54%   |
|                     | 2437                           | 52.717                         | 1.938                              | 52.882                                    | 1.914                                | -0.31%   | 1.22%   |
| Jul, 28. 2018       | 2441                           | 52.712                         | 1.941                              | 52.875                                    | 1.920                                | -0.31%   | 1.10%   |
|                     | 2450                           | 52.700                         | 1.950                              | 52.827                                    | 1.932                                | -0.24%   | 0.92%   |
|                     | 2457                           | 52.691                         | 1.960                              | 52.808                                    | 1.941                                | -0.22%   | 0.97%   |
|                     | 2462                           | 52.685                         | 1.967                              | 52.786                                    | 1.950                                | -0.19%   | 0.87%   |
|                     | 5190                           | 49.028                         | 5.288                              | 49.677                                    | 5.253                                | -1.32%   | 0.65%   |
|                     | 5200                           | 49.014                         | 5.299                              | 49.628                                    | 5.264                                | -1.25%   | 0.67%   |
| Jul, 30. 2018       | 5230                           | 48.974                         | 5.334                              | 49.609                                    | 5.299                                | -1.30%   | 0.66%   |
|                     | 5270                           | 48.919                         | 5.381                              | 49.340                                    | 5.382                                | -0.86%   | -0.02%  |
|                     | 5300                           | 48.879                         | 5.416                              | 49.301                                    | 5.376                                | -0.86%   | 0.74%   |
|                     | 5600                           | 48.471                         | 5.766                              | 48.510                                    | 5.768                                | -0.08%   | -0.03%  |
|                     | 5690                           | 48.349                         | 5.872                              | 48.303                                    | 5.838                                | 0.10%    | 0.57%   |
| Jul, 31. 2018       | 5775                           | 48.234                         | 5.971                              | 47.951                                    | 6.004                                | 0.59%    | -0.56%  |
|                     | 5795                           | 48.207                         | 5.994                              | 47.762                                    | 6.055                                | 0.92%    | -1.01%  |
|                     | 5800                           | 48.200                         | 6.000                              | 47.847                                    | 6.039                                | 0.73%    | -0.65%  |

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the body tissue simulating liquid:

| The composition of the body tissue simulating liquid. |      |          |            |         |                  |           |       |                 |  |  |  |  |
|---|------|----------|------------|---------|------------------|-----------|-------|-----------------|--|--|--|--|
| F   |      |          | Ingredient |         |                  |           |       |                 |  |  |  |  |
| Frequency<br>(MHz)                                    | Mode | DGMBE    | Water      | Salt    | Preventol<br>D-7 | Cellulose | Sugar | Total<br>amount |  |  |  |  |
| 750   | Body | _        | 631.68 g   | 11.72 g | 1.2 g            | _         | 600 g | 1.0L(Kg)        |  |  |  |  |
| 850   | Body | _        | 631.68 g   | 11.72 g | 1.2 g            | _         | 600 g | 1.0L(Kg)        |  |  |  |  |
| 1750  | Body | 300.67 g | 716.56 g   | 4.0 g   | -                | -         | _     | 1.0L(Kg)        |  |  |  |  |
| 1900  | Body | 300.67 g | 716.56 g   | 4.0 g   | 1                | -         | -     | 1.0L(Kg)        |  |  |  |  |
| 2300  | Body | 301.7ml  | 698.3ml    | _       | -                | -         | _     | 1.0L(Kg)        |  |  |  |  |
| 2450  | Body | 301.7ml  | 698.3ml    | _       | _                | _         | -     | 1.0L(Kg)        |  |  |  |  |
| 2600  | Body | 301.7ml  | 698.3ml    | _       | _                | _         | _     | 1.0L(Kg)        |  |  |  |  |

Body Simulating Liquids for 5 GHz, Manufactured by SPEAG:

| Ingredients   | Water | Esters, Emulsifiers, Inhibitors | Sodium and Salt |
|---------------|-------|---------------------------------|-----------------|
| (% by weight) | 60-80 | 20-40                           | 0-1.5           |

Table 3. Recipes for Tissue Simulating Liquid

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## 1.11 Evaluation Procedures

The entire evaluation of the spatial peak values is performed within the Post-processing engine (SEMCAD). The system always gives the maximum values for the 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- 1. The extraction of the measured data (grid and values) from the Zoom Scan.
- 2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- 3. The generation of a high-resolution mesh within the measured volume
- 4. The interpolation of all measured values from the measurement grid to the high-resolution grid
- 5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- 6. The calculation of the averaged SAR within masses of 1g and 10g.

The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within –2 dB of the global maximum are searched and passed for the Cube Scan measurement. In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5mm.

The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum for most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7x7x7 scans. The routines are verified and optimized for the grid dimensions used in

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these cube measurements.

The measured volume of 30x30x30mm contains about 30g of tissue.

The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is the moved around until the highest averaged SAR is found. If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

#### 1.12 Probe Calibration Procedures

For the calibration of E-field probes in lossy liquids, an electric field with an accurately known field strength must be produced within the measured liquid. For standardization purposes it would be desirable if all measurements which are necessary to assess the correct field strength would be traceable to standardized measurement procedures. In the following two different calibration techniques are summarized:

## 1.12.1 Transfer Calibration with Temperature Probes

In lossy liquids the specific absorption rate (SAR) is related both to the electric field (E) and the temperature gradient ( $\delta T / \delta t$ ) in the liquid.

$$SAR = \frac{\sigma}{\rho} |E|^2 = c \frac{\delta T}{\delta t}$$

whereby  $\sigma$  is the conductivity,  $\rho$  the density and c the heat capacity of the liquid.

Hence, the electric field in lossy liquid can be measured indirectly by measuring the temperature gradient in the liquid. Non-disturbing temperature probes (optical probes or thermistor probes with resistive lines) with high spatial resolution (<1-2 mm) and fast reaction time (<1 s) are available and can be easily calibrated with high precision [1]. The setup and the exciting source have no influence on the calibration; only the relative positioning uncertainties of the standard temperature probe and the E-field probe to be calibrated must be considered. However, several problems limit the available accuracy of probe calibrations with temperature probes:

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- 1. The temperature gradient is not directly measurable but must be evaluated from temperature measurements at different time steps. Special precaution is necessary to avoid measurement errors caused by temperature gradients due to energy equalizing effects or convection currents in the liquid. Such effects cannot be completely avoided, as the measured field itself destroys the thermal equilibrium in the liquid. With a careful setup these errors can be kept small.
- 2. The measured volume around the temperature probe is not well defined. It is difficult to calculate the energy transfer from a surrounding gradient temperature field into the probe. These effects must be considered, since temperature probes are calibrated in liquid with homogeneous temperatures. There is no traceable standard for temperature rise measurements.
- 3. The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures ( $\sim$  2% for c; much better for  $\rho$ ), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed ±5%.
- 4. Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., power measurements, different components, etc.) must be considered.

Considering these problems, the possible accuracy of the calibration of E-field probes with temperature gradient measurements in a carefully designed setup is about ±10% (RSS) [2]. Recently, a setup which is a combination of the waveguide techniques and the thermal measurements was presented in [3]. The estimated uncertainty of the setup is ±5% (RSS) when the same liquid is used for the calibration and for actual measurements and ±7-9% (RSS) when not, which is in good agreement with the estimates given in [2].

## 1.12.2 Calibration with Analytical Fields

In this method a technical setup is used in which the field can be calculated analytically from measurements of other physical magnitudes (e.g., input power). This corresponds to the standard field method for probe calibration in air; however, there is no standard defined for fields in lossy liquids.

When using calculated fields in lossy liquids for probe calibration, several points must be considered in the assessment of the uncertainty:

1. The setup must enable accurate determination of the incident power.

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- 2. The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.
- 3. Due to the small wavelength in liquids with high permittivity, even small setups might be above the resonant cutoff frequencies. The field distribution in the setup must be carefully checked for conformity with the theoretical field distribution.

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#### 1.13 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate ("SAR") in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1, By the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

- Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the 1. whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube).
- 2. Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.
- 3. Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape

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of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section. (Table 4.)

| Human Exposure                            | Uncontrolled Environment General Population | Controlled Environment Occupational |  |  |
|---|---|-------------------------------------|--|--|
| Spatial Peak SAR<br>(Brain)               | 1.60 W/Kg                                   | 8.00 W/Kg                           |  |  |
| Spatial Average SAR<br>(Whole Body)       | 0.08 W/Kg                                   | 0.40 W/Kg                           |  |  |
| Spatial Peak SAR (Hands/Feet/Ankle/Wrist) | 4.00 W/Kg                                   | 20.00 W/Kg                          |  |  |

Table 4. RF exposure limits

#### Notes:

- 1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
- 2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

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# 2. Summary of Results

#### WCDMA Band II

| Mode    | Position    | Distance (mm) | СН   | Freq.  | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Measured<br>Avg.<br>Power | Scaling | Averaged SAR over<br>1g<br>(W/kg) |          | Plot page |
|---------|-------------|---------------|------|--------|--|---------------------------|---------|-----------------------------------|----------|-----------|
|         |             |               |      |        | referance (azini)                                  | (dBm)                     |         | Measured                          | Reported |           |
|         | Back side   | 0             | 9262 | 1852.4 | 17.50  | 17.45                     | 1.16%   | 0.064                             | 0.065    | -         |
|         | Top side    | 0             | 9262 | 1852.4 | 17.50  | 17.45                     | 1.16%   | 0.627                             | 0.634    | -         |
|         | Bottom side | 0             | 9262 | 1852.4 | 17.50  | 17.45                     | 1.16%   | 0.013                             | 0.014    | -         |
| WCDMA   | Right side  | 0             | 9262 | 1852.4 | 17.50  | 17.45                     | 1.16%   | 0.022                             | 0.023    | -         |
| Band II | Left side   | 0             | 9262 | 1852.4 | 17.50  | 17.45                     | 1.16%   | 1.360                             | 1.376    | 276       |
|         | Left side*  | 0             | 9262 | 1852.4 | 17.50  | 17.45                     | 1.16%   | 1.330                             | 1.345    | -         |
|         | Left side   | 0             | 9400 | 1880   | 17.50  | 17.43                     | 1.62%   | 1.280                             | 1.301    | -         |
|         | Left side   | 0             | 9538 | 1907.6 | 17.50  | 16.92                     | 14.29%  | 1.150                             | 1.314    | -         |

<sup>\* -</sup> repeated at the highest SAR measurement according to the KDB 865664 D01

#### **WCDMA Band IV**

| Mode    | Position    | Distance (mm) | СН   | Freq.<br>(MHz) | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Avg.<br>Power | Scaling | 1<br>(W/ | kg)      | Plot<br>page |
|---------|-------------|---------------|------|----------------|--|---------------|---------|----------|----------|--------------|
|         |             |               |      |                | ` ′  | (dBm)         |         | Measured | Reported |              |
|         | Back side   | 0             | 1513 | 1752.6         | 18.5   | 18.43         | 1.62%   | 0.053    | 0.054    | -            |
|         | Top side    | 0             | 1513 | 1752.6         | 18.5   | 18.43         | 1.62%   | 0.463    | 0.471    | -            |
|         | Bottom side | 0             | 1513 | 1752.6         | 18.5   | 18.43         | 1.62%   | 0.013    | 0.013    | -            |
| WCDMA   | Right side  | 0             | 1513 | 1752.6         | 18.5   | 18.43         | 1.62%   | 0.021    | 0.021    | -            |
| Band IV | Left side   | 0             | 1312 | 1712.4         | 18.5   | 18.18         | 7.65%   | 1.030    | 1.109    | -            |
|         | Left side   | 0             | 1412 | 1732.4         | 18.5   | 18.31         | 4.47%   | 1.070    | 1.118    | -            |
|         | Left side   | 0             | 1513 | 1752.6         | 18.5   | 18.43         | 1.62%   | 1.280    | 1.301    | 277          |
|         | Left side*  | 0             | 1513 | 1752.6         | 18.5   | 18.43         | 1.62%   | 1.260    | 1.280    | -            |

<sup>-</sup> repeated at the highest SAR measurement according to the KDB 865664 D01

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#### **WCDMA Band V**

| Mode   | Position    | Distance (mm) | СН   | Freq.<br>(MHz) | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Measured<br>Avg.<br>Power | Scaling | Averaged<br>1 <sub>1</sub><br>(W/ | g        | Plot page |
|--------|-------------|---------------|------|----------------|--|---------------------------|---------|-----------------------------------|----------|-----------|
|        |             |               |      |                | Tolerance (dbin)                                   | (dBm)                     |         | Measured                          | Reported |           |
|        | Back side   | 0             | 4233 | 846.6          | 22.5   | 22.45                     | 1.16%   | 0.189                             | 0.191    | -         |
|        | Top side    | 0             | 4132 | 826.4          | 22.500   | 22.280                    | 5.20%   | 1.060                             | 1.115    | -         |
|        | Top side    | 0             | 4183 | 836.6          | 22.500   | 22.260                    | 5.68%   | 1.170                             | 1.236    | -         |
|        | Top side    | 0             | 4233 | 846.6          | 22.500   | 22.450                    | 1.16%   | 1.240                             | 1.254    | •         |
| WCDMA  | Bottom side | 0             | 4233 | 846.6          | 22.5   | 22.45                     | 1.16%   | 0.020                             | 0.020    | •         |
| Band V | Right side  | 0             | 4233 | 846.6          | 22.5   | 22.45                     | 1.16%   | 0.013                             | 0.013    | -         |
|        | Left side   | 0             | 4132 | 826.4          | 22.5   | 22.28                     | 5.20%   | 1.250                             | 1.315    | -         |
|        | Left side   | 0             | 4183 | 836.6          | 22.500   | 22.260                    | 5.68%   | 1.340                             | 1.416    | •         |
|        | Left side   | 0             | 4233 | 846.6          | 22.5   | 22.45                     | 1.16%   | 1.410                             | 1.426    | 278       |
|        | Left side*  | 0             | 4233 | 846.6          | 22.5   | 22.45                     | 1.16%   | 1.390                             | 1.406    | -         |

<sup>-</sup> repeated at the highest SAR measurement according to the KDB 865664 D01

#### LTE FDD Band 2

| Mode   | Bandwidth | Modulation | RB    | RB          | Position    | Distance | СН    | Freq. | Max. Rated Avg.<br>Power + Max. | Measured<br>Avg. | Scaling | Averaged<br>1g (V | SAR over<br>V/kg) | Plot |
|--------|-----------|------------|-------|-------------|-------------|----------|-------|-------|---------------------------------|------------------|---------|-------------------|-------------------|------|
| Wode   | (MHz)     | Modulation | Size  | start       | Position    | (mm)     | Сп    | (MHz) | Tolerance (dBm)                 | Power<br>(dBm)   | Ü       | Measured          | Reported          | page |
|        |           |            |       |             | Back side   | 0        | 18700 | 1860  | 17.5                            | 17.37            | 3.04%   | 0.061             | 0.063             | -    |
|        |           |            |       |             | Top side    | 0        | 18700 | 1860  | 17.5                            | 17.37            | 3.04%   | 0.591             | 0.609             | -    |
|        |           |            |       |             | Bottom side | 0        | 18700 | 1860  | 17.5                            | 17.37            | 3.04%   | 0.012             | 0.013             | -    |
|        |           |            | 1 RB  | 0           | Right side  | 0        | 18700 | 1860  | 17.5                            | 17.37            | 3.04%   | 0.020             | 0.021             | -    |
|        |           |            |       |             | Left side   | 0        | 18700 | 1860  | 17.5                            | 17.37            | 3.04%   | 1.340             | 1.381             | 279  |
|        |           |            |       |             | Left side*  | 0        | 18700 | 1860  | 17.5                            | 17.37            | 3.04%   | 1.320             | 1.360             | -    |
|        |           |            |       |             | Left side   | 0        | 19100 | 1900  | 17.5                            | 16.99            | 12.46%  | 1.150             | 1.293             | -    |
|        |           |            |       | 50          | Left side   | 0        | 18900 | 1880  | 17.5                            | 17.34            | 3.75%   | 1.230             | 1.276             | -    |
|        |           |            |       | 0           | Left side   | 0        | 18700 | 1860  | 17.5                            | 17.30            | 4.71%   | 1.280             | 1.340             | -    |
|        |           |            |       | Ť           | Left side   | 0        | 19100 | 1900  | 17.5                            | 16.86            | 15.88%  | 1.140             | 1.321             | -    |
| LTE    | 20MHz     | QPSK       |       |             | Back side   | 0        | 18900 | 1880  | 17.5                            | 17.37            | 3.04%   | 0.060             | 0.062             | -    |
| Band 2 |           |            | 50 RB |             | Top side    | 0        | 18900 | 1880  | 17.5                            | 17.37            | 3.04%   | 0.576             | 0.594             | -    |
|        |           |            |       | 25          | Bottom side | 0        | 18900 | 1880  | 17.5                            | 17.37            | 3.04%   | 0.012             | 0.012             | -    |
|        |           |            |       |             | Right side  | 0        | 18900 | 1880  | 17.5                            | 17.37            | 3.04%   | 0.018             | 0.019             | -    |
|        |           |            |       |             | Left side   | 0        | 18900 | 1880  | 17.5                            | 17.37            | 3.04%   | 1.130             | 1.164             | -    |
|        |           |            |       |             | Back side   | 0        | 18900 | 1880  | 17.5                            | 17.48            | 0.46%   | 0.061             | 0.061             | -    |
|        |           |            |       |             | Top side    | 0        | 18900 | 1880  | 17.5                            | 17.48            | 0.46%   | 0.565             | 0.568             | -    |
|        |           |            |       | Bottom side | 0           | 18900    | 1880  | 17.5  | 17.48                           | 0.46%            | 0.012   | 0.012             | -                 |      |
|        |           |            | 100   | RB          | Right side  | 0        | 18900 | 1880  | 17.5                            | 17.48            | 0.46%   | 0.020             | 0.020             | -    |
|        |           |            |       |             | Left side   | 0        | 18700 | 1860  | 17.5                            | 17.34            | 3.75%   | 1.300             | 1.349             | -    |
|        |           |            |       |             | Left side   | 0        | 18900 | 1880  | 17.5                            | 17.48            | 0.46%   | 1.290             | 1.296             | -    |
|        |           |            |       |             | Left side   | 0        | 19100 | 1900  | 17.5                            | 16.86            | 15.88%  | 1.150             | 1.333             | -    |

<sup>-</sup> repeated at the highest SAR measurement according to the KDB 865664 D01

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#### LTE FDD Band 4

| Mode   | Bandwidth | Modulation | DR Sizo | DR etart | Position    | Distance | СН    | Freq.  | Max. Rated Avg.<br>Power + Max. | Measured<br>Avg. Power | Scaling |          | SAR over<br>V/kg) | Plot |
|--------|-----------|------------|---------|----------|-------------|----------|-------|--------|---------------------------------|------------------------|---------|----------|-------------------|------|
| Wode   | (MHz)     | Wodulation | ND OIZE | ND start | 1 Collicii  | (mm)     | 5     | (MHz)  | Tolerance (dBm)                 | (dBm)                  | Scaling | Measured | Reported          | page |
|        |           |            |         | 0        | Left side   | 0        | 20175 | 1732.5 | 18.5                            | 18.27                  | 5.44%   | 1.150    | 1.213             | -    |
|        |           |            |         | 50       | Left side   | 0        | 20050 | 1720   | 18.5                            | 18.35                  | 3.51%   | 1.110    | 1.149             | -    |
|        |           |            |         |          | Back side   | 0        | 20300 | 1745   | 18.5                            | 18.41                  | 2.09%   | 0.056    | 0.057             | -    |
|        |           |            | 1 RB    |          | Top side    | 0        | 20300 | 1745   | 18.5                            | 18.41                  | 2.09%   | 0.495    | 0.505             | -    |
|        |           |            | TIND    | 99       | Bottom side | 0        | 20300 | 1745   | 18.5                            | 18.41                  | 2.09%   | 0.013    | 0.013             | -    |
|        |           |            |         | 33       | Right side  | 0        | 20300 | 1745   | 18.5                            | 18.41                  | 2.09%   | 0.021    | 0.022             | -    |
|        |           |            |         |          | Left side   | 0        | 20300 | 1745   | 18.5                            | 18.41                  | 2.09%   | 1.330    | 1.358             | 280  |
|        |           |            |         |          | Left side*  | 0        | 20300 | 1745   | 18.5                            | 18.41                  | 2.09%   | 1.310    | 1.337             | -    |
|        |           |            |         | 0        | Left side   | 0        | 20175 | 1732.5 | 18.5                            | 18.18                  | 7.65%   | 1.170    | 1.259             | -    |
|        |           |            |         | 25       | Left side   | 0        | 20050 | 1720   | 18.5                            | 18.33                  | 3.99%   | 1.130    | 1.175             | -    |
| LTE    | 20MHz     | OPSK       |         |          | Back side   | 0        | 20300 | 1745   | 18.5                            | 18.36                  | 3.28%   | 0.054    | 0.056             | -    |
| Band 4 | ZOWII IZ  | Qi Oit     | 50 RB   |          | Top side    | 0        | 20300 | 1745   | 18.5                            | 18.36                  | 3.28%   | 0.478    | 0.494             | -    |
|        |           |            |         | 50       | Bottom side | 0        | 20300 | 1745   | 18.5                            | 18.36                  | 3.28%   | 0.012    | 0.012             | -    |
|        |           |            |         |          | Right side  | 0        | 20300 | 1745   | 18.5                            | 18.36                  | 3.28%   | 0.020    | 0.021             | -    |
|        |           |            |         |          | Left side   | 0        | 20300 | 1745   | 18.5                            | 18.36                  | 3.28%   | 1.260    | 1.301             | -    |
|        |           |            |         |          | Back side   | 0        | 20300 | 1745   | 18.5                            | 18.48                  | 0.46%   | 0.055    | 0.055             | -    |
|        |           |            |         |          | Top side    | 0        | 20300 | 1745   | 18.5                            | 18.48                  | 0.46%   | 0.481    | 0.483             | -    |
|        |           |            |         |          | Bottom side | 0        | 20300 | 1745   | 18.5                            | 18.48                  | 0.46%   | 0.013    | 0.013             | -    |
|        |           |            | 100     | RB       | Right side  | 0        | 20300 | 1745   | 18.5                            | 18.48                  | 0.46%   | 0.019    | 0.019             | -    |
|        |           |            |         |          | Left side   | 0        | 20050 | 1720   | 18.5                            | 18.31                  | 4.47%   | 1.140    | 1.191             | -    |
|        |           |            |         |          | Left side   | 0        | 20175 | 1732.5 | 18.5                            | 18.23                  | 6.41%   | 1.190    | 1.266             | -    |
|        |           |            |         |          | Left side   | 0        | 20300 | 1745   | 18.5                            | 18.48                  | 0.46%   | 1.300    | 1.306             | -    |

<sup>\* -</sup> repeated at the highest SAR measurement according to the KDB 865664 D01

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#### LTE FDD Band 5

| Mode   | Bandwidth | Modulation | DR Sizo | DR start | Position    | Distance | СН    | Freq. | Max. Rated Avg.<br>Power + Max. | Measured<br>Avg. Power | Scaling |          | SAR over<br>N/kg) | Plot |
|--------|-----------|------------|---------|----------|-------------|----------|-------|-------|---------------------------------|------------------------|---------|----------|-------------------|------|
| Wode   | (MHz)     | Wodulation | ND 0120 | ND start | 1 Coluen    | (mm)     | OH .  | (MHz) | Tolerance (dBm)                 | (dBm)                  | County  | Measured | Reported          | page |
|        |           |            |         |          | Back side   | 0        | 20600 | 844   | 22.5                            | 22.48                  | 0.46%   | 0.162    | 0.163             | -    |
|        |           |            |         |          | Top side    | 0        | 20525 | 836.5 | 22.5                            | 22.34                  | 3.75%   | 1.080    | 1.121             | -    |
|        |           |            |         |          | Top side    | 0        | 20600 | 844   | 22.5                            | 22.48                  | 0.46%   | 1.150    | 1.155             | -    |
|        |           |            |         | 0        | Bottom side | 0        | 20600 | 844   | 22.5                            | 22.48                  | 0.46%   | 0.017    | 0.017             | -    |
|        |           |            | 1 RB    |          | Right side  | 0        | 20600 | 844   | 22.5                            | 22.48                  | 0.46%   | 0.012    | 0.012             | -    |
|        |           |            | TIND    |          | Left side   | 0        | 20525 | 836.5 | 22.5                            | 22.34                  | 3.75%   | 1.210    | 1.255             | -    |
|        |           |            |         |          | Left side   | 0        | 20600 | 844   | 22.5                            | 22.48                  | 0.46%   | 1.270    | 1.276             | 281  |
|        |           |            |         |          | Left side*  | 0        | 20600 | 844   | 22.5                            | 22.48                  | 0.46%   | 1.250    | 1.256             | -    |
|        |           |            |         | 49       | Top side    | 0        | 20450 | 829   | 22.5                            | 22.26                  | 5.68%   | 1.040    | 1.099             | -    |
|        |           |            |         | 43       | Left side   | 0        | 20450 | 829   | 22.5                            | 22.26                  | 5.68%   | 1.190    | 1.258             | -    |
|        |           |            |         |          | Back side   | 0        | 20600 | 844   | 21.5                            | 21.49                  | 0.23%   | 0.127    | 0.127             | -    |
|        |           |            |         |          | Top side    | 0        | 20600 | 844   | 21.5                            | 21.49                  | 0.23%   | 0.910    | 0.912             | -    |
|        |           |            |         | 0        | Bottom side | 0        | 20600 | 844   | 21.5                            | 21.49                  | 0.23%   | 0.014    | 0.014             | -    |
| LTE    | 10MHz     | OPSK       |         |          | Right side  | 0        | 20600 | 844   | 21.5                            | 21.49                  | 0.23%   | 0.009    | 0.009             | -    |
| Band 5 | 10111112  | α. σ. τ    | 25 RB   |          | Left side   | 0        | 20600 | 844   | 21.5                            | 21.49                  | 0.23%   | 1.030    | 1.032             | -    |
|        |           |            |         | 12       | Top side    | 0        | 20525 | 836.5 | 21.5                            | 21.43                  | 1.62%   | 0.863    | 0.877             | -    |
|        |           |            |         | 12       | Left side   | 0        | 20525 | 836.5 | 21.5                            | 21.43                  | 1.62%   | 0.989    | 1.005             | -    |
|        |           |            |         | 25       | Top side    | 0        | 20450 | 829   | 21.5                            | 21.45                  | 1.16%   | 0.892    | 0.902             | -    |
|        |           |            |         | 20       | Left side   | 0        | 20450 | 829   | 21.5                            | 21.45                  | 1.16%   | 0.992    | 1.003             | -    |
|        |           |            |         |          | Back side   | 0        | 20450 | 829   | 21.5                            | 21.48                  | 0.46%   | 0.121    | 0.122             | -    |
|        |           |            |         |          | Top side    | 0        | 20450 | 829   | 21.5                            | 21.48                  | 0.46%   | 0.902    | 0.906             | -    |
|        |           |            |         |          | Top side    | 0        | 20525 | 836.5 | 21.5                            | 21.40                  | 2.33%   | 0.879    | 0.899             | -    |
|        |           | l          | l       | [        | Top side    | 0        | 20600 | 844   | 21.5                            | 21.47                  | 0.69%   | 0.911    | 0.917             | -    |
|        |           |            | 50      | RB       | Bottom side | 0        | 20450 | 829   | 21.5                            | 21.48                  | 0.46%   | 0.013    | 0.013             | -    |
|        |           |            |         |          | Right side  | 0        | 20450 | 829   | 21.5                            | 21.48                  | 0.46%   | 0.010    | 0.010             | -    |
|        |           |            |         |          | Left side   | 0        | 20450 | 829   | 21.5                            | 21.48                  | 0.46%   | 0.990    | 0.995             | -    |
|        |           | l          | l       | ļ        | Left side   | 0        | 20525 | 836.5 | 21.5                            | 21.40                  | 2.33%   | 0.988    | 1.011             | -    |
|        |           |            |         |          | Left side   | 0        | 20600 | 844   | 21.5                            | 21.47                  | 0.69%   | 1.010    | 1.017             | -    |

<sup>\* -</sup> repeated at the highest SAR measurement according to the KDB 865664 D01

#### LTE FDD Band 7

| Mode          | Bandwidth | Modulation | DD 0'   | DD -11   | Position    | Distance | СН    | Freq. | Max. Rated Avg.                 | Measured            | Ovellan |          | SAR over<br>V/kg) | Plot |
|---------------|-----------|------------|---------|----------|-------------|----------|-------|-------|---------------------------------|---------------------|---------|----------|-------------------|------|
| Mode          | (MHz)     | wodulation | RB Size | RB Start | Position    | (mm)     | Сп    | (MHz) | Power + Max.<br>Tolerance (dBm) | Avg. Power<br>(dBm) | Scaling | Measured | Reported          | page |
|               |           |            |         |          | Back side   | 0        | 21100 | 2535  | 17                              | 17.00               | 0.00%   | 0.131    | 0.131             | -    |
|               |           |            |         |          | Top side    | 0        | 21100 | 2535  | 17                              | 17.00               | 0.00%   | 0.404    | 0.404             | 282  |
|               |           |            |         | 0        | Bottom side | 0        | 21100 | 2535  | 17                              | 17.00               | 0.00%   | 0.067    | 0.067             | -    |
|               |           |            | 1 RB    |          | Right side  | 0        | 21100 | 2535  | 17                              | 17.00               | 0.00%   | 0.007    | 0.007             | -    |
|               |           |            |         |          | Left side   | 0        | 21100 | 2535  | 17                              | 17.00               | 0.00%   | 0.107    | 0.107             | -    |
|               |           |            |         | 50       | Top side    | 0        | 21350 | 2560  | 17                              | 16.91               | 2.09%   | 0.282    | 0.288             | -    |
|               |           |            |         | 99       | Top side    | 0        | 20850 | 2510  | 17                              | 16.93               | 1.62%   | 0.330    | 0.335             | -    |
|               |           |            |         |          | Back side   | 0        | 21100 | 2535  | 17                              | 16.98               | 0.46%   | 0.128    | 0.129             | -    |
| LTE<br>Band 7 | 20MHz     | QPSK       |         |          | Top side    | 0        | 21100 | 2535  | 17                              | 16.98               | 0.46%   | 0.350    | 0.352             | -    |
| Danu /        |           |            | 50 RB   | 50       | Bottom side | 0        | 21100 | 2535  | 17                              | 16.98               | 0.46%   | 0.065    | 0.065             | -    |
|               |           |            |         |          | Right side  | 0        | 21100 | 2535  | 17                              | 16.98               | 0.46%   | 0.007    | 0.007             | -    |
|               |           |            |         |          | Left side   | 0        | 21100 | 2535  | 17                              | 16.98               | 0.46%   | 0.102    | 0.102             | -    |
|               |           |            |         |          | Back side   | 0        | 21350 | 2560  | 17                              | 16.96               | 0.93%   | 0.108    | 0.109             | -    |
|               |           |            |         |          | Top side    | 0        | 21350 | 2560  | 17                              | 16.96               | 0.93%   | 0.216    | 0.218             | -    |
|               |           |            | 100     | RB       | Bottom side | 0        | 21350 | 2560  | 17                              | 16.96               | 0.93%   | 0.054    | 0.054             | -    |
|               |           |            |         |          | Right side  | 0        | 21350 | 2560  | 17                              | 16.96               | 0.93%   | 0.006    | 0.006             | -    |
|               |           |            |         |          | Left side   | 0        | 21350 | 2560  | 17                              | 16.96               | 0.93%   | 0.084    | 0.085             | -    |

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#### LTE FDD Band 12

| Mode    | Bandwidth | Modulation  | DR Sizo | DR start | Position    | Distance | СН    | Freq. | Max. Rated Avg.<br>Power + Max. | Measured<br>Avg. Power | Scaling |          | SAR over<br>V/kg) | Plot |
|---------|-----------|-------------|---------|----------|-------------|----------|-------|-------|---------------------------------|------------------------|---------|----------|-------------------|------|
| Wiode   | (MHz)     | viodulatioi | ND SIZE | ND start | i osidori   | (mm)     | CIT   | (MHz) | Tolerance (dBm)                 | (dBm)                  | Scaling | Measured | Reported          | page |
|         |           |             |         |          | Back side   | 0        | 23095 | 707.5 | 21                              | 20.96                  | 0.93%   | 0.167    | 0.169             | -    |
|         |           |             |         |          | Top side    | 0        | 23060 | 704   | 21                              | 20.89                  | 2.57%   | 1.160    | 1.190             | -    |
|         |           |             |         |          | Top side    | 0        | 23095 | 707.5 | 21                              | 20.96                  | 0.93%   | 1.110    | 1.120             | -    |
|         |           |             |         | 25       | Bottom side | 0        | 23095 | 707.5 | 21                              | 20.96                  | 0.93%   | 0.018    | 0.018             | -    |
|         |           |             | 1 RB    |          | Right side  | 0        | 23095 | 707.5 | 21                              | 20.96                  | 0.93%   | 0.011    | 0.011             | -    |
|         |           |             |         |          | Left side   | 0        | 23060 | 704   | 21                              | 20.89                  | 2.57%   | 1.240    | 1.272             | -    |
|         |           |             |         |          | Left side   | 0        | 23095 | 707.5 | 21                              | 20.96                  | 0.93%   | 1.230    | 1.241             | -    |
|         |           |             |         | 49       | Top side    | 0        | 23130 | 711   | 21                              | 20.95                  | 1.16%   | 1.070    | 1.082             | -    |
|         |           |             |         | 49       | Left side   | 0        | 23130 | 711   | 21                              | 20.95                  | 1.16%   | 1.270    | 1.285             | -    |
|         |           |             |         |          | Top side    | 0        | 23095 | 707.5 | 21                              | 20.61                  | 9.40%   | 1.120    | 1.225             | -    |
|         |           |             |         | 0        | Top side    | 0        | 23130 | 711   | 21                              | 20.45                  | 13.50%  | 1.080    | 1.226             | -    |
|         |           |             |         | U        | Left side   | 0        | 23095 | 707.5 | 21                              | 20.61                  | 9.40%   | 1.230    | 1.346             | -    |
|         |           |             |         |          | Left side   | 0        | 23130 | 711   | 21                              | 20.45                  | 13.50%  | 1.190    | 1.351             | -    |
| LTE     | 10MHz     | QPSK        | 25 RB   |          | Back side   | 0        | 23060 | 704   | 21                              | 20.76                  | 5.68%   | 0.172    | 0.182             | -    |
| Band 12 | TOWINZ    | QFSK        |         |          | Top side    | 0        | 23060 | 704   | 21                              | 20.76                  | 5.68%   | 1.170    | 1.236             | -    |
|         |           |             |         | 12       | Bottom side | 0        | 23060 | 704   | 21                              | 20.76                  | 5.68%   | 0.019    | 0.020             | -    |
|         |           |             |         |          | Right side  | 0        | 23060 | 704   | 21                              | 20.76                  | 5.68%   | 0.012    | 0.012             | -    |
|         |           |             |         |          | Left side   | 0        | 23060 | 704   | 21                              | 20.76                  | 5.68%   | 1.270    | 1.342             | -    |
|         |           |             |         |          | Back side   | 0        | 23060 | 704   | 21                              | 20.82                  | 4.23%   | 0.175    | 0.182             | -    |
|         |           |             |         |          | Top side    | 0        | 23060 | 704   | 21                              | 20.82                  | 4.23%   | 1.200    | 1.251             | -    |
|         |           |             |         |          | Top side    | 0        | 23095 | 707.5 | 21                              | 20.69                  | 7.40%   | 1.120    | 1.203             | -    |
|         |           |             |         |          | Top side    | 0        | 23130 | 711   | 21                              | 20.62                  | 9.14%   | 1.130    | 1.233             | -    |
| 1       |           |             |         | RB       | Bottom side | 0        | 23060 | 704   | 21                              | 20.82                  | 4.23%   | 0.019    | 0.020             |      |
|         |           |             | 50      | KD       | Right side  | 0        | 23060 | 704   | 21                              | 20.82                  | 4.23%   | 0.012    | 0.013             | -    |
|         |           |             | 1       |          | Left side   | 0        | 23060 | 704   | 21                              | 20.82                  | 4.23%   | 1.300    | 1.355             | 283  |
|         |           |             | l       |          | Left side*  | 0        | 23060 | 704   | 21                              | 20.82                  | 4.23%   | 1.280    | 1.334             | -    |
|         |           |             | 1       |          | Left side   | 0        | 23095 | 707.5 | 21                              | 20.69                  | 7.40%   | 1.240    | 1.332             |      |
|         | 1         |             | 1       |          | Left side   | 0        | 23130 | 711   | 21                              | 20.62                  | 9.14%   | 1.230    | 1.342             | -    |

<sup>\* -</sup> repeated at the highest SAR measurement according to the KDB 865664 D01

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#### LTE FDD Band 13

| Mode    | Bandwidth | Modulation | RR Size | RR start | Position    | Distance | CH    | Freq. | Max. Rated Avg. | Measured<br>Avg. Power | Scaling |          | SAR over<br>V/kg) | Plot |
|---------|-----------|------------|---------|----------|-------------|----------|-------|-------|-----------------|------------------------|---------|----------|-------------------|------|
| Wiode   | (MHz)     | viodulatio | ND GIZE | ND start | 1 Coluen    | (mm)     | 611   | (MHz) | Tolerance (dBm) | (dBm)                  | J J     | Measured | Reported          | page |
|         |           |            |         |          | Top side    | 0        | 23230 | 782   | 22.5            | 22.11                  | 9.40%   | 1.090    | 1.192             | -    |
|         |           |            |         | 0        | Left side   | 0        | 23230 | 782   | 22.5            | 22.11                  | 9.40%   | 1.240    | 1.357             | 284  |
|         |           |            |         |          | Left side*  | 0        | 23230 | 782   | 22.5            | 22.11                  | 9.40%   | 1.220    | 1.335             | -    |
|         |           |            |         |          | Back side   | 0        | 23230 | 782   | 22.5            | 22.32                  | 4.23%   | 0.186    | 0.194             | -    |
|         |           |            | 1 RB    |          | Top side    | 0        | 23230 | 782   | 22.5            | 22.32                  | 4.23%   | 1.060    | 1.105             | -    |
|         |           |            | TIND    | 25       | Bottom side | 0        | 23230 | 782   | 22.5            | 22.32                  | 4.23%   | 0.020    | 0.020             | -    |
|         |           |            |         |          | Right side  | 0        | 23230 | 782   | 22.5            | 22.32                  | 4.23%   | 0.013    | 0.013             | -    |
|         |           |            |         |          | Left side   | 0        | 23230 | 782   | 22.5            | 22.32                  | 4.23%   | 1.150    | 1.199             | -    |
|         |           |            |         | 49       | Top side    | 0        | 23230 | 782   | 22.5            | 22.06                  | 10.66%  | 1.010    | 1.118             | -    |
|         |           |            |         | 43       | Left side   | 0        | 23230 | 782   | 22.5            | 22.06                  | 10.66%  | 1.120    | 1.239             | -    |
|         |           |            |         |          | Back side   | 0        | 23230 | 782   | 22.5            | 22.01                  | 11.94%  | 0.181    | 0.203             | -    |
| LTE     | 10MHz     | QPSK       |         |          | Top side    | 0        | 23230 | 782   | 22.5            | 22.01                  | 11.94%  | 1.050    | 1.175             | -    |
| Band 13 | TOWN 12   | QI SIX     |         | 0        | Bottom side | 0        | 23230 | 782   | 22.5            | 22.01                  | 11.94%  | 0.019    | 0.021             | -    |
|         |           |            |         |          | Right side  | 0        | 23230 | 782   | 22.5            | 22.01                  | 11.94%  | 0.012    | 0.013             |      |
|         |           |            | 25 RB   |          | Left side   | 0        | 23230 | 782   | 22.5            | 22.01                  | 11.94%  | 1.160    | 1.299             | -    |
|         |           |            |         | 12       | Top side    | 0        | 23230 | 782   | 22.5            | 21.83                  | 16.68%  | 1.020    | 1.190             | -    |
|         |           |            |         | 12       | Left side   | 0        | 23230 | 782   | 22.5            | 21.83                  | 16.68%  | 1.130    | 1.318             | -    |
|         |           |            |         | 25       | Top side    | 0        | 23230 | 782   | 22.5            | 21.91                  | 14.55%  | 1.030    | 1.180             | -    |
|         |           |            |         | 25       | Left side   | 0        | 23230 | 782   | 22.5            | 21.91                  | 14.55%  | 1.150    | 1.317             | -    |
|         |           |            |         |          | Back side   | 0        | 23230 | 782   | 22.5            | 21.89                  | 15.08%  | 0.171    | 0.197             |      |
|         |           |            |         |          | Top side    | 0        | 23230 | 782   | 22.5            | 21.89                  | 15.08%  | 1.010    | 1.162             | -    |
|         |           |            | 50      | RB       | Bottom side | 0        | 23230 | 782   | 22.5            | 21.89                  | 15.08%  | 0.016    | 0.019             | -    |
|         |           |            |         |          | Right side  | 0        | 23230 | 782   | 22.5            | 21.89                  | 15.08%  | 0.011    | 0.013             |      |
|         |           |            |         |          | Left side   | 0        | 23230 | 782   | 22.5            | 21.89                  | 15.08%  | 1.030    | 1.185             | -    |

<sup>\* -</sup> repeated at the highest SAR measurement according to the KDB 865664 D01

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#### LTE FDD Band 17

| Mode    | Bandwidth | Modulation  | DR Sizo | BB start | Position    | Distance | СН    | Freq. | Max. Rated Avg.<br>Power + Max. | Measured<br>Avg. Power | Scaling |          | SAR over<br>N/kg) | Plot |
|---------|-----------|-------------|---------|----------|-------------|----------|-------|-------|---------------------------------|------------------------|---------|----------|-------------------|------|
| Wode    | (MHz)     | viodulatioi | KB SIZE | ND Start | FOSITION    | (mm)     | СП    | (MHz) | Tolerance (dBm)                 | (dBm)                  | Scaling | Measured | Reported          | page |
|         |           |             |         |          | Back side   | 0        | 23780 | 709   | 21                              | 20.99                  | 0.23%   | 0.168    | 0.168             | -    |
|         |           |             |         |          | Top side    | 0        | 23780 | 709   | 21                              | 20.99                  | 0.23%   | 1.140    | 1.143             | -    |
|         |           |             |         | 0        | Bottom side | 0        | 23780 | 709   | 21                              | 20.99                  | 0.23%   | 0.018    | 0.018             | -    |
|         |           |             |         | Ü        | Right side  | 0        | 23780 | 709   | 21                              | 20.99                  | 0.23%   | 0.011    | 0.011             | -    |
|         |           |             | 1 RB    |          | Left side   | 0        | 23780 | 709   | 21                              | 20.99                  | 0.23%   | 1.290    | 1.293             | 285  |
|         |           |             | TIND    |          | Left side*  | 0        | 23780 | 709   | 21                              | 20.99                  | 0.23%   | 1.260    | 1.263             | -    |
|         |           |             |         |          | Top side    | 0        | 23790 | 710   | 21                              | 20.92                  | 1.86%   | 1.040    | 1.059             | -    |
|         |           |             |         | 25       | Top side    | 0        | 23800 | 711   | 21                              | 20.96                  | 0.93%   | 1.110    | 1.120             | -    |
|         |           |             |         | 25       | Left side   | 0        | 23790 | 710   | 21                              | 20.92                  | 1.86%   | 1.210    | 1.232             | -    |
|         |           |             |         |          | Left side   | 0        | 23800 | 711   | 21                              | 20.96                  | 0.93%   | 1.260    | 1.272             | -    |
|         |           |             |         | 0        | Top side    | 0        | 23800 | 711   | 21                              | 20.82                  | 4.23%   | 1.060    | 1.105             | -    |
|         |           |             |         | U        | Left side   | 0        | 23800 | 711   | 21                              | 20.82                  | 4.23%   | 1.230    | 1.282             | -    |
|         |           |             |         |          | Back side   | 0        | 23780 | 709   | 21                              | 20.91                  | 2.09%   | 0.165    | 0.168             | -    |
| LTE     | 10MHz     | QPSK        |         |          | Top side    | 0        | 23780 | 709   | 21                              | 20.91                  | 2.09%   | 1.060    | 1.082             | -    |
| Band 17 | TOWINZ    | QFSK        | 25 RB   |          | Top side    | 0        | 23790 | 710   | 21                              | 20.78                  | 5.20%   | 1.030    | 1.084             | -    |
|         |           |             |         | 12       | Bottom side | 0        | 23780 | 709   | 21                              | 20.91                  | 2.09%   | 0.017    | 0.017             | -    |
|         |           |             |         |          | Right side  | 0        | 23780 | 709   | 21                              | 20.91                  | 2.09%   | 0.011    | 0.011             | -    |
|         |           |             |         |          | Left side   | 0        | 23780 | 709   | 21                              | 20.91                  | 2.09%   | 1.260    | 1.286             | -    |
|         |           |             |         |          | Left side   | 0        | 23790 | 710   | 21                              | 20.78                  | 5.20%   | 1.220    | 1.283             | -    |
|         |           |             |         |          | Back side   | 0        | 23780 | 709   | 21                              | 20.89                  | 2.57%   | 0.166    | 0.170             | -    |
|         |           |             |         |          | Top side    | 0        | 23780 | 709   | 21                              | 20.89                  | 2.57%   | 1.070    | 1.097             | -    |
|         |           |             |         |          | Top side    | 0        | 23790 | 710   | 21                              | 20.84                  | 3.75%   | 1.090    | 1.131             | -    |
|         |           |             |         |          | Top side    | 0        | 23800 | 711   | 21                              | 20.82                  | 4.23%   | 1.050    | 1.094             | -    |
|         | 1         |             | 50      | RB       | Bottom side | 0        | 23780 | 709   | 21                              | 20.89                  | 2.57%   | 0.017    | 0.018             | -    |
|         | 1         |             | 1       |          | Right side  | 0        | 23780 | 709   | 21                              | 20.89                  | 2.57%   | 0.011    | 0.011             | -    |
|         |           |             | l       |          | Left side   | 0        | 23780 | 709   | 21                              | 20.89                  | 2.57%   | 1.260    | 1.292             | -    |
|         | 1         |             | 1       |          | Left side   | 0        | 23790 | 710   | 21                              | 20.84                  | 3.75%   | 1.240    | 1.287             | -    |
|         | 1         | 1           |         |          | Left side   | 0        | 23800 | 711   | 21                              | 20.82                  | 4.23%   | 1.230    | 1.282             | -    |

<sup>\* -</sup> repeated at the highest SAR measurement according to the KDB 865664 D01

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#### LTE FDD Band 26

| Mode    | Bandwidth  | Modulation | RB Size | RB start | Position    | Distance | СН    | Freq. | Max. Rated Avg.<br>Power + Max. | Measured<br>Avg. | Scaling |          | SAR over<br>V/kg) | Plot |
|---------|------------|------------|---------|----------|-------------|----------|-------|-------|---------------------------------|------------------|---------|----------|-------------------|------|
|         | (MHz)      |            |         |          |             | (mm)     |       | (MHz) | Tolerance (dBm)                 | Power<br>(dBm)   | ,       | Measured | Reported          | page |
|         |            |            |         |          | Back side   | 0        | 26965 | 841.5 | 22.5                            | 22.46            | 0.93%   | 0.185    | 0.187             | -    |
|         |            |            |         |          | Top side    | 0        | 26825 | 822.5 | 22.5                            | 22.23            | 6.41%   | 1.170    | 1.245             |      |
|         |            |            |         |          | Top side    | 0        | 26865 | 831.5 | 22.5                            | 22.15            | 8.39%   | 1.120    | 1.214             |      |
|         |            |            |         |          | Top side    | 0        | 26965 | 841.5 | 22.5                            | 22.46            | 0.93%   | 1.260    | 1.272             |      |
|         |            |            | 1 RB    | 74       | Bottom side | 0        | 26965 | 841.5 | 22.5                            | 22.46            | 0.93%   | 0.019    | 0.020             |      |
|         |            |            | TIND    | /-       | Right side  | 0        | 26965 | 841.5 | 22.5                            | 22.46            | 0.93%   | 0.013    | 0.013             |      |
|         |            |            |         |          | Left side   | 0        | 26825 | 822.5 | 22.5                            | 22.23            | 6.41%   | 1.120    | 1.192             | -    |
|         |            |            |         |          | Left side   | 0        | 26865 | 831.5 | 22.5                            | 22.15            | 8.39%   | 1.110    | 1.203             | -    |
|         |            |            |         |          | Left side   | 0        | 26965 | 841.5 | 22.5                            | 22.46            | 0.93%   | 1.290    | 1.302             | 286  |
|         |            |            |         |          | Left side*  | 0        | 26965 | 841.5 | 22.5                            | 22.46            | 0.93%   | 1.270    | 1.282             |      |
|         |            |            |         |          | Top side    | 0        | 26825 | 822.5 | 21.5                            | 21.42            | 1.86%   | 0.926    | 0.943             | -    |
|         |            |            |         | 18       | Top side    | 0        | 26865 | 831.5 | 21.5                            | 21.41            | 2.09%   | 0.905    | 0.924             |      |
|         |            |            |         | 10       | Left side   | 0        | 26825 | 822.5 | 21.5                            | 21.42            | 1.86%   | 0.935    | 0.952             |      |
| LTE     | 15MHz      | QPSK       |         |          | Left side   | 0        | 26865 | 831.5 | 21.5                            | 21.41            | 2.09%   | 0.921    | 0.940             |      |
| Band 26 | 1 JIVII 12 | QI SIX     | 36 RB   |          | Back side   | 0        | 26965 | 841.5 | 21.5                            | 21.49            | 0.23%   | 0.142    | 0.142             |      |
|         |            |            |         |          | Top side    | 0        | 26965 | 841.5 | 21.5                            | 21.49            | 0.23%   | 0.935    | 0.937             |      |
|         |            |            |         | 37       | Bottom side | 0        | 26965 | 841.5 | 21.5                            | 21.49            | 0.23%   | 0.016    | 0.016             |      |
|         |            |            |         |          | Right side  | 0        | 26965 | 841.5 | 21.5                            | 21.49            | 0.23%   | 0.011    | 0.011             |      |
|         |            |            |         |          | Left side   | 0        | 26965 | 841.5 | 21.5                            | 21.49            | 0.23%   | 0.985    | 0.987             |      |
|         |            |            |         |          | Back side   | 0        | 26965 | 841.5 | 21.5                            | 21.48            | 0.46%   | 0.138    | 0.139             |      |
|         |            |            |         |          | Top side    | 0        | 26825 | 822.5 | 21.5                            | 21.34            | 3.75%   | 0.911    | 0.945             |      |
|         |            |            |         |          | Top side    | 0        | 26865 | 831.5 | 21.5                            | 21.42            | 1.86%   | 0.912    | 0.929             |      |
|         |            |            |         |          | Top side    | 0        | 26965 | 841.5 | 21.5                            | 21.48            | 0.46%   | 0.925    | 0.929             |      |
|         |            |            | 75      | RB       | Bottom side | 0        | 26965 | 841.5 | 21.5                            | 21.48            | 0.46%   | 0.014    | 0.014             | -    |
|         |            |            |         |          | Right side  | 0        | 26965 | 841.5 | 21.5                            | 21.48            | 0.46%   | 0.010    | 0.010             | -    |
|         |            |            |         |          | Left side   | 0        | 26825 | 822.5 | 21.5                            | 21.34            | 3.75%   | 0.923    | 0.958             |      |
|         |            |            |         |          | Left side   | 0        | 26865 | 831.5 | 21.5                            | 21.42            | 1.86%   | 0.915    | 0.932             |      |
|         | 1          |            |         |          | Left side   | 0        | 26965 | 841.5 | 21.5                            | 21.48            | 0.46%   | 0.967    | 0.971             | -    |

<sup>\* -</sup> repeated at the highest SAR measurement according to the KDB 865664 D01

#### LTE FDD Band 30

| Mode    | Bandwidth<br>(MHz) | Modulation  | DD Sizo | BB start  | Position    | Distance | СН    | Freq. | Max. Rated Avg.<br>Power + Max. | Measured<br>Avg. Power | Scaling |          | SAR over<br>V/kg) | Plot |
|---------|--------------------|-------------|---------|-----------|-------------|----------|-------|-------|---------------------------------|------------------------|---------|----------|-------------------|------|
| Wode    | (MHz)              | viodulatioi | NB Size | ND Start  | Position    | (mm)     | СП    | (MHz) | Tolerance (dBm)                 | (dBm)                  | · ·     | Measured | Reported          | page |
|         |                    |             |         |           | Back side   | 0        | 27710 | 2310  | 19                              | 18.95                  | 1.16%   | 0.184    | 0.186             |      |
|         |                    |             |         |           | Top side    | 0        | 27710 | 2310  | 19                              | 18.95                  | 1.16%   | 0.763    | 0.772             | -    |
|         |                    |             |         | 0         | Bottom side | 0        | 27710 | 2310  | 19                              | 18.95                  | 1.16%   | 0.066    | 0.067             | -    |
|         |                    |             | 1 RB    |           | Right side  | 0        | 27710 | 2310  | 19                              | 18.95                  | 1.16%   | 0.013    | 0.013             | -    |
|         |                    |             |         |           | Left side   | 0        | 27710 | 2310  | 19                              | 18.95                  | 1.16%   | 0.912    | 0.923             | -    |
|         |                    |             | 25      | Left side | 0           | 27710    | 2310  | 19    | 18.81                           | 4.47%                  | 0.923   | 0.964    | -                 |      |
|         |                    |             |         | 49        | Left side   | 0        | 27710 | 2310  | 19                              | 18.87                  | 3.04%   | 0.926    | 0.954             | -    |
|         |                    |             |         | 0         | Left side   | 0        | 27710 | 2310  | 19                              | 18.84                  | 3.75%   | 0.930    | 0.965             | -    |
|         |                    |             |         |           | Back side   | 0        | 27710 | 2310  | 19                              | 18.89                  | 2.57%   | 0.218    | 0.224             | -    |
| LTE     | 10MHz              | QPSK        |         |           | Top side    | 0        | 27710 | 2310  | 19                              | 18.89                  | 2.57%   | 0.812    | 0.833             | -    |
| Band 30 | 10111112           | Qi Oit      | 25 RB   | 12        | Bottom side | 0        | 27710 | 2310  | 19                              | 18.89                  | 2.57%   | 0.067    | 0.069             | -    |
|         |                    |             |         |           | Right side  | 0        | 27710 | 2310  | 19                              | 18.89                  | 2.57%   | 0.013    | 0.014             | -    |
|         |                    |             |         |           | Left side   | 0        | 27710 | 2310  | 19                              | 18.89                  | 2.57%   | 0.927    | 0.951             | -    |
|         |                    |             |         | 25        | Left side   | 0        | 27710 | 2310  | 19                              | 18.85                  | 3.51%   | 0.932    | 0.965             | -    |
|         |                    |             |         |           | Back side   | 0        | 27710 | 2310  | 19                              | 19.00                  | 0.00%   | 0.226    | 0.226             | -    |
|         |                    |             |         |           | Top side    | 0        | 27710 | 2310  | 19                              | 19.00                  | 0.00%   | 0.842    | 0.842             | -    |
|         |                    |             | 50      | RB        | Bottom side | 0        | 27710 | 2310  | 19                              | 19.00                  | 0.00%   | 0.067    | 0.067             | -    |
|         |                    |             | 50      |           | Right side  | 0        | 27710 | 2310  | 19                              | 19.00                  | 0.00%   | 0.014    | 0.014             | -    |
|         |                    |             |         |           | Left side   | 0        | 27710 | 2310  | 19                              | 19.00                  | 0.00%   | 0.971    | 0.971             | 287  |
| l       |                    |             |         |           | Left side*  | 0        | 27710 | 2310  | 19                              | 19.00                  | 0.00%   | 0.966    | 0.966             | -    |

<sup>\* -</sup> repeated at the highest SAR measurement according to the KDB 865664 D01

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## LTE TDD Band 38

| Mode    | Bandwidth<br>(MHz) | و مناور المعاد | DD Cine | DD atout | Position    | Distance | СН    | Freq. | Max. Rated Avg.<br>Power + Max. |                     | Caslina |          | SAR over<br>W/kg) | Plot |
|---------|--------------------|----------------|---------|----------|-------------|----------|-------|-------|---------------------------------|---------------------|---------|----------|-------------------|------|
| Mode    | (MHz)              | viodulation    | KB SIZE | RB Start | Position    | (mm)     | 5     | (MHz) | Tolerance (dBm)                 | Avg. Power<br>(dBm) | Scaling | Measured | Reported          | page |
|         |                    |                |         |          | Back side   | 0        | 38000 | 2595  | 24                              | 22.78               | 32.43%  | 0.034    | 0.045             | -    |
|         |                    |                |         |          | Top side    | 0        | 38000 | 2595  | 24                              | 22.78               | 32.43%  | 0.563    | 0.746             | 288  |
|         |                    |                |         | 0        | Top side    | 0        | 38150 | 2610  | 24                              | 22.49               | 41.58%  | 0.464    | 0.657             | -    |
|         |                    |                | 1 RB    | U        | Bottom side | 0        | 38000 | 2595  | 24                              | 22.78               | 32.43%  | 0.032    | 0.042             | -    |
|         |                    |                |         |          | Right side  | 0        | 38000 | 2595  | 24                              | 22.78               | 32.43%  | 0.036    | 0.047             | -    |
|         |                    |                |         |          | Left side   | 0        | 38000 | 2595  | 24                              | 22.78               | 32.43%  | 0.111    | 0.147             | -    |
|         |                    |                |         | 99       | Top side    | 0        | 37850 | 2580  | 24                              | 22.30               | 47.91%  | 0.501    | 0.741             | -    |
| LTE     |                    |                |         |          | Back side   | 0        | 38150 | 2610  | 23                              | 21.52               | 40.60%  | 0.025    | 0.034             | -    |
| Band 38 | 20MHz              | QPSK           |         |          | Top side    | 0        | 38150 | 2610  | 23                              | 21.52               | 40.60%  | 0.370    | 0.520             | -    |
| Dana so |                    |                | 50 RB   | 0        | Bottom side | 0        | 38150 | 2610  | 23                              | 21.52               | 40.60%  | 0.021    | 0.030             | -    |
|         |                    |                |         |          | Right side  | 0        | 38150 | 2610  | 23                              | 21.52               | 40.60%  | 0.024    | 0.034             | -    |
|         |                    |                |         |          | Left side   | 0        | 38150 | 2610  | 23                              | 21.52               | 40.60%  | 0.088    | 0.124             | -    |
|         |                    |                |         |          | Back side   | 0        | 38150 | 2610  | 23                              | 21.50               | 41.25%  | 0.024    | 0.034             | -    |
|         |                    |                |         |          | Top side    | 0        | 38150 | 2610  | 23                              | 21.50               | 41.25%  | 0.362    | 0.511             | -    |
|         |                    |                | 100     | RB       | Bottom side | 0        | 38150 | 2610  | 23                              | 21.50               | 41.25%  | 0.021    | 0.029             | -    |
|         |                    |                |         |          | Right side  | 0        | 38150 | 2610  | 23                              | 21.50               | 41.25%  | 0.024    | 0.033             | -    |
|         |                    |                |         |          | Left side   | 0        | 38150 | 2610  | 23                              | 21.50               | 41.25%  | 0.084    | 0.119             | -    |

### LTE TDD Band 41

| Mode           | Bandwidth<br>(MHz) | Modulatior | RB Size | RB start | Position    | Distance (mm) | СН    | Freq.<br>(MHz) | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Measured<br>Avg. Power<br>(dBm) |        | Averaged SAR over<br>1g (W/kg) |          | Plot |
|----------------|--------------------|------------|---------|----------|-------------|---------------|-------|----------------|--|---------------------------------|--------|--------------------------------|----------|------|
|                |                    |            |         |          |             |               |       |                |  |                                 |        | Measured                       | Reported | page |
| LTE<br>Band 41 | 20MHz              | QPSK .     | 1 RB    | 0        | Back side   | 0             | 40620 | 2593           | 24   | 22.65                           | 36.46% | 0.036                          | 0.050    | -    |
|                |                    |            |         |          | Top side    | 0             | 40185 | 2549.5         | 24   | 22.44                           | 43.22% | 0.609                          | 0.872    | 289  |
|                |                    |            |         |          | Top side    | 0             | 40620 | 2593           | 24   | 22.65                           | 36.46% | 0.577                          | 0.787    | -    |
|                |                    |            |         |          | Top side    | 0             | 41055 | 2636.5         | 24   | 22.61                           | 37.72% | 0.383                          | 0.527    | -    |
|                |                    |            |         |          | Top side    | 0             | 41490 | 2680           | 24   | 22.49                           | 41.58% | 0.405                          | 0.573    | -    |
|                |                    |            |         |          | Bottom side | 0             | 40620 | 2593           | 24   | 22.65                           | 36.46% | 0.034                          | 0.047    | -    |
|                |                    |            |         |          | Right side  | 0             | 40620 | 2593           | 24   | 22.65                           | 36.46% | 0.040                          | 0.055    | -    |
|                |                    |            |         |          | Left side   | 0             | 40620 | 2593           | 24   | 22.65                           | 36.46% | 0.117                          | 0.160    | -    |
|                |                    |            |         | 99       | Top side    | 0             | 39750 | 2506           | 24   | 22.35                           | 46.22% | 0.540                          | 0.790    | -    |
|                |                    |            | 50 RB   | 25       | Back side   | 0             | 41055 | 2636.5         | 23   | 21.60                           | 38.04% | 0.026                          | 0.035    | -    |
|                |                    |            |         |          | Top side    | 0             | 41055 | 2636.5         | 23   | 21.60                           | 38.04% | 0.292                          | 0.403    | -    |
|                |                    |            |         |          | Bottom side | 0             | 41055 | 2636.5         | 23   | 21.60                           | 38.04% | 0.024                          | 0.033    | -    |
|                |                    |            |         |          | Right side  | 0             | 41055 | 2636.5         | 23   | 21.60                           | 38.04% | 0.026                          | 0.035    | -    |
|                |                    |            |         |          | Left side   | 0             | 41055 | 2636.5         | 23   | 21.60                           | 38.04% | 0.069                          | 0.095    | -    |
|                |                    |            |         | ) RB     | Back side   | 0             | 41055 | 2636.5         | 23   | 21.62                           | 37.40% | 0.025                          | 0.034    | -    |
|                |                    |            |         |          | Top side    | 0             | 41055 | 2636.5         | 23   | 21.62                           | 37.40% | 0.286                          | 0.393    | -    |
|                |                    |            | 100     |          | Bottom side | 0             | 41055 | 2636.5         | 23   | 21.62                           | 37.40% | 0.021                          | 0.029    | -    |
|                |                    |            |         |          | Right side  | 0             | 41055 | 2636.5         | 23   | 21.62                           | 37.40% | 0.024                          | 0.033    | -    |
|                |                    |            |         |          | Left side   | 0             | 41055 | 2636.5         | 23   | 21.62                           | 37.40% | 0.071                          | 0.098    | -    |

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#### LTE FDD Band 66

| Mode           | Bandwidth<br>(MHz) | Modulatior | RB Size | RB start | Position    | Distance (mm) | СН     | Freq.<br>(MHz) | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Measured<br>Avg. Power<br>(dBm) | Scaling | Averaged SAR over<br>1g (W/kg) |          | Plot |
|----------------|--------------------|------------|---------|----------|-------------|---------------|--------|----------------|--|---------------------------------|---------|--------------------------------|----------|------|
|                |                    |            |         |          |             |               |        |                |  |                                 |         | Measured                       | Reported | page |
| LTE<br>Band 66 | 20MHz              | QPSK       | 1 RB    | 0        | Back side   | 0             | 132572 | 1770           | 18.5   | 18.45                           | 1.16%   | 0.054                          | 0.055    | -    |
|                |                    |            |         |          | Top side    | 0             | 132572 | 1770           | 18.5   | 18.45                           | 1.16%   | 0.485                          | 0.491    | -    |
|                |                    |            |         |          | Bottom side | 0             | 132572 | 1770           | 18.5   | 18.45                           | 1.16%   | 0.013                          | 0.013    | -    |
|                |                    |            |         |          | Right side  | 0             | 132572 | 1770           | 18.5   | 18.45                           | 1.16%   | 0.022                          | 0.022    | -    |
|                |                    |            |         |          | Left side   | 0             | 132572 | 1770           | 18.5   | 18.45                           | 1.16%   | 1.340                          | 1.356    | -    |
|                |                    |            |         |          | Left side   | 0             | 132072 | 1720           | 18.5   | 18.29                           | 4.95%   | 1.120                          | 1.175    | -    |
|                |                    |            |         | 99       | Left side   | 0             | 132322 | 1745           | 18.5   | 18.44                           | 1.39%   | 1.300                          | 1.318    | -    |
|                |                    |            | 50 RB   | 0        | Left side   | 0             | 132572 | 1770           | 18.5   | 18.43                           | 1.62%   | 1.350                          | 1.372    | -    |
|                |                    |            |         | 50       | Left side   | 0             | 132072 | 1720           | 18.5   | 18.24                           | 6.17%   | 1.150                          | 1.221    | -    |
|                |                    |            |         |          | Back side   | 0             | 132322 | 1745           | 18.5   | 18.44                           | 1.39%   | 0.052                          | 0.053    | -    |
|                |                    |            |         |          | Top side    | 0             | 132322 | 1745           | 18.5   | 18.44                           | 1.39%   | 0.462                          | 0.468    | -    |
|                |                    |            |         |          | Bottom side | 0             | 132322 | 1745           | 18.5   | 18.44                           | 1.39%   | 0.013                          | 0.013    | -    |
|                |                    |            |         |          | Right side  | 0             | 132322 | 1745           | 18.5   | 18.44                           | 1.39%   | 0.022                          | 0.022    | -    |
|                |                    |            |         |          | Left side   | 0             | 132322 | 1745           | 18.5   | 18.44                           | 1.39%   | 1.220                          | 1.237    | -    |
|                |                    |            | 100 RB  |          | Back side   | 0             | 132322 | 1745           | 18.5   | 18.46                           | 0.93%   | 0.054                          | 0.054    | -    |
|                |                    |            |         |          | Top side    | 0             | 132322 | 1745           | 18.5   | 18.46                           | 0.93%   | 0.471                          | 0.475    | -    |
|                |                    |            |         |          | Bottom side | 0             | 132322 | 1745           | 18.5   | 18.46                           | 0.93%   | 0.013                          | 0.013    | -    |
|                |                    |            |         |          | Right side  | 0             | 132322 | 1745           | 18.5   | 18.46                           | 0.93%   | 0.021                          | 0.021    | -    |
|                |                    |            |         |          | Left side   | 0             | 132072 | 1720           | 18.5   | 18.39                           | 2.57%   | 1.200                          | 1.231    | -    |
|                |                    |            |         |          | Left side   | 0             | 132322 | 1745           | 18.5   | 18.46                           | 0.93%   | 1.280                          | 1.292    | -    |
|                |                    |            |         |          | Left side   | 0             | 132572 | 1770           | 18.5   | 18.45                           | 1.16%   | 1.410                          | 1.426    | 291  |
|                |                    |            |         |          | Left side*  | 0             | 132572 | 1770           | 18.5   | 18.45                           | 1.16%   | 1.380                          | 1.396    | -    |

<sup>\* -</sup> repeated at the highest SAR measurement according to the KDB 865664 D01

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## WLAN Antenna (Tablet mode)

| Antenna | Mode                    | Position    | Distance (mm) | СН  | Freq.<br>(MHz) | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Measured<br>Avg. Power<br>(dBm) | Scaling | Averaged S<br>(W/ | kg)      | Plot page |
|---------|-------------------------|-------------|---------------|-----|----------------|--|---------------------------------|---------|-------------------|----------|-----------|
|         |                         |             |               |     |                | , ,  | . ,                             |         | Measured          | Reported |           |
|         |                         | Back side   | 0             | 1   | 2412           | 18.00  | 17.93                           | 101.62% | 0.196             | 0.199    | -         |
|         |                         | Top side    | 0             | 1   | 2412           | 18.00  | 17.93                           | 101.62% | 0.688             | 0.699    | 292       |
|         |                         | Top side    | 0             | 6   | 2437           | 18.00  | 17.92                           | 101.86% | 0.615             | 0.626    | -         |
|         | WLAN802.11 b            | Top side    | 0             | 11  | 2462           | 18.00  | 17.87                           | 103.04% | 0.599             | 0.617    | -         |
|         |                         | Bottom side | 0             | 1   | 2412           | 18.00  | 17.93                           | 101.62% | 0.005             | 0.005    | -         |
|         |                         | Right side  | 0             | 1   | 2412           | 18.00  | 17.93                           | 101.62% | 0.010             | 0.010    | -         |
|         |                         | Left side   | 0             | 1   | 2412           | 18.00  | 17.93                           | 101.62% | 0.146             | 0.148    | -         |
|         |                         | Back side   | 0             | 46  | 5230           | 16.00  | 15.88                           | 102.80% | 0.219             | 0.225    | -         |
|         | WLAN802.11 n(40M) 5.2G  | Top side    | 0             | 46  | 5230           | 16.00  | 15.88                           | 102.80% | 0.664             | 0.683    | 293       |
|         |                         | Bottom side | 0             | 46  | 5230           | 16.00  | 15.88                           | 102.80% | 0.095             | 0.098    | -         |
|         |                         | Right side  | 0             | 46  | 5230           | 16.00  | 15.88                           | 102.80% | 0.034             | 0.035    | -         |
|         |                         | Left side   | 0             | 46  | 5230           | 16.00  | 15.88                           | 102.80% | 0.069             | 0.071    | -         |
|         | WLAN802.11 n(40M) 5.3G  | Back side   | 0             | 54  | 5270           | 16.00  | 15.93                           | 101.62% | 0.171             | 0.174    | -         |
| Main    |                         | Top side    | 0             | 54  | 5270           | 16.00  | 15.93                           | 101.62% | 0.520             | 0.528    | 294       |
|         |                         | Bottom side | 0             | 54  | 5270           | 16.00  | 15.93                           | 101.62% | 0.074             | 0.075    | -         |
|         |                         | Right side  | 0             | 54  | 5270           | 16.00  | 15.93                           | 101.62% | 0.025             | 0.025    | -         |
|         |                         | Left side   | 0             | 54  | 5270           | 16.00  | 15.93                           | 101.62% | 0.090             | 0.091    | -         |
|         |                         | Back side   | 0             | 138 | 5690           | 16.00  | 15.86                           | 103.28% | 0.180             | 0.186    | -         |
|         |                         | Top side    | 0             | 138 | 5690           | 16.00  | 15.86                           | 103.28% | 0.622             | 0.642    | 295       |
|         | WLAN802.11 ac(80M) 5.6G | Bottom side | 0             | 138 | 5690           | 16.00  | 15.86                           | 103.28% | 0.081             | 0.084    | -         |
|         |                         | Right side  | 0             | 138 | 5690           | 16.00  | 15.86                           | 103.28% | 0.030             | 0.031    | -         |
|         |                         | Left side   | 0             | 138 | 5690           | 16.00  | 15.86                           | 103.28% | 0.078             | 0.080    | -         |
|         |                         | Back side   | 0             | 155 | 5775           | 16.00  | 15.86                           | 103.28% | 0.183             | 0.189    | -         |
|         |                         | Top side    | 0             | 155 | 5775           | 16.00  | 15.86                           | 103.28% | 0.661             | 0.683    | 296       |
|         | WLAN802.11 ac(80M) 5.8G | Bottom side | 0             | 155 | 5775           | 16.00  | 15.86                           | 103.28% | 0.093             | 0.096    | -         |
|         |                         | Right side  | 0             | 155 | 5775           | 16.00  | 15.86                           | 103.28% | 0.039             | 0.040    | -         |
|         |                         | Left side   | 0             | 155 | 5775           | 16.00  | 15.86                           | 103.28% | 0.099             | 0.102    | -         |

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## **WLAN Aux Antenna (Tablet mode)**

| Antenna | Mode                     | Position    | Distance<br>(mm) | СН  | Freq. | Max. Rated Avg.<br>Power + Max. | Measured<br>Avg. Power | Scaling | Averaged S<br>(W/ |          | Plot page |
|---------|--------------------------|-------------|------------------|-----|-------|---------------------------------|------------------------|---------|-------------------|----------|-----------|
|         |                          |             | ()               |     | (2)   | Tolerance (dBm)                 | (dBm)                  |         | Measured          | Reported | page      |
|         |                          | Back side   | 0                | 1   | 2412  | 18.00                           | 17.97                  | 100.69% | 0.181             | 0.182    | -         |
|         |                          | Top side    | 0                | 1   | 2412  | 18.00                           | 17.97                  | 100.69% | 0.540             | 0.544    | 297       |
|         | WLAN802.11 b             | Bottom side | 0                | 1   | 2412  | 18.00                           | 17.97                  | 100.69% | 0.013             | 0.013    | -         |
|         |                          | Right side  | 0                | 1   | 2412  | 18.00                           | 17.97                  | 100.69% | 0.070             | 0.070    | -         |
|         |                          | Left side   | 0                | 1   | 2412  | 18.00                           | 17.97                  | 100.69% | 0.003             | 0.003    | -         |
|         |                          | Back side   | 0                | 39  | 2441  | 11.50                           | 11.15                  | 108.39% | 0.037             | 0.040    | -         |
|         |                          | Top side    | 0                | 39  | 2441  | 11.50                           | 11.15                  | 108.39% | 0.106             | 0.115    | 298       |
|         | Bluetooth(GFSK)          | Bottom side | 0                | 39  | 2441  | 11.50                           | 11.15                  | 108.39% | 0.003             | 0.003    | -         |
|         |                          | Right side  | 0                | 39  | 2441  | 11.50                           | 11.15                  | 108.39% | 0.014             | 0.015    | -         |
|         |                          | Left side   | 0                | 39  | 2441  | 11.50                           | 11.15                  | 108.39% | 0.001             | 0.001    | -         |
|         |                          | Back side   | 0                | 38  | 5190  | 16.50                           | 16.48                  | 100.46% | 0.218             | 0.219    | -         |
|         |                          | Top side    | 0                | 38  | 5190  | 16.50                           | 16.48                  | 100.46% | 0.761             | 0.765    | 299       |
|         | WLAN802.11 n(40M) 5.2G   | Bottom side | 0                | 38  | 5190  | 16.50                           | 16.48                  | 100.46% | 0.044             | 0.044    | -         |
|         | (1,7,1)                  | Right side  | 0                | 38  | 5190  | 16.50                           | 16.48                  | 100.46% | 0.067             | 0.067    | -         |
|         |                          | Left side   | 0                | 38  | 5190  | 16.50                           | 16.48                  | 100.46% | 0.050             | 0.050    | -         |
| Aux     |                          | Back side   | 0                | 54  | 5270  | 16.50                           | 16.36                  | 103.28% | 0.193             | 0.199    | -         |
|         |                          | Top side    | 0                | 54  | 5270  | 16.50                           | 16.36                  | 103.28% | 0.654             | 0.675    | 300       |
|         | WLAN802.11 n(40M) 5.3G   | Bottom side | 0                | 54  | 5270  | 16.50                           | 16.36                  | 103.28% | 0.058             | 0.060    | -         |
|         |                          | Right side  | 0                | 54  | 5270  | 16.50                           | 16.36                  | 103.28% | 0.091             | 0.094    | -         |
|         |                          | Left side   | 0                | 54  | 5270  | 16.50                           | 16.36                  | 103.28% | 0.061             | 0.063    | -         |
|         |                          | Back side   | 0                | 138 | 5690  | 16.50                           | 16.33                  | 103.99% | 0.262             | 0.272    | -         |
|         |                          | Top side    | 0                | 106 | 5530  | 14.00                           | 13.90                  | 102.33% | 0.745             | 0.762    |           |
|         | WLAN802.11 ac(80M) 5.6G  | Top side    | 0                | 138 | 5690  | 16.50                           | 16.33                  | 103.99% | 0.766             | 0.797    | 301       |
|         | WLANOUZ.TT ac(OUNI) 5.0G | Bottom side | 0                | 138 | 5690  | 16.50                           | 16.33                  | 103.99% | 0.041             | 0.043    | -         |
|         |                          | Right side  | 0                | 138 | 5690  | 16.50                           | 16.33                  | 103.99% | 0.034             | 0.035    |           |
|         |                          | Left side   | 0                | 138 | 5690  | 16.50                           | 16.33                  | 103.99% | 0.042             | 0.043    | -         |
|         |                          | Back side   | 0                | 155 | 5775  | 16.50                           | 16.50                  | 100.00% | 0.157             | 0.157    | -         |
|         |                          | Top side    | 0                | 155 | 5775  | 16.50                           | 16.50                  | 100.00% | 0.647             | 0.647    | 302       |
|         | WLAN802.11 ac(80M) 5.8G  | Bottom side | 0                | 155 | 5775  | 16.50                           | 16.50                  | 100.00% | 0.031             | 0.031    | -         |
|         |                          | Right side  | 0                | 155 | 5775  | 16.50                           | 16.50                  | 100.00% | 0.015             | 0.015    | -         |
|         |                          | Left side   | 0                | 155 | 5775  | 16.50                           | 16.50                  | 100.00% | 0.033             | 0.033    | -         |

Note:

Scaling = 
$$\frac{\text{reported SAR}}{\text{measured SAR}} = \frac{P2 \text{(mW)}}{P1 \text{(mW)}} = 10^{\left(\frac{Pp-Pq}{48}\right) \text{(dSm)}}$$

Reported SAR = measured SAR \* (scaling)

Where P2 is maximum specified power, P1 is measured conducted power

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# 3. Simultaneous Transmission Analysis

#### **Simultaneous Transmission Scenarios:**

| NO. | Simultaneous Transmit Configurations                    | Body |
|-----|---|------|
| 1   | UMTS + 2.4GHz WLAN Main / 2.4GHz WLAN Aux / 2.4GHz MIMO | YES  |
| 2   | UMTS + 5GHz WLAN Main / 5GHz WLAN Aux / 5GHz MIMO       | YES  |
| 3   | UMTS + BT   | YES  |
| 4   | UMTS + 2.4/5GHz WLAN Maiin + BT                         | YES  |
| 5   | LTE + 2.4GHz WLAN Main / 2.4GHz WLAN Aux / 2.4GHz MIMO  | YES  |
| 6   | LTE + 5GHz WLAN Main / 5GHz WLAN Aux / 5GHz MIMO        | YES  |
| 7   | LTE + BT  | YES  |
| 8   | LTE + 2.4/5GHz WLAN Main + BT                           | YES  |

- 1) WWAN and WLAN may transmit simultaneously.
- 2) Bluetooth and WLAN Aux share the same antenna path.
- 3) Bluetooth can transmit with WLAN Main simultaneously.

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#### 3.1 Estimated SAR calculation

According to KDB447498 D01v06 - When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

Estimated SAR = 
$$\frac{\text{Max.tune up power (mW)}}{\text{Min.test separation distance(mm)}} \times \frac{\sqrt{f(GHz)}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

#### 3.2 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by (SAR1 + SAR2)^1.5/Ri, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each

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antenna in the pair, and Ri is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

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#### Back side WWAN + 2.4G WLAN

| No. | Position  | Conditions   | Distance<br>(mm)  | Max.<br>WWAN            | Max.<br>WLAN | Max.<br>WLAN Aux | SAR Sum      | SPLSR                     |
|-----|-----------|--------------|-------------------|-------------------------|--------------|------------------|--------------|---------------------------|
|     |           | WCDMA Band 2 | 0                 | 0.065                   | 0.199        | 0.182            | 0.446        | ΣSAR<1.6,                 |
|     |           |              | , and the second  | 0.000                   | 000          | 002              | 01110        | Not required              |
|     |           | WCDMA Band 4 | 0                 | 0.054                   | 0.199        | 0.182            | 0.435        | ΣSAR<1.6,                 |
|     |           |              |                   |                         |              |                  |              | Not required              |
|     |           | WCDMA Band 5 | 0                 | 0.191                   | 0.199        | 0.182            | 0.572        | ΣSAR<1.6,                 |
|     |           |              |                   |                         |              |                  |              | Not required<br>ΣSAR<1.6, |
|     |           | LTE Band 2   | 0                 | 0.063                   | 0.199        | 0.182            | 0.444        | Not required              |
|     |           |              |                   |                         |              |                  |              | ΣSAR<1.6,                 |
|     |           | LTE Band 4   | 0                 | 0.057 0.199 0.182       | 0.182        | 0.438            | Not required |                           |
|     |           |              | _                 |                         |              |                  |              | ΣSAR<1.6,                 |
|     |           | LTE Band 5   | TE Band 5 0 0.163 | 0.163                   | 0.199        | 0.182            | 0.544        | Not required              |
|     |           | LTE David 7  | 0                 | 0.404                   | 0.400        | 0.400            | 0.540        | ΣSAR<1.6,                 |
|     |           | LTE Band 7   | 0                 | 0.131 0.199 0.182 0.512 | 0.512        | Not required     |              |                           |
| 1   | Back side | LTE Band 12  | 0                 | 0.182                   | 0.199        | 0.182            | 0.563        | ΣSAR<1.6,                 |
| '   |           | LTL Danu 12  | U                 | 0.102                   | 0.199        | 0.102            | 0.303        | Not required              |
|     |           | LTE Band 13  | 0                 | 0.203                   | 0.199        | 0.182            | 0.584        | ΣSAR<1.6,                 |
|     |           | ETE Bana 10  | <u> </u>          | 0.200                   | 0.199        | 0.102            | 0.004        | Not required              |
|     |           | LTE Band 17  | 0                 | 0.170                   | 0.199        | 0.182            | 0.551        | ΣSAR<1.6,                 |
|     |           |              | _                 |                         |              |                  |              | Not required              |
|     |           | LTE Band 26  | 0                 | 0.187                   | 0.199        | 0.182            | 0.568        | ΣSAR<1.6,                 |
|     |           |              |                   |                         |              |                  |              | Not required<br>ΣSAR<1.6, |
|     |           | LTE Band 30  | 0                 | 0.226                   | 0.199        | 0.182            | 0.607        | Not required              |
|     |           |              |                   |                         |              |                  |              | ΣSAR<1.6,                 |
|     |           | LTE Band 38  | 0                 | 0.045                   | 0.199        | 0.182            | 0.426        | Not required              |
|     |           |              | 0                 | 0.050                   | 0.400        | 0.400            | 0.404        | ΣSAR<1.6,                 |
|     |           | LTE Band 41  | 0                 | 0.050                   | 0.199        | 0.182            | 0.431        | Not required              |
|     |           | LTE Band 66  | 0                 | 0.055                   | 0.400        | 0.400            | 0.400        | ΣSAR<1.6,                 |
|     |           | LIE Dallu 00 | U                 | 0.055                   | 0.199        | 0.182            | 0.436        | Not required              |

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#### Back side WWAN + 5G WLAN

| No. | Position  | Conditions   | Distance (mm) | Max.<br>WWAN          | Max.<br>WLAN | Max.<br>WLAN Aux | SAR Sum      | SPLSR                     |           |
|-----|-----------|--------------|---------------|-----------------------|--------------|------------------|--------------|---------------------------|-----------|
|     |           | WCDMA Band 2 | 0             | 0.065                 | 0.225        | 0.272            | 0.562        | ΣSAR<1.6,                 |           |
|     |           |              | , i           |                       | 0.220        | 0.2.2            | 0.002        | Not required              |           |
|     |           | WCDMA Band 4 | 0             | 0.054                 | 0.225        | 0.272            | 0.551        | ΣSAR<1.6,                 |           |
|     |           |              |               |                       |              |                  |              | Not required              |           |
|     |           | WCDMA Band 5 | 0             | 0.191                 | 0.225        | 0.272            | 0.688        | ΣSAR<1.6,                 |           |
|     |           |              |               |                       |              |                  |              | Not required<br>ΣSAR<1.6, |           |
|     |           | LTE Band 2   | 0             | 0.063                 | 0.225        | 0.272            | 0.560        | Not required              |           |
|     |           |              |               |                       |              |                  |              | ΣSAR<1.6,                 |           |
|     |           | LTE Band 4   | 0             | 0 0.057 0.225 0.2     | 0.272        | 0.554            | Not required |                           |           |
|     |           | 1.75.5       |               | 0.400                 | 0.005        | 0.070            | 2 222        | ΣSAR<1.6,                 |           |
|     |           | LTE Band 5   | 0             | 0.163 0.225 0.272 0.6 | 0.660        | Not required     |              |                           |           |
|     |           | LTE Dand 7   | 0             | 0.404                 | 0.225        | 0.070            | 0.000        | ΣSAR<1.6,                 |           |
|     |           | LTE Band 7   | U             |                       | 0.628        | Not required     |              |                           |           |
| 2   | Back side | LTE Band 12  | 0             | 0.182                 | 0.225        | 0.272            | 0.679        | ΣSAR<1.6,                 |           |
| _   |           | LTL Danu 12  | U             | 0.102                 | 0.225        | 0.272            | 0.073        | Not required              |           |
|     |           | LTF Band 13  | LTE Band 13   | 0                     | 0.203        | 0.225            | 0.272        | 0.700                     | ΣSAR<1.6, |
|     |           |              | , ,           | 0.203                 | 0.220        | 0.2.2            | 000          | Not required              |           |
|     |           | LTE Band 17  | 0             | 0.170                 | 0.225        | 0.272            | 0.667        | ΣSAR<1.6,                 |           |
|     |           |              |               |                       |              |                  |              | Not required              |           |
|     |           | LTE Band 26  | 0             | 0.187                 | 0.225        | 0.272            | 0.684        | ΣSAR<1.6,<br>Not required |           |
|     |           |              |               |                       |              |                  |              | ΣSAR<1.6,                 |           |
|     |           | LTE Band 30  | 0             | 0.226                 | 0.225        | 0.272            | 0.723        | Not required              |           |
|     |           |              | _             |                       |              |                  |              | ΣSAR<1.6,                 |           |
|     |           | LTE Band 38  | 0             | 0.045                 | 0.225        | 0.272            | 0.542        | Not required              |           |
|     |           | LTC Dand 44  | 0             | 0.050                 | 0.005        | 0.070            | 0.547        | ΣSAR<1.6,                 |           |
|     |           | LTE Band 41  | 0             | 0.050                 | 0.225        | 0.272            | 0.547        | Not required              |           |
|     |           | LTE Band 66  | 0             | 0.055                 | 0.225        | 0.272            | 0.552        | ΣSAR<1.6,                 |           |
|     |           | LIL Danu 00  | U             | 0.000                 | 0.223        | 0.212            | 0.552        | Not required              |           |

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#### Back side WWAN + 2.4G WLAN Main + BT

| WCDMA Band 2 | 0   |   |   |   |  |  |
|--------------|---|---|---|---|--|--|
|              |   | 0.065   | 0.199   | 0.040   | 0.304  | ΣSAR<1.6,  |
|              | _   |   |   |   |  | Not required   |
| WCDMA Band 4 | 0   | 0.054   | 0.199   | 0.040   | 0.293  | ΣSAR<1.6,<br>Not required  |
|              |   |   |   |   |  | ΣSAR<1.6,  |
| WCDMA Band 5 | 0   | 0.191   | 0.199   | 0.040   | 0.430  | Not required   |
| LTE Band 2   | 0   | 0.063   | 0.100   | 0.040   | 0.302  | ΣSAR<1.6,  |
| LTL Dana 2   | U   | 0.003   | 0.199   | 0.040   | 0.302  | Not required   |
| LTE Band 4   | 0   | 0.057   | 0.199 0.040   | 0.296   | ΣSAR<1.6,  |  |
|              | ·   |   |   |   |  | Not required   |
| LTE Band 5   | 0   | 0.163   | 0.163 0.199 0.040   | 0.402   | ΣSAR<1.6,  |  |
|              |   |   |   |   |  | Not required<br>ΣSAR<1.6,  |
| LTE Band 7   | 0   | 0.131 0.199 0.040 0.370   | Not required  |   |  |  |
| LTE Pand 12  | 0   | 0.102   | 0.100   | 0.040   | 0.421  | ΣSAR<1.6,  |
| LIE Dallu 12 | U   | 0.162   | 0.199   | 0.040   | 0.421  | Not required   |
| LTE Band 13  | 0   | 0.203   | 0.199   | 0.040   | 0.442  | ΣSAR<1.6,  |
|              | ·   |   |   |   |  | Not required   |
| LTE Band 17  | 0   | 0.170   | 0.199   | 0.040   | 0.409  | ΣSAR<1.6,  |
|              |   |   |   |   |  | Not required<br>ΣSAR<1.6,  |
| LTE Band 26  | 0   | 0.187   | 0.199   | 0.040   | 0.426  | Not required   |
| LTE Bond 20  | ^   | 0.226   | 0.100   | 0.040   | 0.465  | ΣSAR<1.6,  |
| LTE Danu 30  | U   | 0.226   | 0.199   | 0.040   | 0.465  | Not required   |
| LTF Band 38  | 0   | 0.045   | 0.199   | 0.040   | 0.284  | ΣSAR<1.6,  |
| ETE Band oo  | Ŭ   | 0.010   | 0.100   | 0.010   | 0.201  | Not required   |
| LTE Band 41  | 0   | 0.050   | 0.199   | 0.040   | 0.289  | ΣSAR<1.6,  |
|              |   | 0.000   | 0.109   |   |  | Not required<br>ΣSAR<1.6,  |
| LTE Band 66  | 0   | 0.055   | 0.199   | 0.040   | 0.294  | Not required   |
| •            | WCDMA Band 5  LTE Band 2  LTE Band 4  LTE Band 5  LTE Band 7  E LTE Band 12  LTE Band 13  LTE Band 17  LTE Band 26  LTE Band 30  LTE Band 38  LTE Band 41 | WCDMA Band 5 0  LTE Band 2 0  LTE Band 4 0  LTE Band 5 0  LTE Band 7 0  E LTE Band 12 0  LTE Band 13 0  LTE Band 17 0  LTE Band 26 0  LTE Band 30 0  LTE Band 38 0  LTE Band 41 0 | WCDMA Band 5 0 0.191  LTE Band 2 0 0.063  LTE Band 4 0 0.057  LTE Band 5 0 0.163  LTE Band 7 0 0.131  e LTE Band 12 0 0.182  LTE Band 13 0 0.203  LTE Band 17 0 0.170  LTE Band 26 0 0.187  LTE Band 30 0 0.226  LTE Band 38 0 0.045  LTE Band 41 0 0.050 | WCDMA Band 5 0 0.191 0.199  LTE Band 2 0 0.063 0.199  LTE Band 4 0 0.057 0.199  LTE Band 5 0 0.163 0.199  LTE Band 7 0 0.131 0.199  EXECUTE Band 12 0 0.182 0.199  LTE Band 13 0 0.203 0.199  LTE Band 17 0 0.170 0.199  LTE Band 26 0 0.187 0.199  LTE Band 30 0 0.226 0.199  LTE Band 38 0 0.045 0.199  LTE Band 41 0 0.050 0.199 | WCDMA Band 5         0         0.191         0.199         0.040           LTE Band 2         0         0.063         0.199         0.040           LTE Band 4         0         0.057         0.199         0.040           LTE Band 5         0         0.163         0.199         0.040           LTE Band 7         0         0.131         0.199         0.040           LTE Band 12         0         0.182         0.199         0.040           LTE Band 13         0         0.203         0.199         0.040           LTE Band 17         0         0.170         0.199         0.040           LTE Band 26         0         0.187         0.199         0.040           LTE Band 30         0         0.226         0.199         0.040           LTE Band 38         0         0.045         0.199         0.040           LTE Band 41         0         0.050         0.199         0.040 | WCDMA Band 5         0         0.191         0.199         0.040         0.430           LTE Band 2         0         0.063         0.199         0.040         0.302           LTE Band 4         0         0.057         0.199         0.040         0.296           LTE Band 5         0         0.163         0.199         0.040         0.402           LTE Band 7         0         0.131         0.199         0.040         0.370           e         LTE Band 12         0         0.182         0.199         0.040         0.421           LTE Band 13         0         0.203         0.199         0.040         0.442           LTE Band 17         0         0.170         0.199         0.040         0.409           LTE Band 26         0         0.187         0.199         0.040         0.426           LTE Band 30         0         0.226         0.199         0.040         0.284           LTE Band 41         0         0.050         0.199         0.040         0.289 |

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#### Back side WWAN + 5G WLAN Main + BT

| No. | Position  | Conditions   | Distance<br>(mm) | Max.<br>WWAN                                      | Max.<br>WLAN | Bluetooth    | SAR Sum | SPLSR                     |           |
|-----|-----------|--------------|------------------|---|--------------|--------------|---------|---------------------------|-----------|
|     |           | WCDMA Band 2 | 0                | 0.065   | 0.225        | 0.040        | 0.330   | ΣSAR<1.6,                 |           |
|     |           |              |                  |   |              |              |         | Not required              |           |
|     |           | WCDMA Band 4 | 0                | 0.054   | 0.225        | 0.040        | 0.319   | ΣSAR<1.6,                 |           |
|     |           |              |                  |   |              |              |         | Not required<br>ΣSAR<1.6, |           |
|     |           | WCDMA Band 5 | 0                | 0.191   | 0.225        | 0.040        | 0.456   | Not required              |           |
|     |           |              |                  |   |              |              |         | ΣSAR<1.6,                 |           |
|     |           | LTE Band 2   | 0                | 0.063   | 0.225        | 0.040        | 0.328   | Not required              |           |
|     |           | LTE Band 4   | 0                | 0.057   | 0.225        | 0.040        | 0.222   | ΣSAR<1.6,                 |           |
|     |           | LTE Danu 4   | U                | 0 0.057 0.225 0.040 0.32                          | 0.322        | Not required |         |                           |           |
|     |           | LTE Band 5   | 0                | 0.163   | 0.225        | 0.040        | 0.428   | ΣSAR<1.6,                 |           |
|     | -         |              | ·                | 0.100   | 0.220        | 0.040        | 0.420   | Not required              |           |
|     |           | LTE Band 7   | 0                | 0.131 0.225 0.040 0.396 <sup>Σ</sup> <sub>N</sub> | ΣSAR<1.6,    |              |         |                           |           |
|     | Back side |              |                  |   |              |              |         | Not required<br>ΣSAR<1.6, |           |
| 4   |           | LTE Band 12  | 0                | 0.182   | 0.225        | 0.040        | 0.447   | Not required              |           |
|     |           | 175 0 140    |                  |   |              |              |         | ΣSAR<1.6,                 |           |
|     |           | LTE Band 13  | 0                | 0.203   | 0.225        | 0.040        | 0.468   | Not required              |           |
|     |           | LTE D 147    | 0                | 0.470   | 0.005        | 0.040        | 0.405   | ΣSAR<1.6,                 |           |
|     |           | LTE Band 17  | 0                | 0.170   | 0.225        | 0.040        | 0.435   | Not required              |           |
|     |           |              | LTE Band 26      | 0   | 0.187        | 0.225        | 0.040   | 0.452                     | ΣSAR<1.6, |
|     |           | LTL Danu 20  | U                | 0.107   | 0.223        | 0.040        | 0.432   | Not required              |           |
|     |           | LTE Band 30  | 0                | 0.226   | 0.225        | 0.040        | 0.491   | ΣSAR<1.6,                 |           |
|     |           |              | ,                |   |              |              |         | Not required              |           |
|     |           | LTE Band 38  | 0                | 0.045   | 0.225        | 0.040        | 0.310   | ΣSAR<1.6,                 |           |
|     |           |              |                  |   |              |              |         | Not required<br>ΣSAR<1.6, |           |
|     |           | LTE Band 41  | 0                | 0.050   | 0.225        | 0.040        | 0.315   | Not required              |           |
|     | <u> </u>  |              | _                | +   |              |              |         | ΣSAR<1.6,                 |           |
|     |           | LTE Band 66  | 0                | 0.055   | 0.225        | 0.040        | 0.320   | Not required              |           |

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### Top side WWAN + 2.4G WLAN

| No. | Position | Conditions   | Distance (mm) | Max.<br>WWAN                   | Max.<br>WLAN      | Max.<br>WLAN Aux     | SAR Sum              | SPLSR                     |                           |
|-----|----------|--------------|---------------|--------------------------------|-------------------|----------------------|----------------------|---------------------------|---------------------------|
|     |          | WCDMA Band 2 | 0             | 0.634                          | 0.699             | 0.544                | 1.877                | Analyzed<br>as below      |                           |
|     |          | WCDMA Band 4 | 0             | 0.471                          | 0.699             | 0.544                | 1.714                | Analyzed<br>as below      |                           |
|     |          | WCDMA Band 5 | 0             | 1.254                          | 0.699             | 0.544                | 2.497                | Analyzed<br>as below      |                           |
|     |          | LTE Band 2   | 0             | 0.609                          | 0.699             | 0.544                | 1.852                | Analyzed<br>as below      |                           |
|     |          | LTE Band 4   | 0             | 1.155 0.699 0.544 <b>2.3</b> 9 | 0.544             | 1.748                | Analyzed<br>as below |                           |                           |
|     |          | LTE Band 5   | 0             |                                | 2.398             | Analyzed<br>as below |                      |                           |                           |
|     |          | LTE Band 7   | 0             | 0.404                          | 0.404 0.699 0.544 | 0.544                | 1.647                | Analyzed<br>as below      |                           |
| 5   | Top side | LTE Band 12  | 0             | 1.251                          | 0.699             | 0.544                | 2.494                | ΣSAR<1.6,<br>Not required |                           |
|     |          | LTE Band 13  | 0             | 1.192                          | 0.699             | 0.544                | 2.435                | Analyzed<br>as below      |                           |
|     |          |              | LTE Band 17   | 0                              | 1.143             | 0.699                | 0.544                | 2.386                     | ΣSAR<1.6,<br>Not required |
|     |          | LTE Band 26  | 0             | 1.272                          | 0.699             | 0.544                | 2.515                | Analyzed<br>as below      |                           |
|     |          | LTE Band 30  | 0             | 0.842                          | 0.699             | 0.544                | 2.085                | Analyzed<br>as below      |                           |
|     |          | LTE Band 38  | 0             | 0.746                          | 0.699             | 0.544                | 1.989                | Analyzed<br>as below      |                           |
|     |          | LTE Band 41  | 0             | 0.872                          | 0.699             | 0.544                | 2.115                | Analyzed<br>as below      |                           |
|     |          | LTE Band 66  | 0             | 0.491                          | 0.699             | 0.544                | 1.734                | Analyzed<br>as below      |                           |

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## Top side WWAN + 5G WLAN

| No. | Position | Conditions   | Distance (mm)      | Max.<br>WWAN | Max.<br>WLAN                                      | Max.<br>WLAN Aux | SAR Sum              | SPLSR                |       |       |                      |
|-----|----------|--------------|--------------------|--------------|---|------------------|----------------------|----------------------|-------|-------|----------------------|
|     |          | WCDMA Band 2 | 0                  | 0.634        | 0.683   | 0.797            | 2.114                | Analyzed as below    |       |       |                      |
|     |          | WCDMA Band 4 | 0                  | 0.471        | 0.683   | 0.797            | 1.951                | Analyzed<br>as below |       |       |                      |
|     |          | WCDMA Band 5 | 0                  | 1.254        | 0.683   | 0.797            | 2.734                | Analyzed as below    |       |       |                      |
|     |          | LTE Band 2   | 0                  | 0.609        | 0.683         0.797           0.683         0.797 | 2.089            | Analyzed<br>as below |                      |       |       |                      |
|     |          | LTE Band 4   | 0                  | 0.505        | 0.683   | 0.797            | 1.985                | Analyzed<br>as below |       |       |                      |
|     |          | LTE Band 5   | 0                  | 1.155        | .155 0.683 0.797 <b>2.6</b> 5                     | 2.635            | Analyzed as below    |                      |       |       |                      |
|     |          | LTE Band 7   | nd 7 0 0.404 0.683 | 0.683        | 0.797   | 1.884            | Analyzed as below    |                      |       |       |                      |
| 6   | Top side | LTE Band 12  | 0                  | 1.251        | 0.683   | 0.797            | 2.731                | Analyzed as below    |       |       |                      |
|     |          | LTE Band 13  | 0                  | 1.192        | 0.683   | 0.797            | 2.672                | Analyzed as below    |       |       |                      |
|     |          |              |                    |              | LTE Band 17                                       | 0                | 1.143                | 0.683                | 0.797 | 2.623 | Analyzed<br>as below |
|     |          | LTE Band 26  | 0                  | 1.272        | 0.683   | 0.797            | 2.752                | Analyzed as below    |       |       |                      |
|     |          | LTE Band 30  | 0                  | 0.842        | 0.683   | 0.797            | 2.322                | Analyzed<br>as below |       |       |                      |
|     |          | LTE Band 38  | 0                  | 0.746        | 0.683   | 0.797            | 2.226                | Analyzed<br>as below |       |       |                      |
|     |          | LTE Band 41  | 0                  | 0.872        | 0.683   | 0.797            | 2.352                | Analyzed as below    |       |       |                      |
|     |          | LTE Band 66  | 0                  | 0.491        | 0.683   | 0.797            | 1.971                | Analyzed<br>as below |       |       |                      |

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### Top side WWAN + 2.4G WLAN Main + BT

| No. | Position | Conditions   | Distance (mm) | Max.<br>WWAN  | Max.<br>WLAN      | Bluetooth | SAR Sum      | SPLSR                 |
|-----|----------|--------------|---------------|---|-------------------|-----------|--------------|-----------------------|
|     |          | WCDMA Band 2 | 0             | 0.634   | 0.699             | 0.115     | 1.448        | ΣSAR<1.6,             |
|     |          |              | _             |   |                   |           |              | Not required          |
|     |          | WCDMA Band 4 | 0             | 0.471   | 0.699             | 0.115     | 1.285        | ΣSAR<1.6,             |
|     |          |              |               |   |                   |           |              | Not required          |
|     |          | WCDMA Band 5 | 0             | 1.254   | 0.699             | 0.115     | 2.068        | Analyzed              |
|     |          |              |               |   |                   |           |              | as below              |
|     |          | LTE Band 2   | 0             | 0.609   | 0.699             | 0.115     | 1.423        | ΣSAR<1.6,             |
|     |          |              |               |   | 0.505 0.699 0.115 |           | Not required |                       |
|     |          | LTE Band 4   | 0             | 0.505 0.699 0.115   | 0.115             | 1.319     | ΣSAR<1.6,    |                       |
|     |          |              |               |   |                   |           |              | Not required          |
|     |          | LTE Band 5   | 0             | 1.155 0.699 0.115 <b>1</b>  | 1.969             | Analyzed  |              |                       |
|     | <u> </u> |              |               |   |                   |           |              | as below              |
|     |          | LTE Band 7   | 0             | 0.404   | 0.699             | 0.115     | 1.218        | ΣSAR<1.6,             |
|     |          |              |               | 0.404         0.699         0.115         1.218           1.251         0.699         0.115         2.065 | Not required      |           |              |                       |
| 7   | Top side | LTE Band 12  | 0             | 1.251   | 0.699             | 0.115     | 2.065        | Analyzed              |
|     | -        |              |               |   |                   | 0.115     |              | as below              |
|     |          | LTE Band 13  | 0             | 1.192   | 0.699             |           | 2.006        | Analyzed              |
|     |          |              |               |   |                   |           |              | as below              |
|     |          | LTE Band 17  | 0             | 1.143   | 0.699             | 0.115     | 1.957        | Analyzed              |
|     |          |              |               |   |                   |           |              | as below              |
|     |          | LTE Band 26  | 0             | 1.272   | 0.699             | 0.115     | 2.086        | Analyzed              |
|     |          |              |               |   |                   |           |              | as below              |
|     |          | LTE Band 30  | 0             | 0.842   | 0.699             | 0.115     | 1.656        | Analyzed              |
|     |          |              |               |   |                   |           |              | as below<br>ΣSAR<1.6, |
|     |          | LTE Band 38  | 0             | 0.746   | 0.699             | 0.115     | 1.560        | Not required          |
|     |          |              |               |   |                   |           |              | Analyzed              |
|     |          | LTE Band 41  | 0             | 0.872   | 0.699             | 0.115     | 1.686        | as below              |
|     |          |              |               |   | 3.000             |           |              | ΣSAR<1.6,             |
|     |          | LTE Band 66  | 0             | 0.491   | 0.699             | 0.115     | 1.305        | ,                     |
|     |          |              |               |   |                   |           |              | Not required          |

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### Top side WWAN + 5G WLAN Main + BT

| No. | Position | Conditions   | Distance (mm) | Max.<br>WWAN  | Max.<br>WLAN                   | Bluetooth                 | SAR Sum                   | SPLSR                     |       |                   |
|-----|----------|--------------|---------------|---|--------------------------------|---------------------------|---------------------------|---------------------------|-------|-------------------|
|     |          | WCDMA Band 2 | 0             | 0.634   | 0.683                          | 0.115                     | 1.432                     | ΣSAR<1.6,<br>Not required |       |                   |
|     |          | WCDMA Band 4 | 0             | 0.471   | 0.683                          | 0.115                     | 1.269                     | ΣSAR<1.6,<br>Not required |       |                   |
|     |          | WCDMA Band 5 | 0             | 1.254   | 0.683                          | 0.115                     | 2.052                     | Analyzed as below         |       |                   |
|     |          | LTE Band 2   | 0             | 0     0.609     0.683     0.115     1.407       0     0.505     0.683     0.115     1.303       0     1.155     0.683     0.115     1.953       0     0.404     0.683     0.115     1.202       0     1.251     0.683     0.115     2.049       0     1.192     0.683     0.115     1.990 | 1.407                          | ΣSAR<1.6,<br>Not required |                           |                           |       |                   |
|     |          | LTE Band 4   | 0             |   | 1.303                          | ΣSAR<1.6,<br>Not required |                           |                           |       |                   |
|     |          | LTE Band 5   | 0             | 1.155   | 1.155 0.683 0.115 <b>1.953</b> | Analyzed as below         |                           |                           |       |                   |
|     |          | LTE Band 7   | 0             | 0.404 0.683 0.115 1.2   |                                | 1.202                     | ΣSAR<1.6,<br>Not required |                           |       |                   |
| 8   | Top side | LTE Band 12  | 0             | 1.251   | 0.683                          | 0.115                     | 2.049                     | Analyzed as below         |       |                   |
|     |          | LTE Band 13  | 0             | 1.192   | 0.683                          | 0.115                     | 1.990                     | Analyzed<br>as below      |       |                   |
|     |          | LTE Band 17  | 0             | 1.143   | 0.683                          | 0.115                     | 1.941                     | Analyzed<br>as below      |       |                   |
|     |          | LTE Band 26  | 0             | 1.272   | 0.683                          | 0.115                     | 2.070                     | Analyzed<br>as below      |       |                   |
|     |          | LTE Band 30  | 0             | 0.842   | 0.683                          | 0.115                     | 1.640                     | Analyzed<br>as below      |       |                   |
|     |          | LTE Band 38  | 0             | 0.746   | 0.683                          | 0.115                     | 1.544                     | ΣSAR<1.6,<br>Not required |       |                   |
|     |          |              |               | LTE Band 41   | 0                              | 0.872                     | 0.683                     | 0.115                     | 1.670 | Analyzed as below |
|     |          | LTE Band 66  | 0             | 0.491   | 0.683                          | 0.115                     | 1.289                     | ΣSAR<1.6,<br>Not required |       |                   |

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### Top side WWAN + 2.4G WLAN + BT

| Position | Conditions   | SAR<br>Value | Coc   | ordinates | (cm)  | ΣSAR   | Peak Location Separation | SPLSR | Simultaneous<br>Transmission  |
|----------|--------------|--------------|-------|-----------|-------|--------|--------------------------|-------|-------------------------------|
| Position | Conditions   | (W/kg)       | х     | у         | Z     | (W/kg) | Distance<br>(mm)         | SFLSK | SAR Test                      |
|          | WLAN Main    | 0.699        | -0.68 | -6.80     | 0.42  | -      | -                        | -     | -                             |
|          | WLAN Aux     | 0.544        | -0.78 | 6.94      | -0.41 | 1.243  | 137.66                   | 0.010 | SPLSR ≤ 0.04,<br>Not required |
|          | Bluetooth    | 0.115        | -0.66 | 8.54      | -0.44 | 0.814  | 153.64                   | 0.005 | SPLSR ≤ 0.04,<br>Not required |
|          | WCDMA Band 2 | 0.634        | -0.80 | -14.55    | -0.23 | 1.333  | 77.78                    | 0.020 | SPLSR ≤ 0.04,<br>Not required |
|          | WCDMA Band 4 | 0.471        | -0.80 | -14.71    | -0.23 | 1.170  | 79.37                    | 0.016 | SPLSR ≤ 0.04,<br>Not required |
|          | WCDMA Band 5 | 1.254        | -0.80 | -15.03    | -0.30 | 1.953  | 82.62                    | 0.033 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 2   | 0.609        | -1.11 | -14.88    | -0.16 | 1.308  | 81.12                    | 0.018 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 4   | 0.505        | -0.96 | -15.18    | -0.29 | 1.204  | 84.15                    | 0.016 | SPLSR ≤ 0.04,<br>Not required |
| Tan aida | LTE Band 5   | 1.155        | -0.80 | -15.03    | -0.29 | 1.854  | 82.62                    | 0.031 | SPLSR ≤ 0.04,<br>Not required |
| Top side | LTE Band 7   | 0.404        | -1.98 | -10.66    | -0.18 | 1.103  | 41.17                    | 0.028 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 12  | 1.251        | -0.80 | -15.04    | -0.29 | 1.950  | 82.72                    | 0.033 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 13  | 1.192        | -0.80 | -15.04    | -0.30 | 1.891  | 82.72                    | 0.031 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 17  | 1.143        | -0.80 | -15.04    | -0.30 | 1.842  | 82.72                    | 0.030 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 26  | 1.272        | -0.96 | -15.03    | -0.43 | 1.971  | 82.78                    | 0.033 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 30  | 0.842        | -0.62 | -12.98    | -0.29 | 1.541  | 62.20                    | 0.031 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 38  | 0.746        | -1.86 | -12.72    | -0.30 | 1.445  | 60.79                    | 0.029 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 41  | 0.872        | -0.50 | -12.42    | -0.31 | 1.571  | 56.70                    | 0.035 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 66  | 0.491        | -0.96 | -15.18    | -0.18 | 1.190  | 84.06                    | 0.015 | SPLSR ≤ 0.04,<br>Not required |

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### Top side WWAN + 2.4G WLAN

| Position | Conditions   | SAR<br>Value<br>(W/kg) | Coordinates (cm) |        |       | ΣSAR   | Peak Location                  | SPLSR | Simultaneous<br>Transmission  |
|----------|--------------|------------------------|------------------|--------|-------|--------|--------------------------------|-------|-------------------------------|
|          |              |                        | х                | у      | Z     | (W/kg) | Separation<br>Distance<br>(mm) | SPLOK | SAR Test                      |
|          | WLAN Main    | 0.544                  | -0.78            | 6.94   | -0.41 | -      | -                              | -     | -                             |
|          | WLAN Aux     | 0.699                  | -0.68            | -6.80  | 0.42  | 1.243  | 137.66                         | 0.010 | SPLSR ≤ 0.04,<br>Not required |
|          | WCDMA Band 2 | 0.634                  | -0.80            | -14.55 | -0.23 | 1.178  | 214.91                         | 0.006 | SPLSR ≤ 0.04,<br>Not required |
|          | WCDMA Band 4 | 0.471                  | -0.80            | -14.71 | -0.23 | 1.015  | 216.51                         | 0.005 | SPLSR ≤ 0.04,<br>Not required |
|          | WCDMA Band 5 | 1.254                  | -0.80            | -15.03 | -0.30 | 1.798  | 219.70                         | 0.011 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 2   | 0.609                  | -1.11            | -14.88 | -0.16 | 1.153  | 218.24                         | 0.006 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 4   | 0.505                  | -0.96            | -15.18 | -0.29 | 1.049  | 221.21                         | 0.005 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 5   | 1.155                  | -0.80            | -15.03 | -0.29 | 1.699  | 219.70                         | 0.010 | SPLSR ≤ 0.04,<br>Not required |
| Top side | LTE Band 7   | 0.404                  | -1.98            | -10.66 | -0.18 | 0.948  | 176.42                         | 0.005 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 12  | 1.251                  | -0.80            | -15.04 | -0.29 | 1.795  | 219.80                         | 0.011 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 13  | 1.192                  | -0.80            | -15.04 | -0.30 | 1.736  | 219.80                         | 0.010 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 17  | 1.143                  | -0.80            | -15.04 | -0.30 | 1.687  | 219.80                         | 0.010 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 26  | 1.272                  | -0.96            | -15.03 | -0.43 | 1.816  | 219.71                         | 0.011 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 30  | 0.842                  | -0.62            | -12.98 | -0.29 | 1.386  | 199.21                         | 0.008 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 38  | 0.746                  | -1.86            | -12.72 | -0.30 | 1.290  | 196.90                         | 0.007 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 41  | 0.872                  | -0.50            | -12.42 | -0.31 | 1.416  | 193.62                         | 0.009 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 66  | 0.491                  | -0.96            | -15.18 | -0.18 | 1.035  | 221.22                         | 0.005 | SPLSR ≤ 0.04,<br>Not required |

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### Top side WWAN + 5G WLAN + BT

| Position | Conditions   | SAR<br>Value<br>(W/kg) | Coordinates (cm) |        |       | ΣSAR   | Peak<br>Location<br>Separation | SPLSR | Simultaneous<br>Transmission  |
|----------|--------------|------------------------|------------------|--------|-------|--------|--------------------------------|-------|-------------------------------|
| FOSITION |              |                        | х                | у      | Z     | (W/kg) | Distance<br>(mm)               | SPLSK | SAR Test                      |
|          | WLAN Main    | 0.683                  | -0.86            | -5.90  | -0.41 | -      | -                              | -     | -                             |
|          | WLAN Aux     | 0.797                  | -0.94            | 8.92   | -0.41 | 1.480  | 148.20                         | 0.012 | SPLSR ≤ 0.04,<br>Not required |
|          | Bluetooth    | 0.115                  | -0.66            | 8.54   | -0.44 | 0.798  | 144.41                         | 0.005 | SPLSR ≤ 0.04,<br>Not required |
|          | WCDMA Band 2 | 0.634                  | -0.80            | -14.55 | -0.23 | 1.317  | 86.52                          | 0.017 | SPLSR ≤ 0.04,<br>Not required |
|          | WCDMA Band 4 | 0.471                  | -0.80            | -14.71 | -0.23 | 1.154  | 88.12                          | 0.014 | SPLSR ≤ 0.04,<br>Not required |
|          | WCDMA Band 5 | 1.254                  | -0.80            | -15.03 | -0.30 | 1.937  | 91.31                          | 0.030 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 2   | 0.609                  | -1.11            | -14.88 | -0.16 | 1.292  | 89.87                          | 0.016 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 4   | 0.505                  | -0.96            | -15.18 | -0.29 | 1.188  | 92.81                          | 0.014 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 5   | 1.155                  | -0.80            | -15.03 | -0.29 | 1.838  | 91.31                          | 0.027 | SPLSR ≤ 0.04,<br>Not required |
| Top side | LTE Band 7   | 0.404                  | -1.98            | -10.66 | -0.18 | 1.087  | 48.95                          | 0.023 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 12  | 1.251                  | -0.80            | -15.04 | -0.29 | 1.934  | 91.41                          | 0.029 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 13  | 1.192                  | -0.80            | -15.04 | -0.30 | 1.875  | 91.41                          | 0.028 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 17  | 1.143                  | -0.80            | -15.04 | -0.30 | 1.826  | 91.41                          | 0.027 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 26  | 1.272                  | -0.96            | -15.03 | -0.43 | 1.955  | 91.31                          | 0.030 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 30  | 0.842                  | -0.62            | -12.98 | -0.29 | 1.525  | 70.85                          | 0.027 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 38  | 0.746                  | -1.86            | -12.72 | -0.30 | 1.429  | 68.94                          | 0.025 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 41  | 0.872                  | -0.50            | -12.42 | -0.31 | 1.555  | 65.31                          | 0.030 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 66  | 0.491                  | -0.96            | -15.18 | -0.18 | 1.174  | 92.83                          | 0.014 | SPLSR ≤ 0.04,<br>Not required |

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## Top side WWAN + 5G WLAN

| Position | Conditions   | SAR<br>Value<br>(W/kg) | Coordinates (cm) |        |       | ΣSAR   | Peak Location                  | SPLSR | Simultaneous<br>Transmission  |
|----------|--------------|------------------------|------------------|--------|-------|--------|--------------------------------|-------|-------------------------------|
|          |              |                        | х                | у      | Z     | (W/kg) | Separation<br>Distance<br>(mm) | orlok | SAR Test                      |
|          | WLAN Aux     | 0.797                  | -0.94            | 8.92   | -0.41 | -      | -                              | -     | -                             |
|          | WLAN Main    | 0.683                  | -0.86            | -5.90  | -0.41 | 1.480  | 148.20                         | 0.012 | SPLSR ≤ 0.04,<br>Not required |
|          | WCDMA Band 2 | 0.634                  | -0.80            | -14.55 | -0.23 | 1.431  | 234.71                         | 0.007 | SPLSR ≤ 0.04,<br>Not required |
|          | WCDMA Band 4 | 0.471                  | -0.80            | -14.71 | -0.23 | 1.268  | 236.31                         | 0.006 | SPLSR ≤ 0.04,<br>Not required |
|          | WCDMA Band 5 | 1.254                  | -0.80            | -15.03 | -0.30 | 2.051  | 239.51                         | 0.012 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 2   | 0.609                  | -1.11            | -14.88 | -0.16 | 1.406  | 238.02                         | 0.007 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 4   | 0.505                  | -0.96            | -15.18 | -0.29 | 1.302  | 241.00                         | 0.006 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 5   | 1.155                  | -0.80            | -15.03 | -0.29 | 1.952  | 239.51                         | 0.011 | SPLSR ≤ 0.04,<br>Not required |
| Top side | LTE Band 7   | 0.404                  | -1.98            | -10.66 | -0.18 | 1.201  | 196.09                         | 0.007 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 12  | 1.251                  | -0.80            | -15.04 | -0.29 | 2.048  | 239.61                         | 0.012 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 13  | 1.192                  | -0.80            | -15.04 | -0.30 | 1.989  | 239.61                         | 0.012 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 17  | 1.143                  | -0.80            | -15.04 | -0.30 | 1.940  | 239.61                         | 0.011 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 26  | 1.272                  | -0.96            | -15.03 | -0.43 | 2.069  | 239.50                         | 0.012 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 30  | 0.842                  | -0.62            | -12.98 | -0.29 | 1.639  | 219.03                         | 0.010 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 38  | 0.746                  | -1.86            | -12.72 | -0.30 | 1.543  | 216.60                         | 0.009 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 41  | 0.872                  | -0.50            | -12.42 | -0.31 | 1.669  | 213.45                         | 0.010 | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 66  | 0.491                  | -0.96            | -15.18 | -0.18 | 1.288  | 241.01                         | 0.006 | SPLSR ≤ 0.04,<br>Not required |

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### Top side WWAN + 2.4G WLAN Main + 5G WLAN Main + BT

| Position | Conditions     | SAR<br>Value<br>(W/kg) | Coordinates (cm) |        |       | ΣSAR   | Peak<br>Location<br>Separation | SPLSR   | Simultaneous<br>Transmission  |
|----------|----------------|------------------------|------------------|--------|-------|--------|--------------------------------|---------|-------------------------------|
|          |                |                        | x                | у      | Z     | (W/kg) | Distance<br>(mm)               | OI LOIK | SAR Test                      |
|          | Bluetooth      | 0.115                  | -0.66            | 8.54   | -0.44 | -      | -                              | -       | -                             |
|          | WLAN Main 2.4G | 0.699                  | -0.68            | -6.80  | 0.42  | 0.814  | 153.64                         | 0.005   | SPLSR ≤ 0.04,<br>Not required |
|          | WLAN Main 5G   | 0.683                  | -0.86            | -5.90  | -0.41 | 0.798  | 144.41                         | 0.005   | SPLSR ≤ 0.04,<br>Not required |
|          | WCDMA Band 5   | 1.254                  | -0.80            | -15.03 | -0.30 | 1.369  | 235.71                         | 0.007   | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 5     | 1.155                  | -0.80            | -15.03 | -0.29 | 1.270  | 235.71                         | 0.006   | SPLSR ≤ 0.04,<br>Not required |
| Top side | LTE Band 12    | 1.251                  | -0.80            | -15.04 | -0.29 | 1.366  | 235.81                         | 0.007   | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 13    | 1.192                  | -0.80            | -15.04 | -0.30 | 1.307  | 235.81                         | 0.006   | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 17    | 1.143                  | -0.80            | -15.04 | -0.30 | 1.258  | 235.81                         | 0.006   | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 26    | 1.272                  | -0.96            | -15.03 | -0.43 | 1.387  | 235.72                         | 0.007   | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 30    | 0.842                  | -0.62            | -12.98 | -0.29 | 0.957  | 215.21                         | 0.004   | SPLSR ≤ 0.04,<br>Not required |
|          | LTE Band 41    | 0.872                  | -0.50            | -12.42 | -0.31 | 1.416  | 209.61                         | 0.005   | SPLSR ≤ 0.04,<br>Not required |

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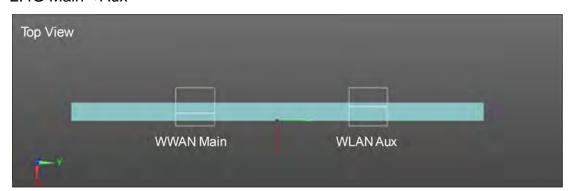
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## Top\_WLAN\_Main→Aux 2.4G Main→Aux



#### 5G Main→Aux



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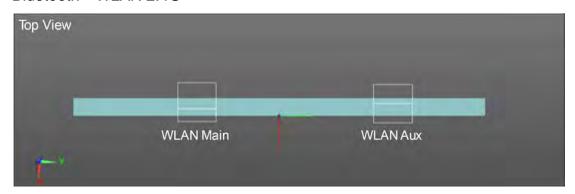
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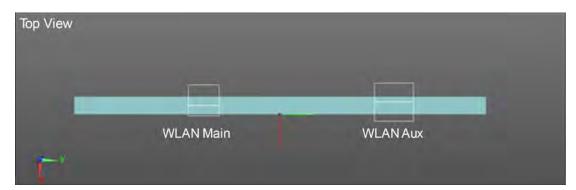


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## Top\_Bluetooth→WLAN (2.4G & 5G) Bluetooth→WLAN 2.4G



#### Bluetooth→WLAN 5G



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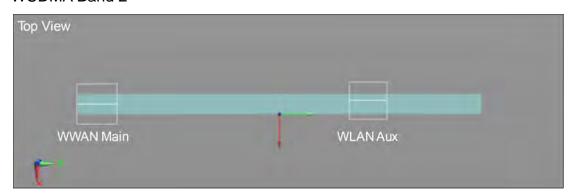
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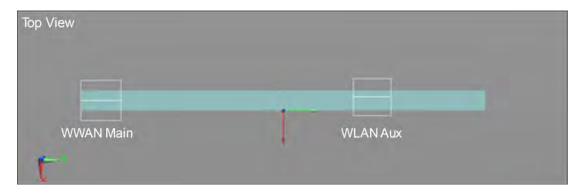


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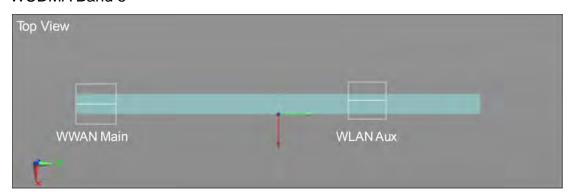
Top\_2.4G\_Aux→WWAN WCDMA Band 2



#### WCDMA Band 4



#### WCDMA Band 5



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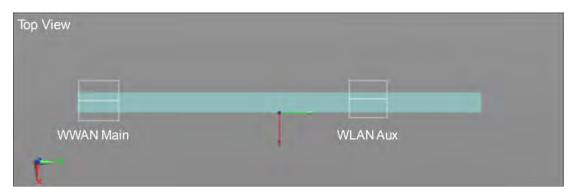
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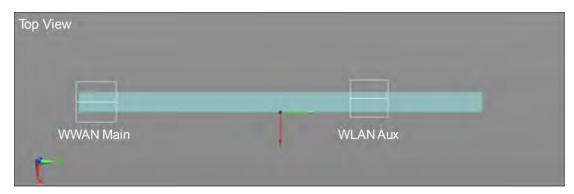


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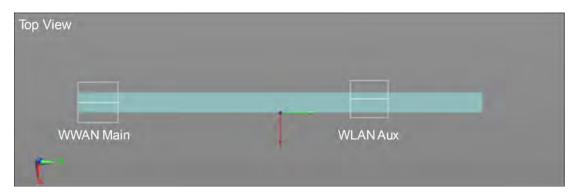
#### LTE Band 2



#### LTE Band 4



#### LTE Band 5



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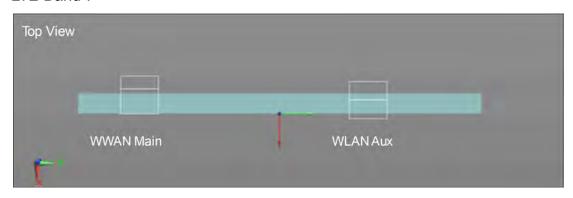
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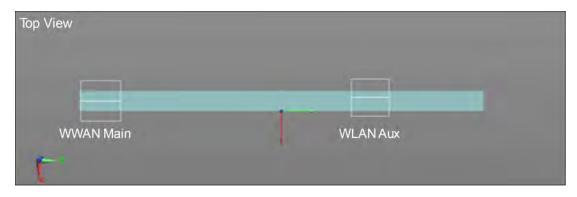


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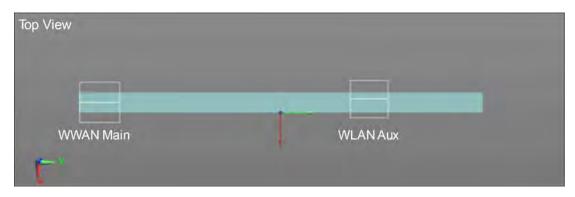
#### LTE Band 7



#### LTE Band 12



#### LTE Band 13



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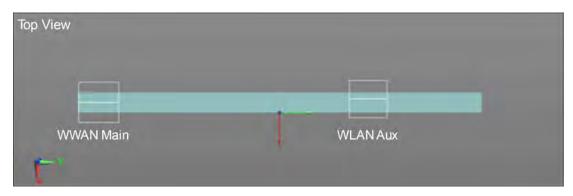
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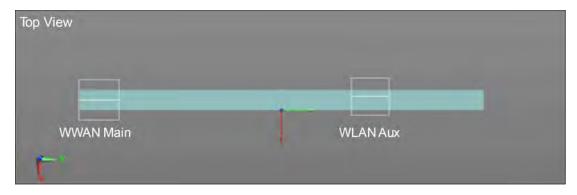


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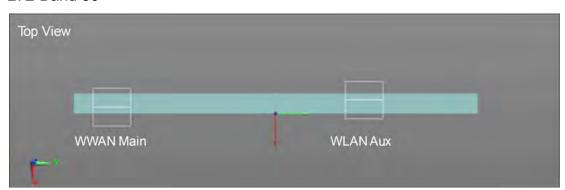
#### LTE Band 17



#### LTE Band 26



#### LTE Band 30



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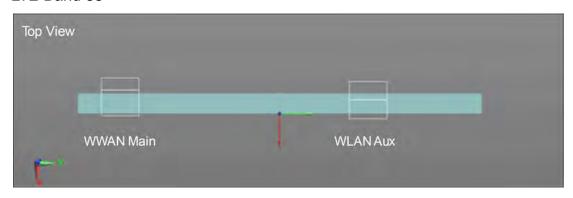
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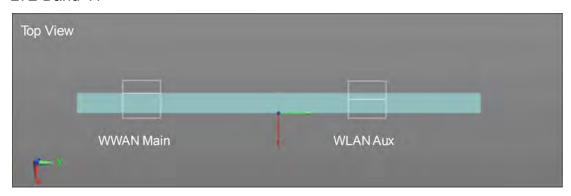


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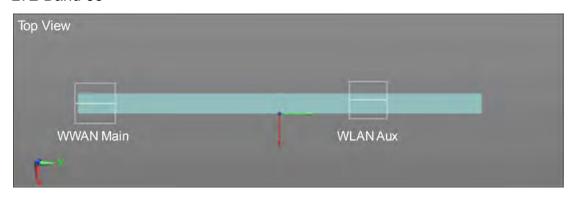
#### LTE Band 38



#### LTE Band 41



#### LTE Band 66



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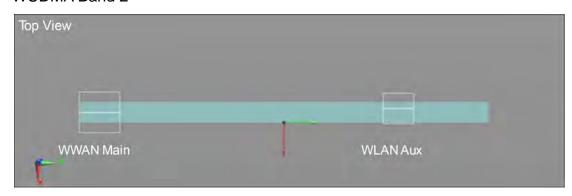
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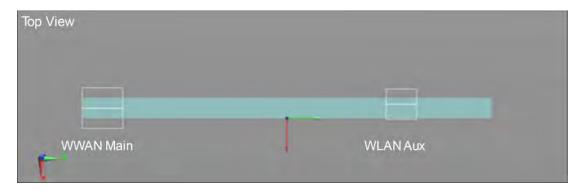


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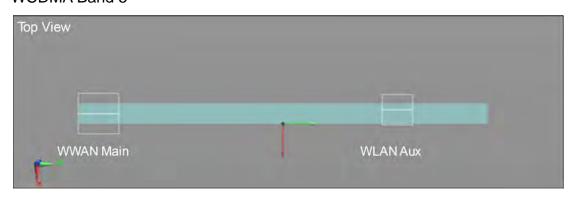
Top\_5G\_Aux→WWAN WCDMA Band 2



#### WCDMA Band 4



#### WCDMA Band 5



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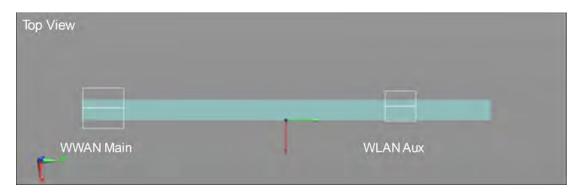
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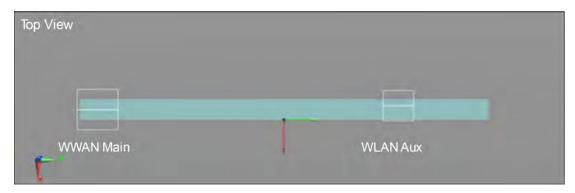


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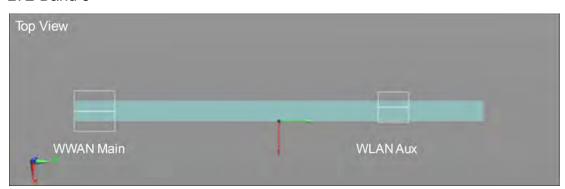
#### LTE Band 2



#### LTE Band 4



#### LTE Band 5



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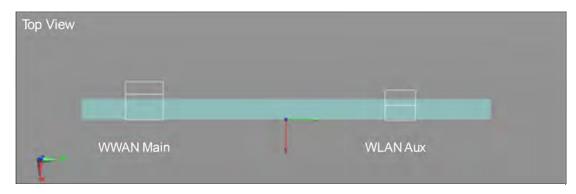
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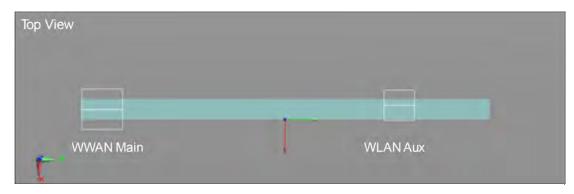
#### LTE Band 7



#### LTE Band 12



#### LTE Band 13



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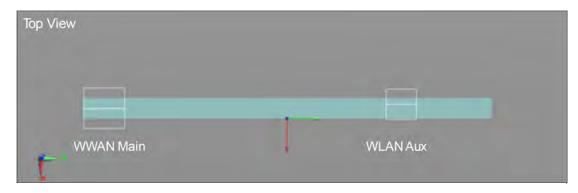
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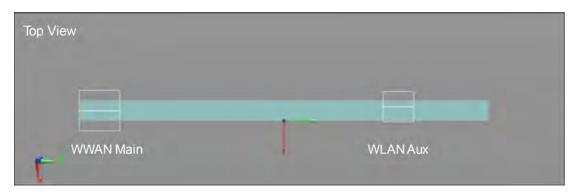


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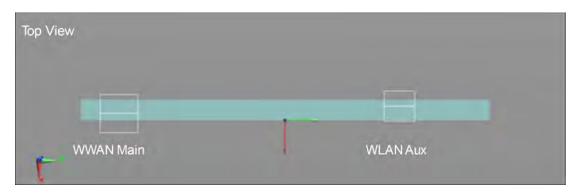
#### LTE Band 17



#### LTE Band 26



#### LTE Band 30



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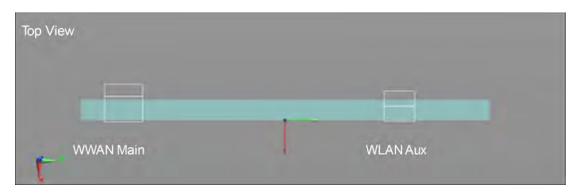
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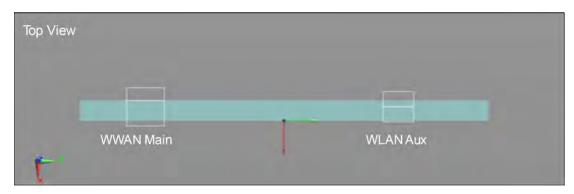


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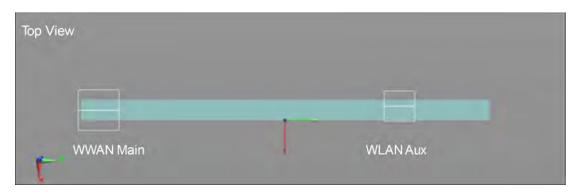
#### LTE Band 38



#### LTE Band 41



#### LTE Band 66



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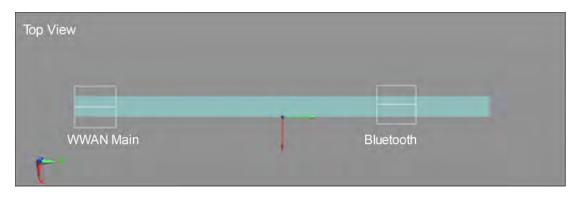
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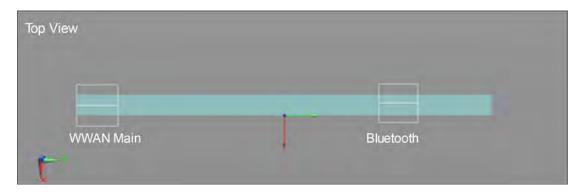


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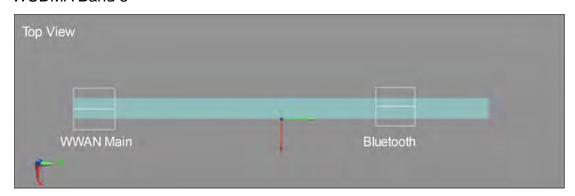
## Top\_Bluetooth→WWAN WCDMA Band 2



#### WCDMA Band 4



#### WCDMA Band 5



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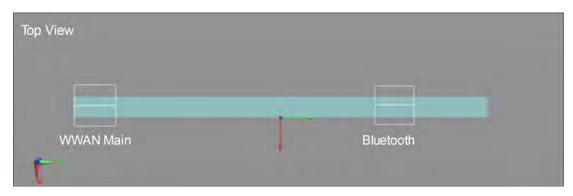
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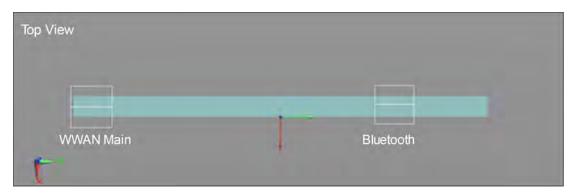


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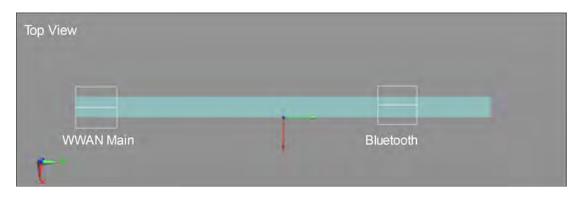
#### LTE Band 2



#### LTE Band 4



#### LTE Band 5



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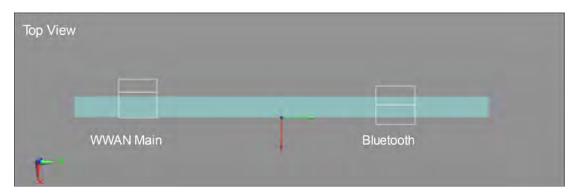
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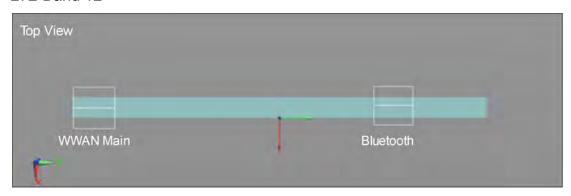


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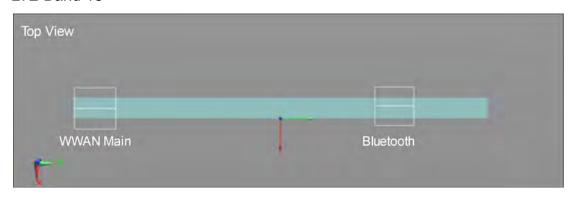
#### LTE Band 7



#### LTE Band 12



#### LTE Band 13



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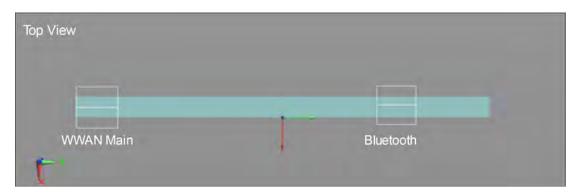
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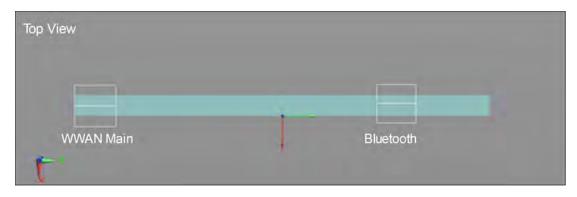


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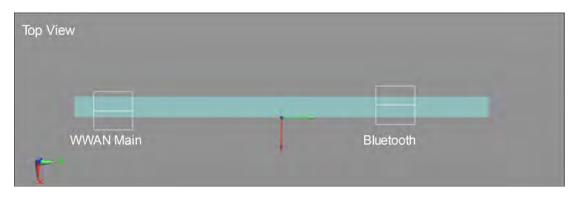
#### LTE Band 17



### LTE Band 26



#### LTE Band 30



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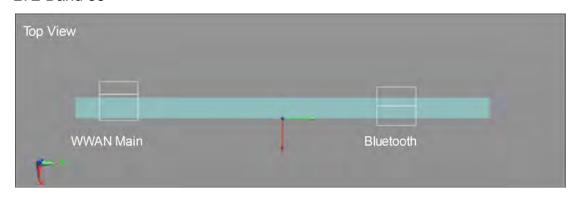
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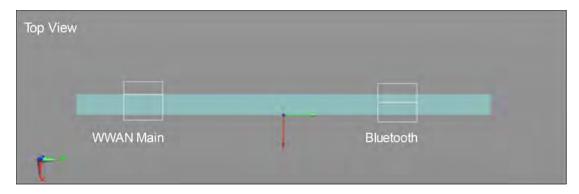


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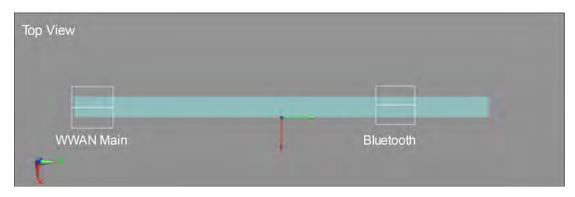
#### LTE Band 38



#### LTE Band 41



#### LTE Band 66



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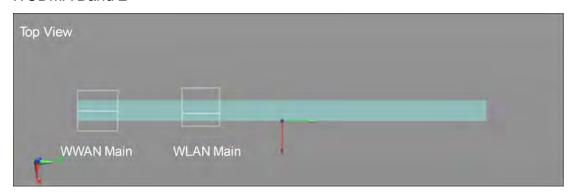
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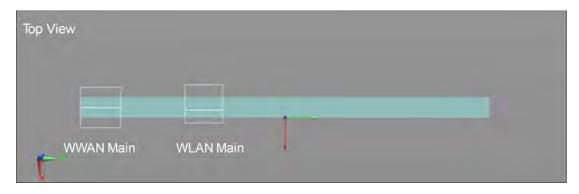


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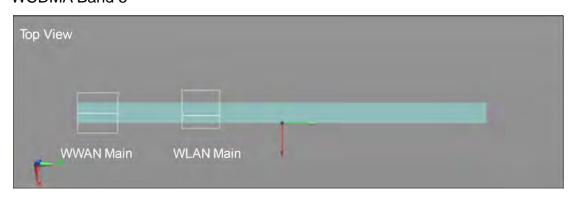
Top\_2.4G\_Main→WWAN WCDMA Band 2



#### WCDMA Band 4



#### WCDMA Band 5



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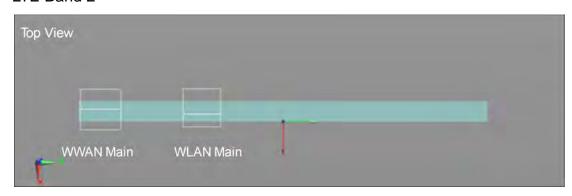
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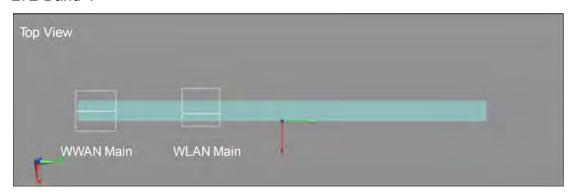


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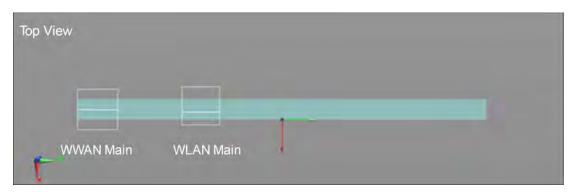
### LTE Band 2



#### LTE Band 4



### LTE Band 5



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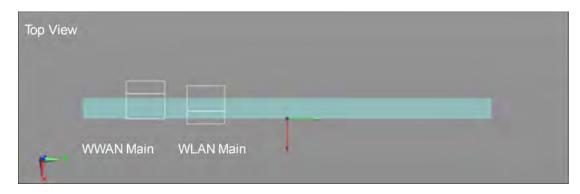
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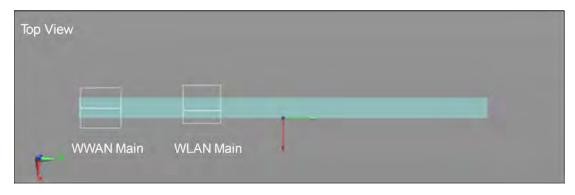


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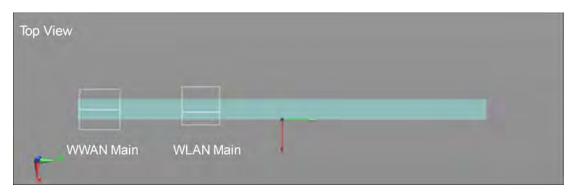
#### LTE Band 7



### LTE Band 12



### LTE Band 13



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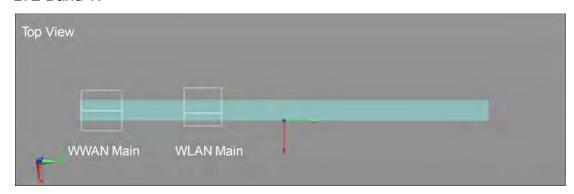
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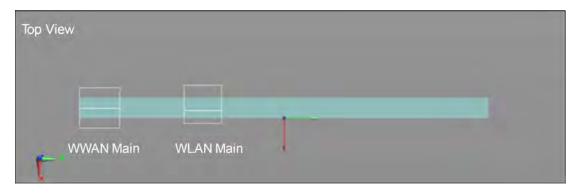


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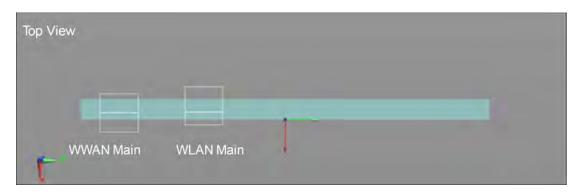
### LTE Band 17



### LTE Band 26



### LTE Band 30



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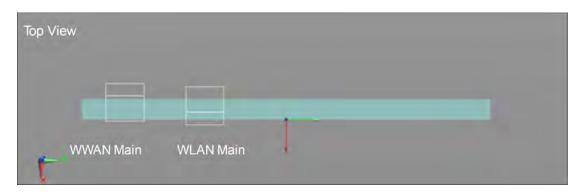
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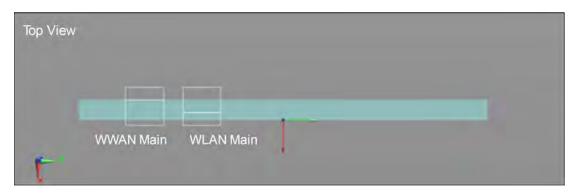


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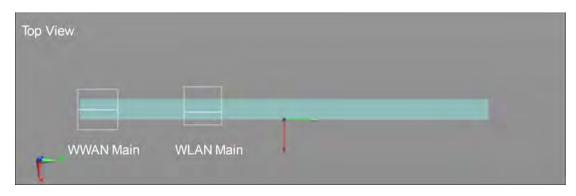
#### LTE Band 38



### LTE Band 41



### LTE Band 66



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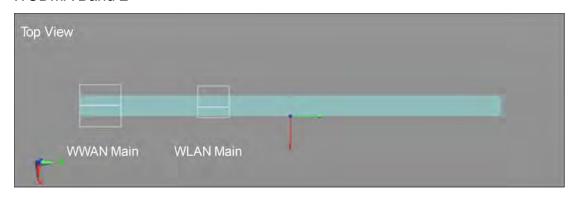
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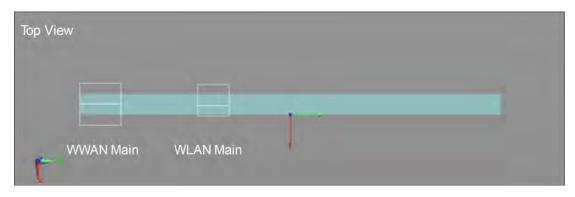


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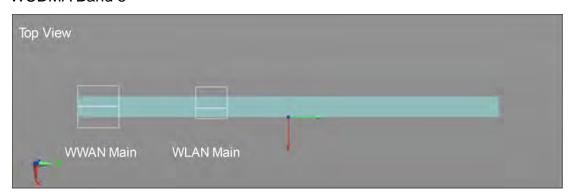
## Top\_5G\_Main→WWAN WCDMA Band 2



### WCDMA Band 4



### WCDMA Band 5



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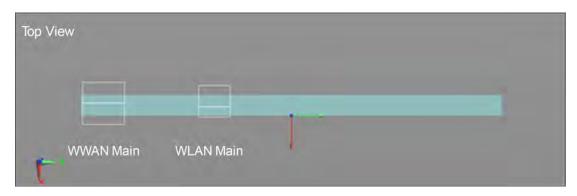
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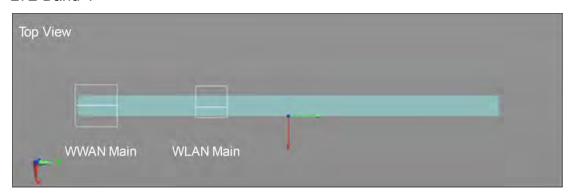


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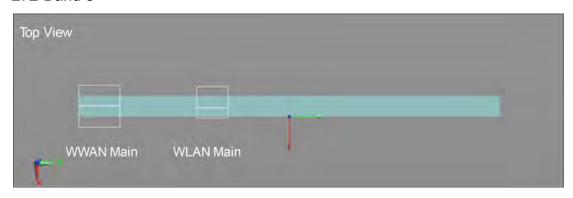
#### LTE Band 2



#### LTE Band 4



### LTE Band 5



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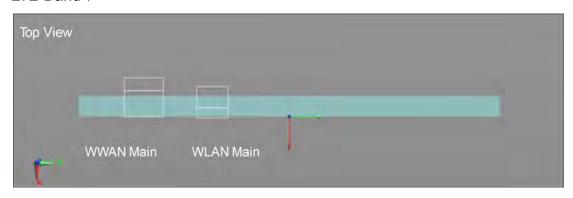
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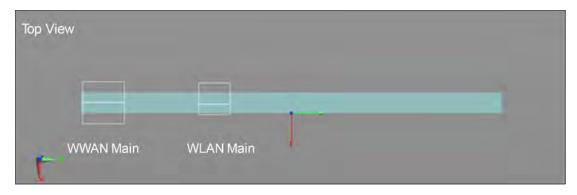


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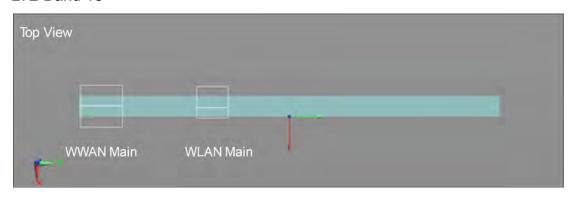
#### LTE Band 7



### LTE Band 12



### LTE Band 13



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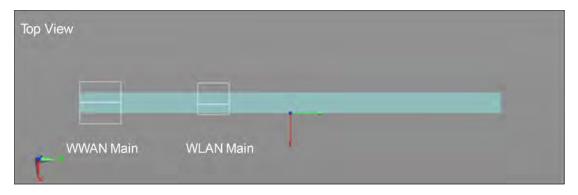


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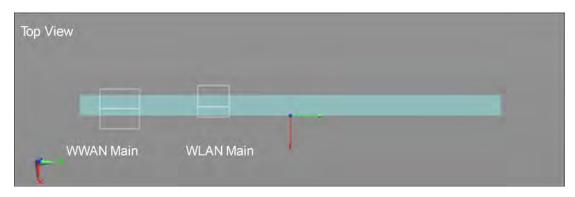
#### LTE Band 17



### LTE Band 26



### LTE Band 30



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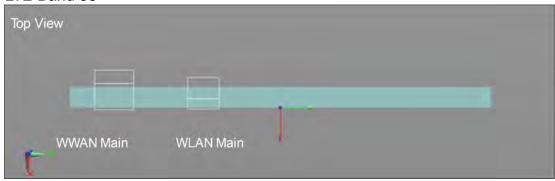
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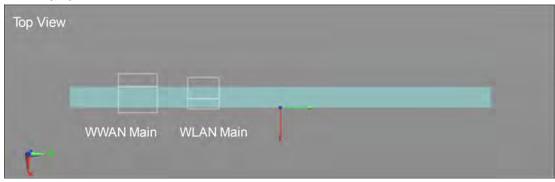


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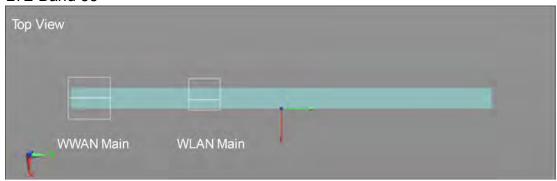
### LTE Band 38



### LTE Band 41



### LTE Band 66



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### Bottom side WWAN + 2.4G WLAN

| No. | Position | Conditions          | Distance (mm) | Max.<br>WWAN | Max.<br>WLAN | Max.<br>WLAN Aux | SAR Sum | SPLSR                     |
|-----|----------|---------------------|---------------|--------------|--------------|------------------|---------|---------------------------|
|     |          | WCDMA Band 2        | 0             | 0.014        | 0.005        | 0.013            | 0.032   | ΣSAR<1.6,                 |
|     |          | TT OBITIT C Barra 2 | Ŭ             | 0.011        | 0.000        | 0.010            | 0.002   | Not required              |
|     |          | WCDMA Band 4        | 0             | 0.013        | 0.005        | 0.013            | 0.031   | ΣSAR<1.6,                 |
|     |          |                     | _             |              |              |                  |         | Not required              |
|     |          | WCDMA Band 5        | 0             | 0.020        | 0.005        | 0.013            | 0.038   | ΣSAR<1.6,                 |
|     |          |                     |               |              |              |                  |         | Not required<br>ΣSAR<1.6, |
|     |          | LTE Band 2          | 0             | 0.013        | 0.005        | 0.013            | 0.031   | Not required              |
|     |          |                     |               |              |              |                  |         | ΣSAR<1.6,                 |
|     |          | LTE Band 4          | 0             | 0.013        | 0.005        | 0.013            | 0.031   | Not required              |
|     |          | LTE D. LE           |               | 0.047        | 0.005        | 0.040            | 0.005   | ΣSAR<1.6,                 |
|     |          | LTE Band 5          | 0             | 0.017        | 0.005        | 0.013            | 0.035   | Not required              |
|     |          | LTE Band 7          | 0             | 0.067        | 0.005        | 0.013            | 0.085   | ΣSAR<1.6,                 |
|     |          | LTE Ballu 1         | U             | 0.007        | 0.005        | 0.013            | 0.065   | Not required              |
| 9   | Bottom   | LTE Band 12         | 0             | 0.020        | 0.005        | 0.013            | 0.038   | ΣSAR<1.6,                 |
|     | side     | ETE Balla 12        | Ü             | 0.020        | 0.000        | 0.010            | 0.000   | Not required              |
|     |          | LTE Band 13         | 0             | 0.021        | 0.005        | 0.013            | 0.039   | ΣSAR<1.6,                 |
|     |          |                     | •             |              |              |                  |         | Not required              |
|     |          | LTE Band 17         | 0             | 0.018        | 0.005        | 0.013            | 0.036   | ΣSAR<1.6,                 |
|     |          |                     |               |              |              |                  |         | Not required<br>ΣSAR<1.6, |
|     |          | LTE Band 26         | 0             | 0.020        | 0.005        | 0.013            | 0.038   | Not required              |
|     |          |                     |               |              |              |                  |         | ΣSAR<1.6,                 |
|     |          | LTE Band 30         | 0             | 0.069        | 0.005        | 0.013            | 0.087   | Not required              |
|     |          | LTC Dand 20         | 0             | 0.042        | 0.005        | 0.042            | 0.000   | ΣSAR<1.6,                 |
|     |          | LTE Band 38         | 0             | 0.042        | 0.005        | 0.013            | 0.060   | Not required              |
|     |          | LTE Band 41         | 0             | 0.047        | 0.005        | 0.013            | 0.065   | ΣSAR<1.6,                 |
|     |          | LIL Dallu 41        | U             | 0.047        | 0.003        | 0.013            | 0.005   | Not required              |
|     |          | LTE Band 66         | 0             | 0.013        | 0.005        | 0.013            | 0.031   | ΣSAR<1.6,                 |
|     |          | ETE Band 00         | 3             | 0.010        | 0.000        | 0.010            | 0.001   | Not required              |

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### Bottom side WWAN + 5G WLAN

| No. | Position | Conditions          | Distance (mm) | Max.<br>WWAN | Max.<br>WLAN | Max.<br>WLAN Aux | SAR Sum | SPLSR                     |  |  |  |  |  |                           |
|-----|----------|---------------------|---------------|--------------|--------------|------------------|---------|---------------------------|--|--|--|--|--|---------------------------|
|     |          | WCDMA Band 2        | 0             | 0.014        | 0.098        | 0.060            | 0.172   | ΣSAR<1.6,                 |  |  |  |  |  |                           |
|     |          | TT OBITIT C Barra 2 | Ŭ             | 0.011        | 0.000        | 0.000            | 0.172   | Not required              |  |  |  |  |  |                           |
|     |          | WCDMA Band 4        | 0             | 0.013        | 0.098        | 0.060            | 0.171   | ΣSAR<1.6,                 |  |  |  |  |  |                           |
|     |          |                     | _             |              |              |                  | _       | Not required              |  |  |  |  |  |                           |
|     |          | WCDMA Band 5        | 0             | 0.020        | 0.098        | 0.060            | 0.178   | ΣSAR<1.6,                 |  |  |  |  |  |                           |
|     |          |                     |               |              |              |                  |         | Not required<br>ΣSAR<1.6, |  |  |  |  |  |                           |
|     |          | LTE Band 2          | 0             | 0.013        | 0.098        | 0.060            | 0.171   | Not required              |  |  |  |  |  |                           |
|     |          |                     |               |              |              |                  |         | ΣSAR<1.6,                 |  |  |  |  |  |                           |
|     |          | LTE Band 4          | 0             | 0.013        | 0.098        | 0.060            | 0.171   | Not required              |  |  |  |  |  |                           |
|     |          | LTE D. LE           |               | 0.047        | 0.000        | 0.000            | 0.475   | ΣSAR<1.6,                 |  |  |  |  |  |                           |
|     |          | LTE Band 5          | 0             | 0.017        | 0.098        | 0.060            | 0.175   | Not required              |  |  |  |  |  |                           |
|     |          | LTE Band 7          | 0             | 0.067        | 0.098        | 0.060            | 0.225   | ΣSAR<1.6,                 |  |  |  |  |  |                           |
|     |          | LTE Ballu 1         | U             | 0.007        | 0.096        | 0.000            | 0.225   | Not required              |  |  |  |  |  |                           |
| 10  | Bottom   | LTE Band 12         | 0             | 0.020        | 0.098        | 0.060            | 0.178   | ΣSAR<1.6,                 |  |  |  |  |  |                           |
| '   | side     | ETE Balla 12        | Ü             | 0.020        | 0.000        | 0.000            | 0.170   | Not required              |  |  |  |  |  |                           |
|     |          | LTE Band 13         | 0             | 0.021        | 0.098        | 0.060            | 0.179   | ΣSAR<1.6,                 |  |  |  |  |  |                           |
|     |          |                     | •             |              |              | -                |         | Not required              |  |  |  |  |  |                           |
|     |          | LTE Band 17         | 0             | 0.018        | 0.098        | 0.060            | 0.176   | ΣSAR<1.6,                 |  |  |  |  |  |                           |
|     |          |                     |               |              | -            |                  | -       |                           |  |  |  |  |  | Not required<br>ΣSAR<1.6, |
|     |          | LTE Band 26         | 0             | 0.020        | 0.098        | 0.060            | 0.178   | Not required              |  |  |  |  |  |                           |
|     |          |                     |               |              |              |                  |         | ΣSAR<1.6,                 |  |  |  |  |  |                           |
|     |          | LTE Band 30         | 0             | 0.069        | 0.098        | 0.060            | 0.227   | Not required              |  |  |  |  |  |                           |
|     |          | LTC D               | 0             | 0.040        | 0.000        | 0.000            | 0.000   | ΣSAR<1.6,                 |  |  |  |  |  |                           |
|     |          | LTE Band 38         | 0             | 0.042        | 0.098        | 0.060            | 0.200   | Not required              |  |  |  |  |  |                           |
|     |          | I TE Band 41        | 0             | 0.047        | 0.008        | 0.060            | 0.205   | ΣSAR<1.6,                 |  |  |  |  |  |                           |
|     | [        | LTE Band 41         | 0             | 0.047        | 0.098        | 0.060            | 0.205   | Not required              |  |  |  |  |  |                           |
|     |          | LTE Band 66         | 0             | 0.013        | 0.098        | 0.060            | 0.171   | ΣSAR<1.6,                 |  |  |  |  |  |                           |
|     |          | ETE Band 00         | 3             | 0.010        | 0.000        | 0.000            | 0.171   | Not required              |  |  |  |  |  |                           |

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### Bottom side WWAN + 2.4G WLAN Main + BT

| No. | Position       | Conditions   | Distance (mm) | Max.<br>WWAN | Max.<br>WLAN | Bluetooth | SAR Sum | SPLSR                     |
|-----|----------------|--------------|---------------|--------------|--------------|-----------|---------|---------------------------|
|     |                | WCDMA Band 2 | 0             | 0.014        | 0.005        | 0.003     | 0.022   | ΣSAR<1.6,<br>Not required |
|     |                | WCDMA Band 4 | 0             | 0.013        | 0.005        | 0.003     | 0.021   | ΣSAR<1.6,                 |
|     |                | WCDMA Band 5 | 0             | 0.020        | 0.005        | 0.003     | 0.028   | Not required<br>ΣSAR<1.6, |
|     |                |              | _             |              |              |           |         | Not required<br>ΣSAR<1.6, |
|     |                | LTE Band 2   | 0             | 0.013        | 0.005        | 0.003     | 0.021   | Not required              |
|     |                | LTE Band 4   | 0             | 0.013        | 0.005        | 0.003     | 0.021   | ΣSAR<1.6,<br>Not required |
|     |                | LTE Band 5   | 0             | 0.017        | 0.005        | 0.003     | 0.025   | ΣSAR<1.6,<br>Not required |
|     |                | LTE Band 7   | 0             | 0.067        | 0.005        | 0.003     | 0.075   | ΣSAR<1.6, Not required    |
| 11  | Bottom<br>side | LTE Band 12  | 0             | 0.020        | 0.005        | 0.003     | 0.028   | ΣSAR<1.6, Not required    |
|     | oldo           | LTE Band 13  | 0             | 0.021        | 0.005        | 0.003     | 0.029   | ΣSAR<1.6, Not required    |
|     |                | LTE Band 17  | 0             | 0.018        | 0.005        | 0.003     | 0.026   | ΣSAR<1.6, Not required    |
|     |                | LTE Band 26  | 0             | 0.020        | 0.005        | 0.003     | 0.028   | ΣSAR<1.6,                 |
|     |                | LTE Band 30  | 0             | 0.069        | 0.005        | 0.003     | 0.077   | Not required<br>ΣSAR<1.6, |
|     |                | LTE Band 38  | 0             | 0.042        | 0.005        | 0.003     | 0.050   | Not required<br>ΣSAR<1.6, |
|     |                | ETE Bana 00  | •             | 0.042        | 0.000        | 0.000     | 0.000   | Not required<br>ΣSAR<1.6, |
|     | -              | LTE Band 41  | 0             | 0.047        | 0.005        | 0.003     | 0.055   | Not required              |
|     |                | LTE Band 66  | 0             | 0.013        | 0.005        | 0.003     | 0.021   | ΣSAR<1.6,<br>Not required |

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### Bottom side WWAN + 5G WLAN Main + BT

| No. | Position | Conditions   | Distance (mm) | Max.<br>WWAN | Max.<br>WLAN | Bluetooth | SAR Sum | SPLSR                     |
|-----|----------|--------------|---------------|--------------|--------------|-----------|---------|---------------------------|
|     |          | WCDMA Band 2 | 0             | 0.014        | 0.098        | 0.003     | 0.115   | ΣSAR<1.6,                 |
|     |          |              | _             |              |              |           |         | Not required              |
|     |          | WCDMA Band 4 | 0             | 0.013        | 0.098        | 0.003     | 0.114   | ΣSAR<1.6,                 |
|     |          |              |               |              |              |           |         | Not required<br>ΣSAR<1.6, |
|     |          | WCDMA Band 5 | 0             | 0.020        | 0.098        | 0.003     | 0.121   | Not required              |
|     |          | 1.75.0       |               | 0.040        | 0.000        | 0.000     | 0.444   | ΣSAR<1.6,                 |
|     |          | LTE Band 2   | 0             | 0.013        | 0.098        | 0.003     | 0.114   | Not required              |
|     |          | LTE Band 4   | 0             | 0.013        | 0.098        | 0.003     | 0.114   | ΣSAR<1.6,                 |
|     |          | LTE Dallu 4  | U             | 0.013        | 0.096        | 0.003     | 0.114   | Not required              |
|     |          | LTE Band 5   | 0             | 0.017        | 0.098        | 0.003     | 0.118   | ΣSAR<1.6,                 |
|     |          |              |               | 0.0          | 0.000        | 0.000     | 01110   | Not required              |
|     |          | LTE Band 7   | 0             | 0.067        | 0.098        | 0.003     | 0.168   | ΣSAR<1.6,                 |
|     | Bottom   |              |               |              |              |           | 0.121   | Not required<br>ΣSAR<1.6, |
| 12  | side     | LTE Band 12  | 0             | 0.020        | 0.098        | 0.003     | 0.121   | Not required              |
|     | oldo     |              | _             |              |              |           |         | ΣSAR<1.6,                 |
|     |          | LTE Band 13  | 0             | 0.021        | 0.098        | 0.003     | 0.122   | Not required              |
|     |          | LTE Band 17  | 0             | 0.018        | 0.098        | 0.003     | 0.119   | ΣSAR<1.6,                 |
|     |          | LTE Ballu 17 | U             | 0.016        | 0.096        | 0.003     | 0.119   | Not required              |
|     |          | LTE Band 26  | 0             | 0.020        | 0.098        | 0.003     | 0.121   | ΣSAR<1.6,                 |
|     |          | ETE Bana 20  |               | 0.020        | 0.000        | 0.000     | 0.121   | Not required              |
|     |          | LTE Band 30  | 0             | 0.069        | 0.098        | 0.003     | 0.170   | ΣSAR<1.6,                 |
|     |          |              |               |              |              |           |         | Not required<br>ΣSAR<1.6, |
|     |          | LTE Band 38  | 0             | 0.042        | 0.098        | 0.003     | 0.143   | Not required              |
|     |          |              | _             |              |              |           |         | ΣSAR<1.6,                 |
|     |          | LTE Band 41  | 0             | 0.047        | 0.098        | 0.003     | 0.148   | Not required              |
|     |          | LTE Bond 60  | 0             | 0.012        | 0.000        | 0.002     | 0.114   | ΣSAR<1.6,                 |
|     |          | LTE Band 66  | 0             | 0.013        | 0.098        | 0.003     | 0.114   | Not required              |

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# Right side WWAN + 2.4G WLAN

| No. | Position     | Conditions    | Distance (mm) | Max.<br>WWAN | Max.<br>WLAN | Max.<br>WLAN Aux | SAR Sum | SPLSR                     |
|-----|--------------|---------------|---------------|--------------|--------------|------------------|---------|---------------------------|
|     |              | WCDMA Band 2  | 0             | 0.022        | 0.010        | 0.070            | 0.102   | ΣSAR<1.6,                 |
|     |              |               |               |              |              |                  |         | Not required<br>ΣSAR<1.6, |
|     |              | WCDMA Band 4  | 0             | 0.021        | 0.010        | 0.070            | 0.101   | Not required              |
|     |              | WODMA David C | 0             | 0.040        | 0.040        | 0.070            | 0.000   | ΣSAR<1.6,                 |
|     |              | WCDMA Band 5  | 0             | 0.013        | 0.010        | 0.070            | 0.093   | Not required              |
|     |              | LTE Band 2    | 0             | 0.021        | 0.010        | 0.070            | 0.101   | ΣSAR<1.6,                 |
|     |              | ETE Bana E    | Ů             | 0.021        | 0.010        | 0.070            | 0.101   | Not required              |
|     |              | LTE Band 4    | 0             | 0.022        | 0.010        | 0.070            | 0.102   | ΣSAR<1.6,                 |
|     |              |               |               |              |              |                  |         | Not required<br>ΣSAR<1.6, |
|     |              | LTE Band 5    | 0             | 0.012        | 0.010        | 0.070            | 0.092   | Not required              |
|     |              |               | _             |              |              |                  |         | ΣSAR<1.6,                 |
|     |              | LTE Band 7    | 0             | 0.007        | 0.010        | 0.070            | 0.087   | Not required              |
| 13  | Right side   | LTE Band 12   | 0             | 0.013        | 0.010        | 0.070            | 0.093   | ΣSAR<1.6,                 |
| 13  | Trigitt side | LTL Danu 12   | U             | 0.013        | 0.010        | 0.070            | 0.093   | Not required              |
|     |              | LTE Band 13   | 0             | 0.013        | 0.010        | 0.070            | 0.093   | ΣSAR<1.6,                 |
|     |              |               | •             |              |              |                  |         | Not required              |
|     |              | LTE Band 17   | 0             | 0.011        | 0.010        | 0.070            | 0.091   | ΣSAR<1.6,<br>Not required |
|     |              |               |               |              |              |                  |         | ΣSAR<1.6,                 |
|     |              | LTE Band 26   | 0             | 0.013        | 0.010        | 0.070            | 0.093   | Not required              |
|     |              | LTE D         | 0             | 0.044        | 0.040        | 0.070            | 0.004   | ΣSAR<1.6,                 |
|     |              | LTE Band 30   | 0             | 0.014        | 0.010        | 0.070            | 0.094   | Not required              |
|     |              | LTE Band 38   | 0             | 0.047        | 0.010        | 0.070            | 0.127   | ΣSAR<1.6,                 |
|     |              | ETE Bana oo   | Ů             | 0.047        | 0.010        | 0.070            | 0.127   | Not required              |
|     |              | LTE Band 41   | 0             | 0.055        | 0.010        | 0.070            | 0.135   | ΣSAR<1.6,                 |
|     |              |               |               |              |              |                  |         | Not required              |
|     |              | LTE Band 66   | 0             | 0.022        | 0.010        | 0.070            | 0.102   | ΣSAR<1.6,                 |
|     |              |               |               |              |              |                  |         | Not required              |

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### Right side WWAN + 5G WLAN

| No. | Position   | Conditions          | Distance (mm) | Max.<br>WWAN | Max.<br>WLAN | Max.<br>WLAN Aux | SAR Sum | SPLSR                     |
|-----|------------|---------------------|---------------|--------------|--------------|------------------|---------|---------------------------|
|     |            | WCDMA Band 2        | 0             | 0.022        | 0.040        | 0.094            | 0.156   | ΣSAR<1.6,                 |
|     |            |                     | _             |              |              |                  |         | Not required              |
|     |            | WCDMA Band 4        | 0             | 0.021        | 0.040        | 0.094            | 0.155   | ΣSAR<1.6,                 |
|     |            |                     |               |              |              |                  |         | Not required              |
|     |            | WCDMA Band 5        | 0             | 0.013        | 0.040        | 0.094            | 0.147   | ΣSAR<1.6,                 |
|     |            |                     |               |              |              |                  |         | Not required              |
|     |            | LTE Band 2          | 0             | 0.021        | 0.040        | 0.094            | 0.155   | ΣSAR<1.6,                 |
|     |            |                     |               |              |              |                  |         | Not required<br>ΣSAR<1.6, |
|     |            | LTE Band 4          | 0             | 0.022        | 0.040        | 0.094            | 0.156   | Not required              |
|     |            |                     |               |              |              |                  |         | ΣSAR<1.6,                 |
|     |            | LTE Band 5          | 0             | 0.012        | 0.040        | 0.094            | 0.146   | Not required              |
|     | ŀ          |                     |               |              |              |                  |         | ΣSAR<1.6,                 |
|     |            | LTE Band 7          | 0             | 0.007        | 0.040        | 0.094            | 0.141   | Not required              |
| 4.4 | B: 14 : 1  | LTE D 140           |               | 0.040        | 0.040        | 0.004            | 0.447   | ΣSAR<1.6,                 |
| 14  | Right side | LTE Band 12         | 0             | 0.013        | 0.040        | 0.094            | 0.147   | Not required              |
|     |            | LTE David 40        | 0             | 0.040        | 0.040        | 0.004            | 0.447   | ΣSAR<1.6,                 |
|     |            | LTE Band 13         | 0             | 0.013        | 0.040        | 0.094            | 0.147   | Not required              |
|     |            | LTE Band 17         | 0             | 0.011        | 0.040        | 0.094            | 0.145   | ΣSAR<1.6,                 |
|     |            | LIE Danu I <i>I</i> | U             | 0.011        | 0.040        | 0.094            | 0.145   | Not required              |
|     |            | LTE Band 26         | 0             | 0.013        | 0.040        | 0.094            | 0.147   | ΣSAR<1.6,                 |
|     |            | LTL Danu 20         | U             | 0.013        | 0.040        | 0.094            | 0.147   | Not required              |
|     |            | LTE Band 30         | 0             | 0.014        | 0.040        | 0.094            | 0.148   | ΣSAR<1.6,                 |
|     |            | ETE Bana oo         | Ŭ             | 0.014        | 0.040        | 0.004            | 0.140   | Not required              |
|     |            | LTE Band 38         | 0             | 0.047        | 0.040        | 0.094            | 0.181   | ΣSAR<1.6,                 |
|     |            |                     | _             |              |              |                  |         | Not required              |
|     |            | LTE Band 41         | 0             | 0.055        | 0.040        | 0.094            | 0.189   | ΣSAR<1.6,                 |
|     |            |                     |               | 0.055        | 0.040        | 0.004            | 0.103   | Not required              |
|     |            | LTE Band 66         | 0             | 0.022        | 0.040        | 0.094            | 0.156   | ΣSAR<1.6,                 |
|     |            |                     |               |              |              |                  |         | Not required              |

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### Right side WWAN + 2.4G WLAN Main + BT

| No. | Position   | Conditions    | Distance (mm) | Max.<br>WWAN | Max.<br>WLAN | Bluetooth | SAR Sum | SPLSR                     |
|-----|------------|---------------|---------------|--------------|--------------|-----------|---------|---------------------------|
|     |            | WCDMA Band 2  | 0             | 0.022        | 0.010        | 0.015     | 0.047   | ΣSAR<1.6,                 |
|     |            | WODAWA Bana E | Ŭ             | 0.022        | 0.010        | 0.010     | 0.011   | Not required              |
|     |            | WCDMA Band 4  | 0             | 0.021        | 0.010        | 0.015     | 0.046   | ΣSAR<1.6,                 |
|     |            |               |               |              |              |           |         | Not required              |
|     |            | WCDMA Band 5  | 0             | 0.013        | 0.010        | 0.015     | 0.038   | ΣSAR<1.6,                 |
|     |            |               |               |              |              |           |         | Not required              |
|     |            | LTE Band 2    | 0             | 0.021        | 0.010        | 0.015     | 0.046   | ΣSAR<1.6,                 |
|     |            |               |               |              |              |           |         | Not required<br>ΣSAR<1.6, |
|     |            | LTE Band 4    | 0             | 0.022        | 0.010        | 0.015     | 0.047   | ,                         |
|     |            |               |               |              |              |           |         | Not required<br>ΣSAR<1.6, |
|     |            | LTE Band 5    | 0             | 0.012        | 0.010        | 0.015     | 0.037   | Not required              |
|     |            |               |               |              |              |           |         | ΣSAR<1.6,                 |
|     |            | LTE Band 7    | 0             | 0.007        | 0.010        | 0.015     | 0.032   | Not required              |
|     |            |               | _             |              |              |           |         | ΣSAR<1.6,                 |
| 15  | Right side | LTE Band 12   | 0             | 0.013        | 0.010        | 0.015     | 0.038   | Not required              |
|     |            | LTE D 140     |               | 0.040        | 0.040        | 0.045     | 0.000   | ΣSAR<1.6,                 |
|     |            | LTE Band 13   | 0             | 0.013        | 0.010        | 0.015     | 0.038   | Not required              |
|     |            | LTE Band 17   | 0             | 0.011        | 0.010        | 0.015     | 0.036   | ΣSAR<1.6,                 |
|     |            | LIE Danu 17   | U             | 0.011        | 0.010        | 0.015     | 0.036   | Not required              |
|     |            | LTE Band 26   | 0             | 0.013        | 0.010        | 0.015     | 0.038   | ΣSAR<1.6,                 |
|     |            | LTL Danu 20   | U             | 0.013        | 0.010        | 0.013     | 0.036   | Not required              |
|     |            | LTE Band 30   | 0             | 0.014        | 0.010        | 0.015     | 0.039   | ΣSAR<1.6,                 |
|     |            | LTE Band 50   | · ·           | 0.014        | 0.010        | 0.010     | 0.000   | Not required              |
|     |            | LTE Band 38   | 0             | 0.047        | 0.010        | 0.015     | 0.072   | ΣSAR<1.6,                 |
|     |            | ETE Bana oo   | ŭ             | 0.017        | 0.010        | 0.010     | 0.072   | Not required              |
|     |            | LTE Band 41   | 0             | 0.055        | 0.010        | 0.015     | 0.080   | ΣSAR<1.6,                 |
|     |            |               | -             |              |              |           |         | Not required              |
|     |            | LTE Band 66   | 0             | 0.022        | 0.010        | 0.015     | 0.047   | ΣSAR<1.6,                 |
|     |            |               |               |              | - 7.4        |           |         | Not required              |

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## Right side WWAN + 5G WLAN Main + BT

| No. | Position   | Conditions   | Distance (mm) | Max.<br>WWAN | Max.<br>WLAN | Bluetooth | SAR Sum | SPLSR                     |
|-----|------------|--------------|---------------|--------------|--------------|-----------|---------|---------------------------|
|     |            | WCDMA Band 2 | 0             | 0.022        | 0.040        | 0.015     | 0.077   | ΣSAR<1.6,                 |
|     |            |              |               |              |              |           |         | Not required              |
|     |            | WCDMA Band 4 | 0             | 0.021        | 0.040        | 0.015     | 0.076   | ΣSAR<1.6,<br>Not required |
|     |            |              |               |              |              |           |         | ΣSAR<1.6,                 |
|     |            | WCDMA Band 5 | 0             | 0.013        | 0.040        | 0.015     | 0.068   | Not required              |
|     |            | LTE Band 2   | 0             | 0.021        | 0.040        | 0.015     | 0.076   | ΣSAR<1.6,                 |
|     |            | LTE Dallu Z  | U             | 0.021        | 0.040        | 0.015     | 0.076   | Not required              |
|     |            | LTE Band 4   | 0             | 0.022        | 0.040        | 0.015     | 0.077   | ΣSAR<1.6,                 |
|     |            | ETE Bana T   |               | 0.022        | 0.010        | 0.010     | 0.077   | Not required              |
|     |            | LTE Band 5   | 0             | 0.012        | 0.040        | 0.015     | 0.067   | ΣSAR<1.6,                 |
|     |            |              |               |              |              |           |         | Not required              |
|     |            | LTE Band 7   | 0             | 0.007        | 0.040        | 0.015     | 0.062   | ΣSAR<1.6,<br>Not required |
|     |            |              |               |              |              |           |         | ΣSAR<1.6,                 |
| 16  | Right side | LTE Band 12  | 0             | 0.013        | 0.040        | 0.015     | 0.068   | Not required              |
|     | ľ          | LTE D 140    | 0             | 0.010        | 0.040        | 0.045     | 0.000   | ΣSAR<1.6,                 |
|     |            | LTE Band 13  | 0             | 0.013        | 0.040        | 0.015     | 0.068   | Not required              |
|     |            | LTE Band 17  | 0             | 0.011        | 0.040        | 0.015     | 0.066   | ΣSAR<1.6,                 |
|     |            | LTL Dallu TI | U             | 0.011        | 0.040        | 0.013     | 0.000   | Not required              |
|     |            | LTE Band 26  | 0             | 0.013        | 0.040        | 0.015     | 0.068   | ΣSAR<1.6,                 |
|     |            |              | Ů             | 0.010        | 0.010        | 0.010     | 0.000   | Not required              |
|     |            | LTE Band 30  | 0             | 0.014        | 0.040        | 0.015     | 0.069   | ΣSAR<1.6,                 |
|     |            |              |               |              |              |           |         | Not required              |
|     | -          | LTE Band 38  | 0             | 0.047        | 0.040        | 0.015     | 0.102   | ΣSAR<1.6,<br>Not required |
|     |            |              |               |              |              |           |         | ΣSAR<1.6,                 |
|     |            | LTE Band 41  | 0             | 0.055        | 0.040        | 0.015     | 0.110   | Not required              |
|     |            | LTE D LOC    | _             | 0.000        | 0.040        | 0.045     | 0.077   | ΣSAR<1.6,                 |
|     |            | LTE Band 66  | 0             | 0.022        | 0.040        | 0.015     | 0.077   | Not required              |

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### Left side WWAN + 2.4G WLAN

| No. | Position  | Conditions   | Distance (mm) | Max.<br>WWAN | Max.<br>WLAN | Max.<br>WLAN Aux | SAR Sum | SPLSR                     |
|-----|-----------|--------------|---------------|--------------|--------------|------------------|---------|---------------------------|
|     |           | WCDMA Band 2 | 0             | 1.376        | 0.148        | 0.003            | 1.527   | ΣSAR<1.6,                 |
|     |           |              |               |              |              |                  |         | Not required              |
|     |           | WCDMA Band 4 | 0             | 1.301        | 0.148        | 0.003            | 1.452   | ΣSAR<1.6,<br>Not required |
|     |           |              | _             |              |              |                  |         | ΣSAR<1.6,                 |
|     |           | WCDMA Band 5 | 0             | 1.426        | 0.148        | 0.003            | 1.577   | Not required              |
|     |           | LTE Band 2   | 0             | 1.381        | 0.148        | 0.003            | 1.532   | ΣSAR<1.6,                 |
|     |           | LTE Bana 2   | U             | 1.501        | 0.140        | 0.000            | 1.552   | Not required              |
|     |           | LTE Band 4   | 0             | 1.358        | 0.148        | 0.003            | 1.509   | ΣSAR<1.6,                 |
|     |           |              |               |              |              |                  |         | Not required              |
|     |           | LTE Band 5   | 0             | 1.276        | 0.148        | 0.003            | 1.427   | ΣSAR<1.6,<br>Not required |
|     |           |              |               |              |              |                  |         | ΣSAR<1.6,                 |
|     |           | LTE Band 7   | 0             | 0.107        | 0.148        | 0.003            | 0.258   | Not required              |
| 17  | Left side | LTE Band 12  | 0             | 1.355        | 0.148        | 0.003            | 1.506   | ΣSAR<1.6,                 |
| ''  | Leit side | LTE Ballu 12 | U             | 1.333        | 0.146        | 0.003            | 1.500   | Not required              |
|     |           | LTE Band 13  | 0             | 1.357        | 0.148        | 0.003            | 1.508   | ΣSAR<1.6,                 |
|     |           |              |               |              | 00           | 0.000            |         | Not required              |
|     |           | LTE Band 17  | 0             | 1.293        | 0.148        | 0.003            | 1.444   | ΣSAR<1.6,                 |
|     |           |              |               |              |              |                  |         | Not required<br>ΣSAR<1.6, |
|     |           | LTE Band 26  | 0             | 1.302        | 0.148        | 0.003            | 1.453   | Not required              |
|     |           | LTE D LOO    |               | 0.074        | 0.440        | 0.000            | 4.400   | ΣSAR<1.6,                 |
|     |           | LTE Band 30  | 0             | 0.971        | 0.148        | 0.003            | 1.122   | Not required              |
|     |           | LTE Band 38  | 0             | 0.147        | 0.148        | 0.003            | 0.298   | ΣSAR<1.6,                 |
|     |           | ETE Bana oo  | •             | 0.147        | 0.140        | 0.000            | 0.200   | Not required              |
|     |           | LTE Band 41  | 0             | 0.160        | 0.148        | 0.003            | 0.311   | ΣSAR<1.6,                 |
|     |           |              |               |              |              |                  |         | Not required              |
|     |           | LTE Band 66  | 0             | 1.426        | 0.148        | 0.003            | 1.577   | ΣSAR<1.6,<br>Not required |
|     |           |              |               |              |              |                  |         | ivot required             |

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#### Left side WWAN + 5G WLAN

| No. | Position  | Conditions   | Distance (mm) | Max.<br>WWAN | Max.<br>WLAN | Max.<br>WLAN Aux | SAR Sum | SPLSR                     |
|-----|-----------|--------------|---------------|--------------|--------------|------------------|---------|---------------------------|
|     |           | WCDMA Band 2 | 0             | 1.376        | 0.102        | 0.063            | 1.541   | ΣSAR<1.6,                 |
|     |           |              |               |              | 01102        | 0.000            |         | Not required              |
|     |           | WCDMA Band 4 | 0             | 1.301        | 0.102        | 0.063            | 1.466   | ΣSAR<1.6,                 |
|     |           |              |               |              |              |                  |         | Not required              |
|     |           | WCDMA Band 5 | 0             | 1.426        | 0.102        | 0.063            | 1.591   | ΣSAR<1.6,                 |
|     |           |              |               |              |              |                  |         | Not required<br>ΣSAR<1.6, |
|     |           | LTE Band 2   | 0             | 1.381        | 0.102        | 0.063            | 1.546   | Not required              |
|     |           |              |               |              |              |                  |         | ΣSAR<1.6,                 |
|     |           | LTE Band 4   | 0             | 1.358        | 0.102        | 0.063            | 1.523   | Not required              |
|     |           | 1.75.0 1.5   |               | 4.070        | 0.400        | 2.222            | 4 444   | ΣSAR<1.6,                 |
|     |           | LTE Band 5   | 0             | 1.276        | 0.102        | 0.063            | 1.441   | Not required              |
|     |           | LTE Band 7   | 0             | 0.107        | 0.102        | 0.063            | 0.272   | ΣSAR<1.6,                 |
|     |           | LIE Danu 1   | U             | 0.107        | 0.102        | 0.063            | 0.272   | Not required              |
| 18  | Left side | LTE Band 12  | 0             | 1.355        | 0.102        | 0.063            | 1.520   | ΣSAR<1.6,                 |
| '0  | Lort olde | ETE Band 12  | · ·           | 1.555        | 0.102        | 0.000            | 1.520   | Not required              |
|     |           | LTE Band 13  | 0             | 1.357        | 0.102        | 0.063            | 1.522   | ΣSAR<1.6,                 |
|     |           |              |               |              | 002          | 0.000            |         | Not required              |
|     |           | LTE Band 17  | 0             | 1.293        | 0.102        | 0.063            | 1.458   | ΣSAR<1.6,                 |
|     |           |              |               |              |              |                  |         | Not required              |
|     |           | LTE Band 26  | 0             | 1.302        | 0.102        | 0.063            | 1.467   | ΣSAR<1.6,<br>Not required |
|     |           |              |               |              |              |                  |         | ΣSAR<1.6,                 |
|     |           | LTE Band 30  | 0             | 0.971        | 0.102        | 0.063            | 1.136   | Not required              |
|     |           |              | _             |              |              |                  |         | ΣSAR<1.6,                 |
|     |           | LTE Band 38  | 0             | 0.147        | 0.102        | 0.063            | 0.312   | Not required              |
|     |           | LTC Dand 44  | 0             | 0.400        | 0.400        | 0.000            | 0.225   | ΣSAR<1.6,                 |
|     |           | LTE Band 41  | 0             | 0.160        | 0.102        | 0.063            | 0.325   | Not required              |
|     |           | LTE Band 66  | 0             | 1.426        | 0.102        | 0.063            | 1.591   | ΣSAR<1.6,                 |
|     |           | LIL Dalla 00 | J             | 1.420        | 0.102        | 0.003            | 1.591   | Not required              |

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### Left side WWAN + 2.4G WLAN Main + BT

| No. | Position  | Conditions                              | Distance (mm) | Max.<br>WWAN | Max.<br>WLAN | Bluetooth | SAR Sum | SPLSR                     |
|-----|-----------|---|---------------|--------------|--------------|-----------|---------|---------------------------|
|     |           | WCDMA Band 2                            | 0             | 1.376        | 0.148        | 0.001     | 1.525   | ΣSAR<1.6,                 |
|     |           |   |               |              |              |           |         | Not required<br>ΣSAR<1.6, |
|     |           | WCDMA Band 4                            | 0             | 1.301        | 0.148        | 0.001     | 1.450   | Not required              |
|     |           | \\(\(\O\D\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |               | 4 400        | 0.440        | 0.004     | 4 575   | ΣSAR<1.6,                 |
|     |           | WCDMA Band 5                            | 0             | 1.426        | 0.148        | 0.001     | 1.575   | Not required              |
|     |           | LTE Band 2                              | 0             | 1.381        | 0.148        | 0.001     | 1.530   | ΣSAR<1.6,                 |
|     |           | LTE Danu Z                              | U             | 1.501        | 0.140        | 0.001     | 1.550   | Not required              |
|     |           | LTE Band 4                              | 0             | 1.358        | 0.148        | 0.001     | 1.507   | ΣSAR<1.6,                 |
|     |           |   |               |              |              |           |         | Not required              |
|     |           | LTE Band 5                              | 0             | 1.276        | 0.148        | 0.001     | 1.425   | ΣSAR<1.6,<br>Not required |
|     |           |   |               |              |              |           |         | ΣSAR<1.6,                 |
|     |           | LTE Band 7                              | 0             | 0.107        | 0.148        | 0.001     | 0.256   | Not required              |
| 19  | Left side | LTE Band 12                             | 0             | 1.355        | 0.148        | 0.001     | 1.504   | ΣSAR<1.6,                 |
| 19  | Len Side  | LIE Banu 12                             | U             | 1.333        | 0.146        | 0.001     | 1.504   | Not required              |
|     |           | LTE Band 13                             | 0             | 1.357        | 0.148        | 0.001     | 1.506   | ΣSAR<1.6,                 |
|     |           |   | Ŭ             | 1.007        | 0.1.10       | 0.001     | 1.000   | Not required              |
|     |           | LTE Band 17                             | 0             | 1.293        | 0.148        | 0.001     | 1.442   | ΣSAR<1.6,                 |
|     |           |   |               |              |              |           |         | Not required<br>ΣSAR<1.6, |
|     |           | LTE Band 26                             | 0             | 1.302        | 0.148        | 0.001     | 1.451   | Not required              |
|     |           | 1.TE D 100                              |               | 0.074        | 0.440        | 0.004     | 4.400   | ΣSAR<1.6,                 |
|     |           | LTE Band 30                             | 0             | 0.971        | 0.148        | 0.001     | 1.120   | Not required              |
|     |           | LTE Band 38                             | 0             | 0.147        | 0.148        | 0.001     | 0.296   | ΣSAR<1.6,                 |
|     |           | LTL Danu 30                             | U             | 0.147        | 0.140        | 0.001     | 0.290   | Not required              |
|     |           | LTE Band 41                             | 0             | 0.160        | 0.148        | 0.001     | 0.309   | ΣSAR<1.6,                 |
|     |           | LIE Band 41                             | U             | 0.160        | 0.148        | 0.001     | 0.309   | Not required              |
|     |           | LTE Band 66                             | 0             | 1.426        | 0.148        | 0.001     | 1.575   | ΣSAR<1.6,                 |
|     |           |   |               |              |              |           |         | Not required              |

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#### Left side WWAN + 5G WLAN Main + BT

| No. | Position  | Conditions   | Distance (mm) | Max.<br>WWAN | Max.<br>WLAN | Bluetooth | SAR Sum | SPLSR                     |
|-----|-----------|--------------|---------------|--------------|--------------|-----------|---------|---------------------------|
|     |           | WCDMA Band 2 | 0             | 1.376        | 0.102        | 0.001     | 1.479   | ΣSAR<1.6,<br>Not required |
|     |           | WCDMA Band 4 | 0             | 1.301        | 0.102        | 0.001     | 1.404   | ΣSAR<1.6,<br>Not required |
|     |           | WCDMA Band 5 | 0             | 1.426        | 0.102        | 0.001     | 1.529   | ΣSAR<1.6,<br>Not required |
|     |           | LTE Band 2   | 0             | 1.381        | 0.102        | 0.001     | 1.484   | ΣSAR<1.6,<br>Not required |
|     |           | LTE Band 4   | 0             | 1.358        | 0.102        | 0.001     | 1.461   | ΣSAR<1.6,<br>Not required |
|     |           | LTE Band 5   | 0             | 1.276        | 0.102        | 0.001     | 1.379   | ΣSAR<1.6,<br>Not required |
|     |           | LTE Band 7   | 0             | 0.107        | 0.102        | 0.001     | 0.210   | ΣSAR<1.6,<br>Not required |
| 20  | Left side | LTE Band 12  | 0             | 1.355        | 0.102        | 0.001     | 1.458   | ΣSAR<1.6,<br>Not required |
|     |           | LTE Band 13  | 0             | 1.357        | 0.102        | 0.001     | 1.460   | ΣSAR<1.6,<br>Not required |
|     |           | LTE Band 17  | 0             | 1.293        | 0.102        | 0.001     | 1.396   | ΣSAR<1.6,<br>Not required |
|     |           | LTE Band 26  | 0             | 1.302        | 0.102        | 0.001     | 1.405   | ΣSAR<1.6,<br>Not required |
|     |           | LTE Band 30  | 0             | 0.971        | 0.102        | 0.001     | 1.074   | ΣSAR<1.6,<br>Not required |
|     | -         | LTE Band 38  | 0             | 0.147        | 0.102        | 0.001     | 0.250   | ΣSAR<1.6,<br>Not required |
|     |           | LTE Band 41  | 0             | 0.160        | 0.102        | 0.001     | 0.263   | ΣSAR<1.6,<br>Not required |
|     |           | LTE Band 66  | 0             | 1.426        | 0.102        | 0.001     | 1.529   | ΣSAR<1.6,<br>Not required |

### **Conclusion:**

Simultaneous transmission SAR measurement (Volume Scan) is not required because either the sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is  $\leq$  0.04 for all circumstances that require SPLSR calculation.

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## 4. Instruments List

| monumento List |                                 |                    |                  |                          |                          |  |  |  |  |
|----------------|---------------------------------|--------------------|------------------|--------------------------|--------------------------|--|--|--|--|
| Manufacturer   | Device                          | Туре               | Serial<br>number | Date of last calibration | Date of next calibration |  |  |  |  |
| SPEAG          | Dosimetric E-Field<br>Probe     | EX3DV4             | 3770             | Apr.25,2018              | Apr.24,2019              |  |  |  |  |
|                |                                 |                    | 3831             | Jan.23,2018              | Jan.22,2019              |  |  |  |  |
| SPEAG          | System Validation<br>Dipole     | D750V3             | 1015             | Aug.21,2017              | Aug.20,2018              |  |  |  |  |
|                |                                 | D835V2             | 4d063            | Aug.21,2017              | Aug.20,2018              |  |  |  |  |
|                |                                 | D1750V2            | 1008             | Aug.21,2017              | Aug.20,2018              |  |  |  |  |
|                |                                 | D1900V2            | 5d173            | Apr.25,2018              | Apr.24,2019              |  |  |  |  |
|                |                                 | D2300V2            | 1023             | Aug.17,2017              | Aug.16,2018              |  |  |  |  |
|                |                                 | D2450V2            | 727              | Apr.24,2018              | Apr.23,2019              |  |  |  |  |
|                |                                 | D2600V2            | 1005             | Jan.17,2018              | Jan.16,2019              |  |  |  |  |
|                |                                 | D5GHzV2            | 1023             | Jan.25,2018              | Jan.24,2019              |  |  |  |  |
| SPEAG          | Data acquisition<br>Electronics | DAE4               | 856              | Apr.21,2018              | Apr.20,2019              |  |  |  |  |
|                |                                 |                    | 547              | Mar.16,2018              | Mar.15,2019              |  |  |  |  |
| SPEAG          | Software                        | DASY 52<br>V52.8.8 | N/A              | Calibration not required | Calibration not required |  |  |  |  |
| SPEAG          | Phantom                         | ELI                | N/A              | Calibration not required | Calibration not required |  |  |  |  |
| Agilent        | Network Analyzer                | E5071C             | MY46315263       | Sep.08,2017              | Sep.07,2018              |  |  |  |  |
| Agilent        | Dielectric<br>Probe Kit         | 85070E             | MY44300677       | Calibration not required | Calibration not required |  |  |  |  |
| Agilent        | Dual-directional coupler        | 772D               | MY46151242       | Jul.11,2017              | Jul.10,2018              |  |  |  |  |
|                |                                 | 778D               | MY48220468       | Aug.28,2017              | Aug.27,2018              |  |  |  |  |
| Agilent        | RF Signal<br>Generator          | N5181A             | MY50144143       | Mar.15,2018              | Mar.14,2019              |  |  |  |  |
| Agilent        | Power Meter                     | E4417A             | MY52240003       | Dec.21,2017              | Dec.20,2018              |  |  |  |  |

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| Manufacturer | Device              | Туре     | Serial<br>number | Date of last calibration | Date of next calibration |
|--------------|---------------------|----------|------------------|--------------------------|--------------------------|
| Agilent      | Power Sensor        | E9301H   | MY52200003       | Dec.21,2017              | Dec.20,2018              |
|              |                     |          | MY52200004       | Dec.21,2017              | Dec.20,2018              |
| TECPEL       | Digital thermometer | DTM-303A | TP130075         | Mar.09,2018              | Mar.08,2019              |
|              | Radio               |          |                  |                          |                          |
| Anritsu      | Communication       | MT8820C  | 6201061014       | Mar.14,2018              | Mar.13,2019              |
|              | Test                |          |                  |                          |                          |
| R&S          | Radio               |          |                  |                          |                          |
|              | Communication       | CMW 500  | 125470           | Aug.22,2017              | Aug.21,2018              |
|              | Test                |          |                  |                          |                          |

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## 5. Measurements

Date: 2018/7/31

## WCDMA Band II\_Body\_Left side\_CH 9262\_0mm

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1852.4 MHz;  $\sigma = 1.576$  S/m;  $\epsilon_r = 51.057$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(8, 8, 8); Calibrated: 2018/4/25;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2018/4/21

Phantom: ELI;

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (41x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.45 W/kg

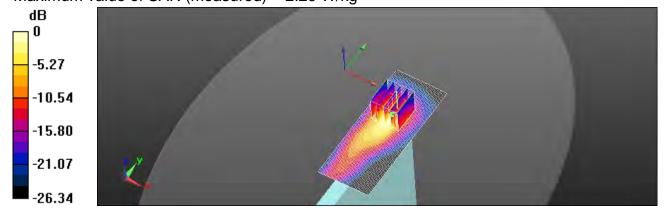
## **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.336 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.47 W/kg

### SAR(1 g) = 1.36 W/kg; SAR(10 g) = 0.591 W/kg

Maximum value of SAR (measured) = 2.29 W/kg



0 dB = 2.29 W/kg = 3.60 dBW/kg

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Date: 2018/7/30

## WCDMA Band IV Body Left side CH 1513 0mm

Communication System: WCDMA; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1753 MHz;  $\sigma = 1.471 \text{ S/m}$ ;  $\varepsilon_r = 51.411$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

### **DASY5** Configuration:

- Probe: EX3DV4 SN3770; ConvF(8.26, 8.26, 8.26); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI:
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (41x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.11 W/kg

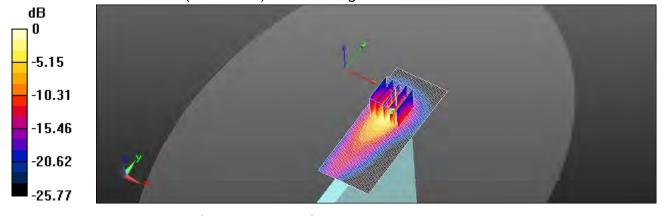
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.714 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.66 W/kg

SAR(1 g) = 1.28 W/kg; SAR(10 g) = 0.538 W/kg

Maximum value of SAR (measured) = 2.47 W/kg



0 dB = 2.47 W/kg = 3.93 dBW/kg

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Date: 2018/7/27

## WCDMA Band V Body Left side CH 4233 0mm

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: f = 847 MHz;  $\sigma = 1.004$  S/m;  $\varepsilon_r = 57.277$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 22.0°C

### **DASY5** Configuration:

- Probe: EX3DV4 SN3770; ConvF(9.72, 9.72, 9.72); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI:
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (41x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.30 W/kg

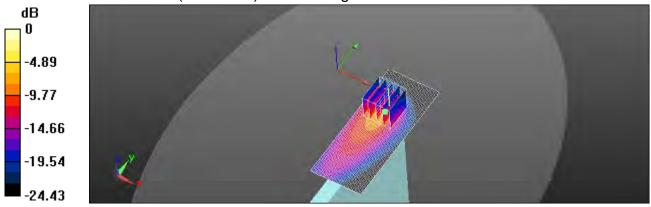
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.799 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 7.36 W/kg

SAR(1 g) = 1.41 W/kg; SAR(10 g) = 0.481 W/kg

Maximum value of SAR (measured) = 4.61 W/kg



0 dB = 4.61 W/kg = 6.64 dBW/kg

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Date: 2018/7/31

## LTE Band 2 (20MHz) Body Left side CH 18700 QPSK 1-0 0mm

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1860 MHz;  $\sigma = 1.583 \text{ S/m}$ ;  $\epsilon_r = 51.027$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

### **DASY5** Configuration:

Probe: EX3DV4 - SN3770; ConvF(8, 8, 8); Calibrated: 2018/4/25;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2018/4/21

Phantom: ELI:

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (41x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.55 W/kg

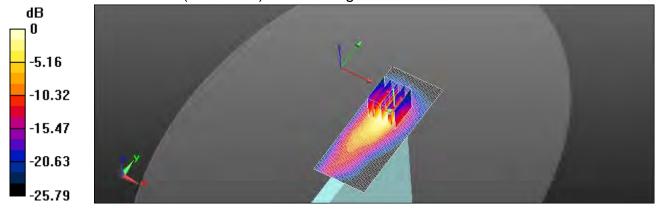
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.476 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 3.69 W/kg

SAR(1 g) = 1.34 W/kg; SAR(10 g) = 0.578 W/kg

Maximum value of SAR (measured) = 2.39 W/kg



0 dB = 2.39 W/kg = 3.78 dBW/kg

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Date: 2018/7/30

## LTE Band 4 (20MHz)\_Body\_Left side\_CH 20300\_QPSK\_1-99\_0mm

Communication System: LTE; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1745 MHz;  $\sigma = 1.46$  S/m;  $\varepsilon_r = 51.435$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

### **DASY5** Configuration:

Probe: EX3DV4 - SN3770; ConvF(8.26, 8.26, 8.26); Calibrated: 2018/4/25;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2018/4/21

Phantom: ELI:

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (41x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.63 W/kg

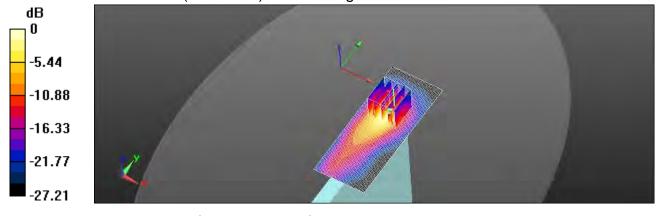
## Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.055 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 4.04 W/kg

## SAR(1 g) = 1.33 W/kg; SAR(10 g) = 0.553 W/kg

Maximum value of SAR (measured) = 2.64 W/kg



0 dB = 2.64 W/kg = 4.22 dBW/kg

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Date: 2018/7/27

## LTE Band 5 (10MHz)\_Body\_Left side\_CH 20600\_QPSK\_1-0\_0mm

Communication System: LTE; Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used: f = 844 MHz;  $\sigma = 1.003$  S/m;  $\varepsilon_r = 57.345$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 22.0°C

### **DASY5** Configuration:

Probe: EX3DV4 - SN3770; ConvF(9.72, 9.72, 9.72); Calibrated: 2018/4/25;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2018/4/21

Phantom: ELI:

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (41x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.16 W/kg

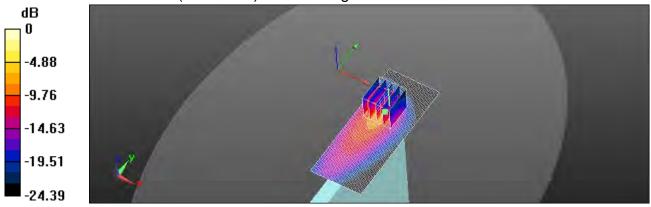
## Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.544 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 6.77 W/kg

### SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.428 W/kg

Maximum value of SAR (measured) = 4.24 W/kg



0 dB = 4.24 W/kg = 6.27 dBW/kg

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Date: 2018/8/2

## LTE Band 7 (20MHz) Body Top side CH 21100 QPSK 1-0 0mm

Communication System: LTE; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2535 MHz;  $\sigma = 2.163$  S/m;  $\varepsilon_r = 52.785$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

### **DASY5** Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI:
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.570 W/kg

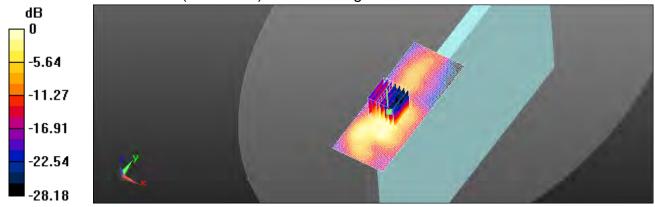
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.588 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.991 W/kg

SAR(1 g) = 0.404 W/kg; SAR(10 g) = 0.161 W/kg

Maximum value of SAR (measured) = 0.727 W/kg



0 dB = 0.727 W/kg = -1.38 dBW/kg

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## LTE Band 12 (10MHz)\_Body\_Left side\_CH 23060\_QPSK\_50-0\_0mm

Communication System: LTE; Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used: f = 704 MHz;  $\sigma = 0.93$  S/m;  $\varepsilon_r = 57.251$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.4°C; Liquid temperature: 21.8°C

### **DASY5** Configuration:

Probe: EX3DV4 - SN3770; ConvF(9.97, 9.97, 9.97); Calibrated: 2018/4/25;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2018/4/21

Phantom: ELI:

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (41x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.07 W/kg

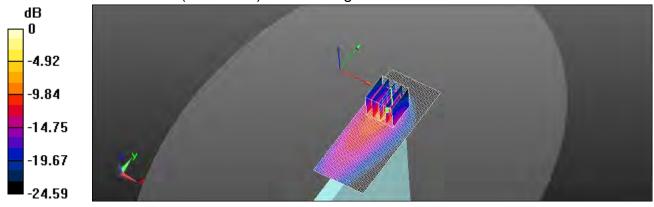
## **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.800 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 7.63 W/kg

### SAR(1 g) = 1.3 W/kg; SAR(10 g) = 0.403 W/kg

Maximum value of SAR (measured) = 4.62 W/kg



0 dB = 4.62 W/kg = 6.65 dBW/kg

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## LTE Band 13 (10MHz)\_Body\_Left side\_CH 23230\_QPSK\_1-0\_0mm

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: f = 782 MHz;  $\sigma = 1.007$  S/m;  $\varepsilon_r = 56.625$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.4°C; Liquid temperature: 21.8°C

### **DASY5** Configuration:

Probe: EX3DV4 - SN3770; ConvF(9.97, 9.97, 9.97); Calibrated: 2018/4/25;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2018/4/21

· Phantom: ELI:

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (41x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.09 W/kg

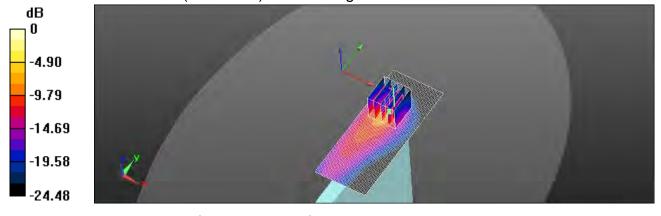
### Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.178 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 6.73 W/kg

### SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.401 W/kg

Maximum value of SAR (measured) = 4.22 W/kg



0 dB = 4.22 W/kg = 6.25 dBW/kg

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## LTE Band 17 (10MHz)\_Body\_Left side\_CH 23780\_QPSK\_1-0\_0mm

Communication System: LTE; Frequency: 709 MHz; Duty Cycle: 1:1

Medium parameters used: f = 709 MHz;  $\sigma = 0.934$  S/m;  $\varepsilon_r = 57.233$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.4°C; Liquid temperature: 21.8°C

### **DASY5** Configuration:

Probe: EX3DV4 - SN3770; ConvF(9.97, 9.97, 9.97); Calibrated: 2018/4/25;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2018/4/21

Phantom: ELI:

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (41x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.07 W/kg

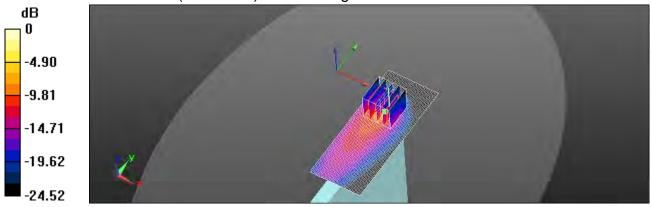
## **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.721 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 7.52 W/kg

### SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.401 W/kg

Maximum value of SAR (measured) = 4.57 W/kg



0 dB = 4.57 W/kg = 6.60 dBW/kg

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## LTE Band 26 (15MHz)\_Body\_Left side\_CH 26965\_QPSK\_1-74\_0mm

Communication System: LTE; Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium parameters used: f = 841.5 MHz;  $\sigma = 0.999 \text{ S/m}$ ;  $\epsilon_r = 57.35$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 22.0°C

### **DASY5** Configuration:

Probe: EX3DV4 - SN3770; ConvF(9.72, 9.72, 9.72); Calibrated: 2018/4/25;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2018/4/21

Phantom: ELI:

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (41x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.48 W/kg

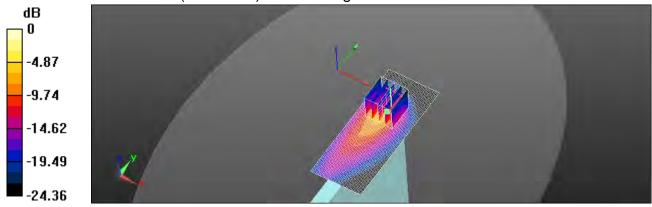
## **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.653 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 7.12 W/kg

### SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.434 W/kg

Maximum value of SAR (measured) = 4.39 W/kg



0 dB = 4.39 W/kg = 6.42 dBW/kg

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## LTE Band 30 (10MHz)\_Body\_Left side\_CH 27710\_QPSK\_50-0\_0mm

Communication System: LTE; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2310 MHz;  $\sigma = 1.854 \text{ S/m}$ ;  $\epsilon_r = 53.568$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.2°C

### **DASY5** Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.68, 7.68, 7.68); Calibrated: 2018/4/25;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2018/4/21

Phantom: ELI:

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.85 W/kg

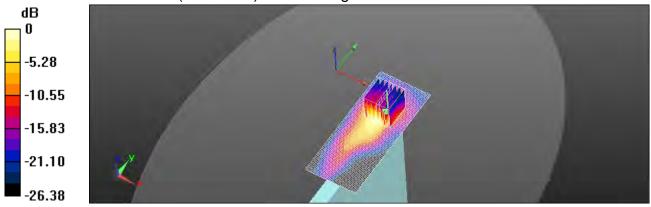
### **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.593 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.74 W/kg

### SAR(1 g) = 0.971 W/kg; SAR(10 g) = 0.438 W/kg

Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 1.62 W/kg = 2.10 dBW/kg

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## LTE Band 38 (20MHz) Body Top side CH 38000 QPSK 1-0 0mm

Communication System: LTE; Frequency: 2595 MHz; Duty Cycle: 1: 1:1.59956

Medium parameters used: f = 2595 MHz;  $\sigma = 2.243$  S/m;  $\epsilon_r = 52.593$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

### **DASY5** Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2018/4/25;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2018/4/21

Phantom: ELI:

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.934 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.008 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.224 W/kg

Maximum value of SAR (measured) = 1.01 W/kg

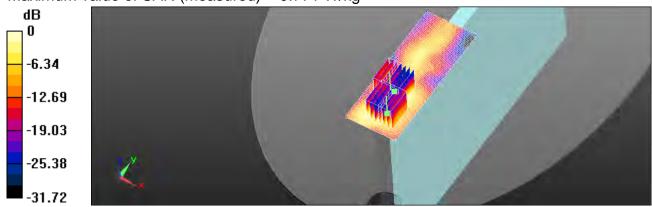
**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.008 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.384 W/kg; SAR(10 g) = 0.169 W/kg

Maximum value of SAR (measured) = 0.771 W/kg



0 dB = 0.771 W/kg = -1.13 dBW/kg

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## LTE Band 41 (20MHz)\_Body\_Top side\_CH 40185\_QPSK\_1-0\_0mm

Communication System: LTE; Frequency: 2549.5 MHz; Duty Cycle: 1: 1:1.59956

Medium parameters used: f = 2549.5 MHz;  $\sigma = 2.181 \text{ S/m}$ ;  $\epsilon_r = 52.761$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

### **DASY5** Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2018/4/25;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2018/4/21

· Phantom: ELI:

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.854 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.514 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.609 W/kg; SAR(10 g) = 0.270 W/kg

Maximum value of SAR (measured) = 1.01 W/kg

**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.514 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.526 W/kg; SAR(10 g) = 0.206 W/kg

Maximum value of SAR (measured) = 0.896 W/kg

**Zoom Scan (7x7x7)/Cube 2:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.514 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.482 W/kg; SAR(10 g) = 0.198 W/kg

Maximum value of SAR (measured) = 0.964 W/kg

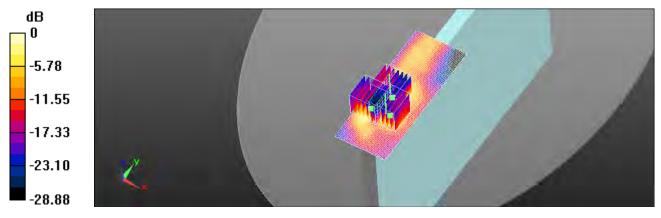
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0 dB = 0.964 W/kg = -0.16 dBW/kg

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## LTE Band 66 (20MHz)\_Body\_Left side\_CH 132572\_QPSK\_100-0\_0mm

Communication System: LTE; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1770 MHz;  $\sigma = 1.489$  S/m;  $\epsilon_r = 51.352$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

### **DASY5** Configuration:

Probe: EX3DV4 - SN3770; ConvF(8.26, 8.26, 8.26); Calibrated: 2018/4/25;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2018/4/21

Phantom: ELI:

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (41x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.77 W/kg

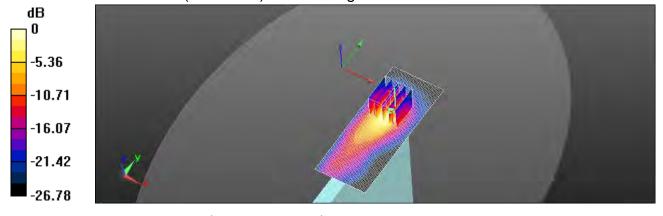
### Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.504 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 4.23 W/kg

## SAR(1 g) = 1.41 W/kg; SAR(10 g) = 0.584 W/kg

Maximum value of SAR (measured) = 2.72 W/kg



0 dB = 2.72 W/kg = 4.35 dBW/kg

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## WLAN 802.11b\_Body\_Top side\_CH 1\_Main\_0mm

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2412 MHz;  $\sigma = 1.882 \text{ S/m}$ ;  $\epsilon_r = 53$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(7.26, 7.26, 7.26); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (61x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.07 W/kg

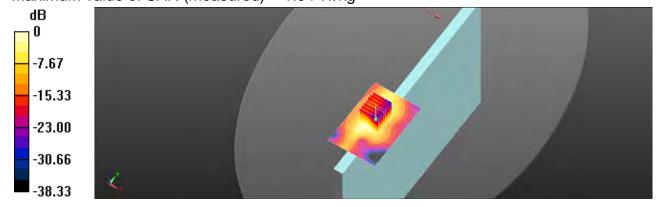
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.229 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.688 W/kg; SAR(10 g) = 0.297 W/kg

Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg = 0.16 dBW/kg

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### WLAN 802.11n(40M) 5.2G\_Body\_Top side\_CH 46\_Main\_0mm

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5230 MHz;  $\sigma = 5.299 \text{ S/m}$ ;  $\varepsilon_r = 49.609$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(4.56, 4.56, 4.56); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.35 W/kg

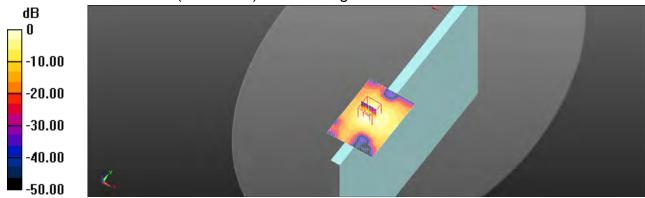
### **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.115 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.80 W/kg

### SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.200 W/kg

Maximum value of SAR (measured) = 1.34 W/kg



0 dB = 1.34 W/kg = 1.26 dBW/kg

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## WLAN 802.11n(40M) 5.3G\_Body\_Top side\_CH 54\_Main\_0mm

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty Cycle: 1:1\

Medium parameters used: f = 5270 MHz;  $\sigma = 5.382 \text{ S/m}$ ;  $\varepsilon_r = 49.34$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(4.39, 4.39, 4.39); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.05 W/kg

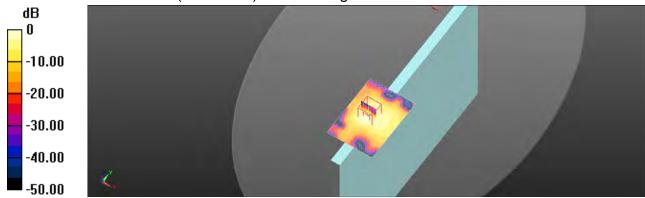
### **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.545 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.25 W/kg

## SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.156 W/kg

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.24 dBW/kg

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## WLAN 802.11ac(80M) 5.6G Body Top side CH 138 Main 0mm

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5690 MHz;  $\sigma = 5.838 \text{ S/m}$ ;  $\varepsilon_r = 48.303$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.38 W/kg

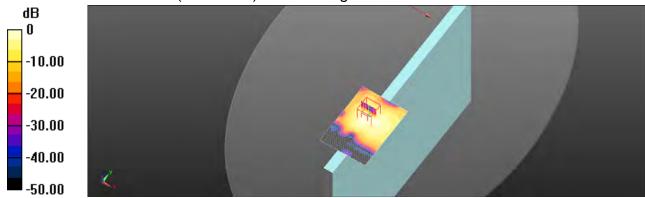
### **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.967 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.09 W/kg

### SAR(1 g) = 0.622 W/kg; SAR(10 g) = 0.194 W/kg

Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.27 W/kg = 1.04 dBW/kg

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## WLAN 802.11ac(80M) 5.8G Body Top side CH 155 Main 0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5775 MHz;  $\sigma = 6.004$  S/m;  $\varepsilon_r = 47.951$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(4.17, 4.17, 4.17); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.37 W/kg

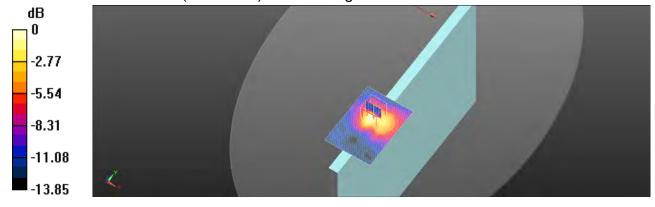
### **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.429 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.28 W/kg

### SAR(1 g) = 0.661 W/kg; SAR(10 g) = 0.277 W/kg

Maximum value of SAR (measured) = 1.24 W/kg



0 dB = 1.24 W/kg = 0.95 dBW/kg

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Date: 2018/7/28

## WLAN 802.11b\_Body\_Top side\_CH 1\_Aux\_0mm

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2412 MHz;  $\sigma = 1.882$  S/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(7.26, 7.26, 7.26); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (61x91x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.939 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.539 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.540 W/kg; SAR(10 g) = 0.248 W/kg

Maximum value of SAR (measured) = 0.790 W/kg

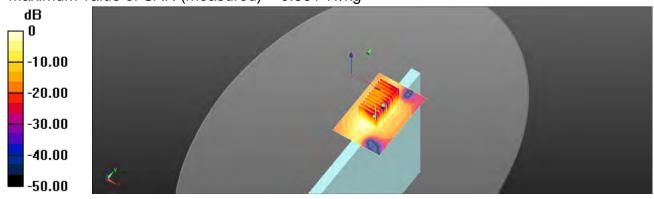
**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.539 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.518 W/kg; SAR(10 g) = 0.245 W/kg

Maximum value of SAR (measured) = 0.861 W/kg



0 dB = 0.861 W/kg = -0.65 dBW/kg

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## Bluetooth(GFSK)\_Body\_Top side\_CH 39\_0mm

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2441 MHz;  $\sigma = 1.92$  S/m;  $\varepsilon_r = 52.875$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(7.26, 7.26, 7.26); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (61x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.188 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.8740 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.244 W/kg

SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.046 W/kg

Maximum value of SAR (measured) = 0.158 W/kg



0 dB = 0.158 W/kg = -8.03 dBW/kg

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## WLAN 802.11n(40M) 5.2G\_Body\_Top side\_CH 38\_Aux\_0mm

Communication System: WLAN 5G; Frequency: 5190 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5190 MHz;  $\sigma = 5.253 \text{ S/m}$ ;  $\epsilon_r = 49.677$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(4.56, 4.56, 4.56); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.43 W/kg

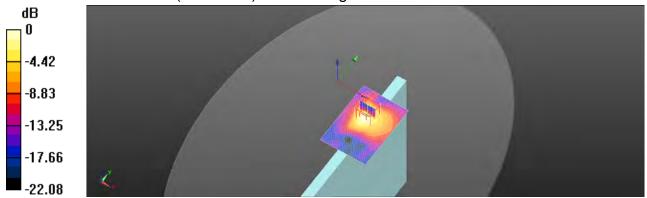
### Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.473 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.21 W/kg

### SAR(1 g) = 0.761 W/kg; SAR(10 g) = 0.264 W/kg

Maximum value of SAR (measured) = 1.45 W/kg



0 dB = 1.45 W/kg = 1.61 dBW/kg

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## WLAN 802.11n(40M) 5.3G\_Body\_Top side\_CH 54\_Aux\_0mm

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5270 MHz;  $\sigma = 5.382 \text{ S/m}$ ;  $\varepsilon_r = 49.34$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(4.39, 4.39, 4.39); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.22 W/kg

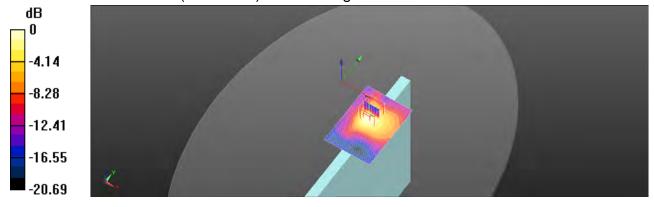
### **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.503 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.85 W/kg

### SAR(1 g) = 0.654 W/kg; SAR(10 g) = 0.241 W/kg

Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg = 0.72 dBW/kg

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Date: 2018/7/31

## WLAN 802.11ac(80M) 5.6G Body Top side CH 138 Aux 0mm

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5690 MHz;  $\sigma = 5.838 \text{ S/m}$ ;  $\varepsilon_r = 48.303$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.45 W/kg

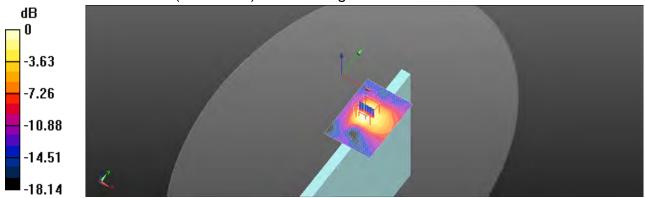
### **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.445 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.44 W/kg

### SAR(1 g) = 0.766 W/kg; SAR(10 g) = 0.287 W/kg

Maximum value of SAR (measured) = 1.43 W/kg



0 dB = 1.43 W/kg = 1.54 dBW/kg

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Date: 2018/7/31

## WLAN 802.11ac(80M) 5.8G Body Top side CH 155 Aux 0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5775 MHz;  $\sigma = 6.004$  S/m;  $\varepsilon_r = 47.951$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(4.17, 4.17, 4.17); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (71x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.23 W/kg

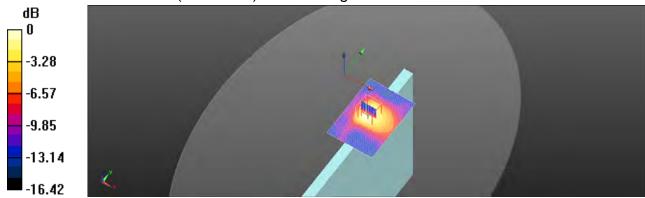
### **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.936 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.97 W/kg

## SAR(1 g) = 0.647 W/kg; SAR(10 g) = 0.254 W/kg

Maximum value of SAR (measured) = 1.20 W/kg



0 dB = 1.20 W/kg = 0.78 dBW/kg

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# 6. SAR System Performance Verification

Date: 2018/7/26

**Dipole 750 MHz\_SN:1015** 

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: f = 750 MHz;  $\sigma = 0.976 \text{ S/m}$ ;  $\varepsilon_r = 56.943$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 21.4°C; Liquid temperature: 21.8°C

**DASY5** Configuration:

Probe: EX3DV4 - SN3770; ConvF(9.97, 9.97, 9.97); Calibrated: 2018/4/25;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2018/4/21

· Phantom: ELI

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=250mW/Area Scan (41x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.57 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 52.21 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.03 W/kg

SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.39 W/kg

Maximum value of SAR (measured) = 2.58 W/kg

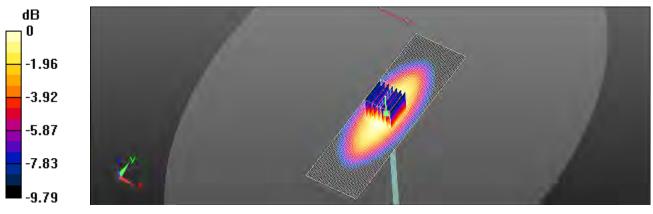
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0 dB = 2.58 W/kg = 4.12 dBW/kg

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Date: 2018/7/27

## Dipole 835 MHz\_SN:4d063

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: f = 835 MHz;  $\sigma = 0.992$  S/m;  $\varepsilon_r = 57.424$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 22.0°C

#### **DASY5** Configuration:

- Probe: EX3DV4 SN3770; ConvF(9.72, 9.72, 9.72); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=250mW/Area Scan (41x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.77 W/kg

## Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

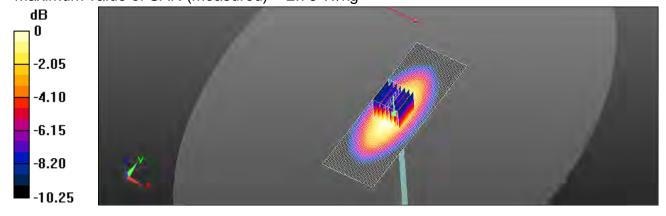
dz=5mm

Reference Value = 54.22 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.29 W/kg

### SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.56 W/kg

Maximum value of SAR (measured) = 2.79 W/kg



0 dB = 2.79 W/kg = 4.46 dBW/kg

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### **Dipole 1750 MHz\_SN:1008**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz;  $\sigma = 1.469 \text{ S/m}$ ;  $\epsilon_r = 51.418$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

#### **DASY5** Configuration:

- Probe: EX3DV4 SN3770; ConvF(8.26, 8.26, 8.26); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 12.9 W/kg

## Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

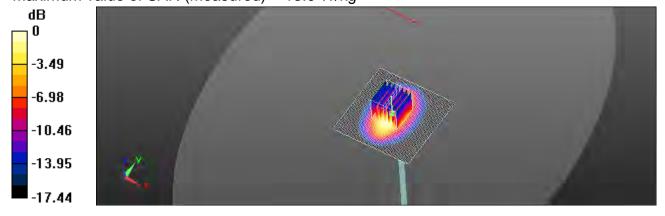
dz=5mm

Reference Value = 93.80 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 16.7 W/kg

### SAR(1 g) = 8.97 W/kg; SAR(10 g) = 4.66 W/kg

Maximum value of SAR (measured) = 13.0 W/kg



0 dB = 13.0 W/kg = 11.14 dBW/kg

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## **Dipole 1900 MHz\_SN:5d173**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz;  $\sigma = 1.627 \text{ S/m}$ ;  $\varepsilon_r = 50.896$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3770; ConvF(8, 8, 8); Calibrated: 2018/4/25;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2018/4/21

Phantom: ELI

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.9 W/kg

## Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

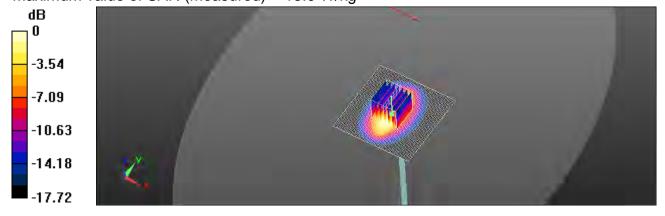
dz=5mm

Reference Value = 96.56 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 19.2 W/kg

### SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.33 W/kg

Maximum value of SAR (measured) = 15.0 W/kg



0 dB = 15.0 W/kg = 11.76 dBW/kg

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### **Dipole 2300 MHz\_SN:1023**

Communication System: CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2300 MHz;  $\sigma = 1.845 \text{ S/m}$ ;  $\epsilon_r = 53.611$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.2°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.68, 7.68, 7.68); Calibrated: 2018/4/25;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2018/4/21

Phantom: ELI

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=250mW/Area Scan (51x51x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 18.8 W/kg

## Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

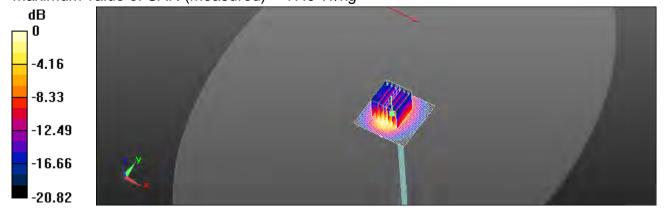
dz=5mm

Reference Value = 95.45 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 23.7 W/kg

### SAR(1 g) = 11.8 W/kg; SAR(10 g) = 5.59 W/kg

Maximum value of SAR (measured) = 17.9 W/kg



0 dB = 17.9 W/kg = 12.53 dBW/kg

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### Dipole 2450 MHz\_SN:727

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz;  $\sigma = 1.932 \text{ S/m}$ ;  $\varepsilon_r = 52.827$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(7.26, 7.26, 7.26); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Pin=250mW/Area Scan (61x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 22.3 W/kg

## Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

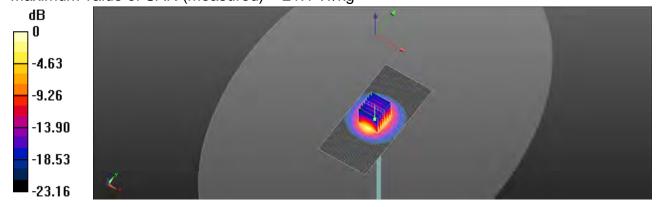
dz=5mm

Reference Value = 102.0 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 29.2 W/kg

### SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.13 W/kg

Maximum value of SAR (measured) = 21.1 W/kg



0 dB = 21.1 W/kg = 13.23 dBW/kg

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### **Dipole 2600 MHz\_SN:1005**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz;  $\sigma = 2.251 \text{ S/m}$ ;  $\epsilon_r = 52.577$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

#### **DASY5** Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2018/4/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2018/4/21
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 22.5 W/kg

## Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

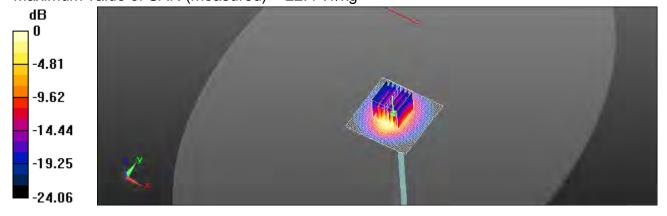
dz=5mm

Reference Value = 96.83 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 31.6 W/kg

### SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.22 W/kg

Maximum value of SAR (measured) = 22.4 W/kg



0 dB = 22.4 W/kg = 13.50 dBW/kg

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## **Dipole 5200 MHz\_SN:1023**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5200 MHz;  $\sigma = 5.264 \text{ S/m}$ ;  $\varepsilon_r = 49.628$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(4.56, 4.56, 4.56); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Pin=100mW/Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.6 W/kg

### Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm,

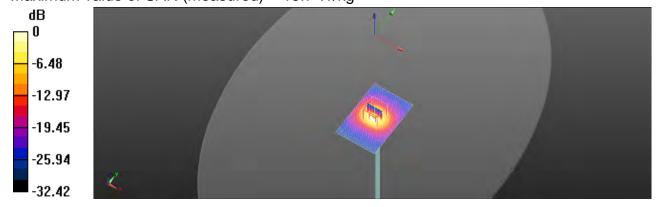
dz=2mm

Reference Value = 56.19 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 29.9 W/kg

### SAR(1 g) = 7.24 W/kg; SAR(10 g) = 2.03 W/kg

Maximum value of SAR (measured) = 15.7 W/kg



0 dB = 15.7 W/kg = 11.95 dBW/kg

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### **Dipole 5300 MHz\_SN:1023**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5300 MHz;  $\sigma = 5.376 \text{ S/m}$ ;  $\epsilon_r = 49.301$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(4.39, 4.39, 4.39); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Pin=100mW/Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.2 W/kg

## Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm,

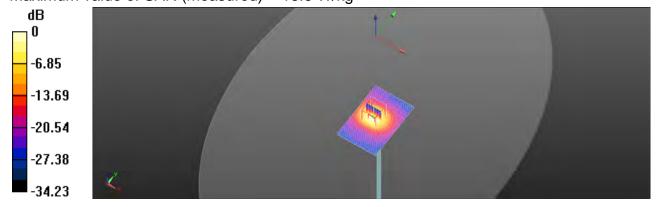
dz=2mm

Reference Value = 47.62 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 32.4 W/kg

### SAR(1 g) = 7.41 W/kg; SAR(10 g) = 2.08 W/kg

Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg = 12.21 dBW/kg

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### **Dipole 5600 MHz\_SN:1023**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5600 MHz;  $\sigma = 5.768 \text{ S/m}$ ;  $\varepsilon_r = 48.51$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.2 W/kg

## Pin=250mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm,

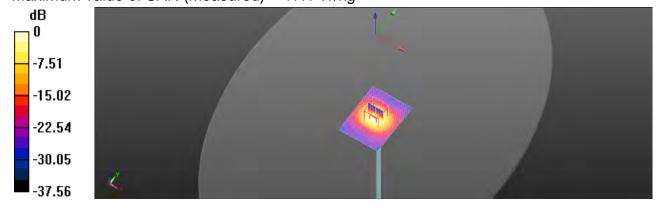
dz=2mm

Reference Value = 58.66 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 33.7 W/kg

### SAR(1 g) = 7.88 W/kg; SAR(10 g) = 2.2 W/kg

Maximum value of SAR (measured) = 17.1 W/kg



0 dB = 17.1 W/kg = 12.33 dBW/kg

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### Dipole 5800 MHz\_SN:1023

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5800 MHz;  $\sigma = 6.039 \text{ S/m}$ ;  $\epsilon_r = 47.847$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN3831; ConvF(4.17, 4.17, 4.17); Calibrated: 2018/1/23

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2018/3/16

Phantom: ELI

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Pin=100mW/Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.0 W/kg

## Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm,

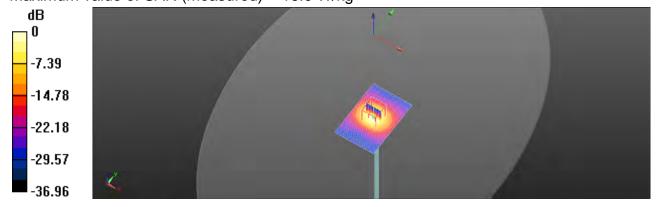
dz=2mm

Reference Value = 54.00 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 32.9 W/kg

### SAR(1 g) = 7.45 W/kg; SAR(10 g) = 2.09 W/kg

Maximum value of SAR (measured) = 16.0 W/kg



0 dB = 16.0 W/kg = 12.05 dBW/kg

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## 7. DAE & Probe Calibration Certificate

Calibration Laboratory of Schweizerischer Kalibrierdienst S Schmid & Partner Service suisse d'étaionnage C Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland Servizio avizzero di taratura S Swiss Calibration Service Accredited by the Swiss Accreditation Service (SAS) Accreditation No.: SCS 0108 The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates SGS-TW (Auden) Certificate No: DAE4-856 April 8 CALIBRATION CERTIFICATE Object DAE4 - SD 000 D04 BM - SN: 856 Calibration procedure(s). QA CAL-06:v29 Calibration procedure for the data acquisition electronics (DAE). Calibration detec April 21, 2018 This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncortainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed schoratory facility: environment temperature (22 ± 3)°C and humiday < 70%... Calibration Equipment used (M&TE critical for calibration). Primary Standards DW Cal Date (Certificate No.) Scheduled Calibration Kaithlay Multimeter Type 2001 SN: 0810278 31-Aug-17 (No:21092) Aug-18 Secondary Standards Auto DAE Calibration Unit Check Date (In house) Scheduled Check SE UWS 053 AA 1001 04-Jan-18 (in house check) in house check: Jan-19 Calibrator Box V2.1 SE UMS 006 AA 1002 04-Jan-18 (in house check) In house check: Jan-19 Calibrated by: Adnas Gehring Laboratory Techniques Approved by: Sven Kühn Deputy Manager Issued April 21, 2018 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

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Certificate No: DAE4-866, April 8



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Calibration Laboratory of Schmid & Partner Engineering AG reghaustrusse 43, 8004 Zurloh, Switzerland





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#### Glossary

DAE

data acquisition electronics

Connector angle

information used in DASY system to align probe sensor X to the robot

coordinate system.

#### Methods Applied and Interpretation of Parameters

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this
  - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
  - Channel separation: Influence of a voltage on the neighbor channels not subject to an
  - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
  - Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements.
  - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
  - Power consumption: Typical value for information. Supply currents in various operating modes.

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#### DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1µV, full range = -100...+300 mV full range = -1......+3mV Low Range: 1LSB = 61nV. DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Calibration Factors | x                     | Y                     | z                     |
|---------------------|-----------------------|-----------------------|-----------------------|
| High Range          | 403.380 ± 0.02% (k=2) | 404.500 ± 0.02% (k=2) | 403.824 ± 0.02% (k=2) |
|                     |                       |                       | 3.94148 ± 1.50% (k=2) |

#### Connector Angle

| Connector Angle to be used in DASY system | 264.5°±1° |
|---|-----------|

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### Appendix (Additional assessments outside the scope of SCS0108)

#### 1. DC Volte

| High Range        | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 199991.32    | -3.93           | -0.00     |
| Channel X + Input | 20000.89     | -0.73           | -0.00     |
| Channel X - Input | -19999.72    | 1.38            | -0.01     |
| Channel Y + Input | 199995.30    | 0.19            | 0.00      |
| Channel Y + Input | 19999.58     | -1.96           | -0.01     |
| Channel Y - Input | -20002.18    | -0.91           | 0.00      |
| Channel Z + Input | 199995.15    | 0.22            | 0.00      |
| Channel Z + Input | 19998.23     | -3.34           | -0.02     |
| Channel Z - Input | -20002.45    | -1,22           | 0.01      |

| Low Range         | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 2001.18      | -0.15           | -0.01     |
| Channel X + Input | 202.02       | 0.40            | 0.20      |
| Channel X - Input | -197.78      | 0.37            | -0.19     |
| Channel Y + Input | 1999.81      | -1.28           | -0.06     |
| Channel Y + Input | 201.37       | -0.27           | -0.13     |
| Channel Y - Input | -199.29      | -0.94           | 0.47      |
| Channel Z + Input | 2000.80      | -0.29           | -0.01     |
| Channel Z + Input | 201.21       | -0.19           | -0.10     |
| Channel Z - Input | -199.51      | -1.18           | 0.60      |

#### 2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec: Measuring time: 3 sec

|           | Common mode<br>Input Voltage (mV) | High Range<br>Average Reading (µV) | Low Range<br>Average Reading (μV) |
|-----------|-----------------------------------|------------------------------------|-----------------------------------|
| Channel X | 200                               | -13.71                             | -15.90                            |
|           | - 200                             | 17.59                              | 16.11                             |
| Channel Y | 200                               | -2.20                              | -2.52                             |
|           | - 200                             | 0.55                               | -0.02                             |
| Channel Z | 200                               | 11,04                              | 10.58                             |
|           | - 200                             | -12.61                             | -12.99                            |

#### 3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec: Massuring time: 3 sec

|           | Input Voltage (mV) | Channel X (μV) | Channel Y (μV) | Channel Z (µV) |
|-----------|--------------------|----------------|----------------|----------------|
| Channel X | 200                | -              | 2.30           | -2.46          |
| Channel Y | 200                | 7.31           | -              | 3.25           |
| Channel Z | 200                | 8.90           | 4.49           | -              |

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#### 4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time; 3 sec; Measuring time; 3 sec

|           | High Range (LSB) | Low Range (LSB) |  |
|-----------|------------------|-----------------|--|
| Channel X | 16218            | 15730           |  |
| Channel Y | 15957            | 16114           |  |
| Channel Z | 15879            | 16093           |  |

#### 5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec Input 10MΩ

|           | Average (μV) | min. Offset (μV) | max. Offset (μV) | Std. Deviation<br>(µV) |
|-----------|--------------|------------------|------------------|------------------------|
| Channel X | -0.35        | -1.46            | 1.21             | 0.40                   |
| Channel Y | -0.34        | -1.68            | 0.58             | 0.46                   |
| Channel Z | -0.03        | -1.43            | 1.45             | 0.57                   |

#### 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

|           | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200            | 200              |
| Channel Y | 200            | 200              |
| Channel Z | 200            | 200              |

8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | Alarm Level (VDC) |  |
|----------------|-------------------|--|
| Supply (+ Vec) | +7.9              |  |
| Supply (- Vec) | -7.6              |  |

9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Vcc) | +0.01             | +6            | +14               |
| Supply (- Vcc) | -0.01             | -8            | -9                |

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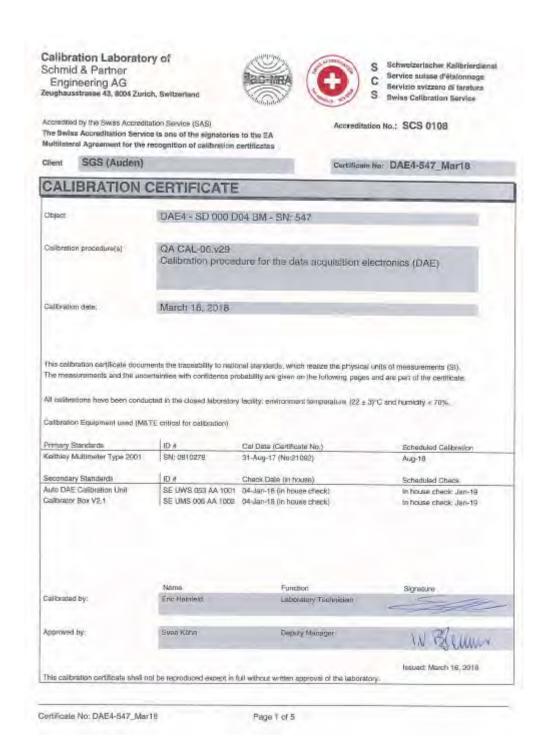
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#### Glossary

DAE

data acquisition electronics

Connector angle

information used in DASY system to align probe sensor X to the robot

coordinate system.

#### Methods Applied and Interpretation of Parameters

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
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  - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
  - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
  - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
  - Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements.
  - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
  - Power consumption: Typical value for information. Supply currents in various operating modes.

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### DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: TLSB = 5.1µV full range = -10tt. -+300 mV Low Plange: 1LSB -61nV full range = +1 +3mV DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Calibration Factors | X                     | ¥                     | Z                     |
|---------------------|-----------------------|-----------------------|-----------------------|
| High Range          | 403-254 ± 0.02% (k=2) | 403.158 ± 0.02% (k=2) | 402.803 ± 0.02% (k=2) |
|                     |                       | 3.90484 ± 1.50% (k=2) |                       |

#### Connector Angle

| Connector Angle to be used in DASY system | 90.5*±1* |
|---|----------|

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### Appendix (Additional assessments outside the scope of SCS0108)

### 1. DC Voltage Linearity

| High Range        | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 200032.85    | -2.13           | -0.00     |
| Channel X + Input | 20008.76     | 3.21            | 0.02      |
| Channel X - Input | -20000.69    | 4.51            | -0.02     |
| Channel Y + Input | 200033.55    | -4.13           | -0.00     |
| Channel Y + Input | 20003.79     | -1.78           | -0.01     |
| Channel Y - Input | -20008.44    | -1.22           | 0.01      |
| Channel Z + Input | 200031.86    | -3.06           | -0.00     |
| Channel Z + Input | 20006.10     | 0.58            | 0.00      |
| Channel Z - Input | -20003.99    | 1.29            | -0.01     |

| Low Range         | Reading (μV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 2001.72      | 0.18            | 0,01      |
| Channel X + Input | 201,65       | 0.01            | 0.01      |
| Channel X - Input | -198.51      | -0.28           | 0.14      |
| Channel Y + Input | 2001.34      | -0.09           | -0,00     |
| Channel Y + Input | 200,96       | -0.70           | -0.35     |
| Channel Y - Input | -199.61      | -1.33           | 0.67      |
| Channel Z + Input | 2001,33      | -0.06           | -0.00     |
| Channel Z + Input | 200,08       | -1.48           | -0.74     |
| Channel Z - Input | -200,28      | -1.91           | 0.96      |
|                   |              |                 |           |

#### 2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec.

|           | Common mode<br>Input Voltage (mV) | High Range<br>Average Reading (µV) | Low Range<br>Average Reading (µV) |
|-----------|-----------------------------------|------------------------------------|-----------------------------------|
| Channel X | 200                               | -3.89                              | -5.17                             |
|           | - 200                             | 5.60                               | 4.08                              |
| Channel Y | 200                               | -0.50                              | -1,15                             |
|           | - 500                             | 0.25                               | -0,51                             |
| Channel Z | 200                               | 5.51                               | 5.17                              |
|           | - 200                             | -7.92                              | -8.28                             |

#### 3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec: Measuring time: 3 sec

|           | Input Voltage (mV) | Channel X (µV) | Channel Y (µV) | Channel Z (µV) |
|-----------|--------------------|----------------|----------------|----------------|
| Channel X | 200                | -              | 3.20           | -2.58          |
| Channel Y | 200                | 9.59           | _              | 3.91           |
| Channel Z | 200                | 5.09           | 7.98           |                |

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#### 4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | High Range (LSB) | Low Range (LS8) |
|-----------|------------------|-----------------|
| Channel X | 16363            | 15273           |
| Channel Y | 16469            | 16100           |
| Channel Z | 16083            | 17048           |

#### 5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| lin |  |  |  |
|-----|--|--|--|
|     |  |  |  |
|     |  |  |  |

|           | Average (µV) | min. Offset (µV) | max. Offset (μV) | Std. Deviation<br>(µV) |
|-----------|--------------|------------------|------------------|------------------------|
| Channel X | -1,57        | -2.25            | -0.71            | 0.35                   |
| Channel Y | 0.27         | -0.91            | 1.98             | 0,42                   |
| Channel 2 | 0.12         | -1.25            | 1.42             | 0.47                   |

#### 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25tA

7. Input Resistance (Typical values for information)

|           | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200            | 200              |
| Channel Y | 200            | 200              |
| Channel Z | 200            | 200              |

### 8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | Alarm Level (VDC) |  |
|----------------|-------------------|--|
| Supply (+ Vcc) | +7.9              |  |
| Supply (- Vcc) | -7.6              |  |

9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Voc) | +0,01             | +6            | +14               |
| Supply (- Vcc) | -0.01             | 48            | -9                |

Certificate No: DAE4-547\_Mar18

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Calibration Laboratory of Schmid & Partner

Engineering AG Zeoghalestrasse 43, 6004 Zurich, Swittenand

Accredited by the Swins Accreditator Service (SAS): The Swiss Accreditation Service is one of the signatures to the EA Multilateral Agreement for the recognition of calibration curtificates

SGS-TW (Auden)

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Addressed No.: SCS 0108

сыяняльны EX3-3770\_Apr18

## CALIBRATION CERTIFICATE

EX3DVA SN:3770 Disease

GA CAL-01.v9, CA CAL-12.v9, GA CAL-14.v4, QA CAL-23.v5, Californian properturents

QA CAL-25,v6

Calibration procedure for dosimetric E-field probes

April 25, 2018 Californier date

This collinates conflicture documents the traceability to numbers attendance, which reason the physical units of man The measurements and the uppertainties with confidence probability are given on the following pages and are purity the confidence.

All collarations have been conducted in the closed interesting facility, environment temperature (22 ± 3)°C and framidity = 76%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID .             | Cal Date (Certificate No.)          | Scheduled Calibratium  |
|----------------------------|------------------|-------------------------------------|------------------------|
| Power malor NRP            | SM: 104778       | 04-Apr-19 (No. 217-02672/02673)     | Apr. 19                |
| Power sensor NRP 4791      | 3N: 103244       | 94-April (No. 217-02672)            | Apr-19                 |
| Power sensor NRP Z91       | 5N: 109245       | 94-Apr 18 (No. 217-92573)           | Apr-18                 |
| Helerence 20 dB Attenuator | 3N: 55277 (20x)  | 04-Apr-19 (No. 217-02582)           | Agn-10                 |
| Reinnerca Protos ES3DV2    | BN: 3013         | 30-Dec.17 (No. ES3-3013_Dec17)      | Dec-18                 |
| DAE                        | SN: 960          | 21-Dec 17 (No. DAE4-860_Dec17)      | Dec-16                 |
| Secondary Standards        | ib               | Check Date (in hissel)              | Scheduled Clieds       |
| Power motor E4410B         | SN: GBA1293874   | D6-Apr. 18 (in house check Jun- 18) | in home check: Jun 18  |
| Power sensor E4412A        | SN: MY41458087   | 36-Apr-16 (in house check Jun-15)   | In house check: dan-19 |
| Power seriou/ E4412A       | BN: 000111210    | 56 April 5 (in house check Jun-15)  | in house check: Junit8 |
| RF generator HP 86480      | SN: US3642U01700 | 194 Aug-199 (in fause chack Jun-16) | In house check: Am-18  |
| Network Analyzer HP 8753E  | SN 1/837306565   | 18-Oct-01 (in House check Oct-17)   | in house check, Du-18  |

Child a Leuister California by: Kata Polichic Technical Manager Apamyed by lessed April 26, 2016 This calification certificate shall not be reproduced except in full without written approval of the laburatory

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Engineering AG





5 Service wares d'étalonnege C Servizio svizzero di tannura. **Bwiss Calibration Service** 

Ascreditation No.: SCS 0108

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#### Glossary:

tesue simulating liquid NORMX.V.Z sensitivity in free space sensitivity in Tist. / NORMX,y,z Canve DCP

diode compression point crest factor (1/duty, cycle) of the RF signer CF A.B.C.O modulation dependent linearization persmeters

Polarization a n rotation around probe role

3 rotalism around an axis that is in the plane normal to probe axis (at measurement correct), Polarization 3

i.e., A = 0 < normal to probe nais

Connector Anales information used in DASY system to align probe sensor X to the robot coordinate system.

Calibration is Performed According to the Following Standards:

a) IEEE Sta 1526-2013, TEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Hand from Windows Communications Devices: Measurement

Accorption feets (2MK) in the Human Hallin from Winnings Communications Devices: Measurement Techniques', June 2013

EC 52:09-1, ". "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the east (frequency range of 300 MHz to 5 GHz). July 2010

EC 52:09-2, "Procedure to determine the Specific Absorption Rate (SAR) for wreless communication devices used in close proximity to the human body (frequency range of 30 MHz to 5 GHz)". March 2010 b)

d) KDB 865664, SAR Measurement Requirements for 100 MHz to 6 GHz

#### Methods Applied and Interpretation of Parameters:

MCRMx,y,z: Assessed for E-field polarization 6 = 0 (f ± 900 MHz in TEM-cell, f > 1600 MHz; R22 waveguide). NORMx,y,z are only intermediate values, ce... The uncertainties of NORMx,y,z does not affect the E<sup>2</sup>-field.

uncertainty inside TSL (see below ConvF).

NORM(f)x,y,z = NORMx,y,z \* flequency response (see Frequency Response Chart). This inexistation is implemented in DASY4 software versions inter than 4.2. The uncertainty of the frequency response is included.

If the stated uncertainty of ConvF.
DCPx,y.z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW.

signal (no uncertainty required). DCP does not depend on fraguency nor media. PAR: PAR is the Peak to Average Ratio that is not caldinated but determined based on the signal.

AX.Y,Z. BX.Y,Z; CX.Y,Z; Ox.Y,Z; VR.Y,Z; A. B. C. D are numerical linearization parameters assessed based a the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the dioda. ConVF and Boundary Effect Parameters. Assessed in flat phantom using 5-field (or Temperature Transfer

Standard for t < 800 MHz) and inside waveguide using analytical field distributions based on power measurements for t > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds In NORMs, y.z.\* ConvE whereby the uncertainty corresponds to that given for ConvE. A frequency depends ConvE is used in DASY version 6.4 and higher which allows extending the validity from a 50 MHz to  $\varepsilon$  100. MHS

Spherical Notropy (30 deviation from (sotropy); in a field of low gradients realized using a flat phantem

exposed by a patch antenna.

Sensor Offset: The sensur offset corresponds to the offset of virtual measurement center from the probe tip. (on probe axis). No tolerance required.

Connector Angle: The angle is assessor using an information gained by determining the NORMs (but uncertainty required).

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EX3DV4 - SN:3770

April 25, 2018

# Probe EX3DV4

SN:3770

Manufactured: Calibrated:

July 6, 2010 April 25, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: EX3-3770\_Apr18

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EX3DV4- SN:3770

April 25, 2018

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

#### **Basic Calibration Parameters**

|  | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|--|----------|----------|----------|-----------|
| Norm (µV/(V/m) <sup>2</sup> ) <sup>A</sup> | 0.30     | 0.60     | 0.38     | ± 10.1 %  |
| DCP (mV) <sup>8</sup>                      | 101.9    | 101.9    | 101.5    |           |

**Modulation Calibration Parameters** 

| UID | Communication System Name |   | A<br>dB | B<br>dB√μV | С   | D<br>dB | VR<br>mV | Unc <sup>L</sup><br>(k=2) |
|-----|---------------------------|---|---------|------------|-----|---------|----------|---------------------------|
| 0   | CW                        | X | 0.0     | 0.0        | 1.0 | 0.00    | 138.1    | ±3.5 %                    |
|     |                           | Y | 0.0     | 0.0        | 1.0 |         | 134.7    |                           |
|     |                           | Z | 0.0     | 0.0        | 1.0 |         | 135.6    |                           |

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5 and 6).
 Numerical linearization parameter: uncertainty not required.
 Uncertainty is determined using the max, deviation from linear response applying ractangular distribution and is expressed for the square of the field value.



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EX3DV4-SN:3770

April 25, 2018

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

#### Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>c</sup> | Relative<br>Permittivity <sup>®</sup> | Conductivity<br>(S/m) F | ConvF X | ConvF Y | ConvF Z | Alpha <sup>6</sup> | Depth <sup>0</sup><br>(mm) | Unc<br>(k=2) |
|----------------------|---------------------------------------|-------------------------|---------|---------|---------|--------------------|----------------------------|--------------|
| 450                  | 43.5                                  | 0.87                    | 11.20   | 11.20   | 11.20   | 0.13               | 1.25                       | ± 13.3 %     |
| 750                  | 41.9                                  | 0.89                    | 10.05   | 10.05   | 10.05   | 0.43               | 0.80                       | ± 12.0 %     |
| 835                  | 41.5                                  | 0.90                    | 9.55    | 9.55    | 9.55    | 0.35               | 0.97                       | ± 12.0 %     |
| 900                  | 41.5                                  | 0.97                    | 9.36    | 9.36    | 9.36    | 0.27               | 1.10                       | ± 12.0 %     |
| 1750                 | 40.1                                  | 1.37                    | 8.48    | 8.48    | 8.48    | 0.35               | 0.80                       | ± 12.0 %     |
| 1900                 | 40.0                                  | 1.40                    | 8.22    | 8.22    | 8.22    | 0.32               | 0.80                       | ± 12.0 %     |
| 2000                 | 40.0                                  | 1.40                    | 8.15    | 8.15    | 8.15    | 0.38               | 0.80                       | ± 12.0 %     |
| 2300                 | 39.5                                  | 1.67                    | 7.78    | 7.78    | 7.78    | 0.33               | 0.84                       | ± 12.0 %     |
| 2450                 | 39.2                                  | 1.80                    | 7.43    | 7.43    | 7.43    | 0.38               | 0.80                       | ± 12.0 %     |
| 2600                 | 39.0                                  | 1.96                    | 7.20    | 7.20    | 7.20    | 0.36               | 0.84                       | ± 12.0 %     |
| 5250                 | 35.9                                  | 4.71                    | 5.25    | 5.25    | 5.25    | 0.40               | 1.80                       | ± 13.1 %     |
| 5600                 | 35.5                                  | 5.07                    | 4.92    | 4.92    | 4.92    | 0.40               | 1.80                       | ± 13.1 %     |
| 5750                 | 35.4                                  | 5.22                    | 5.21    | 5.21    | 5.21    | 0.40               | 1.80                       | ± 13.1 %     |

<sup>&</sup>lt;sup>c</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the CorwF uncertainty at calibration frequency and the uncertainty for the indicated frequency bend. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for CorwF assessments at 30, 64, 128, 100 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

\*At frequencies below 3 GHz, the validity of tissue parameters (a and a) can be relaxed to ± 10% if figuid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (a and a) is restricted to ± 5%. The uncertainty is the RSS of the CorwF uncertainty for indicated target tissue parameters.

\*Aphis/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensations always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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EX3DV4-- SN:3770

April 25, 2018

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

#### Calibration Parameter Determined in Body Tissue Simulating Media

| alibration           | Parameter D                           | etermined in                       | Body 118 | ssue Sim | ulating M | edia               |                            |              |
|----------------------|---------------------------------------|------------------------------------|----------|----------|-----------|--------------------|----------------------------|--------------|
| f (MHz) <sup>e</sup> | Relative<br>Permittivity <sup>F</sup> | Conductivity<br>(S/m) <sup>F</sup> | ConvF X  | ConvF Y  | ConvF Z   | Alpha <sup>G</sup> | Depth <sup>0</sup><br>(mm) | Une<br>(k=2) |
| 450                  | 56.7                                  | 0.94                               | 10.68    | 10.68    | 10.68     | 0.08               | 1.25                       | ± 13.3 %     |
| 750                  | 55.5                                  | 0.96                               | 9.97     | 9.97     | 9.97      | 0.39               | 0.95                       | ± 12.0 %     |
| 835                  | 55.2                                  | 0.97                               | 9.72     | 9.72     | 9.72      | 0.45               | 0.88                       | ± 12.0 %     |
| 900                  | 55.0                                  | 1.05                               | 9.64     | 9.64     | 9.64      | 0.44               | 0.85                       | ± 12.0 %     |
| 1750                 | 53.4                                  | 1.49                               | 8.26     | 8.26     | 8.26      | 0.43               | 0.80                       | ± 12.0 %     |
| 1900                 | 53.3                                  | 1.52                               | 8.00     | 8.00     | 8.00      | 0.37               | 0.87                       | ± 12.0 %     |
| 2000                 | 53.3                                  | 1.52                               | 7.97     | 7.97     | 7.97      | 0.29               | 1.00                       | ± 12.0 %     |
| 2300                 | 52.9                                  | 1.81                               | 7.68     | 7.68     | 7.68      | 0.42               | 0.84                       | ± 12.0 %     |
| 2450                 | 52.7                                  | 1.95                               | 7.59     | 7.59     | 7.59      | 0.41               | 0.84                       | ± 12.0 %     |
| 2600                 | 52.5                                  | 2.16                               | 7.37     | 7.37     | 7.37      | 0.15               | 0.98                       | ± 12.0 %     |
| 5250                 | 48.9                                  | 5.36                               | 4.65     | 4.65     | 4.65      | 0.50               | 1.90                       | ± 13.1 %     |
| 5600                 | 48.5                                  | 5.77                               | 4.06     | 4.06     | 4.06      | 0.50               | 1.90                       | ± 13.1 %     |
| 5750                 | 48.3                                  | 5.94                               | 4.38     | 4.38     | 4.38      | 0.50               | 1.90                       | ± 13.1 %     |

<sup>&</sup>lt;sup>0</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), also it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 99 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.
FALTHEQUARDISS below 3 GHz, the validity of tissue parameters (it and or) can be released to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of fissue parameters (it and or) is restricted to ± 5%. The uncertainty for indicated target tissue parameters.
Applicable of the determined during calibration. SPEAC warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip dismeter from the boundary.

Certificate No: EX3-3770\_Apr18

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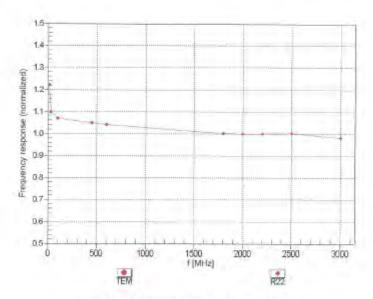


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EX30V4- SN:3770

April 25, 2018

## Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Wavegulde: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Gertificate No; EX3-3770\_Apr18

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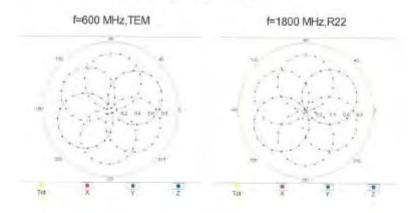
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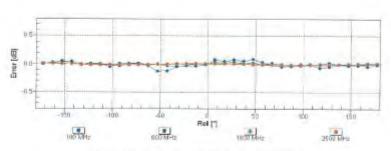


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EX3DV4-SN:3770 April 25, 2018

## Receiving Pattern (6), 9 = 0°





Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)

Certificate No: EX3-3770\_April 8

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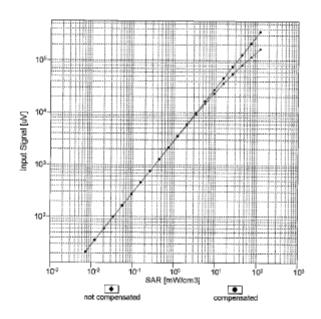


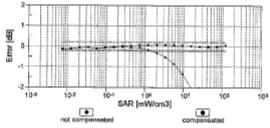
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EX3DV4-- SN:3770

April 25, 2018

## Dynamic Range f(SAR<sub>head</sub>) (TEM cell , foval = 1900 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Certificate No: EX3-3770\_Apr18

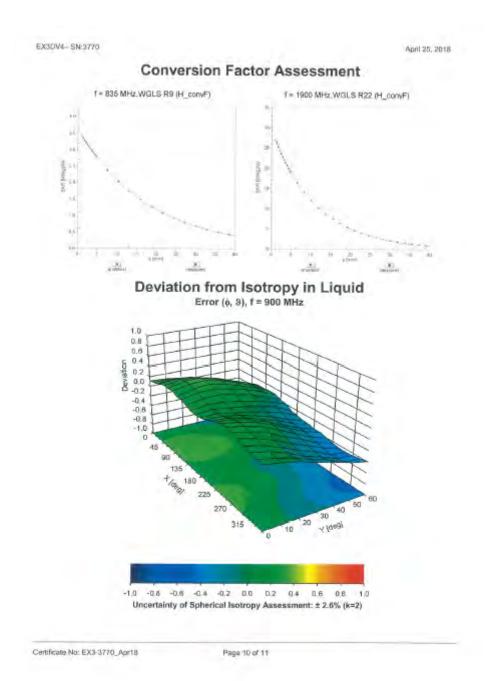
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EX3DV4- SN:3770

April 25, 2018

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

#### Other Probe Parameters

| Sensor Arrangement                            | Triangular |
|---|------------|
| Connector Angle (")                           | -32.8      |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 9 mm       |
| Tip Diameter                                  | 2.5 mm     |
| Probe Tip to Sensor X Calibration Point       | 1 mm       |
| Probe Tip to Sensor Y Calibration Point       | 1 mm       |
| Probe Tip to Sensor Z Calibration Point       | 1 mm       |
| Recommended Measurement Distance from Surface | 1.4 mm     |

Certificate No: EX3-3770\_Apr18

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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8604 Zurich, Switzerland





S Schweizertscher Kalibrierdierei
C Service suisse d'étalonnage
Servizio svizzero di taratura
Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
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Citem

SGS-TW (Auden)

Certificate No: EX3-3831 Jan18

## CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:3831

Calibration propositive(s)

QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6

Calibration procedure for dosimetric E-field probes

Calibration date:

January 23, 2018

This calibration certificate documents the traceability to rational standards, which essize the physicial units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the ciceed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)         | Scheduled Calibration   |
|----------------------------|------------------|------------------------------------|-------------------------|
| Power meter NRP            | SN: 184778       | 04 Apr. 17 (No. 217-02521/02522)   | Apr.18                  |
| Power sensor NRP-Z91       | 3N 103244        | 04-Apr-17 (No. 217-02521)          | Apr-18                  |
| Power sensor NRP-Z91       | SN 103245        | 04-Apr-17 (No. 217-02525)          | Apr-18                  |
| Reference 20 dB Attenuator | SN: \$5277 (20x) | 97 Apr. 17 (No. 217-02528)         | Apr.18                  |
| Reference Probe ES3DV2     | SN: 3013         | 30-Dec-17 (No. ES3-3013_Dec17)     | Dec-18                  |
| DAE4                       | SN 660           | 21-Dec-17 (No. DAE4-660, Dec17)    | Dec-18                  |
| Secondary Standards        | 4D               | Check Date (in house).             | Scheduled Check         |
| Power meter E4419B         | SN: GB41293874   | 06-Apr-16 (in house check Jun-15)  | in house check: Jun-18  |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-16)  | in house check: Jun-18  |
| Power sensor E4412A        | 5N, 000110210    | Q6-Apr-16 (in house theck Jun-16)  | In house check: Jun-18. |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-90 (in house check Jury-16) | in house check: Jun-18  |
| Natural Analyza HP 8759F   | SN: 1/897100585  | 18-Deset (in house check Des-17)   | In house chark: Firt.18 |

| Califrated by | Wiction Walter | Function<br>Leboratory Technician | Milles                   |
|---------------|----------------|-----------------------------------|--------------------------|
| Approved by   | Karja Pokovic  | Technical Manager                 | RI MG                    |
|               |                |                                   | langert January 25, 2018 |

Certificate No: EX3-3631\_Jan 18

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Schweizerischer Kallbrientumst S Service suisse d'étalonnage C Servizio svigzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Sweet Accreditation Service (SAS)

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Glossary:

NORMx,y,z ConvF DCP CF

tissue simulating liquid sensitivity in free space sensitivity in TSL / NORMx,y,z diade compression point

crest factor (1/duty\_cycle) of the RF signal A. B. C. D modulation dependent linearization parameters Polarization iji e rotation around probe axis.

Polarization ( 9 rotation around an axis that is in the plane normal to probe exis (at measurement center),

i.e. a = 0 is normal to probe axis

Connector Angle Information used in DASY system to align probe sensor X to the robot coordinate system

Callbration is Performed According to the Following Standards:

IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement

Techniques', June 2013

b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 5 GHz)", July 2016

c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices."

used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)\*, March 2010.

d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 8 GHz

#### Methods Applied and Interpretation of Parameters:

 $NORM_{x,y,z}$  Assessed for E-field polarization  $\beta = 0$  (f  $\leq$  900 MHz in TEM-cell; f > 1800 MHz; R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect this E<sup>2</sup>-field. uncertainty inside TSL (see below ConvF).

NORM(f)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included the stated uncertainty of ConvF.

DCPx,y,z; DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.

PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics

Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z; A, B, C. D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.

ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for 1 ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for t > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx, y.z.\* CorwF whereby the uncertainty corresponds to that given for CorwF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100. MHz

Spherical isotropy (3D deviation from isotropy); in a field of low gradients realized using a flat phantom exposed by a patch anlenna.

Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Certificate No: EX3-3831\_Jan18

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EX3DV4 - SN:3831

January 23, 2018

# Probe EX3DV4

SN:3831

Manufactured: Calibrated:

September 6, 2011 January 23, 2018

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

Certificate No: EX3-3831\_Jan18

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EX3DV4 SN:3831

January 23, 2016

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

#### Basic Calibration Parameters

|                               | Sensor X | Sensor Y | Sensor Z | Una (k=2) |
|-------------------------------|----------|----------|----------|-----------|
| Norm (µV/(V/m)²) <sup>n</sup> | 0.43     | 0.41     | 0.42     | ±10.1%    |
| DCP (mV) <sup>II</sup>        | 100,3    | 106.6    | 101,4    | 1         |

#### Modulation Calibration Parameters

| UID | Communication System Name |   | A<br>dB | B<br>dBõV | C   | D<br>dB | VR<br>mV | Unc*<br>(k=2) |
|-----|---------------------------|---|---------|-----------|-----|---------|----------|---------------|
| D   | CW X                      | X | 0.0     | 0.0       | 1.0 | 0.00    | 176.5    | ±3.5 %        |
|     |                           | Y | 0.0     | 0.0       | 1.0 |         | 196.9    |               |
|     |                           | Z | 0.0     | 0.0       | 1.0 | -       | 196.8    |               |

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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The uncertainties of Norm X.Y.Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5 and 6).

Numerical invarization parameter: uncertainty not required.

Uncertainty is determined using the max-deviation from linear response applying rectangular distribution and is expressed for the square of the field value



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EX3DV4-SN:3831

January 23, 2018

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

## Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>E</sup> | Relative<br>Permittivity | Conductivity<br>(S/m) | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>0</sup><br>(mm) | Unc<br>(k=2) |
|----------------------|--------------------------|-----------------------|---------|---------|---------|--------------------|----------------------------|--------------|
| 750                  | 41.9                     | 0.89                  | 9.55    | 9.55    | 9,56    | 0.32               | 1.00                       | ±12.0 %      |
| 835                  | 41.5                     | 0.90                  | 9.10    | 9.10    | 9.10    | 0.29               | 1.04                       | ±12.0%       |
| 900                  | 41.5                     | 0.97                  | 9.00    | 9,00    | 9.00    | 0.40               | 0.85                       | ± 12.0 %     |
| 1750                 | 40.1                     | 1.37                  | 8.09    | 8.09    | 8,09    | 0.37               | 0.80                       | ±120%        |
| 1900                 | 40.0                     | 1.40                  | 7.78    | 7,78    | 7.78    | 0.34               | 0.84                       | ±12.0 %      |
| 2000                 | 40.0                     | 1.40                  | 7.79    | 7.79    | 7.79    | 0.27               | 0.84                       | ± 12.0 %     |
| 2300                 | 39.5                     | 1.67                  | 7.50    | 7.50    | 7.50    | 0.32               | 0.80                       | ±12.0 %      |
| 2450                 | 39.2                     | 1.80                  | 7.16    | 7.16    | 7.16    | 0.38               | 0.84                       | ± 12.0 %     |
| 2600                 | 39.0                     | 1.95                  | 6.95    | 6.95    | 6,95    | 0.38               | 0.82                       | ± 12.0 %     |
| 3500                 | 37,9                     | 2.91                  | 6.64    | 6.64    | 6.64    | 0.30               | 1.20                       | ±13.1 %      |
| 5200                 | 36.0                     | 4.66                  | 4.86    | 4,86    | 4.86    | 0.35               | 1.80                       | ±13,1 %      |
| 5300                 | 35.9                     | 4.76                  | 4.65    | 4,65    | 4,65    | 0.35               | 1.80                       | ±13.1 %      |
| 5600                 | 35.5                     | 5.07                  | 4.49    | 4.49    | 4,49    | 0.40               | 1.80                       | ±13.1%       |
| 5800                 | 35.3                     | 5.27                  | 4.50    | 4.50    | 4.50    | 0.40               | 1,80                       | ± 13.1 %     |

Financiancy validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Fagis 2), else £ is restricted to ± 50 MHz. The uncertainty is the RSS of the ComiF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Producincy validity below 300 MHz is ± 10, 25, 60, 50 and 70 MHz is Excessments at 30, 64, 126, 150 and 200 MHz respectively. Above 5 GHz frequency validity can be extended to ± 10 MHz.

At frequencies below 5 GHz, the validity of tissue parameters in and of can be released to ± 10% if liquid compensation formula is applied to

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measured SAR values. All frequences above 3 GHz, the validity of tissue parameters (c and et) is restricted to ± 5%. The uncertainty in the RSS of the ConvF uncertainty for indicated larget tissue parameters.

Apha Degith are determined uning determined SPEAG assembly the termining deviation due to the boundary affect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any desance larger than that the probe tip diameter from the boundary.



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EX3DV4- SN:3831

January 23, 2018.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

#### Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative<br>Permittivity | Conductivity<br>(S/m) | ConvF X | ConvF Y | ConvF Z | Alpha <sup>®</sup> | Depth <sup>Q</sup><br>(mm) | Unc<br>(k=2) |
|----------------------|--------------------------|-----------------------|---------|---------|---------|--------------------|----------------------------|--------------|
| 750                  | 55.5                     | 0.96                  | 9.39    | 9.39    | 9.39    | 0.34               | 1.00                       | ± 12.0 %     |
| 835                  | 55.2                     | 0.97                  | 9.18    | 9.18    | 9.18    | 0.39               | 0,85                       | ±120%        |
| 900                  | 55.0                     | 1.05                  | 9.13    | 9.13    | 9.13    | 0.32               | .D.96                      | ± 12.0 %     |
| 1750                 | 53.4                     | 1.49                  | 7.65    | 7.65    | 7.65    | 0,32               | 0.85                       | ± 12.0 %     |
| 1900                 | 53,3                     | 1.52                  | 7.35    | 7.35    | 7.35    | 0.38               | 0.81                       | ±12.0 %      |
| 2000                 | 63.3                     | 1.52                  | 7.51    | 7.51    | 7.51    | 0.36               | 08.0                       | ±12.0 %      |
| 2300                 | 52,9                     | 1.81                  | 7.29    | 7.29    | 7.29    | 0.36               | 0.88                       | ±12.0 %      |
| 2450                 | 52.7                     | 1.95                  | 7.26    | 7.25    | 7.26    | 0.34               | 0.88                       | ±12.0 %      |
| 2600                 | 52.5                     | 2.15                  | 6.95    | 6.95    | 6.95    | 0.25               | 0.99                       | ± 12.0 %     |
| 3500                 | 51.3                     | 3.31                  | 6,60    | 6.60    | 6.60    | 0.30               | 1.20                       | ±13.1 %      |
| 5200                 | 49.0                     | 5.30                  | 4.56    | 4.56    | 4.56    | 0.35               | 1.90                       | ± 13.1 %     |
| 5300                 | 48.9                     | 5,42                  | 4.39    | 4.39    | 4.39    | 0.35               | 1.90                       | ±13.1 %      |
| 5600                 | 48.5                     | 5.77                  | 3.92    | 3.92    | 3.92    | 0.40               | 1,90                       | ± 13.1 %     |
| 5800                 | 48.2                     | 6.00                  | 4.17    | 4.17    | 4.17    | 0.40               | 1.90                       | ± 13.1 %     |

Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), also if is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity, below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

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valuely can be extended to ± 110 MHz.

All Requences below 3 GHz, the validity of tissue parameters (it and in) can be relieved to ± 10% if liquid compensation formule is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters is and of its restricted to ± 5%. The uncontainty is the PSS of the Constitution for indicated larger tissue parameters.

AphaDepth are determined during calification. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies between 3-6 GHz at any distance larger than half the probe tip claimater from this boundary.



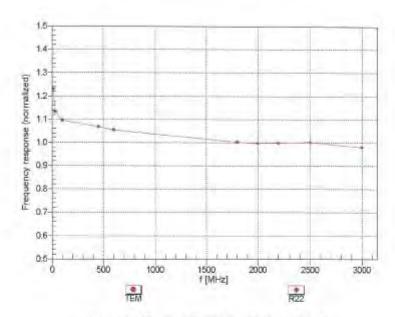
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January 23, 2018

## Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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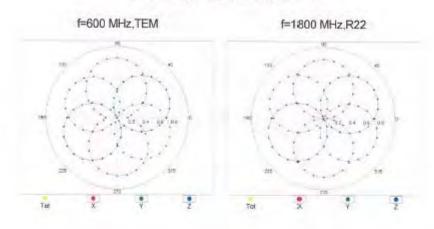


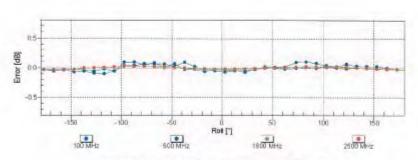
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January 23, 2018

## Receiving Pattern (6), 9 = 0°





Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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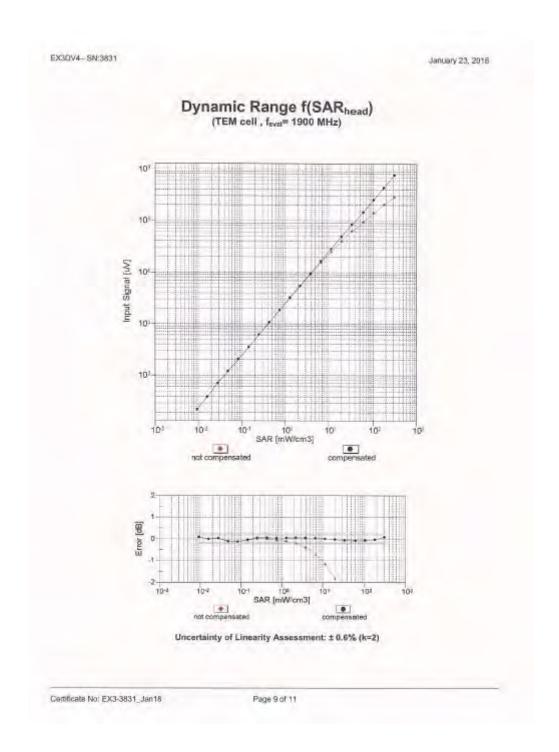
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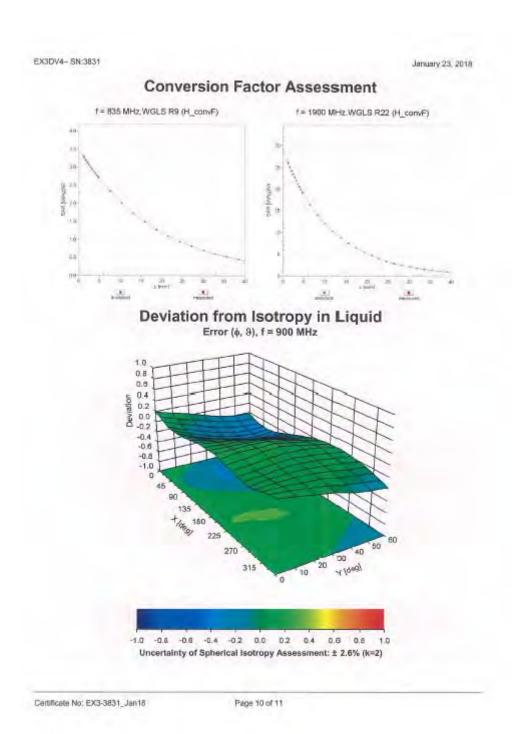
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January 23, 2018

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

#### Other Probe Parameters

| Triangular |
|------------|
| -17.1      |
| enabled    |
| disabled   |
| 337 mm     |
| 10 mm      |
| 9 mm       |
| 2.5 mm     |
| 1 mm       |
| 1 mm       |
| 1 mm       |
| 1.4 mm     |
|            |

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## 8. Uncertainty Budget

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

| A   | С                         | D                          | е   |           | f       | g        | h=c * f / e          | i=c * g / e             | k           |
|---|---------------------------|----------------------------|-----|-----------|---------|----------|----------------------|-------------------------|-------------|
| Source of Uncertainty                             | Tolerance/<br>Uncertainty | Probability<br>Distributio | Div | Div Value | ci (1g) | ci (10g) | Standard uncertainty | Standard<br>uncertainty | vi, or Veff |
| Measurement system                                |                           |                            |     |           |         |          |                      |                         |             |
| Probe calibration                                 | 6.55%                     | N                          | 1   | 1         | 1       | 1        | 6.55%                | 6.55%                   | 8           |
| Isotropy , Axial                                  | 3.50%                     | R                          | √3  | 1.732     | 1       | 1        | 2.02%                | 2.02%                   | œ           |
| Isotropy, Hemispherical                           | 9.60%                     | R                          | √3  | 1.732     | 1       | 1        | 5.54%                | 5.54%                   | œ           |
| Modulation Response                               | 2.40%                     | R                          | √3  | 1.732     | 1       | 1        | 1.40%                | 1.40%                   | ∞           |
| Boundary Effect                                   | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                   | œ           |
| Linearity   | 4.70%                     | R                          | √3  | 1.732     | 1       | 1        | 2.71%                | 2.71%                   | œ           |
| Detection Limits                                  | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                   | œ           |
| Readout Electronics                               | 0.30%                     | N                          | 1   | 1         | 1       | 1        | 0.30%                | 0.30%                   | œ           |
| Response time                                     | 0.80%                     | R                          | √3  | 1.732     | 1       | 1        | 0.46%                | 0.46%                   | œ           |
| Integration Time                                  | 2.60%                     | R                          | √3  | 1.732     | 1       | 1        | 1.50%                | 1.50%                   | œ           |
| Measurement drift (class A evaluation)            | 1.75%                     | R                          | √3  | 1.732     | 1       | 1        | 1.01%                | 1.01%                   | œ           |
| RF ambient condition - noise                      | 3.00%                     | R                          | √3  | 1.732     | 1       | 1        | 1.73%                | 1.73%                   | œ           |
| RF ambient conditions - reflections               | 3.00%                     | R                          | √3  | 1.732     | 1       | 1        | 1.73%                | 1.73%                   | œ           |
| Probe positioner<br>Mechanical restrictions       | 0.40%                     | R                          | √3  | 1.732     | 1       | 1        | 0.23%                | 0.23%                   | œ           |
| Probe Positioning with respect to phantom shell   | 2.90%                     | R                          | √3  | 1.732     | 1       | 1        | 1.67%                | 1.67%                   | œ           |
| Post-processing                                   | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                   | œ           |
| Max SAR Eval                                      | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                   | œ           |
| Test Sample related                               |                           |                            |     |           |         |          |                      |                         |             |
| Test sample positioning                           | 2.90%                     | N                          | 1   | 1         | 1       | 1        | 2.90%                | 2.90%                   | M-1         |
| Device Holder Uncertainty                         | 3.60%                     | N                          | 1   | 1         | 1       | 1        | 3.60%                | 3.60%                   | M-1         |
| Drift of output power                             | 5.00%                     | R                          | √3  | 1.732     | 1       | 1        | 2.89%                | 2.89%                   | 80          |
| Phantom and Setup                                 |                           |                            |     |           |         |          |                      |                         |             |
| Phantom Uncertainty                               | 4.00%                     | R                          | √3  | 1.732     | 1       | 1        | 2.31%                | 2.31%                   | œ           |
| Liquid permittivity (mea.)                        | 1.32%                     | N                          | 1   | 1         | 0.64    | 0.43     | 0.84%                | 0.57%                   | М           |
| Liquid Conductivity (mea.)                        | 1.01%                     | N                          | 1   | 1         | 0.6     | 0.49     | 0.61%                | 0.49%                   | М           |
| Combined standard uncertainty                     |                           | RSS                        |     |           |         |          | 11.76%               | 11.73%                  |             |
| Expant uncertainty (95% confidence interval), K=2 |                           |                            |     |           |         |          | 23.52%               | 23.46%                  |             |

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#### Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

| А   | С                         | D                          | е   |           | f       | g        | h=c * f / e          | i=c * g / e             | k           |
|---|---------------------------|----------------------------|-----|-----------|---------|----------|----------------------|-------------------------|-------------|
| Source of Uncertainty                             | Tolerance/<br>Uncertainty | Probability<br>Distributio | Div | Div Value | ci (1g) | ci (10g) | Standard uncertainty | Standard<br>uncertainty | vi, or Veff |
| Measurement system                                |                           |                            |     |           |         |          |                      |                         |             |
| Probe calibration                                 | 6.00%                     | N                          | 1   | 1         | 1       | 1        | 6.00%                | 6.00%                   | ∞           |
| Isotropy , Axial                                  | 3.50%                     | R                          | √3  | 1.732     | 1       | 1        | 2.02%                | 2.02%                   | 8           |
| Isotropy, Hemispherical                           | 9.60%                     | R                          | √3  | 1.732     | 1       | 1        | 5.54%                | 5.54%                   | 8           |
| Modulation Response                               | 2.40%                     | R                          | √3  | 1.732     | 1       | 1        | 1.40%                | 1.40%                   | ∞           |
| Boundary Effect                                   | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                   | ∞           |
| Linearity   | 4.70%                     | R                          | √3  | 1.732     | 1       | 1        | 2.71%                | 2.71%                   | ∞           |
| Detection Limits                                  | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                   | ∞           |
| Readout Electronics                               | 0.30%                     | N                          | 1   | 1         | 1       | 1        | 0.30%                | 0.30%                   | ∞           |
| Response time                                     | 0.80%                     | R                          | √3  | 1.732     | 1       | 1        | 0.46%                | 0.46%                   | ∞           |
| Integration Time                                  | 2.60%                     | R                          | √3  | 1.732     | 1       | 1        | 1.50%                | 1.50%                   | ∞           |
| Measurement drift (class A evaluation)            | 1.75%                     | R                          | √3  | 1.732     | 1       | 1        | 1.01%                | 1.01%                   | ∞           |
| RF ambient condition - noise                      | 3.00%                     | R                          | √3  | 1.732     | 1       | 1        | 1.73%                | 1.73%                   | ∞           |
| RF ambient conditions - reflections               | 3.00%                     | R                          | √3  | 1.732     | 1       | 1        | 1.73%                | 1.73%                   | ∞           |
| Probe positioner Mechanical restrictions          | 0.40%                     | R                          | √3  | 1.732     | 1       | 1        | 0.23%                | 0.23%                   | ∞           |
| Probe Positioning with respect to phantom shell   | 2.90%                     | R                          | √3  | 1.732     | 1       | 1        | 1.67%                | 1.67%                   | ∞           |
| Post-processing                                   | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                   | ∞           |
| Max SAR Eval                                      | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                   | ∞           |
| Test Sample related                               |                           |                            |     |           |         |          |                      |                         |             |
| Test sample positioning                           | 2.90%                     | N                          | 1   | 1         | 1       | 1        | 2.90%                | 2.90%                   | M-1         |
| Device Holder Uncertainty                         | 3.60%                     | N                          | 1   | 1         | 1       | 1        | 3.60%                | 3.60%                   | M-1         |
| Drift of output power                             | 5.00%                     | R                          | √3  | 1.732     | 1       | 1        | 2.89%                | 2.89%                   | ∞           |
| Phantom and Setup                                 |                           |                            |     |           |         |          |                      |                         |             |
| Phantom Uncertainty                               | 4.00%                     | R                          | √3  | 1.732     | 1       | 1        | 2.31%                | 2.31%                   | ∞           |
| Liquid permittivity (mea.)                        | 4.07%                     | N                          | 1   | 1         | 0.64    | 0.43     | 2.60%                | 1.75%                   | М           |
| Liquid Conductivity (mea.)                        | 4.52%                     | N                          | 1   | 1         | 0.6     | 0.49     | 2.71%                | 2.21%                   | М           |
| Combined standard uncertainty                     |                           | RSS                        |     |           |         |          | 12.02%               | 11.75%                  |             |
| Expant uncertainty (95% confidence interval), K=2 |                           |                            |     |           |         |          | 24.04%               | 23.50%                  |             |

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## 9. Phantom Description

Schmid & Partner Engineering AG

s p e a g

Zeughausstrasse 43, 9004 Zurich, Switzerland Phone +41 44 245 9700, Fax +41 44 245 9779 info@speag.com, http://www.speag.com

#### Certificate of Conformity / First Article Inspection

| Item         | Oval Flat Phantom ELI 5.0  |
|--------------|--|
| Type No      | QD OVA 002 A   |
| Series No    | 1108 and higher  |
| Manufacturer | Untersee Composites Knebelstrasse 8, CH-8268 Mannenbach, Switzerland |

#### Tests

Complete tests were made on the prototype units QD OVA 001 A, pre-series units QD OVA 001 B as well as on some series units QD OVA 001 B. Some tests are made on all series units QD OVA 002 A.

| Test                   | Requirement   | Details   | Units tested                    |
|------------------------|---|---|---------------------------------|
| Shape                  | Internal dimensions, depth and<br>sagging are compatible with<br>standards                | Bottom elliptical 600 x 400<br>mm, Depth 190 mm,<br>dimension compliant with [1]<br>for f > 375 MHz | Prototypes                      |
| Material thickness     | Bottom:<br>2.0mm +/- 0.2mm  | dimension compliant with<br>[3] for f > 800 MHz   | all                             |
| Material<br>parameters | rel. permittivity 2 – 5,<br>loss tangent ≤ 0.05, at f ≤ 6<br>GHz                          | rel. permittivity 3.5 +/- 0.5<br>loss tangent ≤ 0.05  | Material samples                |
| Material resistivity   | Compatibility with tissue<br>simulating liquids .   | Compatible with SPEAG liquids. **   | Phantoms,<br>Material<br>sample |
| Sagging                | Sagging of the flat section in<br>tolerance when filled with<br>tissue simulating liquid. | within tolerance for filling<br>height up to 155 mm   | Prototypes,<br>samples          |

Note: Compatibility restrictions apply certain liquid components mentioned in the standard, containing e.g. DGBE, DGMHE or Triton X-100. Observe technical note on material compatibility.

#### Standards

- OET Bulletin 65, Supplement C, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields". Edition 01-01
- to Radiofrequency Electromagnetic Fields", Edition 01-01
  [2] IEEE 1528-2003, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques, December 2003
- [3] IEC 62209–1 ed1.0, "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", 2005-02-18
- [4] IEC 62209–2 ed1.0, "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", 2010-03-30

#### Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of body-worn SAR measurements and system performance checks as specified in [1 – 4] and further standards.

Date 25.7.2011

Signature / Stamp

Schmig & Parties Engineering AG Zeugborstrasse 43, 8004 Zuich, Smither Phone 441 44/255 2708 February Info & Speag.com, http://www.speag.com

Doc No 881 - QD OVA 002 A - A

age

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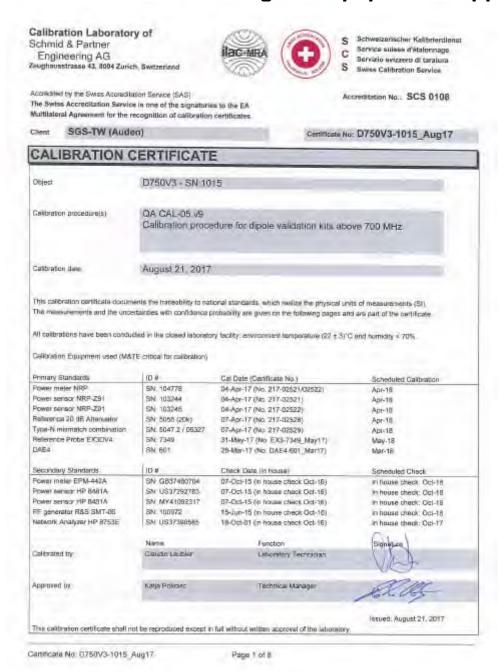
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## 10. System Validation from Original Equipment Supplier



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Calibration Laboratory of Schmid & Partner Engineering AG

france 43, 9054 Zurich, Switzerland



Schweizerischer Keilbrierdienst Service suisce Chalemage Servizio avizzero di tarques Swiss Calibration Service

Accreditation No.: SCS 010X

Accredited by the Swas Accrements Service (SAS) The SWiss Accreditation Service is one of the signaturing to the EA Multiliarral Agreement for the recognition of calibration cents

Glossary:

TSL basue simulating liquid ConvF sensitivity in TSL / NORM x.y.z. N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 82209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)". March 2010
- d) KDB 865684, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Additional Documentation:

e) DASY4/5 System Handbook

#### Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The Impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured; SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificiale No. D750V3-1015, Aug 17

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#### Measurement Conditions

| DASY Version                 | DASY5                  | V52.10.0    |
|------------------------------|------------------------|-------------|
| Extrapolation                | Advanced Extrapolation |             |
| Phantom                      | Modular Flai Phantom   |             |
| Distance Dipole Center - TSL | 15 mm                  | with Specer |
| Zoom Scan Resolution         | da. dy dz = 5 mm       |             |
| Prequency                    | 750 MHz ± 1 MHz        |             |

## Head TSL parameters

The following parameters and calculations w

|   | Temperature   | Permittivity | Conductivity     |
|---|---------------|--------------|------------------|
| Nominal Head TSL parameters             | 22.0 °C       | 41.9         | D.89 inno/m      |
| Measured Head TSL parameters            | (22.0±0.2) °C | 41.1±6%      | 0.90 mhg/m ± 5 % |
| Head TSL temperature change during test | < 0.5 °C      | _            | -                |

#### SAR result with Head TSL

| SAR averaged over 1 cm2 (1 g) of Head TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                              | 250 mW input power | 2.09 W/kg                |
| SAR for numinal Head TSL parameters       | W of besitamon     | 8.25 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 1.35 W/kg                |
| SAR for nominal Head TSL parameters                     | normalized to 1W   | 5.35 W/kg ± 16.5 % (k=2) |

## Body TSL parameters

The following parameters and calculations were applied.

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters             | 22.0 °C         | 55,5         | 0.96 mha/m       |
| Measured Body TSL parameters            | (22.0 ± 0.2) °C | 55.5 ± 6 %   | 0.96 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C        | _            |                  |

## SAR result with Body TSL

| SAR averaged over 1 cm <sup>2</sup> (1 g) of Body TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 2 19 W/kg                |
| SAR for nominal Body TSL parameters                   | numbalized to 1W   | 8.76 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm2 (10 g) of Body TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                                | 250 mW input power | 1.44 W/kg                |
| SAR for nominal Body TSL parameters         | romalized to 1W    | 5.76 W/kg ± 16.5 ½ (k=2) |

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## Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 53.9 Ω + 0.3 jΩ |  |  |
|--------------------------------------|-----------------|--|--|
| Return Loss                          | - 28.6 dB       |  |  |

#### Antenna Parameters with Body TSL

| Impedance, transformed to feed point | 48.6 D - 3.4 jD |  |  |
|--------------------------------------|-----------------|--|--|
| Relum Lass                           | -28.4 dB        |  |  |

#### General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.037 ns. |
|----------------------------------|-----------|
|----------------------------------|-----------|

After long term use with 100W radiated power, only a slight warming of the cipole near the feedpoint can be measured.

The cipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

| Manufactured by | SPEAG          |
|-----------------|----------------|
| Manufactured on | March 22, 2010 |

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#### DASY5 Validation Report for Head TSL

Date: 18.08.2017

Test Laboratory: SPEAG, Zurich, Switzerland

## DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1015

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz;  $\sigma = 0.9$  S/m;  $\epsilon_r = 41.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard; DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY52 Configuration:

dB

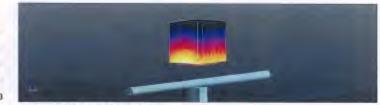
-2.00 4.00 6.00

- Probe: EX3DV4 SN7349; ConvF(10.49, 10.49, 10.49); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom; Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

## Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 58.52 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.21 W/kg

SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.35 W/kgMaximum value of SAR (measured) = 2.82 W/kg



0 dB = 2.82 W/kg = 4.50 dBW/kg

Certificate No: D750V3-1015\_Aug17

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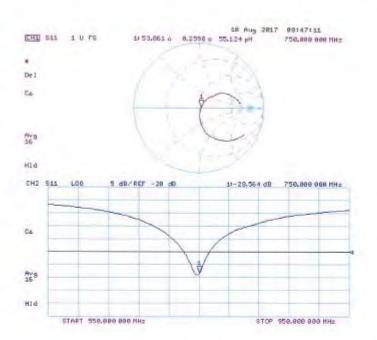
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#### Impedance Measurement Plot for Head TSL



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#### DASY5 Validation Report for Body TSL

Date: 21.08.2017

Test Laboratory: SPEAG, Zurich, Switzerland

## DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1015

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz;  $\sigma = 0.96$  S/m;  $\epsilon_r = 55.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.35, 10.35, 10.35); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 4.9 (Back); Type: QD 00R P49 AA; Serial: 1005
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

## Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 57.77 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 3,27 W/kg SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.44 W/kg

Maximum value of SAR (measured) = 2.89 W/kg



0 dB - 2.89 W/kg - 4.61 dBW/kg

Certificate No: D750V3-1015\_Aug17

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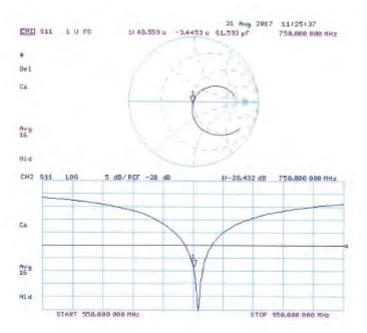
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#### Impedance Measurement Plot for Body TSL



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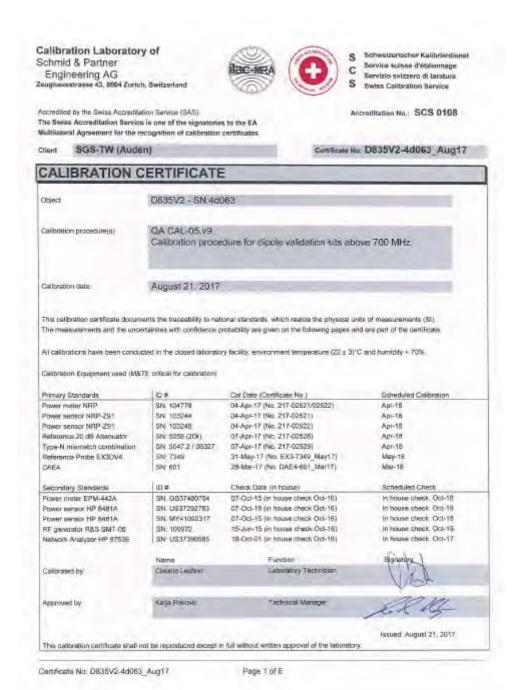
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Swiss Calibration Service Accreditation No.: SCS 0108

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Glossary:

tissue simulating liquid TSL sensitivity in TSL / NORM x,y,z ConvE N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques\*, June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Additional Documentation:

DASY4/5 System Handbook

#### Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Food Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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#### Measurement Conditions

| DASY Version                 | DASYS                  | V52.10.0    |
|------------------------------|------------------------|-------------|
| Extrapolation                | Advanced Extrapolation |             |
| Phantom                      | Modular Flat Phantom   |             |
| Distance Dipole Center - TSL | 15 mm                  | with Spacer |
| Zoom Scan Resolution         | dx, dy, d2 = 5 mm      |             |
| Frequency                    | 835 MHz ± 1 MHz        |             |

## Head TSL parameters

The following parameters and calculations were an

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters             | 22.0 °C         | 41.5         | 0.90 minolm      |
| Measured Head TSL parameters            | (22.0 ± 0.2) °C | 40.9±6%      | 0.93 mho/m ± 8 % |
| Head TSL temperature change during test | < 0.5 °C        | _            | -                |

#### SAR result with Head TSL

| SAR averaged over 1 cm3 (1 g) of Head TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR masured                               | 250 mW Input power | 2.40 W/kg                |
| SAR for nominal Head TSL parameters       | normalized to 1W   | 9.34 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 1.55 W/kg                |
| SAR for nominal Head TSL parameters                     | normalized to 1W   | 6,07 W/kg ± 16.5 % (k=2) |

## **Body TSL parameters**

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters             | 22.0 °C         | 56.2         | 0.97 mno/m       |
| Measured Body TSL parameters            | (22.0 ± 0.2) °C | 55.3±8%      | 0.98 mho/m ± 5 % |
| Body TSL temperature change during test | < 0,5 °C        |              | -                |

### SAR result with Body TSL

| SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 2.41 W/kg                |
| SAR for nominal Body TSL parameters                   | normalized to 1W   | 9.57 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL | condition          |                         |
|---|--------------------|-------------------------|
| SAR measured  | 250 mW Input power | 1.58 W/kg               |
| SAR for nominal Body TSL parameters                     | normalized to 1W   | 6.28 Wkg ± 16.5 % (k=2) |

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# Appendix (Additional assessments outside the scope of SCS 0108)

# Antenna Parameters with Head TSL

| Impedance, transformed to feed point. | 51.117-2.7 (2 |  |
|---------------------------------------|---------------|--|
| Return Loss                           | - 30.6 dB     |  |

### Antenna Parameters with Body TSL

| Impedance, transformed to feed point | 47.2 Ω - 5,2 jΩ |
|--------------------------------------|-----------------|
| Return Loss                          | -24.4 dB        |

## General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.387 ns |
|----------------------------------|----------|
|                                  |          |

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overell dipole length is still according to the Standard,

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged:

### Additional EUT Data

| Manufactured by | SPEAG             |  |
|-----------------|-------------------|--|
| Manufactured on | November 27, 2006 |  |

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### **DASY5 Validation Report for Head TSL**

Date: 18.08.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d063

Communication System: UID 0 - CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz;  $\sigma = 0.93$  S/m;  $\varepsilon_c = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANS) C63,19-2011)

# DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.07, 10.07, 10.07); Calibrated: 31.05.2017;
- · Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA: Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

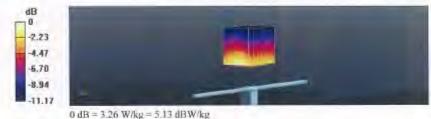
# Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cubc 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 61.74 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.71 W/kg

SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.55 W/kg

Maximum value of SAR (measured) = 3.26 W/kg.



0 dB = 3.26 W/kg = 5.13 dB W/kj

Certificate No: D835V2-4d063\_Aug17

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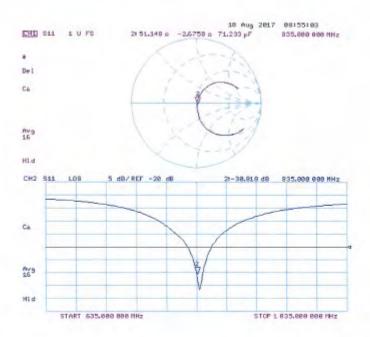
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## Impedance Measurement Plot for Head TSL



Certificate No: D835V2-4d063\_Aug17

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### DASY5 Validation Report for Body TSL

Date: 21.08.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d063

Communication System: UID 0 - CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz;  $\sigma = 0.98$  S/m;  $\epsilon_r = 55.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

### DASY52 Configuration:

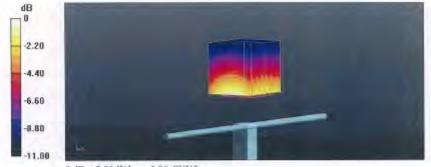
- Probe: EX3DV4 SN7349; ConvF(10.2, 10.2, 10.2); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 4.9 (Back); Type: QD 00R P49 AA; Serial: 1005
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

## Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx-5mm, dy-5mm, dz-5mm Reference Value = 59.86 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.64 W/kg

SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.58 W/kg

Maximum value of SAR (measured) = 3.20 W/kg



0 dB = 3.20 W/kg = 5.05 dBW/kg

Certificate No: D835V2-4d063\_Aug17

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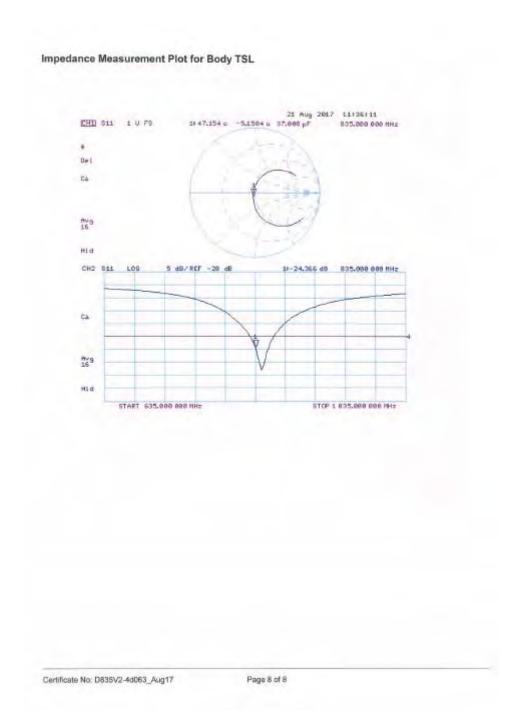
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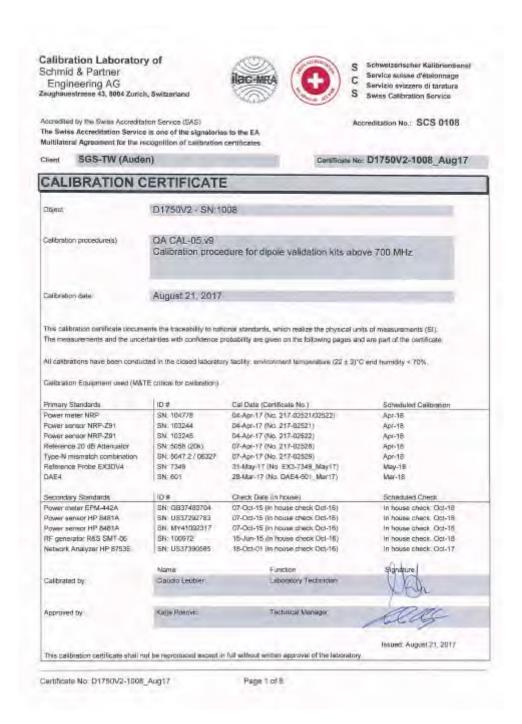
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#### Glossary:

TSL tissue simulating liquid ConvF sensitivity in TSL / NORM x,y,z not applicable or not measured

# Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques\*, June 2013
- b) IEC 62209-1, 'Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- i) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Additional Documentation:

e) DASY4/5 System Handbook

### Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement. multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No D1750V2-1008 Aug17

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

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### Measurement Conditions

| DASY Version                 | DASY5                  | V52.10.0    |
|------------------------------|------------------------|-------------|
| Extrapolation                | Advanced Extrapolation |             |
| Phantom                      | Modular Flat Phantom   |             |
| Distance Dipole Center - TSL | 10 mm                  | with Spacer |
| Zoom Scan Resolution         | dx, dy, dz = 5 mm      |             |
| Frequency                    | 1750 MHz ± 1 MHz       |             |

# Head TSL parameters

ers and calculations were applied

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters             | 22.0 °C         | 40.1         | 1.37 mbo/m       |
| Measured Head TSL parameters            | (22.0 ± 0.2) °C | 39.1 ± 6 %   | 1:35 mha/m ± 8 % |
| Head TSL temperature change during test | < 0.5 °C        | -            | -                |

#### SAR result with Head TSL

| SAR averaged over 1 cm2 (1 g) of Head TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                              | 250 mW input power | 8.98 W/kg                |
| SAR for nominal Head TSL parameters       | normalized to TW   | 36.0 Wrkg ± 17.0 % (k=2) |

| SAR averaged over 10 cm <sup>1</sup> (10 g) of Head TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW Input power | 4.75 W/kg                |
| SAR for nominal Head TSL parameters                     | normalized to 1W   | 19.0 W/kg ± 16.5 % (k=2) |

# **Body TSL parameters**

|   | Temperature     | Permittivity | Conductivity      |
|---|-----------------|--------------|-------------------|
| Nominal Body TSL parameters             | 22.0 °C         | 53.4         | 1 49 mha/m        |
| Measured Body TSL parameters            | (22.0 ± 0.2) °C | 53.9 ± 8 %   | 1.47 m/no/m ± 8 % |
| Body TSL temperature change during test | < 0.5 °C        | _            | -                 |

# SAR result with Body TSL

| SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 9.09 W/kg                |
| SAR for nominal Body TSL parameters                   | normalized to 1W   | 36.7 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 4.87 W/kg                |
| SAR for nominal Body TSL parameters                     | normalized to 1W   | 19.6 W/kg ± 16.5 % (k=2) |

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## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 49.9 12 + 0.4 ](2 |
|--------------------------------------|-------------------|
| Return Loss                          | - 46.7 dB         |

# Antenna Parameters with Body TSL

| impedance, transformed to feed point | 46.3 Ω - 1.4 jΩ |  |
|--------------------------------------|-----------------|--|
| Return Loss                          | - 27.6 dB       |  |

### General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.221 ns |
|----------------------------------|----------|
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semingid cosxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signats. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

| Manufactured by | SPEAG             |
|-----------------|-------------------|
| Manufactured on | February 11, 2009 |

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# **DASY5 Validation Report for Head TSL**

Date: 21.08.2017

Test Laboratory: SPEAG, Zurich, Switzerland

## DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN:1008

Communication System: UID 0 - CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz;  $\sigma = 1.35 \text{ S/m}$ ;  $\varepsilon_r = 39.1$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

### DASY52 Configuration:

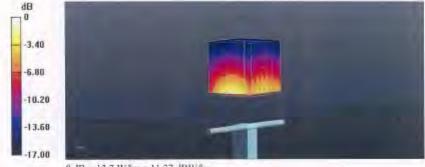
- Probe: EX3DV4 SN7349; ConvF(8.73, 8.73, 8.73); Calibrated: 31.05.2017;
- · Sensor-Surface: L4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

### Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0;

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 104.0 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 8.98 W/kg; SAR(10 g) = 4.75 W/kg

Maximum value of SAR (measured) = 13.7 W/kg



0 dB = 13.7 W/kg = 11.37 dBW/kg

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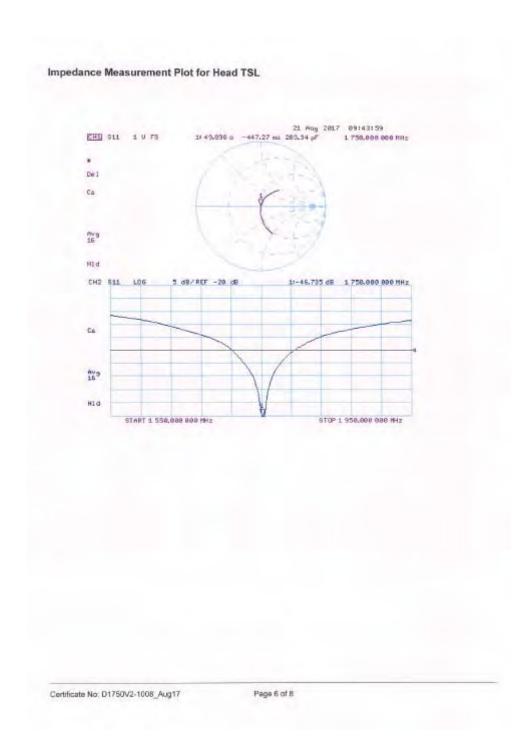
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## DASY5 Validation Report for Body TSL

Date: 18,08,2017

Test Laboratory: SPEAG, Zurich, Switzerland

# DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN:1008

Communication System: UID 0 - CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz:  $\alpha = 1.47 \text{ S/m}$ :  $\epsilon_r = 53.9$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

## DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.46, 8.46, 8.46); Calibrated: 31.05,2017;
- · Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601, Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

# Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 99.85 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 15.8 W/kg SAR(1 g) = 9.09 W/kg; SAR(10 g) = 4.87 W/kg

Maximum value of SAR (measured) = 13.3 W/kg



0 dB = 13.3 W/kg = 11.24 dBW/kg

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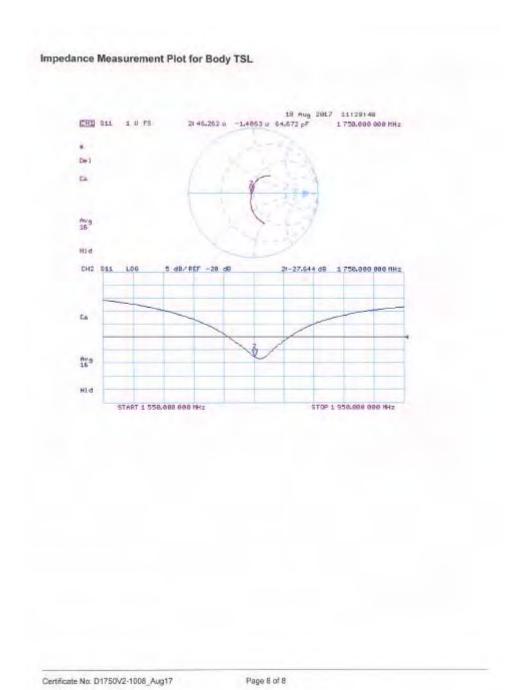
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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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SGS-TW (Auden)

offices to Dignov2-54172 April

|  | CERTIFICATE  |  |   |
|--|--|--|---|
| Object   | D1900V2 - SN:5   | d173   |   |
| Colibration procedure(s)   | QA CAL-05,v10<br>Calibration proces  | edure for dipole validation kits abo   | ove 700 MHz   |
| Calibration date:  | April 25, 2018   |  |   |
| This calibration curtilicate docum<br>The measurements and the unco  | ents the traceability to nat<br>mainties with confidence p   | ional standards, which review the physical or<br>probability are given on the following pages ar   | nts of measuraments (St),<br>and are part of the certificate.   |
|  |  | ry facility: environment temperature (ZZ ± 3)*   | C and humidity < 70%  |
| Calibration Equipment used (M&)  |  | alatinistics.  |   |
| Primary Standards Power meter NRP  | ID #<br>SN: 104776   | Cal Date (Certificate No.)   | Scheduled Calibration   |
|  |  | 04-Apr-18 (No. 217-02672/02673)  | Apr-19  |
| Commercial NGD, 704  | 4281- 400303.64  | OA Ann 10 Min 217 PORTO  | A 44 A 75   |
| Aller Seller State C   | SN: 103244   | 04-Apr-18 (No. 217-02872)  | Apr-10  |
| ower sensor NRP-Z91  | SN 103245  | 04-Apr-16 (No. 217-02673)  | Apr-19  |
| Power sensor NRP-Z91<br>Reference 20 dB Altenuator   | SN 103245<br>SN: 5058 (20k)  | 04-Apr-16 (No. 217-02573)<br>04-Apr-16 (No. 217-02582)   | Apr-19<br>Apr-19  |
| Power sensor NRP-Z91<br>Reference 20 dB Alternator<br>Type-N mismatch combination  | SN 103245  | 04-Apr-16 (No. 217-02673)  | Apr-19  |
| Power sensor NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Polerance 20 th Altenuscor Type-N measurable combinistion Reference Probe EX3DV4 DAE4   | SN: 103245<br>SN: 5068 (20k)<br>SN: 5047.2 / 06327   | 04-Apr-18 (No. 217-02573)<br>04-Apr-18 (No. 217-02582)<br>04-Apr-18 (No. 217-02583)  | Apr-19<br>Apr-19<br>Apr-19  |
| Power sensor NRP-791 Reference 20 dB Alternator Type-N missibilith combination Reference Probe EX3DV4 DAE4 Secondary Standards   | SN 103245<br>SN: 5058 (20k)<br>SN: 5057 2 / 06927<br>SN: 7349<br>SN: 601   | 04-Apr-16 (No. 217-02573)<br>04-Apr-16 (No. 217-02582)<br>04-Apr-18 (No. 217-02583)<br>30-Dac-17 (No. EXS-7349 Dec17)  | Apr-19<br>Apr-19<br>Apr-19<br>Dec-18  |
| Power sensor NRP-791 Reference 20 dB Alternator Type-N internation Combination Reference Probe EX3DV4 DAE4 Secondary Standards Power mater EPM-442A  | SN 103245<br>SN: 5068 (20k)<br>SN: 5087 2 / D6327<br>SN: 7348<br>SN: 801   | 04-Apr-16 (No. 217-02573)<br>04-Apr-18 (No. 217-02582)<br>04-Apr-18 (No. 217-02583)<br>30-Dac-17 (No. EXS-7349, Dec17)<br>28-Do:-17 (No. DAE-4-601_Oct17)<br>Check Date (In house)<br>07-02-15 (in house check Oct-16)   | Apr-19 Apr-19 Apr-19 Dec-18 Oct-18 Scheduted Check In house check, Oct-18   |
| Power sursor NRP-791 Palerance 20 dE Attenuaror Pype-N mismistich combinistion Releiennice Probe EX3IDV4 DAE4 Secondary Standerds Power mater EPM-442A Power sursor HP 8481A   | SN 103245<br>SN: 5068 (256)<br>SN: 5067 2 / 06327<br>SN: 7348<br>SN: 801<br>ID #<br>SN: GBS7480704<br>SN: USS7282763   | 04-Apr-18 (No. 217-02573) 04-Apr-18 (No. 217-02582) 04-Apr-18 (No. 217-02583) 30-Dac-17 (No. 227-02583) 30-Dac-17 (No. 205-7349, Dec17) 28-Out-17 (No. DAE-4-681_Oct17) - Check Dain (in house) 07-Out-15 (in house check Oct-16) 07-Out-15 (in house check Oct-16)      | Apr-19 Apr-19 Apr-19 Dec-18 Oct-18 Scheduled Check In house check: Oct-18 In house check: Oct-18  |
| Power sensor NRP-791 Reference 20 dB Alternator Type-N missistate combination Reference Probe EX3DV4 DAE4 Secondary Standards Power moter EPM-442A Power sensor HP 8481A Power sensor HP 8481A   | SN 103245<br>SN: 5068 (20k)<br>SN: 5087.2 / D6927<br>SN: 7348<br>SN: 601<br>JD #<br>SN: GB37480704<br>SN: US37292763<br>SN: MY41082317   | 04-Apr-18 (No. 217-02573) 04-Apr-18 (No. 217-02582) 04-Apr-18 (No. 217-02582) 30-Dac-17 (No. EXS-7349, Dec17) 28-Oct-17 (No. DAS-7349, Dec17) Check Date (In house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16)                                  | Apr-19 Apr-19 Apr-19 Dec-18 Oct-18 Scheduled Check In house check: Oct-18 In house check: Oct-18 In house check: Oct-18   |
| Power sensor NRP-Z91 Reference 20 dB Altenuator Type-N intensisten combination Reference Probe EX3DV4 DAE4 Recondery Standerds Rower meter EPM-442A Power sensor HP 8481A Regensister P88 SMT-06   | SN 103245<br>SN: 5068 (20k)<br>SN: 5087.2 / 06327<br>SN: 7348<br>SN: 801<br>JD #<br>SN: GB37480704<br>SN: LB37292783<br>SN: MY41082317<br>SN: 100972                           | 04-Apr-16 (No. 217-02673) 04-Apr-18 (No. 217-02682) 04-Apr-18 (No. 217-02683) 30-Dac-17 (No. EXS-7349, Dec17) 28-Oct-17 (No. DAE-601, Oct17) Check Dain (in house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 15-Jun-15 (in house check Oct-16) | Apr-19 Apr-19 Apr-19 Dec-18 Oct-18 Scheduted Check In house check: Oct-18 In house check: Oct-18 In house check: Oct-18 In house check: Oct-18                              |
| Power sensor NRP-Z91 Reference 20 dB Altenuator Type-N intensisten combination Reference Probe EX3DV4 DAE4 Recondery Standerds Rower meter EPM-442A Power sensor HP 8481A Regensister P88 SMT-06   | SN 103245<br>SN: 5068 (20k)<br>SN: 5087.2 / D6927<br>SN: 7348<br>SN: 601<br>JD #<br>SN: GB37480704<br>SN: US37292763<br>SN: MY41082317   | 04-Apr-18 (No. 217-02573) 04-Apr-18 (No. 217-02582) 04-Apr-18 (No. 217-02582) 30-Dac-17 (No. EXS-7349, Dec17) 28-Oct-17 (No. DAS-7349, Dec17) Check Date (In house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16)                                  | Apr-19 Apr-19 Apr-19 Dec-18 Oct-18 Scheduted Check In house check: Oct-18 In house check: Oct-18 In house check: Oct-18 In house check: Oct-18                              |
| Power sensor NRP-791 Reference 20 dB Alternator Fype-N mismasch combination Reference Probe EX3DV4 DAE4  Secondary Standards Power mater EPM-442A Power sensor HP 8481A Power sensor HP 8481A RF genetion R&S SMT-06 Notwork Analyzer HP 8783E | SN 103245<br>SN: 5068 (206)<br>SN: 5067.2 / 06927<br>SN: 7348<br>SN: 801<br>4D #<br>SN: GB37480704<br>SN: US37292783<br>SN: MY41092317<br>SN: 100972<br>SN: US37290585<br>Name | 04-Apr-18 (No. 217-02573) 04-Apr-18 (No. 217-02582) 04-Apr-18 (No. 217-02582) 05-Apr-18 (No. 217-02583) 30-Dac-17 (No. DAC-1349, Dec17) 28-Dai-17 (No. DAC-14601_Oct17)  | Apr-19 Apr-19 Apr-19 Dec-18 Oct-18 Scheduted Cneck In house check, Oct-18   |
| Power sensor NRP-791 Reference 20 dB Alternator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standents Power mater EPM-442A Power sensor HP 8481A PF generator R&S SMT-06   | SN 103245<br>SN: 5068 (206)<br>SN: 5067.2 / 06327<br>SN: 7348<br>SN: 801<br>JD #<br>SN: GBS7480704<br>SN: US37292763<br>SN: MY41082317<br>SN: 100972<br>SN: US37290565         | 04-Apr-18 (No. 217-02573) 04-Apr-18 (No. 217-02582) 04-Apr-18 (No. 217-02583) 30-Dac-17 (No. DAE-158) 28-Dat-17 (No. DAE-158)  | Apr-19 Apr-19 Apr-19 Dec-18 Oct-18 Scheduled Check In house check: Oct-18       |
| Power sensor NRP-791 Reference 20 dB Alternator Fype-N mismasch combination Reference Probe EX3DV4 DAE4  Secondary Standards Power mater EPM-442A Power sensor HP 8481A Power sensor HP 8481A RF genetion R&S SMT-06 Notwork Analyzer HP 8783E | SN 103245<br>SN: 5068 (206)<br>SN: 5067.2 / 06927<br>SN: 7348<br>SN: 801<br>4D #<br>SN: GB37480704<br>SN: US37292783<br>SN: MY41092317<br>SN: 100972<br>SN: US37290585<br>Name | 04-Apr-18 (No. 217-02573) 04-Apr-18 (No. 217-02582) 04-Apr-18 (No. 217-02582) 05-Apr-18 (No. 217-02583) 30-Dac-17 (No. DAC-1349, Dec17) 28-Dai-17 (No. DAC-14601_Oct17)  | Apr-19 Apr-19 Apr-19 Apr-19 Oct-18 Oct-18 Schedard Check In house check: Oct-18 |

Certificate No: D1900V2-5d173\_Apr16

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Calibration Laboratory of Schmid & Panner Engineering AG Zeugheusstrane 43, 8004 Zurich, Switzerland





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Glossary:

TSL ConvF N/A tissue simulating liquid

sensitivity in TSL / NORM x,y,z not applicable or not measured

Calibration is Performed According to the Following Standards:

 IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013

 b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016

c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

d) KDB 885664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Additional Documentation:

e) DASY4/5 System Handbook

# Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
  of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
  point exactly below the center marking of the flat phantom section, with the arms oriented
  parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
  positioned under the liquid filled phantom. The impedance stated is transformed from the
  measurement at the SMA connector to the feed point. The Return Loss ensures low
  reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
   No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized; SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Cumicate No D1900V2-5d173 Aprill

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### Measurement Conditions

DASY system configuration, as far as not given on page 1.

|                              | 7                      |             |
|------------------------------|------------------------|-------------|
| DASY Version                 | DASY5                  | V52:10.0    |
| Extrapolation                | Advanced Extrapolation |             |
| Phantom                      | Modular Fiat Phantom   |             |
| Distance Dipole Center - TSL | 10 mm                  | with Spacer |
| Zoom Scan Resolution         | dx, dy, dz = 5 mm      |             |
| Frequency                    | 1900 MHz ± T MHz       |             |

### Head TSL parameters

The following parameters and calculations w

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters             | 22.0 °C         | 40.0         | 1.40 mho/m       |
| Measured Head TSL parameters            | (22.0 ± 0.2) °C | 41 1 ± 8 %   | 1,35 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C        |              | -                |

## SAR result with Head TSL

| SAR averaged over 1 cm <sup>2</sup> (1 g) of Head TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 9.89 W/kg                |
| SAR for nominal Head TSL parameters                   | normalized to 1W   | 40.7 W/kg = 17.0 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL | opndition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 5.21 W/kg                |
| SAR for nominal Head TSL parameters                     | portratized to 1W. | 21.2 W/kg ± 16.5 % (k=2) |

# **Body TSL parameters**

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters             | 22.0 °C         | 53.3         | 1.52 mho/m       |
| Measured Body TSL parameters            | (22.0 ± 0.2) °C | 55.3 ± 6.%   | 1.47 mho/m ± 6 % |
| Body TSL temperature change during test | € 0.5 °C        |              |                  |

# SAR result with Body TSL

| SAR averaged over 1 cm <sup>2</sup> (1 g) of Body TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 9.93 W/kg                |
| SAR for nominal Body TSL parameters                   | mornalized to TW   | 40.9 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm² (10 g) of Body TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                                | 250 mW input power | 5.30 W/kg                |
| SAR for nominal Body TSL parameters         | normalized to 1W   | 21.6 W/kg ± 16.5 % (k=2) |

Certificate No: D1900V2-5d173\_Ajir18

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# Appendix (Additional assessments outside the scope of SCS 0108)

# Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 514 \O + 5 1 \O |  |
|--------------------------------------|-----------------|--|
| Return Loss                          | - 25,6 dB       |  |

### Antenna Parameters with Body TSL

| Impedance, transformed to feed pully | 47.341 + 7.2 (0 |  |
|--------------------------------------|-----------------|--|
| Return Loss                          | - 22 1 dB       |  |

# General Antenna Parameters and Design

| Electrical Datay (one direction) | 1.195 ns |
|----------------------------------|----------|
| -in-ind-table) fano pre-diretty  | 1,100 Mp |

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when leaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

| Manufactured by | SPEAG         |  |
|-----------------|---------------|--|
| Manufactured on | June 08, 2012 |  |

Certificate No. D1900V2-5d173\_Apr1ff

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# **DASY5 Validation Report for Head TSL**

Date: 25.04.2018

Test Laboratory: SPEAG, Zurich, Switzerland

### DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d173

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz;  $\sigma = 1.35 \text{ S/m}$ ;  $\varepsilon_c = 41.1$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

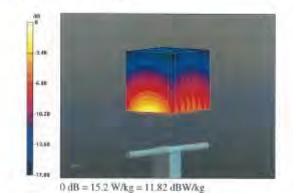
### DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.18, 8.18, 8.18); Calibrated: 30,12,2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26,10.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

# Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 110.9 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 18.3 W/kg SAR(1 g) = 9.89 W/kg; SAR(10 g) = 5.21 W/kg

Maximum value of SAR (measured) = 15.2 W/kg



Certificate No: D1900V2-5d173 April8

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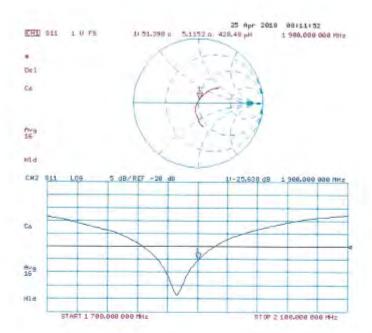
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# Impedance Measurement Plot for Head TSL



Certificate No: D1900V2-5d173\_Apr18.

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### DASY5 Validation Report for Body TSL

Date: 25.04.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d173

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz;  $\sigma = 1.47 \text{ S/m}$ ;  $\epsilon_f = 55.3$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

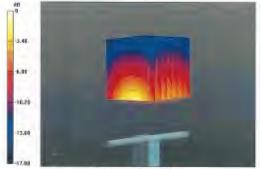
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

# DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.15, 8.15, 8.15); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52,10.0(1446); SEMCAD X 14.6.10(7417)

# Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 104.6 V/m; Power Drift = -0.09 dB Peak SAR (extrapolated) = 17.7 W/kg SAR(1 g) = 9.93 W/kg; SAR(10 g) = 5.3 W/kg Maximum value of SAR (measured) = 14.7 W/kg



0 dB = 14.7 W/kg = 11.67 dBW/kg

Certificate No: D1900V2-5d173\_Apr18

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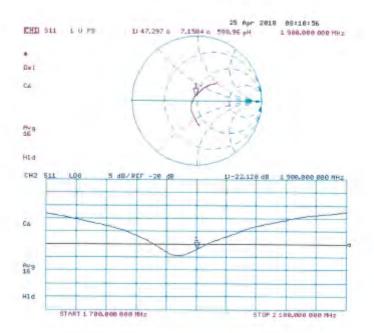
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# Impedance Measurement Plot for Body TSL



Certificate No: D1900V2-5d173\_Apr18

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Glossary:

TSL tissue simulating liquid ConvF

sensitivity in TSL / NORM x,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Additional Documentation:

e) DASY4/5 System Handbook

# Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole. positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Dertificate No. D2300V2-1023 Aug17

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### Measurement Conditions

DASY system configuration, as far as not given on page 1.

| DASY Varsion                 | DASV5                  | V52.10.0    |
|------------------------------|------------------------|-------------|
| Extrapolation                | Advanced Extrapolation |             |
| Phentom                      | Modular Flat Pharsom   |             |
| Distance Dipole Center - TSL | 10 mm                  | with Spacer |
| Zoom Scan Resolution         | ds. dy. dz = 5 mm      |             |
| Frequency                    | 2300 MHz ± 1 MHz       |             |
|                              |                        |             |

# Head TSL parameters

The following parameters and calculations were applied

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters             | 22,0 °C         | 39.5         | 1.67 mno/m       |
| Measured Head TSL parameters            | (22.0 ± 0.2) °C | 38.3 ± 6 %   | 1.70 mha/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C        | _            |                  |

#### SAR result with Head TSL

| SAR averaged over 1 cm2 (1 g) of Head TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                              | 250 mW input power | 12.0 W/kg                |
| SAR for nominal Head TSL parameters       | normalized to 1W   | 47,2 W/kg ± 17,0 % (k=2) |

| SAR averaged over 10 cm² (10 g) of Head TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                                | 250 mW input power | 5.74 W/kg                |
| SAR for nominal Head TSL parameters         | Why of besilemon   | 22.7 W/kg ± 16.5 % (k=2) |

# **Body TSL parameters**

The following parameters and calculations were applied.

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters             | 22.0 °C         | 52.9         | 1.81 mbolm       |
| Measured Body TSL parameters            | (29.0 ± 0.2) °C | 52.3±6%      | 1.86 mhs/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C        |              |                  |

# SAR result with Body TSL

| SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 11.8 W/kg                |
| SAR for nominal Body TSL parameters                   | normalized to 1W   | 45,4 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm3 (10 g) of Body TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                                | 250 mW input power | 5.68 W/kg                |
| SAR for nominal Body TSL parameters         | normalized to 1W   | 22,5 W/kg ± 16.5 % (R=2) |

Certificate No. D2306V2-1023\_Aug17

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# Appendix (Additional assessments outside the scope of SCS 0108)

# Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 48.4 Ω – 3.1 JΩ |  |
|--------------------------------------|-----------------|--|
| Return Loss                          | - 29.0 dB       |  |

### Antenna Parameters with Body TSL

| Impedance, transformed to feed point | 44.9 \O - 2.2 \O |  |
|--------------------------------------|------------------|--|
| Return Loss                          | - 24.7 dB        |  |

## General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.171 ns |
|----------------------------------|----------|
|                                  | 71111111 |

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semingid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The america is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

# Additional EUT Data

| Manufactured by | SPEAG          |
|-----------------|----------------|
| Manufactured on | March 30, 2009 |

Certificate No: D2300V2-1023\_Aug17

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### **DASY5 Validation Report for Head TSL**

Date: 17.08.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN: 1023

Communication System: UID 0 - CW; Frequency: 2300 MHz

Medium parameters used: f = 2300 MHz;  $\sigma = 1.7 \text{ S/m}$ ;  $\epsilon_t = 38.3$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantont section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY52 Configuration:

dB

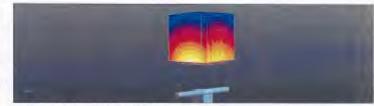
4.60 9.20 13.80

- Probe: EX3DV4 SN7349; ConvF(8.31, 8.31, 8.31); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

# Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 109.5 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 23.6 W/kg SAR(1 g) = 12 W/kg; SAR(10 g) = 5.74 W/kg

Maximum value of SAR (measured) = 18.5 W/kg



0 dB = 18.5 W/kg = 12.67 dBW/kg

Certificate No: D2300V2-1023\_Aug17

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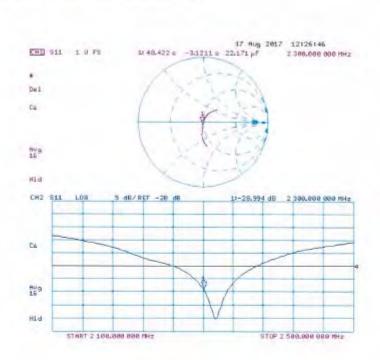
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## Impedance Measurement Plot for Head TSL



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# DASY5 Validation Report for Body TSL

Date: 17.08,2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN: 1023

Communication System: UID 0 - CW; Frequency: 2300 MHz

Medium parameters used: f = 2300 MHz;  $\sigma = 1.86 \text{ S/m}$ ;  $\epsilon_f = 52.3$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

### DASY52 Configuration;

- Probe: EX3DV4 SN7349; ConvF(8.22, 8.22, 8.22); Calibrated: 31.05.2017;
- Sensor-Surface: J.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

# Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 102.2 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 22.3 W/kg

SAR(1 g) = 11.8 W/kg; SAR(10 g) = 5.68 W/kg

Maximum value of SAR (measured) = 17.6 W/kg



Certificate No: D2300V2-1023 Aug17

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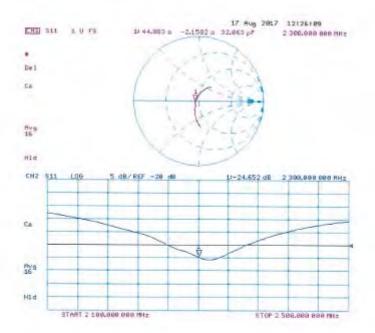
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### Impedance Measurement Plot for Body TSL



Certificate No: D2300V2-1023\_Aug17

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Calibration Laboratory of Schmid & Partner Engineering AG isstrasse 43, 8004 Zurich, Switzerland





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Accreditation No.: SCS 0108

септоме No: D2450V2-727\_Apr18

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatures to the EA Multilateral Agreement for the recognition of calibration certificates

SGS-TW (Auden)

**CALIBRATION CERTIFICATE** 

D2450V2 - SN:727 Object

OA CAL-05 v10 Calibration procedure(s)

Calibration procedure for dipole validation kits above 700 MHz

April 24, 2018 Calibration date:

This calibration certificate documents the tradiability to national standards, which realize the physical units of measurements (SI): This measurements and the uncertainties with confidence probability are given on the following pages and are part of the continues

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 37°C and humidity < 70%

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards           | ID#                | Cal Date (Certificate No.)        | Scheduled Calibration  |
|-----------------------------|--------------------|-----------------------------------|------------------------|
| Power major NRP             | SN: 104778         | 04-Apr-18 (No. 217-02672/02673)   | Apr-19                 |
| Power sensor NRP-Z91        | SN: 103244         | 04-Apr-18 (No. 217-02672)         | Apr-19                 |
| Power sensor NRP-Z91        | SN: 103245         | 04-Apr-18 (No. 217-02573)         | Apr-19                 |
| Reference 20 dB Attenuator  | SNL 5058 (20k)     | 04-Apr-18 (No. 217-02682)         | Apr-19                 |
| Type-N mismatch combination | SN: 5047.2 / 06327 | 04-Apr-18 (No. 217-02883)         | Apr-19                 |
| Reference Probe EX30V4      | SN: 7349           | 30-Dec-17 (No. EX3-7349_Dec17)    | Dac-18                 |
| DAE4                        | SNL 601            | 26-Oct-17 (No. DAE4-601_Oct17)    | Oct-18                 |
| Secondary Standards         | Tip e              | Check Date (in house)             | Scheduled Check        |
| Power meter EPM-442A        | SN: GB37450704     | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A       | SN UB37292783      | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A       | SN MY41092517      | 07-Oct 15 (in house check Oct 15) | In house check: Oct-18 |
| RF generator PAS SMT-06     | SN: 100972         | 15-Jun-15 (in house check Oct 16) | In house aheak: Oct-18 |
| Network Analyzer HP 8753E   | SN: US37390565     | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |
|                             | Name               | Function                          | Signature              |
| Calibrated by               | Jeron Kasmali      | Emboratory Technician             | 40 CH                  |
| Approved by:                | Katja Poković      | Technical Manager                 | COM                    |

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Issued: April 25, 2018



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Calibration Laboratory of

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Accreditation No.: SCS 0108

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#### Glossary:

tissue simulating liquid TSL

sensitivity in TSL / NORM x,y,z ConvF N/A not applicable or not measured

# Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques\*, June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30) MHz to 6 GHz)", March 2010.
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

# Additional Documentation:

e) DASY4/5 System Handbook

# Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated,
- Antenna Parameters with TSL: The dipole is incunted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Conflicate No: D2450V2-727\_Apr 18

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#### Measurement Conditions

DASY system configuration, as far as not given on page 1

| DASY Version                 | DASYS                  | V52.10.0    |
|------------------------------|------------------------|-------------|
| Extrapolation                | Advanced Extrapolation |             |
| Phantom                      | Modular Flat Phantom   |             |
| Distance Dipole Center - TSL | 10 mm                  | with Spacer |
| Zoom Scan Resolution         | dx, dy, dz. = 5 mm     |             |
| Frequency                    | 2450 MHz = 1 MHz       |             |
|                              |                        |             |

# Head TSL parameters

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters             | 22,0 °C         | 39.2         | 1.80 mho/m       |
| Measured Head TSL parameters            | (22.0 ± 0.2) °C | 38.3 ± 8 %   | 1.86 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C        |              |                  |

#### SAR result with Head TSL

| SAR averaged over 1 cm <sup>5</sup> (1 g) of Head TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 13,3 W/kg                |
| SAR for nominal Head TSL parameters                   | normalized to 1W   | 52.1 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 8.16 W/kg                |
| SAR for nominal Head TSL parameters                     | normalized to fW   | 24.3 W/kg ± 16.5 % (k=2) |

# **Body TSL parameters**

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters             | 22.0 °C         | 52.7         | 1.95 mno/m       |
| Measured Body TSL parameters            | (22.0 ± 0.2) °C | 52.5 ± 6 %   | 2.01 mhc/m ± 6 % |
| Body TSL temperature change during test | < 0.5.°C        | _            | -                |

# SAR result with Body TSL

| SAR sveraged over 1 cm <sup>1</sup> (1 g) of Body TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 12.9 W/kg                |
| SAR for nominal Body TSL parameters                   | normalized to 1W   | 50.8 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 6.00 W/kg                |
| SAR for nominal Body TSL parameters                     | normalized to 1W   | 23.8 W/kg ± 16.5 % (k=2) |

Certificate No: D2450V2-727\_Apr18

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# Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 55.2 Ω + 2.7 JΩ |  |
|--------------------------------------|-----------------|--|
| Return Loss                          | =25.1 dB        |  |

### Antenna Parameters with Body TSL

| Impledance, transformed to feed point | 51.2 \O + 5.8 \O |  |
|---------------------------------------|------------------|--|
| Return Loss                           | - 25.0 dB        |  |

#### General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.149 ns |
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end capsare added to the dipole arms in order to improve matching when leaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

| Manufactured by | SPEAG            |  |
|-----------------|------------------|--|
| Manufactured on | January 09, 2003 |  |

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# **DASY5 Validation Report for Head TSL**

Date: 24.04.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:727

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz;  $\sigma = 1.86 \text{ S/m}$ ;  $\epsilon_t = 38.3$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

### DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.88, 7.88, 7.88); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

# Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid; dx=5mm, dy=5mm, dz=5mm Reference Value = 116.0 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 26.7 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.16 W/kgMaximum value of SAR (measured) = 22.0 W/kg



0 dB = 22.0 W/kg = 13.42 dBW/kg

Certificate No: D2450V2-727\_April8

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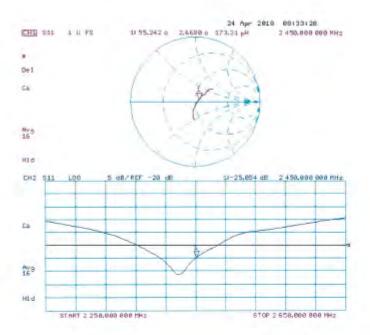
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### Impedance Measurement Plot for Head TSL



Certificate No: D2450V2-727\_Apr18

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### DASY5 Validation Report for Body TSL

Date: 24.04.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:727

Communication System: UID 0 - CW; Frequency: 2450 MHz.

Medium parameters used: f = 2450 MHz;  $\sigma = 2.01 \text{ S/m}$ ;  $\varepsilon_r = 52.5$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard; DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY52 Configuration:

-5.00

- Probe: EX3DV4 SN7349; ConvF(8.01, 8.01, 8.01); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

# Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 108.4 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 25.5 W/kg SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6 W/kg

Maximum value of SAR (measured) = 21.1 W/kg



0 dB = 21.1 W/kg = 13,24 dBW/kg

Certificate No: D2450V2-727, April 8

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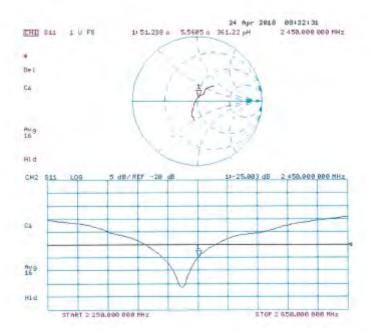
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### Impedance Measurement Plot for Body TSL



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SGS-TW (Auden)

Certificate No: D2600V2-1005\_Jan18

CALIBRATION CERTIFICATE D2600V2 - SN:1005 Object QA CAL-05.v9 Calibration procedure(s) Calibration procedure for dipole validation kits above 700 MHz January 17, 2018 Calibration date: This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the curtificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) (D.) Cal Date (Certificate No.) Primary Standards Scheduled Calibration Power meter NRP SN: 104778 04-Apr-17 (No. 217-02521/02522) Apr-18 Power sensor NRP-Z91 SN: 103244 04-Apr-17 (No. 217 02521) Apr-18 Power sensor NAP-Z91 SN: 103245 04-Apr-17 (No. 217-02522) Apr-18 Reference 20 dB Attenuator SN: 5058 (20k) 07-Apr-17 (No. 217-02528) Apr-18 Type-N mismatch combination SN: 5047.2 / 06327 07-Apr-17 [No. 217-02529] Apr-18 30-Dec-17 (No. EX3-7349 Dec17) Reference Probe EX3DV4 SN: 7349 Dec-18 DAE4 SN: 601 26-Oct-17 (No. DAE4-801 Oct17) Oct-18 10 4 Scheduled Check Secondary Standards Check Date (in house) In house check: Oct-18 Power meter EPM-442A SN: GB37480704 07-Oct-15 (in house check Oct-16) SN: US37292783 07-Oct-15 (in house check Oct-16) In house check: Oct-18 Power sensor HP 8481A SN: MY41092317 Power sensor HP 8481A 07-Oct-15 (in house check Oct-16) In house check: Oct-18 RF generator R&S SMT-06 SN: 100972 15-Jun-15 (in house check Oct-16) In house check: Oct-18 Network Analyzer HP 8753E SN: US37390585 18-Oct-01 (in house check Oct-17) In house check: Oct-18 Function Signature Joton Kastrati Calibrated by: Laboratory Technician Katia Pokovic Technical Manager Approved by: Issued: January 17, 2018 This calibration cartificate shall not be reproduced except in full without written approval of the laboratory

Certificate No: D2600V2-1005 Jan 18

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Glossary:

TSL tissue simulating liquid ConvF sensitivity in TSL / NORM x,y,z N/A not applicable or not measured

### Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques\*, June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- i) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)\*, March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Additional Documentation:

e) DASY4/5 System Handbook

#### Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%,

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### Measurement Conditions

DASY system configuration, as far as not given on page 1.

| DASY Version                 | DASY5                  | V52.10.0    |
|------------------------------|------------------------|-------------|
| Extrapolation                | Advanced Extrapolation |             |
| Phantom                      | Modular Flat Phantom   |             |
| Distance Dipole Center - TSL | 10 mm                  | with Spacer |
| Zoom Scan Resolution         | dx, dy, dz = 5 mm      |             |
| Frequency                    | 2600 MHz ± 1 MHz       |             |

#### Head TSL parameters

The following parameters and calculations were applied.

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters             | 22.0 °C         | 39.0         | 1.96 mho/m       |
| Measured Head TSL parameters            | (22.0 ± 0.2) °C | 37.2±6%      | 2.04 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C        | (****)       | ****             |

### SAR result with Head TSL

| SAR averaged over 1 cm <sup>2</sup> (1 g) of Head TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 14.6 W/kg                |
| SAR for nominal Head TSL parameters                   | normalized to 1W   | 56.8 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW Input power | 6.49 W/kg                |
| SAR for nominal Head TSL parameters                     | normalized to 1W   | 25.5 W/kg ± 16.5 % (k=2) |

### **Body TSL parameters**

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters             | 22.0 °C         | 52.5         | 2.16 mha/m       |
| Measured Body TSL parameters            | (22.0 ± 0.2) °C | 51.1±6%      | 2.20 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C        | ,-10ke;      |                  |

### SAR result with Body TSL

| SAR averaged over 1 cm3 (1 g) of Body TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                              | 250 mW input power | 13.8 W/kg                |
| SAR for nominal Body TSL parameters       | normalized to 1W   | 54.4 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 250 mW input power | 6.13 W/kg                |
| SAR for nominal Body TSL parameters                     | normalized to 1W   | 24.3 W/kg ± 16.5 % (k=2) |

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### Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 48.4 Ω - 4.7 jΩ |  |
|--------------------------------------|-----------------|--|
| Return Loss                          | - 26.0 dB       |  |

#### Antenna Parameters with Body TSL

| Impedance, transformed to feed point | 46.2 Ω - 3.0 jΩ |  |
|--------------------------------------|-----------------|--|
| Return Loss                          | - 25.9 dB       |  |

### General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.155 ns |
|----------------------------------|----------|
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

| Manufactured by | SPEAG             |  |
|-----------------|-------------------|--|
| Manufactured on | December 23, 2006 |  |

Certificate No: D2600V2-1005\_Jan18

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### DASY5 Validation Report for Head TSL

Date: 17.01.2018

Test Laboratory: SPEAG, Zurich, Switzerland

#### DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1005

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz;  $\sigma = 2.04$  S/m;  $\varepsilon_t = 37.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

### DASY52 Configuration:

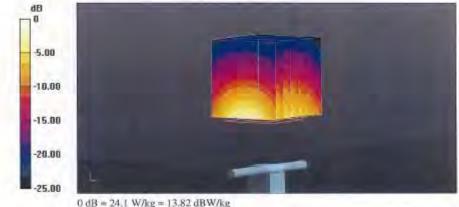
- Probe: EX3DV4 SN7349; ConvF(7.7, 7.7, 7.7); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10,2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

### Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 118.8 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 29.8 W/kg

SAR(1 g) = 14.6 W/kg; SAR(10 g) = 6.49 W/kgMaximum value of SAR (measured) = 24.1 W/kg



Certificate No: D2600V2-1005\_Jan18

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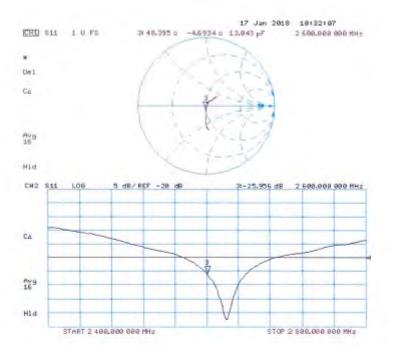
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### Impedance Measurement Plot for Head TSL



Certificate No: D2600V2-1005\_Jan18

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### DASY5 Validation Report for Body TSL

Date: 17.01.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1005

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz;  $\sigma = 2.2 \text{ S/m}$ ;  $\epsilon_r = 51.1$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

### DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(7.81, 7.81, 7.81); Calibrated: 30.12.2017;

· Sensor-Surface: 1.4mm (Mechanical Surface Detection)

· Electronics: DAE4 Sn601; Calibrated: 26.10.2017

Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002

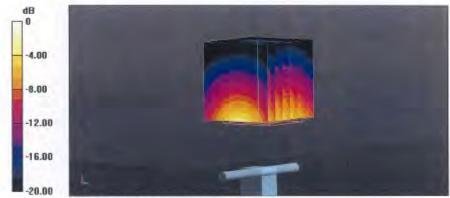
DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

### Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 108.0 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 28.6 W/kg

SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.13 W/kgMaximum value of SAR (measured) = 22.6 W/kg



0 dB = 22.6 W/kg = 13.54 dBW/kg

Certificate No: D2600V2-1005\_Jan18

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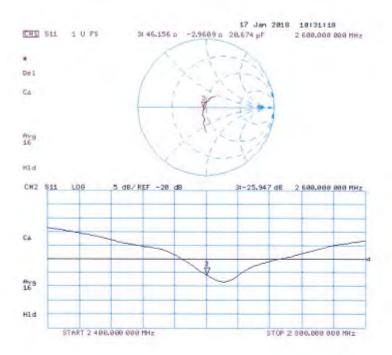
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### Impedance Measurement Plot for Body TSL



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SGS-TW (Auden)

Certificate No: D5GHzV2-1023\_Jan18

| Dejid  | D5GHzV2 - SN:1   | 023   |   |
|--|--|---|---|
| Celibration procedure(s)   | QA CAL-22.v2<br>Calibration proce  | dure for dipole validation kits betw  | ween 3-6 GHz  |
| Calibration date:  | January 25, 2018   |   |   |
| The measurements and the unce<br>All calibrations have been conduc   | itainlies with confidence p  | onal standards, which realize the physical uninobability are given on the following pieges an<br>ry facility, sowitoniment temperatura (22 $\pm$ 3)%  | d are part of the certificate.  |
| Calibration Equipment used (M&) Primery Standards  | ID #   | Call Date (Certificate No.)   | Scheduled Calibration   |
| Power mater NRP  | EN: 104779   | 04-Apr-17 (No. 217-02521/02522)   | Apr-18  |
| Power sensor NRP-Z91   | SN: 103244   | 04-Apr-17 (No. 217-02521)   | Apr-18  |
| Power sensor NRP-Z91   | SN: 103245   | 04-Apr-17 (No. 217-02522)   | Apr-18  |
|  |  |   |   |
| Reference 20 dB Attenuator   | SN: 5058 (20k)   | 07-Apr 17 (No. 217-02528)   | Apr-18  |
| Carrier and a contract and   | SN: 5058 (20k)<br>SN: 5047.2 / 06327   | 07-Apr-17 (No. 217-02528)<br>07-Apr-17 (No. 217-02529)  | Apr-18<br>Apr-18  |
| Reference 20 dB Alternator<br>Type-N mismatch combination  | The second secon |   |   |
| Reference 20 dB Attenuator   | SN: 5047.2 / 06327   | 07-Apr-17 (No. 217-02529)   | Apr-18  |
| Reference 20 dB Alternator<br>Type-N mismatch combination<br>Reference Probe EX3DV4  | SN: 5047.2 / 06327<br>SN: 3503   | 07-Apr-17 (No. 217-02529)<br>30-Dec-17 (No. EX3-3503_Dec17)   | Api-18<br>Dec-18  |
| Reference 20 dB Attenuator<br>Type-N mismatch combination<br>Reference Probe EX3DV4<br>DAE4  | SN: 5047.2 / 06327<br>SN: 3503<br>SN: 601  | 07-Apr-17 (No. 217-02529)<br>30-Dec-17 (No. EX3-3503_Dec17)<br>26-Oct-17 (No. DAE4-601_Oct17)   | Api-16 Dec-18 Oct-18 Scheduled Oheck In house check: Oct-18   |
| Reterance 20 dB Attenuator<br>Type-N mismatch combination<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Power meter EPM-442A   | SN: 5047.2 / 06327<br>SN: 3503<br>SN: 601  | 07-Apr-17 (No. 217-02829)<br>30-Dec-17 (No. EX3-3503_Dec17)<br>26-Oct-17 (No. DAE4-601_Oct17)<br>Check Date (in house)  | Api-18 Dec-18 Oct-18 Scheduled Check In house check: Oct-18 In house check: Oct-18  |
| Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power motor EPM-442A Power sensor HP 8481A Power sensor HP 8481A                          | SN: 5047.2 / 06327<br>SN: 3903<br>SN: 601<br>ID #<br>SN: G837460704<br>SN: US37282783<br>SN: MY41092317  | 07-Apr-17 (No. 217-02529) 30-Dec-17 (No. EX3-3503_Dec17) 26-Oct-17 (No. DAE4-601_Oct17)  Check Date (in house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16)  | Api-18 Dec-18 Oct-18 Scheduled Check In house check: Oct-18 In house check: Oct-18 In house check: Oct-18   |
| Potentino 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power moter EPM-442A Power sensor HP 8481A Proper sensor HP 8461A AF generator R&S SMT-66 | SN: 5047.2 / 06327<br>SN: 3903<br>SN: 601<br>ID #<br>SN: GB37460704<br>SN: US37282783<br>SN: MY41092317<br>SN: 100672  | 07-Apr-17 (No. 217-02529) 30-Dec-17 (No. EX3-3503_Dec17) 26-Oct-17 (No. DAE4-801_Oct17)  Check Date (in house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 15-Jun-15 (in house check Oct-16)                                  | Apr-16 Dec-18 Oct-18 Scheduled Offeck In house check: Oct-18 In house check: Oct-18 In house check: Oct-18 In house check: Oct-18                       |
| Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A PF generator R&S SMT-66                        | SN: 5047.2 / 06327<br>SN: 3903<br>SN: 601<br>ID #<br>SN: G837460704<br>SN: US37282783<br>SN: MY41092317  | 07-Apr-17 (No. 217-02529) 30-Dec-17 (No. EX3-3503_Dec17) 26-Oct-17 (No. DAE4-601_Oct17)  Check Date (in house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16)  | Api-18 Dec-18 Oct-18 Scheduled Check In house check: Oct-18 In house check: Oct-18 In house check: Oct-18   |
| Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A PF generator R&S SMT-66                        | SN: 5047.2 / 06327<br>SN: 3903<br>SN: 601<br>ID #<br>SN: GB37460704<br>SN: US37282783<br>SN: MY41092317<br>SN: 100672  | 07-Apr-17 (No. 217-02529) 30-Dec-17 (No. EX3-3503_Dec17) 26-Oct-17 (No. DAE4-801_Oct17)  Check Date (in house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 15-Jun-15 (in house check Oct-16)                                  | Apr-16 Dec-18 Oct-18 Scheduled Offeck In house check: Oct-18 In house check: Oct-18 In house check: Oct-18 In house check: Oct-18                       |
| Reference 20 dB Attenuator<br>Type-N mismatch combination<br>Reference Probe EX3DV4<br>DAE4<br>Secondary Standards<br>Power motor EPM-442A<br>Power motor EPM-442A                               | SN: 5047.2 / 06327<br>SN: 5005<br>SN: 601<br>ID #<br>SN: GB37460704<br>SN: US37282783<br>SN: MY41092317<br>SN: 906972<br>SN: US37360686  | 07-Apr-17 (No. 217-02829) 30-Dec-17 (No. EX3-3503_Dec17) 26-Oct-17 (No. DAE4-801_Oct17) Check Date (in house) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 07-Oct-15 (in house check Oct-16) 15-Jun-15 (in house check Oct-16) 18-Oct-01 (in house check Oct-17) | Api-16 Dec-18 Oct-18 Scheduled Check In house check: Oct-18 |

Certificate No: D5GHzV2-1023 Jan18

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Accreditation No.: SCS 0108

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Glossary:

TSL tissue simulating liquid ConvF sensitivity in TSL / NORM x.y.z. not applicable or not measured N/A

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless. Communications Devices: Measurement Techniques", June 2013.
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- i) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Additional Documentation:

e) DASY4/5 System Handbook

### Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna. connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%

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### Measurement Conditions

DASY system configuration, as far as not given on page 1

| DASY Version                 | DASY5  | V52,10.0                         |
|------------------------------|--|----------------------------------|
| Extrapolation                | Advanced Extrapolation   |                                  |
| Phantom                      | Modular Flat Phantom V5.0  |                                  |
| Distance Dipole Center - TSL | 10 mm  | with Spacer                      |
| Zoom Scan Resolution         | dx, dy = 4.0  mm, dz = 1.4  mm   | Graded Ratio = 1.4 (Z direction) |
| Frequency                    | 5200 MHz ± 1 MHz<br>5300 MHz ± 1 MHz<br>5600 MHz ± 1 MHz<br>5800 MHz ± 1 MHz |                                  |

#### Head TSL parameters at 5200 MHz

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters             | 22,0 °C         | 36.0         | 4.66 mho/m       |
| Measured Head TSL parameters            | (22.0 ± 0.2) °C | 36.3 ± 6 %   | 4.50 mha/m ± 8 % |
| Head TSL temperature change during test | €0.5 °C         | per-         | (1997)           |

### SAR result with Head TSL at 5200 MHz

| SAR averaged over 1 cm2 (1 g) of Head TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                              | 100 mW input power | 7:72 W/kg                |
| SAR for nominal Head TSL parameters       | normalized to 1W   | 77.3 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 100 mW input power | 2.22 W/kg                |
| SAR for nominal Head TSL parameters                     | normalized to 1W   | 22.2 W/kg ± 19.5 % (k=2) |

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#### Head TSL parameters at 5300 MHz

The following parameters and calculations were applied.

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters             | 22.0 °C         | 35.9         | 4.76 mho/m       |
| Measured Head TSL parameters            | (22.0 ± 0.2) °C | 35.2 ± 6 %   | 4.60 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C        | -            | -                |

#### SAR result with Head TSL at 5300 MHz

| SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL | Condition          |                            |
|---|--------------------|----------------------------|
| SAR measured  | 100 mW input power | 8.09 W/kg                  |
| SAR for nominal Head TSL parameters                   | normalized to 1W   | 80.9 W / kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm3 (10 g) of Head TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                                | 100 mW input power | 2.32 W/kg                |
| SAR for nominal Head TSL parameters         | normalized to 1W   | 23.2 W/kg ± 19.5 % (k=2) |

### Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters             | 22,0 ℃          | 35.5         | 5.07 mho/m       |
| Measured Head TSL parameters            | (22.0 ± 0.2) °C | 35.8 ± 6 %   | 4.90 mha/m ± 6 % |
| Head TSL temperature change during test | < 0.5°C         | -            | +                |

### SAR result with Head TSL at 5600 MHz

| SAR averaged over 1 cm3 (1 g) of Head TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                              | 100 mW input power | B.19 W/kg                |
| SAR for nominal Head TSL parameters       | normalized to 1W   | 81.9 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm <sup>2</sup> (10 g) of Head TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 100 mW input power | 2.34 W/kg                |
| SAR for nominal Head TSL parameters                     | normalized to 1W   | 23.4 W/kg ± 19.5 % (k=2) |

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### Head TSL parameters at 5800 MHz

no parameters and calculations were applied.

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters             | 22.0 °C         | 35.3         | 5.27 mho/m       |
| Measured Head TSL parameters            | (22.0 ± 0.2) °C | 35.5 ± 6 %   | 5.11 mho/m ± 8 % |
| Head TSL temperature change during test | < 0.5 °C        | tank.        | -                |

#### SAR result with Head TSL at 5800 MHz

| SAR averaged over 1 cm2 (1 g) of Head TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                              | 100 mW Input power | 7.90 W/kg                |
| SAR for nominal Head TSL parameters       | normalized to 1W   | 79.0 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm3 (10 g) of Head TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                                | 100 mW input power | 2,25 W/kg                |
| SAR for nominal Head TSL parameters         | nomalized to 1W    | 22.5 W/kg ± 19.5 % (k=2) |

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### Body TSL parameters at 5200 MHz

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters             | 22.0 °C         | 49.0         | 5.30 mho/m       |
| Measured Body TSL parameters            | (22.0 ± 0.2) °C | 47.3±6%      | 5,41 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C        |              | _                |

### SAR result with Body TSL at 5200 MHz

| SAR averaged over 1 cm3 (1 g) of Body TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                              | 100 mW input power | 7.14 W/kg                |
| SAR for nominal Body TSL parameters       | normalized to 1W   | 70.5 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm² (10 g) of Body TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                                | 100 mW input power | 2.08 W/kg                |
| SAR for nominal Body TSL parameters         | normalized to fW   | 19.8 W/kg ± 19.5 % (k=2) |

### Body TSL parameters at 5300 MHz

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters             | 22.0 °C         | 48.9         | 5.42 mho/m       |
| Measured Body TSL parameters            | (22.0 ± 0.2) °C | 47 1 ± 6 %   | 5.54 mho/m = 6 % |
| Body TSL temperature change during test | < 0,5 °C        | -            | 0-0              |

### SAR result with Body TSL at 5300 MHz

| SAR averaged over 1 cm3 (1 g) of Body TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                              | 100 mW Input power | 7.34 W/kg                |
| SAR for nominal Body TSL parameters       | normalized to 1W   | 72.9 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 100 mW input power | 2.06 W/kg                |
| SAR for nominal Body TSL parameters                     | normalized to 1W   | 20.4 W/kg ± 19.5 % (k=2) |

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### Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters             | 22.0 °C         | 48.5         | 5.77 mho/m       |
| Measured Body TSL parameters            | (22.0 ± 0.2) °C | 46.6 ± 6 %   | 5.94 mha/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C        | -re-         | -                |

### SAR result with Body TSL at 5600 MHz

| SAR averaged over 1 cm3 (1 g) of Body TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                              | 100 mW input power | 7.81 W/kg                |
| SAR for nominal Body TSL parameters       | normalized to 1W   | 77.6 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured  | 100 mW input power | 2.19 W/kg                |
| SAFI for nominal Body TSL parameters                    | normalized to 1W   | 21.7 W/kg ± 19.5 % (k=2) |

### Body TSL parameters at 5800 MHz

|   | Temperature     | Permittivity | Conductivity     |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters             | 22.0 °C         | 48.2         | 6.00 mholm       |
| Measured Body TSL parameters            | (22.0 ± 0.2) °C | 48.2 ± 6 %   | 6.22 mha/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C        | _            |                  |

### SAR result with Body TSL at 5800 MHz

| SAR averaged over 1 cm3 (1 g) of Body TSL | Condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                              | 100 mW input power | 7.46 W/kg                |
| SAR for nominal Body TSL parameters       | normalized to 1W   | 74.1 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm2 (10 g) of Body TSL | condition          |                          |
|---|--------------------|--------------------------|
| SAR measured                                | 100 mW input power | 2.07 W/kg                |
| SAR for nominal Body TSL parameters         | normalized to 1W   | 20.5 W/kg ± 19.5 % (k=2) |

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# Appendix (Additional assessments outside the scope of SCS 0108)

# Antenna Parameters with Head TSL at 5200 MHz

| Impedance, transformed to feed point | 50.1 Ω - 8.1 jΩ |
|--------------------------------------|-----------------|
| Return Loss                          | - 21.9 dB       |

### Antenna Parameters with Head TSL at 5300 MHz

| Impedance, transformed to feed point | 50.5 Ω - 2.3 βΩ |
|--------------------------------------|-----------------|
| Return Loss                          | - 32.7 dB       |

### Antenna Parameters with Head TSL at 5600 MHz

| Impedance, transformed to feed point | 53.9 Ω - 0.7  Ω |
|--------------------------------------|-----------------|
| Return Loss                          | - 28.4 dB       |

### Antenna Parameters with Head TSL at 5800 MHz

| Impedance, transformed to feed point | 55.3 Ω + 2.6 jΩ |
|--------------------------------------|-----------------|
| Heturn Loss                          | - 25.1 dB       |

# Antenna Parameters with Body TSL at 5200 MHz

| Impedance, transformed to feed point | 49.8 Ω - 6.9 jΩ. |  |
|--------------------------------------|------------------|--|
| Return Loss                          | - 23.2 dB        |  |

### Antenna Parameters with Body TSL at 5300 MHz

| Impedance, transformed to leed point | 50.9 Ω - 0.9 jΩ |  |
|--------------------------------------|-----------------|--|
| Return Loss                          | - 37.9 dB       |  |

# Antenna Parameters with Body TSL at 5600 MHz

| Impedance, transformed to feed point | 56.0 Ω + 0.5 JΩ |
|--------------------------------------|-----------------|
| Return Loss                          | ~ 24.9 dB       |

# Antenna Parameters with Body TSL at 5800 MHz

| Impedance, transformed to feed point | 56.6 Ω + 2.3  Ω |  |
|--------------------------------------|-----------------|--|
| Return Loss                          | - 23.7 dB       |  |

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### General Antenna Parameters and Design

| 1:199 ns |          |
|----------|----------|
|          | 1.199 ns |

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard,

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

| Manufactured by | SPEAG             |  |
|-----------------|-------------------|--|
| Manufactured on | February 05, 2004 |  |

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### **DASY5 Validation Report for Head TSL**

Date: 25.01.2018

Test Laboratory; SPEAG, Zurich, Switzerland

# DUT: Dipole D5GHzV2; Type; D5GHzV2; Serial: D5GHzV2 - SN:1023

Communication System: UID 0 - CW/ Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz Medium parameters used: f = 5200 MHz;  $\sigma = 4.5 \text{ S/m}$ ;  $\varepsilon_c = 36.3$ ;  $\rho = 1000 \text{ kg/m}^3$ . Medium parameters used: f = 5300 MHz;  $\sigma = 4.6 \text{ S/m}$ ;  $\epsilon_c = 36.2$ ;  $\rho = 1000 \text{ kg/m}^3$ .

Medium parameters used: f = 5600 MHz;  $\sigma = 4.9$  S/m;  $\epsilon_r = 35.8$ ;  $\rho = 1000$  kg/m<sup>2</sup> Medium parameters used: f = 5800 MHz;  $\sigma = 5.11 \text{ S/m}$ ;  $\epsilon_r = 35.5$ ;  $\rho = 1000 \text{ kg/m}^2$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.75, 5.75, 5.75); Calibrated: 30.12,2017. ConvF(5.5, 5.5, 5.5); Calibrated: 30.12.2017, ConvF(5.05, 5.05, 5.05); Calibrated: 30.12.2017. ConvF(4.96, 4,96, 4,96); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (front): Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan, dist=1.4mm

(8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.47 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 27.5 W/kg

SAR(1 g) = 7.72 W/kg; SAR(10 g) = 2.22 W/kg

Maximum value of SAR (measured) = 17.7 W/kg.

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm

(8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm\_dz=1.4mm

Reference Value = 74.63 V/m; Power Drift = 40.06 dB

Peak SAR (extrapolated) = 29.6 W/kg

SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.32 W/kg

Maximum value of SAR (measured) = 18.6 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, I=5600 MHz/Zoom Scan, dist=1.4mm

(8x8x7)/Cube 0: Measurement grid; dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.79 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 31,5 W/kg

SAR(1 g) = 8.19 W/kg; SAR(10 g) = 2.34 W/kg

Maximum value of SAR (measured) = 19.6 W/kg

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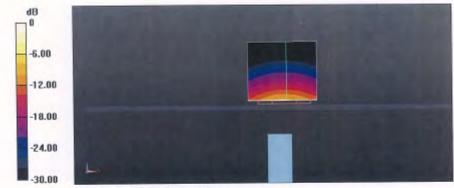
# Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm

(8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 69.22 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 31.2 W/kg

SAR(1 g) = 7.9 W/kg; SAR(10 g) = 2.25 W/kg Maximum value of SAR (measured) = 19.0 W/kg



0 dB = 17.7 W/kg = 12.48 dBW/kg

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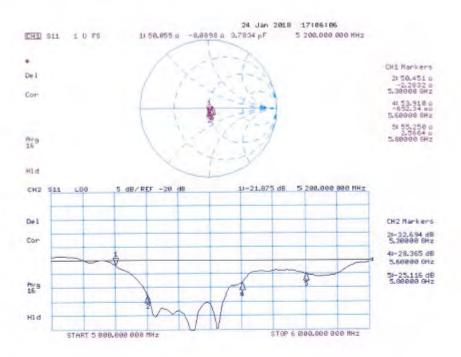
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### Impedance Measurement Plot for Head TSL



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### **DASY5 Validation Report for Body TSL**

Date: 23.01.2018

Test Laboratory: SPEAG, Zurich, Switzerland

### DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1023

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz

Medium parameters used: f = 5200 MHz;  $\sigma = 5.41 \text{ S/m}$ ;  $\epsilon_c = 47.3$ ;  $\rho = 1000 \text{ kg/m}^3$ .

Medium parameters used: f = 5300 MHz;  $\sigma = 5.54$  S/m;  $\varepsilon_r = 47.1$ ; p = 1000 kg/m<sup>2</sup>

Medium parameters used: f = 5600 MHz;  $\sigma = 5.94$  S/m;  $\varepsilon_r = 46.6$ ;  $\rho = 1000$  kg/m<sup>2</sup>.

Medium parameters used: f = 5800 MHz;  $\sigma = 6.22 \text{ S/m}$ ;  $\epsilon_r = 46.2$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5,35, 5,35, 5,35); Calibrated: 30.12.2017. ConvF(5.15, 5.15, 5.15); Calibrated: 30.12.2017, ConvF(4.65, 4.65, 4.65); Calibrated: 30.12.2017, ConvF(4.53, 4.53, 4.53); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAPA Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52,10.0(1446); SEMCAD X 14.6.10(7417)

# Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan, dist=1.4mm

(8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.00 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 26.4 W/kg

SAR(1 g) = 7.14 W/kg; SAR(10 g) = 2 W/kg

Maximum value of SAR (measured) = 16.8 W/kg

# Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm

(8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1,4mm

Reference Value = 65.19 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 28.4 W/kg

SAR(1g) - 7.34 W/kg; SAR(10g) = 2.06 W/kg

Maximum value of SAR (measured) = 17.6 W/kg

# Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm

(8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.21 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 32.8 W/kg

SAR(1 g) = 7.81 W/kg; SAR(10 g) = 2.19 W/kg

Maximum value of SAR (measured) = 19.1 W/kg

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Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm

(8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 64.05 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 32.3 W/kg

SAR(1 g) = 7.46 W/kg; SAR(10 g) = 2.07 W/kg

Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 12.74 dBW/kg

Certificate No: D5GHzV2-1023\_Jan18

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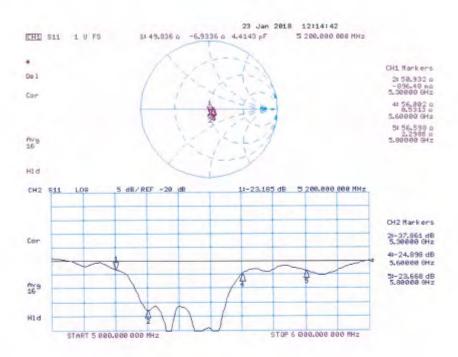
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### Impedance Measurement Plot for Body TSL



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# - End of report -

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