

FCC Test Report

(Spot Check: ENDC: n66+Band 5/12/13/30/48/71)

Report No.: RF200109E02E-13

FCC ID: 2AQ68T99W175M

Original FCC ID: 2AQ68T99W175

Test Model: T99W175M

Received Date: May 29, 2020

Test Date: Jul. 03 ~ Aug. 11, 2020

Issued Date: Aug. 11, 2020

Applicant: Hon Lin Technology Co., Ltd.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

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FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

| Issue No. | Description | Date Issued |
|-----------------|------------------|---------------|
| RF200109E02E-13 | Original release | Aug. 11, 2020 |

1 Certificate of Conformity

Product: 5G WWAN Module

Brand: Foxconn

Test Model: T99W175M

Sample Status: Engineering Sample

Applicant: Hon Lin Technology Co., Ltd.

Test Date: Jul. 03 ~ Aug. 11, 2020

Standards: FCC Part 22
FCC Part 27, Subpart H, L, M
FCC Part 96

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Pettie Chen , **Date:** Aug. 11, 2020
Pettie Chen / Senior Specialist

Approved by : Bruce Chen , **Date:** Aug. 11, 2020
Bruce Chen / Senior Project Engineer

2 Summary of Test Results

| Applied Standard: FCC Part 22 & Part 2 | | | |
|--|--------------------------|--------|--------------------------------|
| FCC Clause | Test Item | Result | Remarks |
| 2.1046 22.913 (a) | Effective radiated power | Pass | Meet the requirement of limit. |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

| Applied Standard: FCC Part 27 & Part 2 | | | | | | |
|--|------------------------|---------------------------|---------------------------|---|--------|---|
| FCC Clause | | | | Test Item | Result | Remarks |
| LTE B12/ LTE B71 | LTE B13 | LTE B30 | n66 | | | |
| 2.1046 27.50 (c) | 2.1046 27.50 (b) | 2.1046 27.50 (a)(3) | 2.1046 27.50 (d)(4) | Equivalent Isotropically Radiated Power / Equivalent Radiated Power | Pass | Meet the requirement of limit. |
| 2.1053 27.53(g) | 2.1053 27.53(c)(f) | 2.1053 27.53 (a)(4) | 2.1053 27.53(h) | Radiated Spurious Emissions | Pass | Meet the requirement of limit. Minimum passing margin is -30.9dB at 91.86MHz. |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

| 47 CFR FCC Part 96 | | | |
|--------------------|---------------------------|--------|--------------------------------|
| FCC Clause | Test Item | Result | Remarks |
| 2.1046 96.41(b) | Maximum Peak Output Power | Pass | Meet the requirement of limit. |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement | Frequency | Expanded Uncertainty (k=2) (±) |
|--------------------------------|------------------|-----------------------------------|
| Radiated Emissions up to 1 GHz | 9kHz ~ 30MHz | 3.04 dB |
| | 30MHz ~ 200MHz | 3.63 dB |
| | 200MHz ~ 1000MHz | 3.64 dB |
| Radiated Emissions above 1 GHz | 1GHz ~ 18GHz | 2.29 dB |
| | 18GHz ~ 40GHz | 2.29 dB |

2.2 Test Site and Instruments

| Description & Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|--|--|---------------------------------|---------------|---------------|
| Test Receiver KEYSIGHT | N9038A | MY55420137 | Apr. 16, 2020 | Apr. 15, 2021 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSP40 | 100039 | Jun. 12, 2020 | Jun. 11, 2021 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-160 | Nov. 07, 2019 | Nov. 06, 2020 |
| HORN Antenna SCHWARZBECK | BBHA 9120 D | 9120D-1169 | Nov. 24, 2019 | Nov. 23, 2020 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | BBHA9170241 | Nov. 24, 2019 | Nov. 23, 2020 |
| Preamplifier Agilent (Below 1GHz) | 8447D | 2944A10638 | Jun. 08, 2020 | Jun. 07, 2021 |
| Preamplifier Agilent (Above 1GHz) | 8449B | 3008A02367 | Feb. 18, 2020 | Feb. 17, 2021 |
| RF signal cable HUBER+SUHNER&EMCI | SUCOFLEX 104 & EMC104-SM-SM80 00 | CABLE-CH9-02 (248780+171006) | Jan. 18, 2020 | Jan. 17, 2021 |
| RF signal cable HUBER+SUHNER | SUCOFLEX 104 | CABLE-CH9-(250795/4) | Jan. 18, 2020 | Jan. 17, 2021 |
| RF signal cable Woken | 8D-FB | Cable-CH9-01 | Jun. 08, 2020 | Jun. 07, 2021 |
| Software BV ADT | ADT_Radiated_ V7.6.15.9.5 | NA | NA | NA |
| Antenna Tower EMCO | 2070/2080 | 512.835.4684 | NA | NA |
| Turn Table EMCO | 2087-2.03 | NA | NA | NA |
| Antenna Tower & Turn BV ADT | AT100 | AT93021705 | NA | NA |
| Turn Table BV ADT | TT100 | TT93021705 | NA | NA |
| Turn Table Controller BV ADT | SC100 | SC93021705 | NA | NA |
| Boresight Antenna Fixture | FBA-01 | FBA-SIP01 | NA | NA |
| WIT Standard Temperature And Humidity Chamber | TH-4S-C | W981030 | Jun. 01, 2020 | May 31, 2021 |
| JFW 20dB attenuation | 50HF-020-SMA | NA | NA | NA |
| True RMS Clamp Meter Fluke | 325 | 31130711WS | Jun. 06, 2020 | Jun. 05, 2021 |
| DC power supply | U8002A | MY56330015 | NA | NA |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 9.

3 General Information

3.1 General Description of EUT

| | |
|---------------------|---|
| Product | 5G WWAN Module |
| Brand | Foxconn |
| Test Model | T99W175M |
| Sample Status | Engineering Sample |
| Power Supply Rating | 5 Vdc (Host equipment) 3.135Vdc~3.63Vdc (Module) |

n66

| | | | | | | |
|---------------------|--|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Modulation Type | $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM | | | | | |
| Waveform Type | CP-OFDM, DFT-s-OFDM | | | | | |
| Operating Frequency | n66 (Channel Bandwidth 5MHz) | 1712.5MHz ~ 1777.5MHz | | | | |
| | n66 (Channel Bandwidth 10MHz) | 1715.0MHz ~ 1775.0MHz | | | | |
| | n66 (Channel Bandwidth 15MHz) | 1717.5MHz ~ 1772.5MHz | | | | |
| | n66 (Channel Bandwidth 20MHz) | 1720.0MHz ~ 1770.0MHz | | | | |
| Max. EIRP Power | | $\pi/2$ BPSK | QPSK | 16QAM | 64QAM | 256QAM |
| | n66 (Channel Bandwidth 5MHz) | 532.108mW (27.26dBm) | 508.159mW (27.06dBm) | 512.861mW (27.10dBm) | 468.813mW (26.71dBm) | 258.226mW (24.12dBm) |
| | n66 (Channel Bandwidth 10MHz) | 538.270mW (27.31dBm) | 522.396mW (27.18dBm) | 516.416mW (27.13dBm) | 481.948mW (26.83dBm) | 275.423mW (24.40dBm) |
| | n66 (Channel Bandwidth 15MHz) | 562.341mW (27.50dBm) | 515.229mW (27.12dBm) | 515.229mW (27.12dBm) | 485.289mW (26.86dBm) | 266.686mW (24.26dBm) |
| | n66 (Channel Bandwidth 20MHz) | 540.754mW (27.33dBm) | 506.991mW (27.05dBm) | 502.343mW (27.01dBm) | 472.063mW (26.74dBm) | 271.644mW (24.34dBm) |
| Emission Designator | | $\pi/2$ BPSK | QPSK | 16QAM | 64QAM | 256QAM |
| | n66 (Channel Bandwidth 5MHz) | 4M47G7D | 4M49G7D | 4M49D7W | 4M49D7W | 4M47D7W |
| | n66 (Channel Bandwidth 10MHz) | 9M13G7D | 8M96G7D | 8M96D7W | 8M96D7W | 9M28D7W |
| | n66 (Channel Bandwidth 15MHz) | 13M9G7D | 13M5G7D | 13M5D7W | 13M5D7W | 13M9D7W |
| | n66 (Channel Bandwidth 20MHz) | 18M6G7D | 18M0G7D | 18M0D7W | 18M0D7W | 18M6D7W |

LTE Band

| Modulation Type | QPSK, 16QAM, 64QAM, 256QAM | | | |
|---------------------|----------------------------|----------------------------|----------------------------|--|
| Operating Frequency | LTE Band 5 | Channel Bandwidth 1.4MHz | 824.7MHz ~ 848.3MHz | |
| | | Channel Bandwidth 3MHz | 825.5MHz ~ 847.5MHz | |
| | | Channel Bandwidth 5MHz | 826.5MHz ~ 846.5MHz | |
| | | Channel Bandwidth 10MHz | 829.0MHz ~ 844.0MHz | |
| | LTE Band 12 | Channel Bandwidth 1.4MHz | 699.7MHz ~ 715.3MHz | |
| | | Channel Bandwidth 3MHz | 700.5MHz ~ 714.5MHz | |
| | | Channel Bandwidth 5MHz | 701.5MHz ~ 713.5MHz | |
| | | Channel Bandwidth 10MHz | 704.0MHz ~ 711.0MHz | |
| | LTE Band 13 | Channel Bandwidth 5MHz | 779.5MHz ~ 784.5MHz | |
| | | Channel Bandwidth 10MHz | 782.0MHz | |
| | LTE Band 30 | Channel Bandwidth 5MHz | 2307.5MHz ~ 2312.5MHz | |
| | | Channel Bandwidth 10MHz | 2310.0MHz | |
| | LTE Band 48 | Channel Bandwidth 5MHz | TX: 3552.5MHz ~ 3697.5 MHz | |
| | | | RX: 3552.5MHz ~ 3697.5 MHz | |
| | | Channel Bandwidth 10MHz | TX: 3555MHz ~ 3695 MHz | |
| | | | RX: 3555MHz ~ 3695 MHz | |
| | Channel Bandwidth 15MHz | TX: 3557.5MHz ~ 3692.5 MHz | | |
| | | RX: 3557.5MHz ~ 3692.5 MHz | | |
| | Channel Bandwidth 20MHz | TX: 3560MHz ~ 3690 MHz | | |
| | | RX: 3560MHz ~ 3690 MHz | | |
| LTE Band 71 | Channel Bandwidth 5MHz | 665.5MHz ~ 695.5MHz | | |
| | Channel Bandwidth 10MHz | 668.0MHz ~ 693.0MHz | | |
| | Channel Bandwidth 15MHz | 670.5MHz ~ 690.5MHz | | |
| | Channel Bandwidth 20MHz | 673.0MHz ~ 688.0MHz | | |



| | | QPSK | 16QAM | 64QAM | 256QAM | | |
|----------------|-----------------|---------------------------------|-------------------------|--|-------------------------|-------------------------|--|
| Max. ERP Power | LTE Band 5 | Channel Bandwidth 1.4MHz | 288.403mW (24.60dBm) | 234.963mW (23.71dBm) | 187.068mW (22.72dBm) | 146.893mW (21.67dBm) | |
| | | Channel Bandwidth 3MHz | 283.139mW (24.52dBm) | 229.615mW (23.61dBm) | 180.302mW (22.56dBm) | 154.525mW (21.89dBm) | |
| | | Channel Bandwidth 5MHz | 285.102mW (24.55dBm) | 228.034mW (23.58dBm) | 183.231mW (22.63dBm) | 158.489mW (22.00dBm) | |
| | | Channel Bandwidth 10MHz | 289.734mW (24.62dBm) | 228.560mW (23.59dBm) | 179.887mW (22.55dBm) | 156.315mW (21.94dBm) | |
| | LTE Band 12 | Channel Bandwidth 1.4MHz | 333.426mW (25.23dBm) | 266.686mW (24.26dBm) | 203.704mW (23.09dBm) | 165.577mW (22.19dBm) | |
| | | Channel Bandwidth 3MHz | 334.195mW (25.24dBm) | 264.241mW (24.22dBm) | 210.863mW (23.24dBm) | 163.682mW (22.14dBm) | |
| | | Channel Bandwidth 5MHz | 326.588mW (25.14dBm) | 267.301mW (24.27dBm) | 208.930mW (23.20dBm) | 162.555mW (22.11dBm) | |
| | | Channel Bandwidth 10MHz | 333.426mW (25.23dBm) | 262.422mW (24.19dBm) | 206.538mW (23.15dBm) | 162.555mW (22.11dBm) | |
| | LTE Band 13 | Channel Bandwidth 5MHz | 331.894mW (25.21dBm) | 257.632mW (24.11dBm) | 213.304mW (23.29dBm) | 165.196mW (22.18dBm) | |
| | | Channel Bandwidth 10MHz | 331.894mW (25.21dBm) | 251.189mW (24.00dBm) | 207.491mW (23.17dBm) | 160.694mW (22.06dBm) | |
| | LTE Band 71 | Channel Bandwidth 5MHz | 330.370mW (25.19dBm) | 260.615mW (24.16dBm) | 209.411mW (23.21dBm) | 162.930mW (22.12dBm) | |
| | | Channel Bandwidth 10MHz | 322.107mW (25.08dBm) | 264.850mW (24.23dBm) | 207.491mW (23.17dBm) | 168.655mW (22.27dBm) | |
| | | Channel Bandwidth 15MHz | 320.627mW (25.06dBm) | 252.348mW (24.02dBm) | 207.014mW (23.16dBm) | 167.880mW (22.25dBm) | |
| | | Channel Bandwidth 20MHz | 324.340mW (25.11dBm) | 263.633mW (24.21dBm) | 204.174mW (23.10dBm) | 166.725mW (22.22dBm) | |
| | Max. EIRP Power | LTE Band 30 | Channel Bandwidth 5MHz | 194.984 mW/5MHz (22.9dBm /5MHz) | - | - | 123.027 mW/5MHz (20.9dBm /5MHz) |
| | | | Channel Bandwidth 10MHz | 177.828 mW/5MHz (22.5dBm /5MHz) | - | - | 112.202 mW/5MHz (20.5dBm /5MHz) |
| LTE Band 48 | | Per 10M | | | | | |
| | | Channel Bandwidth 5MHz | 174.582mW (22.42dBm) | 140.605mW (21.48dBm) | 106.905mW (20.29dBm) | 86.896mW (19.39dBm) | |
| | | Channel Bandwidth 10MHz | 178.238mW (22.51dBm) | 141.906mW (21.52dBm) | 110.408mW (20.43dBm) | 93.541mW (19.71dBm) | |
| | | Channel Bandwidth 15MHz | 171.002mW (22.33dBm) | 140.605mW (21.48dBm) | 111.429mW (20.47dBm) | 88.105mW (19.45dBm) | |
| | | Channel Bandwidth 20MHz | 177.828mW (22.50dBm) | 134.896mW (21.30dBm) | 111.429mW (20.47dBm) | 87.498mW (19.42dBm) | |
| | | Full Power (per each BW) | | | | | |
| | | Channel Bandwidth 5MHz | 174.582mW (22.42dBm) | 140.605mW (21.48dBm) | 106.905mW (20.29dBm) | 86.896mW (19.39dBm) | |
| | | Channel Bandwidth 10MHz | 178.238mW (22.51dBm) | 141.906mW (21.52dBm) | 110.408mW (20.43dBm) | 93.541mW (19.71dBm) | |
| | | Channel Bandwidth 15MHz | 176.604mW (22.47dBm) | 137.088mW (21.37dBm) | 108.643mW (20.36dBm) | 90.782mW (19.58dBm) | |
| | | Channel Bandwidth 20MHz | 170.216mW (22.31dBm) | 138.038mW (21.40dBm) | 111.686mW (20.48dBm) | 91.201mW (19.60dBm) | |

| Emission Designator | | | QPSK | 16QAM | 64QAM | 256QAM |
|-------------------------|--------------------------|--------------------------|---------|---------|---------|---------|
| | LTE Band 5 | Channel Bandwidth 1.4MHz | 1M09G7D | 1M09D7W | 1M09D7W | 1M09D7W |
| Channel Bandwidth 3MHz | | 2M70G7D | 2M70D7W | 2M70D7W | 2M70D7W | 2M70D7W |
| Channel Bandwidth 5MHz | | 4M49G7D | 4M49D7W | 4M50D7W | 4M48D7W | 4M48D7W |
| Channel Bandwidth 10MHz | | 8M96G7D | 8M96D7W | 8M96D7W | 8M96D7W | 8M96D7W |
| LTE Band 12 | Channel Bandwidth 1.4MHz | 1M09G7D | 1M09D7W | 1M09D7W | 1M08D7W | 1M08D7W |
| | Channel Bandwidth 3MHz | 2M70G7D | 2M69D7W | 2M70D7W | 2M70D7W | 2M70D7W |
| | Channel Bandwidth 5MHz | 4M49G7D | 4M49D7W | 4M49D7W | 4M49D7W | 4M49D7W |
| | Channel Bandwidth 10MHz | 8M96G7D | 8M96D7W | 8M96D7W | 8M96D7W | 8M96D7W |
| LTE Band 13 | Channel Bandwidth 5MHz | 4M50G7D | 4M51D7W | 4M51D7W | 4M49D7W | 4M49D7W |
| | Channel Bandwidth 10MHz | 8M98G7D | 8M95D7W | 8M95D7W | 8M94D7W | 8M94D7W |
| LTE Band 30 | Channel Bandwidth 5MHz | 4M49G7D | 4M49D7W | 4M49D7W | 4M49D7W | 4M49D7W |
| | Channel Bandwidth 10MHz | 8M95G7D | 8M96D7W | 8M96D7W | 8M95D7W | 8M95D7W |
| LTE Band 48 | Channel Bandwidth 5MHz | 4M49G7D | 4M49D7W | 4M50D7W | 4M48D7W | 4M48D7W |
| | Channel Bandwidth 10MHz | 8M96G7D | 8M97D7W | 8M97D7W | 8M96D7W | 8M96D7W |
| | Channel Bandwidth 15MHz | 13M5G7D | 13M5D7W | 13M5D7W | 13M5D7W | 13M5D7W |
| | Channel Bandwidth 20MHz | 17M9G7D | 17M9D7W | 17M9D7W | 17M9D7W | 17M9D7W |
| LTE Band 71 | Channel Bandwidth 5MHz | 4M49G7D | 4M49D7W | 4M50D7W | 4M49D7W | 4M49D7W |
| | Channel Bandwidth 10MHz | 8M96G7D | 8M97D7W | 8M97D7W | 8M96D7W | 8M96D7W |
| | Channel Bandwidth 15MHz | 13M5G7D | 13M5D7W | 13M5D7W | 13M5D7W | 13M5D7W |
| | Channel Bandwidth 20MHz | 17M9G7D | 17M9D7W | 17M9D7W | 17M9D7W | 17M9D7W |
| Antenna Type | Refer to Note as below | | | | | |
| Antenna Connector | Refer to Note as below | | | | | |
| Accessory Device | NA | | | | | |
| Cable Supplied | NA | | | | | |

| Output Power / Emission Designator | n66+LTE Band 5 | | Maximum EIRP / ERP | Sum Bandwidth |
|------------------------------------|----------------------|----------------------|----------------------|---------------|
| | | n66 | 584.790mW (27.67dBm) | 23M0D7W |
| LTE Band 5 (ERP) | 306.196mW (24.86dBm) | | | |
| | | EIRP / ERP | MAX Sum Bandwidth | |
| | n66 | 261.818mW (24.18dBm) | 27M8D7W | |
| | LTE Band 5 (ERP) | 164.816mW (22.17dBm) | | |
| | | Maximum EIRP / ERP | Sum Bandwidth | |
| | n66+LTE Band 12 | n66 | 584.790mW (27.67dBm) | 18M5D7W |
| | | LTE Band 12 (ERP) | 351.560mW (25.46dBm) | |
| | | EIRP / ERP | MAX Sum Bandwidth | |
| | | n66 | 261.818mW (24.18dBm) | 27M8D7W |
| | | LTE Band 12 (ERP) | 231.739mW (23.65dBm) | |
| | | Maximum EIRP / ERP | Sum Bandwidth | |
| | n66+LTE Band 13 | n66 | 584.790mW (27.67dBm) | 18M5D7W |
| | | LTE Band 13 (ERP) | 350.752mW (25.45dBm) | |
| | | EIRP / ERP | MAX Sum Bandwidth | |
| | | n66 | 261.818mW (24.18dBm) | 27M8D7W |
| | | LTE Band 13 (ERP) | 305.492mW (24.85dBm) | |
| | | Maximum EIRP | Sum Bandwidth | |
| | n66+LTE Band 30 | n66 | 584.790mW (27.67dBm) | 23M0D7W |
| | | LTE Band 30 (EIRP) | 208.930mW (23.20dBm) | |
| | | EIRP | MAX Sum Bandwidth | |
| | | n66 | 261.818mW (24.18dBm) | 27M8D7W |
| | | LTE Band 30 (EIRP) | 204.174mW (23.10dBm) | |
| | | Maximum EIRP | Sum Bandwidth | |
| | n66+LTE Band 48 | n66 | 584.790mW (27.67dBm) | 27M5D7W |
| | | LTE Band 48 (EIRP) | 187.068mW (22.72dBm) | |
| | | EIRP | MAX Sum Bandwidth | |
| | | n66 | 261.818mW (24.18dBm) | 36M8D7W |
| | | LTE Band 48 (EIRP) | 89.950mW (19.54dBm) | |
| | | Maximum EIRP / ERP | Sum Bandwidth | |
| | n66+LTE Band 71 | n66 | 584.790mW (27.67dBm) | 18M5D7W |
| | | LTE Band 71 (ERP) | 351.560mW (25.46dBm) | |
| | | EIRP / ERP | MAX Sum Bandwidth | |
| | | n66 | 261.818mW (24.18dBm) | 36M8D7W |
| | | LTE Band 71 (ERP) | 245.471mW (23.90dBm) | |

Note:

1. This report is a supplementary report to the original BV CPS report no.: RF200109E02B-13. The difference compared with original report is only adding mmWave hardware, mmWave function is disabled by software. Exhibit prepared for FCC Spot Check Verification report, the format, test items and amount of spot-check test data are decided by applicant's engineering judgment, for more details please refer to declaration letter exhibit. Radiated emission and output power verification worst test refer to original report.

2. There are four Difference HW of T99W175M.

| Brand | Model | HW |
|---------|----------|---|
| Foxconn | T99W175M | 1. 3G+LTE+Sub6+mmWave+eSIM |
| | | 2. 3G+LTE+Sub6+mmWave+w/o eSIM |
| | | 3. 3G+LTE+Sub6+mmWave+eSIM+GNSS connector |
| | | 4. 3G+LTE+Sub6+mmWave+w/o eSIM+GNSS connector |

*After pre-testing, "HW: 1. 3G+LTE+Sub6+mmWave+eSIM" is the worst for the final tests.

3. After pre-testing, "DFT-s-OFDM" is the worst for the final tests.

4. The following antennas were provided to the EUT.

| Antenna No. | RF Chain No. | Brand | Model | Antenna Net Gain(dBi) | Frequency range (MHz) | Antenna Type | Connector Type |
|-------------|--------------|--------|----------------|-----------------------|------------------------|--------------|----------------|
| 1 | | WHA YU | C107-511720-A | 4.41 | 660~803 | PCB | I-PEX |
| 2 | | WHA YU | C107-511721-A | 3.81 4.03 | 791~960 1447.9~1606 | PCB | I-PEX |
| 3 | | WHA YU | C107-511722-A | 4.27 5.31 | 1710~2170 2500~2690 | PCB | I-PEX |
| 4 | | WHA YU | C107-511723-A | 2.99 0.92 | 2300~2400 3500~3700 | PCB | I-PEX |
| 5 | | WHA YU | C107-511724-A | 6.45 | 5150~5925 | PCB | I-PEX |
| 6 | | WHA YU | C107-511725-A | 4.89 | 3400~3700 | PCB | I-PEX |
| 7 | | AVX | 5000106-R1-X01 | 2.91 | 699~803 | Monopole | I-PEX |
| 8 | | AVX | 5000107-R1-X01 | 2.59 | 791~960 | Monopole | I-PEX |
| 9 | | AVX | 5000108-R1-X01 | 2.85 | 1427~1610 | Monopole | I-PEX |
| 10 | | AVX | 5000109-R1-X01 | 2.23 2.94 | 1710~2200 5150~5925 | Monopole | I-PEX |
| 11 | | AVX | 5000110-R1-X01 | 0.9 | 2300~2690 | Monopole | I-PEX |
| 12 | | AVX | 5000111-R1-X01 | 0.87 | 3300~5000 | Monopole | I-PEX |

| Antenna No. | RF Chain No. | Brand | Model | Antenna Net Gain(dBi) | Frequency range (MHz) | Antenna Type | Connector Type |
|-------------|-------------------|--------------|---------|--|---|--------------|----------------|
| 13 | Tx1/ Rx1 | Ethertronics | 5003806 | 0.4 -1.61 0.39 2.95 1.98 0.38 0.83 2.31 | 698-821 824-960 1425-1515 1710-2200 2300-2690 3300-4200 4400-5000 5150-5925 | PIFA | I-PEX |
| | Rx2 | Ethertronics | 5003807 | -2.24 -4.52 2.87 2.99 2.93 2.91 2.23 -0.85 -3.04 | 716-821 824-960 1425-1515 1557-1610 1805-2200 2300-2690 3300-4200 4400-5000 5150-5925 | PIFA | I-PEX |
| | Tx2/ Rx3 | Ethertronics | 5003806 | 2.21 2.25 -0.45 2.6 | 1710-2200 2300-2690 3300-4200 4400-5000 | PIFA | I-PEX |
| | Rx4 | Ethertronics | 5003700 | 1.38 2.87 0.6 -2.09 | 1805-2200 2300-2690 3300-4200 4400-5000 | PIFA | I-PEX |
| 14 | Ant. 0 (TX/RX) | Master Wave | NA | 2.4 2.2 2.9 2.9 2.9 NA | 880~960 1020~2170 2545~2595 3565~3600 3900~4000 GPS | PCB | I-PEX |
| | Ant. 2 (TX/RX) | Master Wave | NA | NA 2.2 2.8 2.9 2.8 NA | 880~960 1020~2170 2545~2595 3565~3600 3900~4000 GPS | PCB | I-PEX |
| | Ant. 1 (RX) | Master Wave | NA | NA 5.3 5.1 4.3 4.5 NA | 880~960 1020~2170 2545~2595 3565~3600 3900~4000 GPS | PCB | I-PEX |
| | Ant. 3 (RX) | Master Wave | NA | 1.3 6.8 3.7 6.4 6.2 3.7 | 880~960 1020~2170 2545~2595 3565~3600 3900~4000 GPS | PCB | I-PEX |

*The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

*The antenna for the final tests as following table.

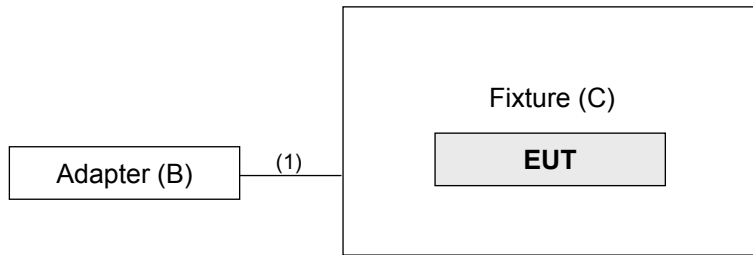
| | Band | Antenna |
|------|------------------------|-----------|
| 5GNR | 66 (15kHz) /5/10/15/20 | Antenna 3 |

| | Band | Antenna |
|-----|------|-----------|
| LTE | 5 | Antenna 2 |
| | 12 | Antenna 1 |
| | 13 | Antenna 1 |
| | 30 | Antenna 4 |
| | 48 | Antenna 4 |
| | 71 | Antenna 1 |

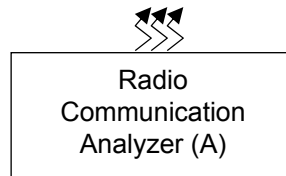
5. The EUT supports the following ENDC configuration.

| | FCC 5G FR1 | | | ENDC |
|------|------------|-------|-----------------------|-----------------------|
| | Band | SCS | Bandwidth (MHz) | |
| 5GNR | n2 | 15kHz | 5/10/15/20 | Band 5/12/13/30/48/66 |
| | n5 | 15kHz | 5/10/15/20 | Band 2/7/12/48/66 |
| | n7 | 15kHz | 5/10/15/20 | Band 5/12 |
| | n12 | 15kHz | 5/10/15 | Band 2/66 |
| | n41 | 30kHz | 20/40/50/60/80/90/100 | Band 2/25/26/66/41 |
| | n66 | 15kHz | 5/10/15/20 | Band 5/12/13/30/48/71 |
| | n71 | 15kHz | 5/10/15/20 | Band 2/7/66 |

3.2 Configuration of System under Test



Remote site



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|----|------------------------------|---------|------------|------------|--------|---------------------|
| A. | Radio Communication Analyzer | Anritsu | MT8821C | 6261806803 | NA | - |
| B. | Adapter | LITEON | PA-1050-39 | NA | NA | - |
| C. | Fixture | NA | NA | NA | NA | Provided by client. |

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|--------------|------|------------|--------------------|--------------|---------|
| 1. | USB cable | 1 | 1.5 | Y | 0 | - |

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Z-plane. Following channel(s) was (were) selected for the final test as listed below.

n66

| EUT Configure Mode | Test Item | Available Channel | Tested Channel | Channel Bandwidth | Modulation | Mode |
|--------------------|------------------------------|-------------------|--|-------------------|---|---|
| - | EIRP | 342500 to 355500 | 342500 (1712.5MHz), 349000 (1745.0MHz), 355500 (1777.5MHz) | 5MHz | $\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset |
| | | 343000 to 355000 | 343000 (1715.0MHz), 349000 (1745.0MHz), 355000 (1775.0MHz) | 10MHz | $\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset |
| | | 343500 to 354500 | 343500 (1717.5MHz), 349000 (1745.0MHz), 354500 (1772.5MHz) | 15MHz | $\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset |
| | | 344000 to 354000 | 344000 (1720.0MHz), 349000 (1745.0MHz), 354000 (1770.0MHz) | 20MHz | $\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset |
| - | Radiated Emission Below 1GHz | 343500 to 354500 | 343500 (1717.5MHz) | 15MHz | $\pi/2$ BPSK | 1 RB / 78 RB Offset |
| - | Radiated Emission Above 1GHz | 343500 to 354500 | 343500 (1717.5MHz) | 15MHz | $\pi/2$ BPSK | 1 RB / 78 RB Offset |

LTE Band 5

| EUT Configure Mode | Test item | Available channel | Tested channel | Channel Bandwidth | Modulation | Mode |
|--------------------|-----------|-------------------|---|-------------------|-------------------------------------|--|
| - | ERP | 20407 to 20643 | 20407(824.7MHz), 20525(836.5MHz), 20643(848.3MHz) | 1.4MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset |
| | | 20415 to 20635 | 20415(825.5MHz), 20525(836.5MHz), 20635(847.5MHz) | 3MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset |
| | | 20425 to 20625 | 20425(826.5MHz), 20525(836.5MHz), 20625(846.5MHz) | 5MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset |
| | | 20450 to 20600 | 20450(829.0MHz), 20525(836.5MHz), 20600(844.0MHz) | 10MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset |

LTE Band 12

| EUT Configure Mode | Test item | Available channel | Tested channel | Channel Bandwidth | Modulation | Mode |
|--------------------|------------------------------|-------------------|---|-------------------|-------------------------------------|--|
| - | ERP | 23017 to 23173 | 23017(699.7MHz), 23095(707.5MHz), 23173(715.3MHz) | 1.4MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset |
| | | 23025 to 23165 | 23025(700.5MHz), 23095(707.5MHz), 23165(714.5MHz) | 3MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset |
| | | 23035 to 23155 | 23035(701.5MHz), 23095(707.5MHz), 23155(713.5MHz) | 5MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset |
| | | 23060 to 23130 | 23060(704.0MHz), 23095(707.5 MHz), 23130(711.0 MHz) | 10MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset |
| - | Radiated Emission Below 1GHz | 23025 to 23165 | 23025(700.5MHz) | 3MHz | QPSK | 1 RB / 0 RB Offset |
| - | Radiated Emission Above 1GHz | 23025 to 23165 | 23025(700.5MHz) | 3MHz | QPSK | 1 RB / 0 RB Offset |

LTE Band 13

| EUT Configure Mode | Test item | Available channel | Tested channel | Channel Bandwidth | Modulation | Mode |
|--------------------|-----------|-------------------|---|-------------------|-------------------------------------|--|
| - | ERP | 23205 to 23255 | 23205(779.5MHz), 23230(782.0MHz), 23255(784.5MHz) | 5MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset |
| | | 23230 | 23230(782.0MHz) | 10MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset |

LTE Band 30

| EUT Configure Mode | Test item | Available channel | Tested channel | Channel Bandwidth | Modulation | Mode |
|--------------------|-----------|-------------------|---|-------------------|-------------------------------------|--|
| - | EIRP | 27685 to 27735 | 27685 (2307.5MHz), 27710 (2310.0MHz), 27735 (2312.5MHz) | 5MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset |
| | | 27710 | 27710 (2310.0MHz) | 10MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset |

LTE Band 48

| Test Item | Available Channel | Tested Channel | Channel Bandwidth | Modulation | Mode |
|----------------------|-------------------|---|-------------------|-------------------------------------|---|
| Maximum Output Power | 55265 to 56715 | 55265 (3552.5MHz), 55990 (3625.0MHz), 56715 (3697.5MHz) | 5MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset |
| | 55290 to 56690 | 55290 (3555.0MHz), 55990 (3625.0MHz), 56690 (3695.0MHz) | 10MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset |
| | 55315 to 56665 | 55315 (3557.5MHz), 55990 (3625.0MHz), 56665 (3692.5MHz) | 15MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset |
| | 55340 to 56640 | 55340 (3560.0MHz), 55990 (3625.0MHz), 56640 (3690.0MHz) | 20MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset |

LTE Band 71

| EUT Configure Mode | Test item | Available channel | Tested channel | Channel Bandwidth | Modulation | Mode |
|--------------------|-----------|-------------------|---|-------------------|-------------------------------------|---|
| - | ERP | 133147 to 133447 | 133147 (665.5MHz), 133297 (680.5MHz), 133447 (695.5MHz) | 5 MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset |
| | | 133172 to 133422 | 133172 (668.0MHz), 133297 (680.5MHz), 133422 (693.0MHz) | 10 MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset |
| | | 133197 to 133397 | 133197 (670.5MHz), 133297 (680.5MHz), 133397 (690.5MHz) | 15 MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset |
| | | 133222 to 133372 | 133222 (673.0MHz), 133297 (680.5MHz), 133372 (688.0MHz) | 20 MHz | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset |

Test Condition:

| Test Item | Environmental Conditions | Input Power (system) | Tested By |
|-------------------|------------------------------------|----------------------|----------------------|
| ERP / EIRP | 25deg. C, 70%RH | 5Vdc | James Yang |
| Radiated Emission | 22deg. C, 68%RH 25deg. C, 70%RH | 120Vac, 60Hz | Greg Lin Luis Lee |

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and References:

Test Standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 22

FCC 47 CFR Part 27

FCC 47 CFR Part 96

ANSI/TIA/EIA-603-D-2010

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

KDB 971168 D02 Misc Rev Approv License Devices v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

KDB 940660 D01 Part 96 CBRS Eqpt v02

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

For n66:

Mobile / Portable station are limited to 1 watts e.i.r.p.

For LTE Band 5:

Mobile / Portable station are limited to 7 watts e.r.p.

For LTE Band 12, LTE Band 13, LTE Band 71:

Control and mobile stations in the 698-746 MHz, 746-757 MHz, 787-788 MHz and 805-806 MHz band are limited to 30 watts ERP.

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink, 746-757 MHz, 787-788 MHz and 805-806 MHz band are limited to 3 watts ERP.

For LTE Band 30:

For mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

For LTE Band 48

| Device | | Maximum Output Power (dBm/10 MHz) |
|-------------------------------------|-----------------|--------------------------------------|
| <input checked="" type="checkbox"/> | End User Device | 23 |
| <input type="checkbox"/> | Category A CBSD | 30 |
| <input type="checkbox"/> | Category B CBSD | 47 |

4.1.2 Test Procedures

Conducted Power Measurement:

The EUT was set up for the maximum power with WCDMA, LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Maximum EIRP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$ERP \text{ or } EIRP = P_{Meas} + G_T$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

4.1.3 Test Setup

Conducted Power Measurement:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.4 Test Results

Conducted Output Power (dBm)

| | | n66 | | | | |
|----|--------------|-----------------|----|--------|--------|--------|
| BW | MCS Index | Channel | | 342500 | 349000 | 355500 |
| | | Frequency (MHz) | | 1712.5 | 1745 | 1777.5 |
| 5M | $\pi/2$ BPSK | 1 | 0 | 22.91 | 22.66 | 22.91 |
| | | 1 | 12 | 22.99 | 22.52 | 22.89 |
| | | 1 | 24 | 22.73 | 22.77 | 22.93 |
| | | 12 | 0 | 22.69 | 22.55 | 22.28 |
| | | 12 | 6 | 22.87 | 22.77 | 22.53 |
| | | 12 | 13 | 22.71 | 22.84 | 22.62 |
| | | 25 | 0 | 22.70 | 22.92 | 22.66 |
| | QPSK | 1 | 0 | 22.53 | 22.67 | 22.73 |
| | | 1 | 12 | 22.47 | 22.79 | 22.71 |
| | | 1 | 24 | 22.61 | 22.70 | 22.63 |
| | | 12 | 0 | 22.34 | 22.46 | 22.67 |
| | | 12 | 6 | 22.61 | 22.48 | 22.67 |
| | | 12 | 13 | 22.46 | 22.42 | 22.65 |
| | | 25 | 0 | 22.53 | 22.45 | 22.45 |
| | 16QAM | 1 | 0 | 22.64 | 22.30 | 22.59 |
| | | 1 | 12 | 22.83 | 22.51 | 22.77 |
| | | 1 | 24 | 22.32 | 22.55 | 22.33 |
| | | 12 | 0 | 22.31 | 22.23 | 22.27 |
| | | 12 | 6 | 22.40 | 22.63 | 22.19 |
| | | 12 | 13 | 22.45 | 22.29 | 22.46 |
| | | 25 | 0 | 22.14 | 22.41 | 22.33 |
| | 64QAM | 1 | 0 | 22.22 | 22.18 | 22.20 |
| | | 1 | 12 | 22.07 | 22.02 | 22.44 |
| | | 1 | 24 | 22.02 | 22.15 | 21.93 |
| | | 12 | 0 | 22.14 | 22.27 | 22.09 |
| | | 12 | 6 | 21.83 | 22.22 | 22.00 |
| | | 12 | 13 | 21.78 | 21.72 | 21.77 |
| | | 25 | 0 | 22.20 | 21.94 | 22.24 |
| | 256QAM | 1 | 0 | 19.43 | 19.73 | 19.85 |
| | | 1 | 12 | 19.68 | 19.79 | 19.55 |
| | | 1 | 24 | 19.42 | 19.66 | 19.64 |
| | | 12 | 0 | 19.05 | 19.42 | 19.55 |
| | | 12 | 6 | 19.46 | 18.82 | 18.98 |
| | | 12 | 13 | 19.53 | 18.98 | 19.17 |
| | | 25 | 0 | 19.35 | 19.46 | 18.86 |

| n66 | | | | | | |
|-----|--------------|-----------------|-------|--------------|--------|--------------|
| BW | MCS Index | Channel | | 343000 | 349000 | 355000 |
| | | Frequency (MHz) | | 1715 | 1745 | 1775 |
| 10M | $\pi/2$ BPSK | 1 | 0 | 23.02 | 22.77 | 22.98 |
| | | 1 | 26 | 22.79 | 22.82 | 22.74 |
| | | 1 | 51 | 23.04 | 22.91 | 22.69 |
| | | 26 | 0 | 22.87 | 22.53 | 22.88 |
| | | 26 | 13 | 22.51 | 22.62 | 22.76 |
| | | 26 | 26 | 22.61 | 22.84 | 22.41 |
| | | 52 | 0 | 22.63 | 22.74 | 22.60 |
| | QPSK | 1 | 0 | 22.42 | 22.70 | 22.49 |
| | | 1 | 26 | 22.78 | 22.65 | 22.62 |
| | | 1 | 51 | 22.91 | 22.69 | 22.73 |
| | | 26 | 0 | 22.46 | 22.49 | 22.29 |
| | | 26 | 13 | 22.46 | 22.51 | 22.48 |
| | | 26 | 26 | 22.64 | 22.56 | 22.47 |
| | | 52 | 0 | 22.26 | 22.46 | 22.45 |
| | 16QAM | 1 | 0 | 22.86 | 22.52 | 22.47 |
| | | 1 | 26 | 22.48 | 22.49 | 22.54 |
| | | 1 | 51 | 22.55 | 22.37 | 22.64 |
| | | 26 | 0 | 22.64 | 22.34 | 22.32 |
| | | 26 | 13 | 22.67 | 22.37 | 22.72 |
| | | 26 | 26 | 22.57 | 22.56 | 22.30 |
| | | 52 | 0 | 22.53 | 22.17 | 22.40 |
| | 64QAM | 1 | 0 | 22.25 | 22.00 | 22.39 |
| | | 1 | 26 | 22.35 | 22.18 | 22.56 |
| | | 1 | 51 | 22.49 | 22.36 | 22.38 |
| | | 26 | 0 | 22.19 | 22.02 | 22.01 |
| | | 26 | 13 | 21.90 | 22.21 | 21.95 |
| | | 26 | 26 | 22.10 | 22.10 | 22.00 |
| | | 52 | 0 | 22.03 | 21.99 | 22.22 |
| | 256QAM | 1 | 0 | 19.94 | 19.79 | 19.96 |
| | | 1 | 26 | 20.13 | 20.07 | 19.77 |
| 1 | | 51 | 19.93 | 19.70 | 19.58 | |
| 26 | | 0 | 19.63 | 19.38 | 19.64 | |
| 26 | | 13 | 19.19 | 19.51 | 19.01 | |
| 26 | | 26 | 18.99 | 19.53 | 19.42 | |
| 52 | | 0 | 19.31 | 19.06 | 19.49 | |

| n66 | | | | | | |
|-----|--------------|-----------------|----|--------------|--------|--------------|
| BW | MCS Index | Channel | | 343500 | 349000 | 354500 |
| | | Frequency (MHz) | | 1717.5 | 1745 | 1772.5 |
| 15M | $\pi/2$ BPSK | 1 | 0 | 22.74 | 22.60 | 23.13 |
| | | 1 | 39 | 22.60 | 23.14 | 23.01 |
| | | 1 | 78 | 23.23 | 22.60 | 22.84 |
| | | 39 | 0 | 22.59 | 22.68 | 22.75 |
| | | 39 | 19 | 22.80 | 22.68 | 22.74 |
| | | 39 | 40 | 22.75 | 22.53 | 22.62 |
| | | 79 | 0 | 22.70 | 22.52 | 22.74 |
| | QPSK | 1 | 0 | 22.67 | 22.72 | 22.72 |
| | | 1 | 39 | 22.50 | 22.54 | 22.64 |
| | | 1 | 78 | 22.58 | 22.79 | 22.85 |
| | | 39 | 0 | 22.52 | 22.47 | 22.33 |
| | | 39 | 19 | 22.49 | 22.43 | 22.52 |
| | | 39 | 40 | 22.39 | 22.56 | 22.71 |
| | | 79 | 0 | 22.52 | 22.70 | 22.44 |
| | 16QAM | 1 | 0 | 22.69 | 22.36 | 22.77 |
| | | 1 | 39 | 22.70 | 22.49 | 22.85 |
| | | 1 | 78 | 22.79 | 22.56 | 22.70 |
| | | 39 | 0 | 22.34 | 22.40 | 22.60 |
| | | 39 | 19 | 22.64 | 22.62 | 22.32 |
| | | 39 | 40 | 22.49 | 22.53 | 22.51 |
| | | 79 | 0 | 22.21 | 22.19 | 22.37 |
| | 64QAM | 1 | 0 | 22.00 | 22.38 | 22.41 |
| | | 1 | 39 | 22.59 | 22.37 | 22.35 |
| | | 1 | 78 | 22.07 | 22.24 | 22.08 |
| | | 39 | 0 | 22.13 | 21.84 | 22.26 |
| | | 39 | 19 | 22.04 | 22.24 | 22.21 |
| | | 39 | 40 | 22.23 | 22.00 | 22.13 |
| | | 79 | 0 | 22.29 | 21.85 | 21.80 |
| | 256QAM | 1 | 0 | 19.24 | 19.67 | 19.56 |
| | | 1 | 39 | 19.79 | 19.97 | 19.29 |
| | | 1 | 78 | 19.99 | 19.47 | 19.44 |
| | | 39 | 0 | 19.33 | 19.62 | 19.42 |
| | | 39 | 19 | 19.51 | 19.49 | 18.87 |
| | | 39 | 40 | 19.28 | 18.90 | 19.48 |
| | | 79 | 0 | 19.29 | 18.85 | 19.53 |

| n66 | | | | | | |
|-----|--------------|-----------------|--------------|--------------|--------------|--------|
| BW | MCS Index | Channel | | 344000 | 349000 | 132575 |
| | | Frequency (MHz) | | 1720 | 1745 | 1770 |
| 20M | $\pi/2$ BPSK | 1 | 0 | 22.60 | 22.83 | 22.61 |
| | | 1 | 53 | 22.78 | 22.76 | 22.67 |
| | | 1 | 105 | 22.74 | 23.06 | 23.04 |
| | | 50 | 0 | 22.76 | 22.55 | 22.36 |
| | | 50 | 25 | 22.44 | 22.50 | 22.79 |
| | | 50 | 50 | 22.60 | 22.60 | 22.62 |
| | | 106 | 0 | 22.74 | 22.50 | 22.65 |
| | QPSK | 1 | 0 | 22.67 | 22.74 | 22.67 |
| | | 1 | 53 | 22.78 | 22.58 | 22.66 |
| | | 1 | 105 | 22.64 | 22.71 | 22.52 |
| | | 50 | 0 | 22.51 | 22.56 | 22.62 |
| | | 50 | 25 | 22.45 | 22.56 | 22.65 |
| | | 50 | 50 | 22.38 | 22.74 | 22.49 |
| | | 106 | 0 | 22.18 | 22.48 | 22.55 |
| | 16QAM | 1 | 0 | 22.74 | 22.60 | 22.39 |
| | | 1 | 53 | 22.35 | 22.45 | 22.43 |
| | | 1 | 105 | 22.38 | 22.42 | 22.28 |
| | | 50 | 0 | 22.39 | 22.36 | 22.25 |
| | | 50 | 25 | 22.29 | 22.56 | 22.47 |
| | | 50 | 50 | 22.15 | 22.29 | 22.13 |
| | | 106 | 0 | 22.51 | 22.09 | 22.44 |
| | 64QAM | 1 | 0 | 21.91 | 22.47 | 22.36 |
| | | 1 | 53 | 22.42 | 22.43 | 22.34 |
| | | 1 | 105 | 21.97 | 22.27 | 22.21 |
| | | 50 | 0 | 22.26 | 21.95 | 21.89 |
| | | 50 | 25 | 21.95 | 22.06 | 21.85 |
| | | 50 | 50 | 22.06 | 22.22 | 22.20 |
| | | 106 | 0 | 22.05 | 22.00 | 22.02 |
| | 256QAM | 1 | 0 | 19.56 | 19.67 | 19.67 |
| | | 1 | 53 | 19.59 | 19.91 | 19.50 |
| 1 | | 105 | 20.07 | 19.48 | 19.21 | |
| 50 | | 0 | 19.31 | 19.71 | 18.77 | |
| 50 | | 25 | 18.92 | 19.19 | 19.57 | |
| 50 | | 50 | 19.01 | 19.26 | 19.57 | |
| 106 | | 0 | 18.98 | 19.46 | 19.66 | |

| LTE Band 5 | | | | | | |
|------------|-----------|-----------------|-----------|-------|-------|-------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 20407 | 20525 | 20643 |
| | | Frequency (MHz) | | 824.7 | 836.5 | 848.3 |
| 1.4M | QPSK | 1 | 0 | 22.84 | 22.39 | 22.64 |
| | | 1 | 2 | 22.59 | 22.44 | 22.91 |
| | | 1 | 5 | 22.93 | 22.94 | 22.51 |
| | | 3 | 0 | 22.29 | 22.19 | 22.39 |
| | | 3 | 1 | 22.44 | 22.45 | 22.38 |
| | | 3 | 3 | 22.60 | 22.10 | 22.66 |
| | | 6 | 0 | 22.39 | 22.25 | 22.59 |
| | 16QAM | 1 | 0 | 21.83 | 21.59 | 21.70 |
| | | 1 | 2 | 21.50 | 21.66 | 21.86 |
| | | 1 | 5 | 21.82 | 21.72 | 22.05 |
| | | 3 | 0 | 21.46 | 21.65 | 20.99 |
| | | 3 | 1 | 20.94 | 21.01 | 21.25 |
| | | 3 | 3 | 21.36 | 21.12 | 21.50 |
| | | 6 | 0 | 21.18 | 21.36 | 21.66 |
| | 64QAM | 1 | 0 | 20.43 | 20.85 | 21.06 |
| | | 1 | 2 | 20.53 | 20.83 | 20.63 |
| | | 1 | 5 | 20.69 | 20.60 | 20.87 |
| | | 3 | 0 | 20.11 | 20.39 | 20.37 |
| | | 3 | 1 | 20.46 | 20.10 | 20.63 |
| | | 3 | 3 | 20.07 | 20.47 | 20.18 |
| | | 6 | 0 | 19.95 | 20.44 | 20.06 |
| | 256QAM | 1 | 0 | 19.59 | 19.94 | 20.01 |
| | | 1 | 2 | 19.84 | 19.57 | 19.47 |
| | | 1 | 5 | 19.59 | 19.57 | 19.36 |
| | | 3 | 0 | 19.63 | 19.46 | 19.87 |
| | | 3 | 1 | 19.77 | 19.31 | 19.61 |
| | | 3 | 3 | 19.43 | 19.67 | 19.62 |
| | | 6 | 0 | 19.87 | 19.62 | 19.86 |

| LTE Band 5 | | | | | | |
|------------|-----------|-----------------|-----------|-------|-------|-------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 20415 | 20525 | 20635 |
| | | Frequency (MHz) | | 825.5 | 836.5 | 847.5 |
| 3M | QPSK | 1 | 0 | 22.41 | 22.59 | 22.65 |
| | | 1 | 7 | 22.68 | 22.86 | 22.59 |
| | | 1 | 14 | 22.81 | 22.76 | 22.81 |
| | | 8 | 0 | 22.65 | 22.18 | 22.59 |
| | | 8 | 3 | 22.29 | 22.42 | 22.05 |
| | | 8 | 7 | 22.57 | 22.53 | 22.04 |
| | | 15 | 0 | 22.44 | 22.04 | 22.01 |
| | 16QAM | 1 | 0 | 21.67 | 21.64 | 21.73 |
| | | 1 | 7 | 21.72 | 21.80 | 21.38 |
| | | 1 | 14 | 21.52 | 21.95 | 21.68 |
| | | 8 | 0 | 21.30 | 21.37 | 21.43 |
| | | 8 | 3 | 21.03 | 21.26 | 21.19 |
| | | 8 | 7 | 20.85 | 21.55 | 21.23 |
| | | 15 | 0 | 20.95 | 21.09 | 20.99 |
| | 64QAM | 1 | 0 | 20.41 | 20.57 | 20.90 |
| | | 1 | 7 | 20.81 | 20.51 | 20.85 |
| | | 1 | 14 | 20.76 | 20.79 | 20.43 |
| | | 8 | 0 | 20.53 | 20.42 | 20.32 |
| | | 8 | 3 | 20.53 | 20.34 | 19.99 |
| | | 8 | 7 | 20.10 | 20.24 | 20.44 |
| | | 15 | 0 | 19.98 | 20.56 | 19.86 |
| | 256QAM | 1 | 0 | 20.03 | 19.89 | 19.65 |
| | | 1 | 7 | 19.89 | 20.19 | 19.26 |
| | | 1 | 14 | 19.48 | 20.10 | 20.08 |
| | | 8 | 0 | 20.02 | 20.23 | 19.69 |
| | | 8 | 3 | 19.36 | 19.59 | 19.43 |
| | | 8 | 7 | 19.52 | 19.94 | 19.94 |
| | | 15 | 0 | 19.29 | 19.73 | 19.30 |

| LTE Band 5 | | | | | | |
|------------|-----------|-----------------|-----------|-------|-------|-------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 20425 | 20525 | 20625 |
| | | Frequency (MHz) | | 826.5 | 836.5 | 846.5 |
| 5M | QPSK | 1 | 0 | 22.47 | 22.89 | 22.67 |
| | | 1 | 12 | 22.65 | 22.79 | 22.75 |
| | | 1 | 24 | 22.70 | 22.71 | 22.78 |
| | | 12 | 0 | 22.41 | 22.26 | 21.99 |
| | | 12 | 6 | 22.63 | 22.15 | 22.31 |
| | | 12 | 13 | 22.19 | 22.49 | 22.62 |
| | | 25 | 0 | 22.07 | 22.46 | 22.63 |
| | 16QAM | 1 | 0 | 21.54 | 21.92 | 21.81 |
| | | 1 | 12 | 21.56 | 21.77 | 21.86 |
| | | 1 | 24 | 21.78 | 21.66 | 21.78 |
| | | 12 | 0 | 21.13 | 21.47 | 21.07 |
| | | 12 | 6 | 21.09 | 20.93 | 21.25 |
| | | 12 | 13 | 20.97 | 21.34 | 21.17 |
| | | 25 | 0 | 21.33 | 20.88 | 21.33 |
| | 64QAM | 1 | 0 | 20.55 | 20.74 | 20.44 |
| | | 1 | 12 | 20.58 | 20.72 | 20.72 |
| | | 1 | 24 | 20.87 | 20.97 | 20.72 |
| | | 12 | 0 | 20.37 | 20.22 | 20.60 |
| | | 12 | 6 | 20.52 | 20.36 | 19.85 |
| | | 12 | 13 | 20.08 | 20.43 | 20.12 |
| | | 25 | 0 | 20.33 | 20.10 | 19.98 |
| | 256QAM | 1 | 0 | 19.92 | 19.30 | 19.83 |
| | | 1 | 12 | 19.39 | 19.39 | 19.75 |
| | | 1 | 24 | 19.98 | 20.11 | 19.65 |
| | | 12 | 0 | 19.49 | 20.11 | 19.07 |
| | | 12 | 6 | 19.56 | 20.09 | 19.61 |
| | | 12 | 13 | 20.18 | 19.11 | 19.93 |
| | | 25 | 0 | 20.14 | 20.34 | 19.62 |

| LTE Band 5 | | | | | | |
|------------|-----------|-----------------|-----------|-------|--------------|--------------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 20450 | 20525 | 20600 |
| | | Frequency (MHz) | | 829 | 836.5 | 844 |
| 10M | QPSK | 1 | 0 | 22.57 | 22.96 | 22.73 |
| | | 1 | 24 | 22.63 | 22.84 | 22.75 |
| | | 1 | 49 | 22.70 | 22.45 | 22.95 |
| | | 25 | 0 | 22.64 | 21.87 | 22.41 |
| | | 25 | 12 | 22.45 | 22.51 | 22.45 |
| | | 25 | 25 | 22.31 | 22.29 | 22.65 |
| | | 50 | 0 | 21.89 | 22.20 | 22.50 |
| | 16QAM | 1 | 0 | 21.58 | 21.50 | 21.93 |
| | | 1 | 24 | 21.59 | 21.82 | 21.46 |
| | | 1 | 49 | 21.81 | 21.54 | 21.55 |
| | | 25 | 0 | 21.38 | 21.18 | 21.41 |
| | | 25 | 12 | 21.38 | 21.04 | 21.29 |
| | | 25 | 25 | 21.48 | 21.13 | 21.21 |
| | | 50 | 0 | 21.22 | 21.11 | 21.51 |
| | 64QAM | 1 | 0 | 20.65 | 20.89 | 20.87 |
| | | 1 | 24 | 20.78 | 20.86 | 20.66 |
| | | 1 | 49 | 20.84 | 20.72 | 20.85 |
| | | 25 | 0 | 20.19 | 20.27 | 19.88 |
| | | 25 | 12 | 20.14 | 20.54 | 20.02 |
| | | 25 | 25 | 20.11 | 20.46 | 20.57 |
| | | 50 | 0 | 20.17 | 20.36 | 20.40 |
| | 256QAM | 1 | 0 | 19.40 | 20.28 | 19.62 |
| | | 1 | 24 | 19.50 | 20.11 | 19.84 |
| | | 1 | 49 | 20.08 | 19.63 | 19.27 |
| | | 25 | 0 | 20.24 | 20.24 | 19.38 |
| | | 25 | 12 | 19.68 | 19.81 | 19.54 |
| | | 25 | 25 | 19.96 | 19.26 | 20.08 |
| | | 50 | 0 | 19.45 | 19.37 | 19.27 |

| LTE Band 12 | | | | | | |
|-------------|-----------|-----------------|---|--------------|--------------|--------------|
| BW | MCS Index | Channel | | 23017 | 23095 | 23173 |
| | | Frequency (MHz) | | 699.7 | 707.5 | 715.3 |
| 1.4M | QPSK | 1 | 0 | 22.87 | 22.89 | 22.97 |
| | | 1 | 2 | 22.81 | 22.64 | 22.46 |
| | | 1 | 5 | 22.81 | 22.91 | 22.66 |
| | | 3 | 0 | 22.18 | 22.24 | 22.64 |
| | | 3 | 1 | 22.22 | 22.56 | 22.20 |
| | | 3 | 3 | 22.40 | 22.62 | 22.21 |
| | | 6 | 0 | 22.36 | 22.14 | 22.62 |
| | 16QAM | 1 | 0 | 21.67 | 22.00 | 21.53 |
| | | 1 | 2 | 21.73 | 21.68 | 21.64 |
| | | 1 | 5 | 21.87 | 21.84 | 21.73 |
| | | 3 | 0 | 20.87 | 21.04 | 20.93 |
| | | 3 | 1 | 21.64 | 21.32 | 21.02 |
| | | 3 | 3 | 21.37 | 21.05 | 21.25 |
| | | 6 | 0 | 21.49 | 21.03 | 21.33 |
| | 64QAM | 1 | 0 | 20.65 | 20.83 | 20.60 |
| | | 1 | 2 | 20.44 | 20.52 | 20.80 |
| | | 1 | 5 | 20.55 | 20.71 | 20.79 |
| | | 3 | 0 | 20.21 | 20.07 | 20.31 |
| | | 3 | 1 | 20.58 | 20.19 | 20.24 |
| | | 3 | 3 | 20.01 | 20.32 | 20.37 |
| | | 6 | 0 | 20.15 | 20.40 | 20.45 |
| | 256QAM | 1 | 0 | 19.01 | 18.99 | 18.98 |
| | | 1 | 2 | 19.93 | 19.70 | 19.42 |
| | | 1 | 5 | 18.98 | 19.77 | 19.34 |
| | | 3 | 0 | 19.09 | 19.04 | 19.28 |
| | | 3 | 1 | 19.41 | 19.65 | 19.16 |
| | | 3 | 3 | 19.56 | 19.08 | 19.01 |
| | | 6 | 0 | 19.73 | 19.35 | 19.23 |

| LTE Band 12 | | | | | | |
|-------------|-----------|-----------------|----|-------|-------|-------|
| BW | MCS Index | Channel | | 23025 | 23095 | 23165 |
| | | Frequency (MHz) | | 700.5 | 707.5 | 714.5 |
| 3M | QPSK | 1 | 0 | 22.98 | 22.77 | 22.90 |
| | | 1 | 7 | 22.84 | 22.83 | 22.57 |
| | | 1 | 14 | 22.64 | 22.56 | 22.76 |
| | | 8 | 0 | 22.26 | 22.46 | 22.39 |
| | | 8 | 3 | 22.06 | 22.71 | 22.23 |
| | | 8 | 7 | 22.45 | 22.32 | 22.23 |
| | | 15 | 0 | 22.19 | 22.08 | 22.40 |
| | 16QAM | 1 | 0 | 21.96 | 21.72 | 21.91 |
| | | 1 | 7 | 21.76 | 21.66 | 21.46 |
| | | 1 | 14 | 21.54 | 21.67 | 21.56 |
| | | 8 | 0 | 21.14 | 21.20 | 20.95 |
| | | 8 | 3 | 21.15 | 21.43 | 21.50 |
| | | 8 | 7 | 21.05 | 21.05 | 21.24 |
| | | 15 | 0 | 21.01 | 21.05 | 21.59 |
| | 64QAM | 1 | 0 | 20.57 | 20.68 | 20.75 |
| | | 1 | 7 | 20.98 | 20.78 | 20.94 |
| | | 1 | 14 | 20.67 | 20.50 | 20.55 |
| | | 8 | 0 | 20.48 | 20.32 | 20.32 |
| | | 8 | 3 | 20.34 | 20.53 | 20.10 |
| | | 8 | 7 | 20.09 | 20.21 | 20.12 |
| | | 15 | 0 | 20.57 | 20.30 | 19.89 |
| | 256QAM | 1 | 0 | 19.88 | 19.38 | 18.80 |
| | | 1 | 7 | 19.52 | 19.17 | 19.49 |
| | | 1 | 14 | 19.72 | 19.28 | 19.66 |
| | | 8 | 0 | 19.29 | 19.65 | 18.97 |
| | | 8 | 3 | 19.55 | 19.29 | 19.09 |
| | | 8 | 7 | 19.63 | 19.42 | 18.96 |
| | | 15 | 0 | 19.03 | 19.55 | 19.19 |

| LTE Band 12 | | | | | | |
|-------------|-----------|-----------------|----|--------------|--------------|--------------|
| BW | MCS Index | Channel | | 23035 | 23095 | 23155 |
| | | Frequency (MHz) | | 701.5 | 707.5 | 713.5 |
| 5M | QPSK | 1 | 0 | 22.75 | 22.47 | 22.88 |
| | | 1 | 12 | 22.71 | 22.45 | 22.87 |
| | | 1 | 24 | 22.81 | 22.52 | 22.62 |
| | | 12 | 0 | 22.58 | 22.03 | 22.71 |
| | | 12 | 6 | 22.07 | 22.28 | 21.88 |
| | | 12 | 13 | 22.45 | 22.39 | 22.13 |
| | | 25 | 0 | 22.67 | 22.20 | 22.39 |
| | 16QAM | 1 | 0 | 21.75 | 21.62 | 21.43 |
| | | 1 | 12 | 21.63 | 21.68 | 22.01 |
| | | 1 | 24 | 21.63 | 21.73 | 21.52 |
| | | 12 | 0 | 21.00 | 21.11 | 21.55 |
| | | 12 | 6 | 20.83 | 21.44 | 21.31 |
| | | 12 | 13 | 21.58 | 21.28 | 21.02 |
| | | 25 | 0 | 20.88 | 21.57 | 21.08 |
| | 64QAM | 1 | 0 | 20.73 | 20.83 | 20.93 |
| | | 1 | 12 | 20.71 | 20.66 | 20.79 |
| | | 1 | 24 | 20.79 | 20.94 | 20.81 |
| | | 12 | 0 | 20.11 | 20.27 | 20.16 |
| | | 12 | 6 | 20.49 | 20.42 | 20.53 |
| | | 12 | 13 | 20.07 | 20.27 | 19.97 |
| | | 25 | 0 | 20.45 | 20.42 | 20.32 |
| | 256QAM | 1 | 0 | 19.85 | 19.47 | 19.65 |
| | | 1 | 12 | 19.16 | 19.52 | 19.65 |
| | | 1 | 24 | 19.19 | 19.42 | 19.58 |
| | | 12 | 0 | 19.27 | 19.34 | 19.01 |
| | | 12 | 6 | 19.64 | 19.43 | 18.88 |
| | | 12 | 13 | 19.76 | 19.70 | 19.43 |
| | | 25 | 0 | 19.63 | 18.96 | 19.23 |

| LTE Band 12 | | | | | | |
|-------------|-----------|-----------------|----|-------|--------------|--------------|
| BW | MCS Index | Channel | | 23060 | 23095 | 23130 |
| | | Frequency (MHz) | | 704 | 707.5 | 711 |
| 10M | QPSK | 1 | 0 | 22.70 | 22.97 | 22.74 |
| | | 1 | 24 | 22.86 | 22.62 | 22.72 |
| | | 1 | 49 | 22.59 | 22.60 | 22.65 |
| | | 25 | 0 | 22.42 | 22.58 | 22.57 |
| | | 25 | 12 | 22.10 | 22.09 | 22.16 |
| | | 25 | 25 | 22.32 | 22.29 | 22.61 |
| | | 50 | 0 | 22.53 | 22.44 | 22.67 |
| | 16QAM | 1 | 0 | 21.67 | 21.69 | 21.57 |
| | | 1 | 24 | 21.65 | 21.65 | 21.71 |
| | | 1 | 49 | 21.47 | 21.74 | 21.93 |
| | | 25 | 0 | 20.86 | 21.20 | 21.17 |
| | | 25 | 12 | 20.85 | 20.96 | 21.33 |
| | | 25 | 25 | 21.11 | 21.54 | 21.30 |
| | | 50 | 0 | 21.22 | 20.95 | 21.70 |
| | 64QAM | 1 | 0 | 20.86 | 20.55 | 20.61 |
| | | 1 | 24 | 20.54 | 20.62 | 20.88 |
| | | 1 | 49 | 20.43 | 20.89 | 20.75 |
| | | 25 | 0 | 20.10 | 20.20 | 20.60 |
| | | 25 | 12 | 19.98 | 20.13 | 20.04 |
| | | 25 | 25 | 20.02 | 20.24 | 20.00 |
| | | 50 | 0 | 20.00 | 19.94 | 20.07 |
| | 256QAM | 1 | 0 | 18.92 | 19.59 | 19.30 |
| | | 1 | 24 | 19.35 | 19.29 | 18.96 |
| | | 1 | 49 | 19.40 | 19.73 | 19.55 |
| | | 25 | 0 | 19.35 | 19.18 | 19.22 |
| | | 25 | 12 | 19.52 | 19.85 | 18.99 |
| | | 25 | 25 | 19.45 | 19.38 | 18.93 |
| | | 50 | 0 | 18.97 | 19.63 | 19.21 |

| LTE Band 13 | | | | | | |
|-------------|-----------|-----------------|----|-------|-------|-------|
| BW | MCS Index | Channel | | 23205 | 23230 | 23255 |
| | | Frequency (MHz) | | 779.5 | 782 | 784.5 |
| 5M | QPSK | 1 | 0 | 22.95 | 22.66 | 22.93 |
| | | 1 | 12 | 22.52 | 22.54 | 22.85 |
| | | 1 | 24 | 22.74 | 22.86 | 22.79 |
| | | 12 | 0 | 22.24 | 22.52 | 21.83 |
| | | 12 | 6 | 22.13 | 22.39 | 22.43 |
| | | 12 | 13 | 22.55 | 22.42 | 22.41 |
| | | 25 | 0 | 21.85 | 22.02 | 21.94 |
| | 16QAM | 1 | 0 | 21.63 | 21.39 | 21.85 |
| | | 1 | 12 | 21.52 | 21.78 | 21.76 |
| | | 1 | 24 | 21.48 | 21.69 | 21.69 |
| | | 12 | 0 | 20.91 | 21.51 | 21.48 |
| | | 12 | 6 | 21.20 | 21.16 | 21.07 |
| | | 12 | 13 | 21.24 | 21.58 | 21.10 |
| | | 25 | 0 | 21.33 | 21.60 | 21.19 |
| | 64QAM | 1 | 0 | 20.59 | 20.52 | 20.96 |
| | | 1 | 12 | 20.63 | 20.80 | 20.69 |
| | | 1 | 24 | 21.03 | 20.85 | 20.56 |
| | | 12 | 0 | 20.04 | 20.33 | 20.27 |
| | | 12 | 6 | 20.17 | 20.18 | 20.11 |
| | | 12 | 13 | 20.65 | 20.30 | 20.19 |
| | | 25 | 0 | 20.44 | 20.06 | 20.16 |
| | 256QAM | 1 | 0 | 19.92 | 19.87 | 18.85 |
| | | 1 | 12 | 19.27 | 18.92 | 18.87 |
| | | 1 | 24 | 19.54 | 19.19 | 19.64 |
| | | 12 | 0 | 19.13 | 19.05 | 19.04 |
| | | 12 | 6 | 19.23 | 19.66 | 19.00 |
| | | 12 | 13 | 19.32 | 19.06 | 19.17 |
| | | 25 | 0 | 19.09 | 19.59 | 19.00 |

| LTE Band 13 | | | | |
|-------------|-----------|-----------------|----|--------------|
| BW | MCS Index | Channel | | 23230 |
| | | Frequency (MHz) | | 782 |
| 10M | QPSK | 1 | 0 | 22.95 |
| | | 1 | 24 | 22.90 |
| | | 1 | 49 | 22.62 |
| | | 25 | 0 | 22.15 |
| | | 25 | 12 | 22.55 |
| | | 25 | 25 | 22.47 |
| | | 50 | 0 | 22.41 |
| | 16QAM | 1 | 0 | 21.74 |
| | | 1 | 24 | 21.72 |
| | | 1 | 49 | 21.59 |
| | | 25 | 0 | 21.04 |
| | | 25 | 12 | 20.96 |
| | | 25 | 25 | 21.61 |
| | | 50 | 0 | 21.04 |
| | 64QAM | 1 | 0 | 20.77 |
| | | 1 | 24 | 20.91 |
| | | 1 | 49 | 20.54 |
| | | 25 | 0 | 20.19 |
| | | 25 | 12 | 20.59 |
| | | 25 | 25 | 20.39 |
| | | 50 | 0 | 20.19 |
| | 256QAM | 1 | 0 | 19.80 |
| | | 1 | 24 | 19.13 |
| | | 1 | 49 | 19.03 |
| | | 25 | 0 | 19.34 |
| | | 25 | 12 | 19.32 |
| | | 25 | 25 | 18.98 |
| | | 50 | 0 | 19.63 |

| LTE Band 30 | | | | | | |
|-------------|-----------|-----------------|----|--------------|--------------|--------------|
| BW | MCS Index | Channel | | 27685 | 27710 | 27735 |
| | | Frequency (MHz) | | 2307.5 | 2310 | 2312.5 |
| 5M | QPSK | 1 | 0 | 21.11 | 21.07 | 21.18 |
| | | 1 | 12 | 20.98 | 21.04 | 21.41 |
| | | 1 | 24 | 21.10 | 20.86 | 21.14 |
| | | 12 | 0 | 20.26 | 20.42 | 20.29 |
| | | 12 | 6 | 20.37 | 20.28 | 20.48 |
| | | 12 | 13 | 20.20 | 20.16 | 20.44 |
| | | 25 | 0 | 20.14 | 20.20 | 20.32 |
| | 16QAM | 1 | 0 | 20.54 | 20.53 | 20.64 |
| | | 1 | 12 | 20.95 | 20.73 | 20.66 |
| | | 1 | 24 | 20.68 | 20.53 | 20.51 |
| | | 12 | 0 | 19.24 | 19.17 | 19.14 |
| | | 12 | 6 | 19.23 | 19.31 | 19.19 |
| | | 12 | 13 | 19.08 | 19.01 | 19.12 |
| | | 25 | 0 | 19.27 | 19.25 | 19.28 |
| | 64QAM | 1 | 0 | 19.51 | 19.88 | 19.70 |
| | | 1 | 12 | 19.64 | 19.67 | 19.64 |
| | | 1 | 24 | 19.65 | 19.80 | 19.75 |
| | | 12 | 0 | 18.20 | 18.16 | 18.33 |
| | | 12 | 6 | 18.45 | 17.96 | 18.38 |
| | | 12 | 13 | 18.27 | 18.01 | 18.13 |
| | | 25 | 0 | 18.43 | 18.39 | 18.01 |
| | 256QAM | 1 | 0 | 18.87 | 19.06 | 19.18 |
| | | 1 | 12 | 18.82 | 19.13 | 19.05 |
| | | 1 | 24 | 18.90 | 18.99 | 18.94 |
| | | 12 | 0 | 18.99 | 18.59 | 19.02 |
| | | 12 | 6 | 19.09 | 18.72 | 18.81 |
| | | 12 | 13 | 19.02 | 19.01 | 19.07 |
| | | 25 | 0 | 18.95 | 19.10 | 19.12 |

Note: LTE Band 30 measurement results are in dBm/5MHz.

| LTE Band 30 | | | | |
|-------------|-----------|-----------------|----|--------------|
| BW | MCS Index | Channel | | 27710 |
| | | Frequency (MHz) | | 2310 |
| 10M | QPSK | 1 | 0 | 21.16 |
| | | 1 | 24 | 21.05 |
| | | 1 | 49 | 20.88 |
| | | 25 | 0 | 20.32 |
| | | 25 | 12 | 20.03 |
| | | 25 | 25 | 20.14 |
| | | 50 | 0 | 20.17 |
| | 16QAM | 1 | 0 | 20.91 |
| | | 1 | 24 | 20.95 |
| | | 1 | 49 | 20.76 |
| | | 25 | 0 | 19.31 |
| | | 25 | 12 | 19.30 |
| | | 25 | 25 | 19.21 |
| | | 50 | 0 | 19.33 |
| | 64QAM | 1 | 0 | 19.86 |
| | | 1 | 24 | 19.48 |
| | | 1 | 49 | 19.51 |
| | | 25 | 0 | 18.46 |
| | | 25 | 12 | 18.15 |
| | | 25 | 25 | 18.24 |
| | | 50 | 0 | 18.38 |
| | 256QAM | 1 | 0 | 18.99 |
| | | 1 | 24 | 18.82 |
| | | 1 | 49 | 18.86 |
| | | 25 | 0 | 18.94 |
| | | 25 | 12 | 19.14 |
| | | 25 | 25 | 18.77 |
| | | 50 | 0 | 18.70 |

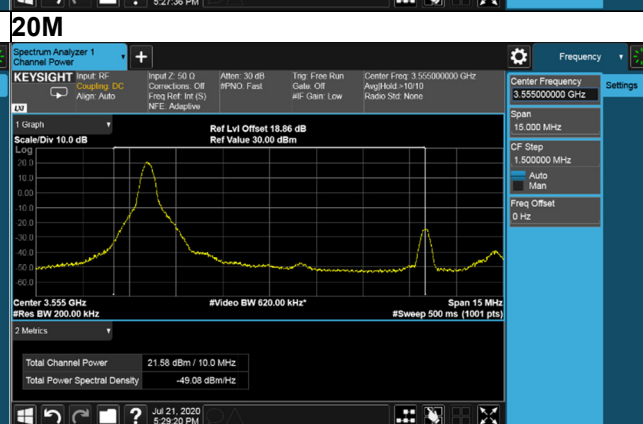
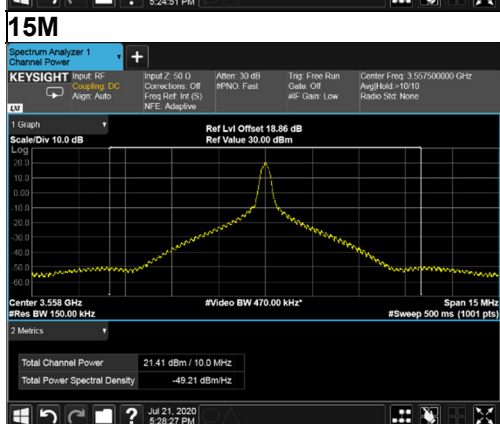
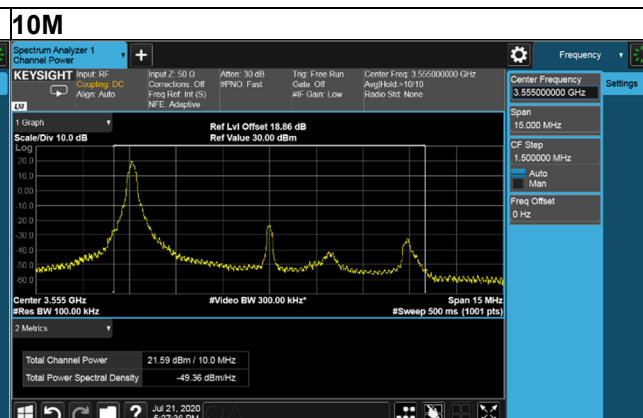
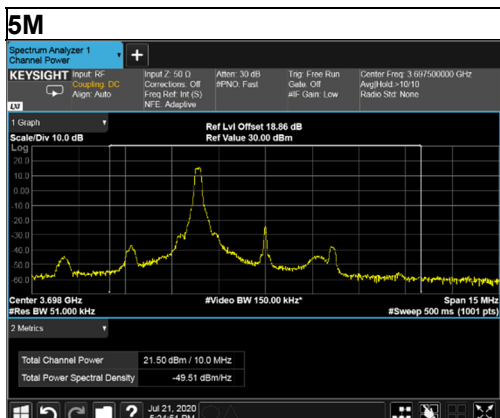
Note: LTE Band 30 measurement results are in dBm/5MHz.

| LTE Band 48 (Per 10M) | | | | | | |
|-----------------------|-----------|-----------------|----|--------------|-------|--------------|
| BW | MCS Index | Channel | | 55265 | 55990 | 56715 |
| | | Frequency (MHz) | | 3552.5 | 3625 | 3697.5 |
| 5M | QPSK | 1 | 0 | 21.26 | 21.22 | 21.50 |
| | | 1 | 12 | 20.94 | 21.48 | 21.32 |
| | | 1 | 24 | 21.29 | 21.28 | 20.91 |
| | | 12 | 0 | 20.57 | 20.50 | 20.98 |
| | | 12 | 6 | 20.47 | 20.90 | 20.93 |
| | | 12 | 13 | 20.22 | 20.89 | 20.42 |
| | | 25 | 0 | 20.78 | 20.13 | 20.83 |
| | 16QAM | 1 | 0 | 20.56 | 20.38 | 19.89 |
| | | 1 | 12 | 20.43 | 20.05 | 20.36 |
| | | 1 | 24 | 19.95 | 20.37 | 20.36 |
| | | 12 | 0 | 19.84 | 19.74 | 19.84 |
| | | 12 | 6 | 19.75 | 19.87 | 19.62 |
| | | 12 | 13 | 20.09 | 19.74 | 19.62 |
| | | 25 | 0 | 19.73 | 19.66 | 19.68 |
| | 64QAM | 1 | 0 | 19.00 | 19.10 | 19.22 |
| | | 1 | 12 | 19.14 | 19.23 | 19.17 |
| | | 1 | 24 | 19.07 | 19.05 | 19.37 |
| | | 12 | 0 | 18.37 | 18.50 | 18.75 |
| | | 12 | 6 | 18.22 | 18.34 | 18.71 |
| | | 12 | 13 | 18.85 | 18.93 | 18.32 |
| | | 25 | 0 | 18.58 | 18.52 | 18.55 |
| | 256QAM | 1 | 0 | 18.17 | 18.02 | 18.19 |
| | | 1 | 12 | 18.47 | 18.14 | 18.45 |
| | | 1 | 24 | 17.74 | 18.13 | 18.38 |
| | | 12 | 0 | 17.28 | 17.49 | 17.73 |
| | | 12 | 6 | 17.42 | 17.29 | 17.85 |
| | | 12 | 13 | 17.81 | 18.10 | 17.31 |
| | | 25 | 0 | 17.96 | 17.68 | 17.93 |

| LTE Band 48 (Per 10M) | | | | | | |
|-----------------------|-----------|-----------------|----|-------|-------|-------|
| BW | MCS Index | Channel | | 55290 | 55990 | 56690 |
| | | Frequency (MHz) | | 3555 | 3625 | 3695 |
| 10M | QPSK | 1 | 0 | 21.59 | 21.15 | 21.10 |
| | | 1 | 24 | 21.50 | 21.14 | 21.18 |
| | | 1 | 49 | 21.52 | 21.25 | 21.00 |
| | | 25 | 0 | 21.00 | 20.91 | 20.83 |
| | | 25 | 12 | 20.89 | 20.35 | 20.35 |
| | | 25 | 25 | 20.48 | 20.53 | 20.86 |
| | | 50 | 0 | 20.69 | 20.41 | 20.99 |
| | 16QAM | 1 | 0 | 20.00 | 20.50 | 20.35 |
| | | 1 | 24 | 20.49 | 20.04 | 20.59 |
| | | 1 | 49 | 20.40 | 20.60 | 20.30 |
| | | 25 | 0 | 19.45 | 19.61 | 19.40 |
| | | 25 | 12 | 19.74 | 19.19 | 19.32 |
| | | 25 | 25 | 19.56 | 19.40 | 19.70 |
| | | 50 | 0 | 19.94 | 19.32 | 19.78 |
| | 64QAM | 1 | 0 | 19.31 | 19.51 | 19.19 |
| | | 1 | 24 | 19.25 | 19.44 | 19.37 |
| | | 1 | 49 | 19.37 | 19.37 | 18.89 |
| | | 25 | 0 | 18.25 | 18.51 | 18.40 |
| | | 25 | 12 | 18.58 | 18.69 | 18.54 |
| | | 25 | 25 | 18.74 | 18.24 | 18.25 |
| | | 50 | 0 | 18.61 | 18.73 | 18.52 |
| | 256QAM | 1 | 0 | 17.87 | 18.39 | 18.08 |
| | | 1 | 24 | 18.79 | 18.55 | 17.89 |
| | | 1 | 49 | 18.55 | 18.13 | 18.14 |
| | | 25 | 0 | 17.54 | 17.74 | 17.47 |
| | | 25 | 12 | 17.38 | 17.45 | 17.57 |
| | | 25 | 25 | 17.62 | 17.64 | 17.75 |
| | | 50 | 0 | 17.92 | 17.57 | 17.47 |

| LTE Band 48 (Per 10M) | | | | | | |
|-----------------------|-----------|-----------------|----|--------------|--------------|--------------|
| BW | MCS Index | Channel | | 55315 | 55990 | 56665 |
| | | Frequency (MHz) | | 3557.5 | 3625 | 3692.5 |
| 15M | QPSK | 1 | 0 | 21.26 | 21.20 | 21.18 |
| | | 1 | 37 | 21.41 | 21.10 | 20.91 |
| | | 1 | 74 | 21.36 | 21.19 | 21.25 |
| | | 36 | 0 | 20.24 | 20.66 | 20.12 |
| | | 36 | 19 | 20.54 | 20.41 | 21.07 |
| | | 36 | 39 | 20.40 | 20.44 | 20.79 |
| | | 75 | 0 | 18.44 | 18.77 | 18.42 |
| | 16QAM | 1 | 0 | 20.20 | 19.94 | 20.20 |
| | | 1 | 37 | 20.50 | 20.19 | 20.26 |
| | | 1 | 74 | 20.56 | 20.02 | 20.38 |
| | | 36 | 0 | 19.31 | 19.31 | 19.58 |
| | | 36 | 19 | 19.06 | 19.34 | 19.30 |
| | | 36 | 39 | 19.48 | 19.54 | 19.40 |
| | | 75 | 0 | 17.38 | 17.79 | 17.47 |
| | 64QAM | 1 | 0 | 19.26 | 19.15 | 19.37 |
| | | 1 | 37 | 19.23 | 19.22 | 19.55 |
| | | 1 | 74 | 19.13 | 19.33 | 19.37 |
| | | 36 | 0 | 18.90 | 18.63 | 18.36 |
| | | 36 | 19 | 18.53 | 18.71 | 18.85 |
| | | 36 | 39 | 18.43 | 18.09 | 18.21 |
| | | 75 | 0 | 16.96 | 16.35 | 16.75 |
| | 256QAM | 1 | 0 | 18.23 | 18.44 | 18.25 |
| | | 1 | 37 | 17.67 | 18.53 | 17.91 |
| | | 1 | 74 | 18.15 | 18.14 | 18.13 |
| | | 36 | 0 | 17.88 | 17.38 | 16.82 |
| | | 36 | 19 | 17.41 | 16.86 | 17.25 |
| | | 36 | 39 | 17.46 | 17.15 | 17.02 |
| | | 75 | 0 | 16.75 | 17.76 | 17.24 |

| LTE Band 48 (Per 10M) | | | | | | |
|-----------------------|-----------|-----------------|----|--------------|--------------|--------------|
| BW | MCS Index | Channel | | 55340 | 55990 | 56640 |
| | | Frequency (MHz) | | 3560 | 3625 | 3690 |
| 20M | QPSK | 1 | 0 | 21.58 | 21.42 | 21.52 |
| | | 1 | 50 | 21.41 | 21.01 | 21.35 |
| | | 1 | 99 | 21.40 | 20.93 | 21.17 |
| | | 50 | 0 | 20.97 | 20.96 | 20.81 |
| | | 50 | 25 | 20.23 | 20.77 | 20.56 |
| | | 50 | 50 | 20.42 | 20.80 | 20.40 |
| | | 100 | 0 | 17.37 | 17.27 | 17.85 |
| | 16QAM | 1 | 0 | 20.15 | 20.34 | 19.95 |
| | | 1 | 50 | 20.21 | 20.33 | 20.20 |
| | | 1 | 99 | 20.38 | 20.11 | 20.25 |
| | | 50 | 0 | 19.37 | 19.70 | 19.38 |
| | | 50 | 25 | 19.80 | 19.68 | 19.51 |
| | | 50 | 50 | 19.60 | 19.56 | 19.77 |
| | | 100 | 0 | 16.57 | 16.49 | 16.72 |
| | 64QAM | 1 | 0 | 19.10 | 19.47 | 19.55 |
| | | 1 | 50 | 18.97 | 19.35 | 19.35 |
| | | 1 | 99 | 19.45 | 19.06 | 19.51 |
| | | 50 | 0 | 19.00 | 18.91 | 18.91 |
| | | 50 | 25 | 18.35 | 18.80 | 18.51 |
| | | 50 | 50 | 18.75 | 18.80 | 18.70 |
| | | 100 | 0 | 15.58 | 15.94 | 15.39 |
| | 256QAM | 1 | 0 | 18.50 | 17.65 | 18.20 |
| | | 1 | 50 | 18.08 | 18.00 | 17.98 |
| | | 1 | 99 | 17.71 | 17.81 | 17.90 |
| | | 50 | 0 | 16.92 | 16.91 | 16.96 |
| | | 50 | 25 | 17.71 | 16.87 | 17.19 |
| | | 50 | 50 | 17.20 | 17.79 | 17.49 |
| | | 100 | 0 | 17.12 | 17.57 | 17.09 |

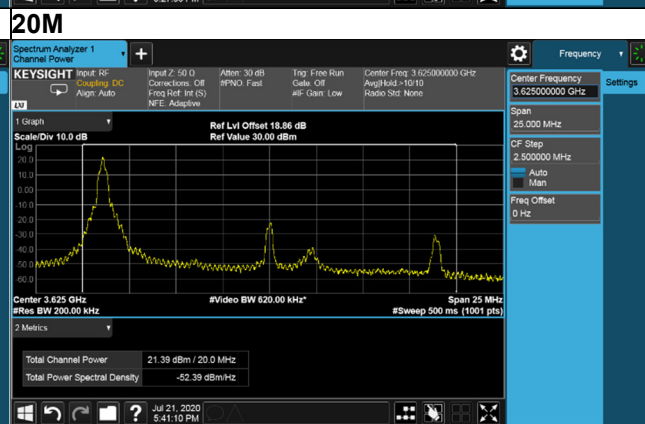
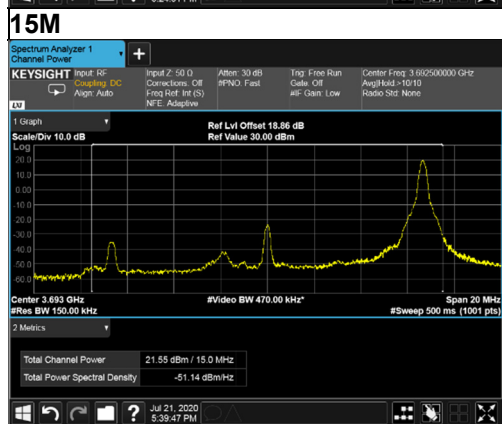
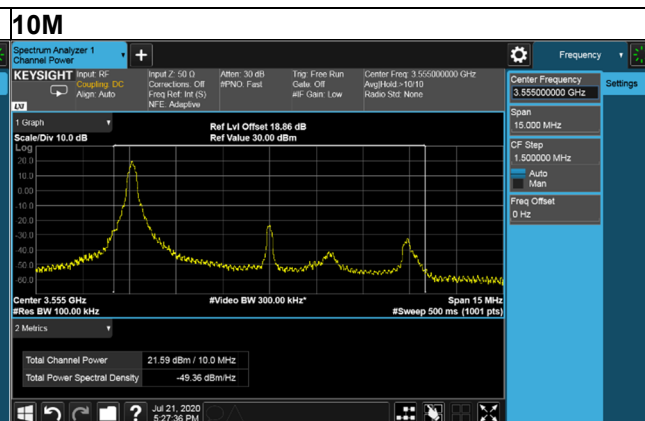
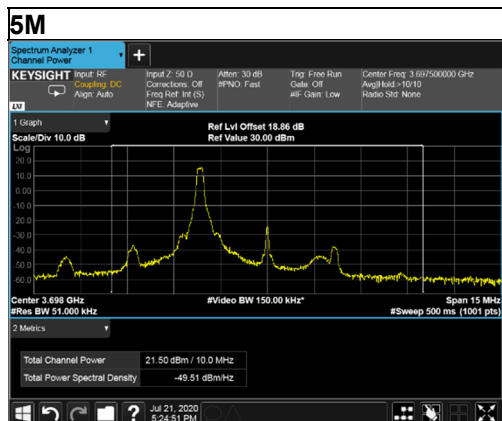


| LTE Band 48 (Full Power) | | | | | | |
|--------------------------|-----------|-----------------|----|--------------|-------|--------------|
| BW | MCS Index | Channel | | 55265 | 55990 | 56715 |
| | | Frequency (MHz) | | 3552.5 | 3625 | 3697.5 |
| 5M | QPSK | 1 | 0 | 21.26 | 21.22 | 21.50 |
| | | 1 | 12 | 20.94 | 21.48 | 21.32 |
| | | 1 | 24 | 21.29 | 21.28 | 20.91 |
| | | 12 | 0 | 20.57 | 20.50 | 20.98 |
| | | 12 | 6 | 20.47 | 20.90 | 20.93 |
| | | 12 | 13 | 20.22 | 20.89 | 20.42 |
| | | 25 | 0 | 20.78 | 20.13 | 20.83 |
| | 16QAM | 1 | 0 | 20.56 | 20.38 | 19.89 |
| | | 1 | 12 | 20.43 | 20.05 | 20.36 |
| | | 1 | 24 | 19.95 | 20.37 | 20.36 |
| | | 12 | 0 | 19.84 | 19.74 | 19.84 |
| | | 12 | 6 | 19.75 | 19.87 | 19.62 |
| | | 12 | 13 | 20.09 | 19.74 | 19.62 |
| | | 25 | 0 | 19.73 | 19.66 | 19.68 |
| | 64QAM | 1 | 0 | 19.00 | 19.10 | 19.22 |
| | | 1 | 12 | 19.14 | 19.23 | 19.17 |
| | | 1 | 24 | 19.07 | 19.05 | 19.37 |
| | | 12 | 0 | 18.37 | 18.50 | 18.75 |
| | | 12 | 6 | 18.22 | 18.34 | 18.71 |
| | | 12 | 13 | 18.85 | 18.93 | 18.32 |
| | | 25 | 0 | 18.58 | 18.52 | 18.55 |
| | 256QAM | 1 | 0 | 18.17 | 18.02 | 18.19 |
| | | 1 | 12 | 18.47 | 18.14 | 18.45 |
| | | 1 | 24 | 17.74 | 18.13 | 18.38 |
| | | 12 | 0 | 17.28 | 17.49 | 17.73 |
| | | 12 | 6 | 17.42 | 17.29 | 17.85 |
| | | 12 | 13 | 17.81 | 18.10 | 17.31 |
| | | 25 | 0 | 17.96 | 17.68 | 17.93 |

| LTE Band 48 (Full Power) | | | | | | |
|--------------------------|-----------|-----------------|----|-------|-------|-------|
| BW | MCS Index | Channel | | 55290 | 55990 | 56690 |
| | | Frequency (MHz) | | 3555 | 3625 | 3695 |
| 10M | QPSK | 1 | 0 | 21.59 | 21.15 | 21.10 |
| | | 1 | 24 | 21.50 | 21.14 | 21.18 |
| | | 1 | 49 | 21.52 | 21.25 | 21.00 |
| | | 25 | 0 | 21.00 | 20.91 | 20.83 |
| | | 25 | 12 | 20.89 | 20.35 | 20.35 |
| | | 25 | 25 | 20.48 | 20.53 | 20.86 |
| | | 50 | 0 | 20.69 | 20.41 | 20.99 |
| | 16QAM | 1 | 0 | 20.00 | 20.50 | 20.35 |
| | | 1 | 24 | 20.49 | 20.04 | 20.59 |
| | | 1 | 49 | 20.40 | 20.60 | 20.30 |
| | | 25 | 0 | 19.45 | 19.61 | 19.40 |
| | | 25 | 12 | 19.74 | 19.19 | 19.32 |
| | | 25 | 25 | 19.56 | 19.40 | 19.70 |
| | | 50 | 0 | 19.94 | 19.32 | 19.78 |
| | 64QAM | 1 | 0 | 19.31 | 19.51 | 19.19 |
| | | 1 | 24 | 19.25 | 19.44 | 19.37 |
| | | 1 | 49 | 19.37 | 19.37 | 18.89 |
| | | 25 | 0 | 18.25 | 18.51 | 18.40 |
| | | 25 | 12 | 18.58 | 18.69 | 18.54 |
| | | 25 | 25 | 18.74 | 18.24 | 18.25 |
| | | 50 | 0 | 18.61 | 18.73 | 18.52 |
| | 256QAM | 1 | 0 | 17.87 | 18.39 | 18.08 |
| | | 1 | 24 | 18.79 | 18.55 | 17.89 |
| | | 1 | 49 | 18.55 | 18.13 | 18.14 |
| | | 25 | 0 | 17.54 | 17.74 | 17.47 |
| | | 25 | 12 | 17.38 | 17.45 | 17.57 |
| | | 25 | 25 | 17.62 | 17.64 | 17.75 |
| | | 50 | 0 | 17.92 | 17.57 | 17.47 |

| LTE Band 48 (Full Power) | | | | | | |
|--------------------------|-----------|-----------------|----|--------------|-------|--------------|
| BW | MCS Index | Channel | | 55315 | 55990 | 56665 |
| | | Frequency (MHz) | | 3557.5 | 3625 | 3692.5 |
| 15M | QPSK | 1 | 0 | 21.41 | 21.13 | 21.16 |
| | | 1 | 37 | 21.07 | 21.32 | 21.22 |
| | | 1 | 74 | 21.50 | 21.40 | 21.55 |
| | | 36 | 0 | 20.70 | 20.23 | 20.25 |
| | | 36 | 19 | 20.39 | 20.59 | 20.82 |
| | | 36 | 39 | 20.62 | 20.41 | 20.76 |
| | | 75 | 0 | 20.89 | 20.57 | 20.44 |
| | 16QAM | 1 | 0 | 20.05 | 20.06 | 20.21 |
| | | 1 | 37 | 19.98 | 19.85 | 20.17 |
| | | 1 | 74 | 20.45 | 20.33 | 20.26 |
| | | 36 | 0 | 19.35 | 19.38 | 19.42 |
| | | 36 | 19 | 19.90 | 19.45 | 19.43 |
| | | 36 | 39 | 19.61 | 19.23 | 19.69 |
| | | 75 | 0 | 19.65 | 19.99 | 19.49 |
| | 64QAM | 1 | 0 | 19.44 | 19.25 | 19.33 |
| | | 1 | 37 | 19.02 | 19.14 | 19.15 |
| | | 1 | 74 | 19.37 | 19.20 | 19.08 |
| | | 36 | 0 | 18.89 | 18.61 | 18.34 |
| | | 36 | 19 | 18.38 | 18.31 | 18.41 |
| | | 36 | 39 | 18.62 | 18.41 | 18.65 |
| | | 75 | 0 | 18.49 | 18.78 | 18.47 |
| | 256QAM | 1 | 0 | 18.15 | 18.60 | 18.38 |
| | | 1 | 37 | 17.69 | 18.63 | 18.06 |
| | | 1 | 74 | 18.66 | 18.47 | 18.22 |
| | | 36 | 0 | 18.18 | 17.73 | 17.13 |
| | | 36 | 19 | 17.64 | 17.10 | 17.43 |
| | | 36 | 39 | 17.59 | 17.60 | 17.23 |
| | | 75 | 0 | 17.12 | 17.94 | 17.51 |

| LTE Band 48 (Full Power) | | | | | | |
|--------------------------|-----------|-----------------|----|-------|--------------|--------------|
| BW | MCS Index | Channel | | 55340 | 55990 | 56640 |
| | | Frequency (MHz) | | 3560 | 3625 | 3690 |
| 20M | QPSK | 1 | 0 | 20.97 | 21.39 | 21.28 |
| | | 1 | 50 | 21.29 | 21.25 | 21.29 |
| | | 1 | 99 | 21.20 | 21.30 | 21.29 |
| | | 50 | 0 | 20.26 | 20.48 | 20.25 |
| | | 50 | 25 | 20.79 | 20.69 | 20.76 |
| | | 50 | 50 | 20.56 | 20.39 | 20.60 |
| | | 100 | 0 | 20.60 | 20.80 | 20.90 |
| | 16QAM | 1 | 0 | 20.32 | 20.02 | 20.25 |
| | | 1 | 50 | 20.22 | 20.22 | 20.04 |
| | | 1 | 99 | 20.12 | 20.07 | 20.48 |
| | | 50 | 0 | 19.77 | 19.39 | 19.52 |
| | | 50 | 25 | 19.86 | 19.65 | 19.11 |
| | | 50 | 50 | 19.49 | 19.56 | 19.57 |
| | | 100 | 0 | 19.73 | 19.92 | 19.23 |
| | 64QAM | 1 | 0 | 19.19 | 19.17 | 19.35 |
| | | 1 | 50 | 19.17 | 19.56 | 19.06 |
| | | 1 | 99 | 19.14 | 19.47 | 19.31 |
| | | 50 | 0 | 18.34 | 18.40 | 18.28 |
| | | 50 | 25 | 18.89 | 18.59 | 18.82 |
| | | 50 | 50 | 18.64 | 19.05 | 18.37 |
| | | 100 | 0 | 18.23 | 18.54 | 18.12 |
| | 256QAM | 1 | 0 | 18.33 | 17.80 | 18.68 |
| | | 1 | 50 | 18.34 | 18.22 | 18.26 |
| | | 1 | 99 | 18.30 | 18.35 | 18.21 |
| | | 50 | 0 | 17.20 | 17.43 | 17.51 |
| | | 50 | 25 | 17.70 | 17.21 | 17.93 |
| | | 50 | 50 | 17.42 | 17.97 | 17.54 |
| | | 100 | 0 | 17.50 | 18.00 | 17.46 |



| LTE Band 71 | | | | | | |
|-------------|-----------|-----------------|----|--------------|--------------|--------------|
| BW | MCS Index | Channel | | 133147 | 133297 | 133447 |
| | | Frequency (MHz) | | 665.5 | 680.5 | 695.5 |
| 5M | QPSK | 1 | 0 | 22.79 | 22.73 | 22.87 |
| | | 1 | 12 | 22.84 | 22.93 | 22.78 |
| | | 1 | 24 | 22.64 | 22.60 | 22.74 |
| | | 12 | 0 | 22.06 | 22.62 | 22.24 |
| | | 12 | 6 | 22.70 | 22.43 | 22.30 |
| | | 12 | 13 | 22.38 | 22.23 | 22.27 |
| | | 25 | 0 | 22.01 | 22.39 | 21.93 |
| | 16QAM | 1 | 0 | 21.54 | 21.90 | 21.63 |
| | | 1 | 12 | 21.57 | 21.84 | 21.48 |
| | | 1 | 24 | 21.53 | 21.76 | 21.48 |
| | | 12 | 0 | 21.40 | 21.15 | 21.08 |
| | | 12 | 6 | 21.18 | 21.04 | 21.54 |
| | | 12 | 13 | 21.05 | 21.43 | 21.17 |
| | | 25 | 0 | 21.18 | 21.11 | 21.11 |
| | 64QAM | 1 | 0 | 20.46 | 20.71 | 20.68 |
| | | 1 | 12 | 20.89 | 20.44 | 20.71 |
| | | 1 | 24 | 20.72 | 20.55 | 20.95 |
| | | 12 | 0 | 20.18 | 19.86 | 20.70 |
| | | 12 | 6 | 20.54 | 20.33 | 20.35 |
| | | 12 | 13 | 20.45 | 20.32 | 20.55 |
| | | 25 | 0 | 20.43 | 19.89 | 20.38 |
| | 256QAM | 1 | 0 | 19.86 | 19.54 | 19.64 |
| | | 1 | 12 | 19.80 | 19.32 | 19.48 |
| | | 1 | 24 | 19.67 | 19.68 | 19.69 |
| | | 12 | 0 | 19.50 | 19.19 | 19.56 |
| | | 12 | 6 | 19.58 | 19.69 | 19.65 |
| | | 12 | 13 | 19.57 | 19.21 | 19.61 |
| | | 25 | 0 | 19.56 | 19.37 | 19.48 |

| LTE Band 71 | | | | | | |
|-------------|-----------|-----------------|----|--------|--------------|--------------|
| BW | MCS Index | Channel | | 133172 | 133297 | 133422 |
| | | Frequency (MHz) | | 668 | 680.5 | 693 |
| 10M | QPSK | 1 | 0 | 22.76 | 22.79 | 22.82 |
| | | 1 | 24 | 22.73 | 22.63 | 22.70 |
| | | 1 | 49 | 22.52 | 22.57 | 22.55 |
| | | 25 | 0 | 22.09 | 22.54 | 22.43 |
| | | 25 | 12 | 22.22 | 22.07 | 21.83 |
| | | 25 | 25 | 22.27 | 22.51 | 22.09 |
| | | 50 | 0 | 21.95 | 22.44 | 22.14 |
| | 16QAM | 1 | 0 | 21.49 | 21.55 | 21.70 |
| | | 1 | 24 | 21.43 | 21.97 | 21.87 |
| | | 1 | 49 | 21.70 | 21.60 | 21.57 |
| | | 25 | 0 | 20.97 | 20.84 | 21.26 |
| | | 25 | 12 | 21.19 | 21.42 | 21.52 |
| | | 25 | 25 | 21.06 | 21.36 | 21.27 |
| | | 50 | 0 | 21.29 | 21.24 | 21.57 |
| | 64QAM | 1 | 0 | 20.71 | 20.59 | 20.90 |
| | | 1 | 24 | 20.61 | 20.75 | 20.61 |
| | | 1 | 49 | 20.59 | 20.75 | 20.91 |
| | | 25 | 0 | 20.15 | 20.29 | 20.68 |
| | | 25 | 12 | 20.47 | 20.10 | 20.17 |
| | | 25 | 25 | 20.47 | 20.03 | 20.06 |
| | | 50 | 0 | 20.15 | 20.39 | 20.21 |
| | 256QAM | 1 | 0 | 19.43 | 19.83 | 19.98 |
| | | 1 | 24 | 19.67 | 19.90 | 19.57 |
| | | 1 | 49 | 19.34 | 19.82 | 20.01 |
| | | 25 | 0 | 19.40 | 19.83 | 19.67 |
| | | 25 | 12 | 19.93 | 19.29 | 19.53 |
| | | 25 | 25 | 19.43 | 19.35 | 19.81 |
| | | 50 | 0 | 19.65 | 19.67 | 19.94 |

| LTE Band 71 | | | | | | |
|-------------|-----------|-----------------|----|--------|--------|--------|
| BW | MCS Index | Channel | | 133197 | 133297 | 133397 |
| | | Frequency (MHz) | | 670.5 | 680.5 | 690.5 |
| 15M | QPSK | 1 | 0 | 22.45 | 22.75 | 22.57 |
| | | 1 | 37 | 22.80 | 22.47 | 22.73 |
| | | 1 | 74 | 22.80 | 22.44 | 22.61 |
| | | 36 | 0 | 22.30 | 22.05 | 22.02 |
| | | 36 | 19 | 22.15 | 22.38 | 22.37 |
| | | 36 | 39 | 22.36 | 22.65 | 22.00 |
| | | 75 | 0 | 22.70 | 21.91 | 22.38 |
| | 16QAM | 1 | 0 | 21.66 | 21.75 | 21.56 |
| | | 1 | 37 | 21.63 | 21.63 | 21.64 |
| | | 1 | 74 | 21.57 | 21.76 | 21.72 |
| | | 36 | 0 | 21.13 | 20.91 | 21.21 |
| | | 36 | 19 | 21.65 | 21.48 | 21.38 |
| | | 36 | 39 | 21.00 | 21.34 | 21.49 |
| | | 75 | 0 | 21.20 | 21.63 | 21.51 |
| | 64QAM | 1 | 0 | 20.66 | 20.57 | 20.74 |
| | | 1 | 37 | 20.90 | 20.64 | 20.81 |
| | | 1 | 74 | 20.70 | 20.76 | 20.81 |
| | | 36 | 0 | 19.77 | 20.04 | 20.55 |
| | | 36 | 19 | 19.94 | 20.06 | 20.13 |
| | | 36 | 39 | 20.53 | 20.48 | 20.19 |
| | | 75 | 0 | 20.32 | 20.48 | 20.10 |
| | 256QAM | 1 | 0 | 19.51 | 19.75 | 19.99 |
| | | 1 | 37 | 19.56 | 19.69 | 19.74 |
| | | 1 | 74 | 19.23 | 19.76 | 19.89 |
| | | 36 | 0 | 19.25 | 19.88 | 19.54 |
| | | 36 | 19 | 19.54 | 19.61 | 19.60 |
| | | 36 | 39 | 19.73 | 19.12 | 19.49 |
| | | 75 | 0 | 19.26 | 19.13 | 19.42 |

| LTE Band 71 | | | | | | |
|-------------|-----------|-----------------|----|--------------|--------------|--------|
| BW | MCS Index | Channel | | 133222 | 133297 | 133372 |
| | | Frequency (MHz) | | 673 | 680.5 | 688 |
| 20M | QPSK | 1 | 0 | 22.57 | 22.85 | 22.48 |
| | | 1 | 50 | 22.53 | 22.60 | 22.62 |
| | | 1 | 99 | 22.77 | 22.42 | 22.67 |
| | | 50 | 0 | 22.51 | 22.03 | 22.35 |
| | | 50 | 25 | 21.87 | 22.41 | 22.53 |
| | | 50 | 50 | 22.44 | 21.99 | 21.98 |
| | | 100 | 0 | 22.00 | 22.47 | 22.25 |
| | 16QAM | 1 | 0 | 21.84 | 21.95 | 21.81 |
| | | 1 | 50 | 21.91 | 21.43 | 21.56 |
| | | 1 | 99 | 21.94 | 21.54 | 21.70 |
| | | 50 | 0 | 21.64 | 21.30 | 21.50 |
| | | 50 | 25 | 21.49 | 21.42 | 21.10 |
| | | 50 | 50 | 21.05 | 21.17 | 21.53 |
| | | 100 | 0 | 21.01 | 21.28 | 20.88 |
| | 64QAM | 1 | 0 | 20.84 | 20.82 | 20.63 |
| | | 1 | 50 | 20.46 | 20.63 | 20.67 |
| | | 1 | 99 | 20.70 | 20.74 | 20.64 |
| | | 50 | 0 | 20.41 | 20.45 | 19.95 |
| | | 50 | 25 | 19.97 | 19.92 | 20.38 |
| | | 50 | 50 | 20.08 | 20.35 | 20.46 |
| | | 100 | 0 | 20.41 | 19.93 | 20.61 |
| | 256QAM | 1 | 0 | 19.96 | 19.82 | 19.46 |
| | | 1 | 50 | 19.88 | 19.16 | 19.62 |
| | | 1 | 99 | 19.41 | 19.73 | 19.65 |
| | | 50 | 0 | 19.73 | 19.78 | 19.81 |
| | | 50 | 25 | 19.47 | 19.72 | 19.70 |
| | | 50 | 50 | 19.76 | 19.20 | 19.67 |
| | | 100 | 0 | 19.57 | 19.44 | 19.85 |

EIRP Power (dBm)

| n66 | | | | | | |
|-----|--------------|-----------------|----|--------------|--------------|--------------|
| BW | MCS Index | Channel | | 342500 | 349000 | 355500 |
| | | Frequency (MHz) | | 1712.5 | 1745 | 1777.5 |
| 5M | $\pi/2$ BPSK | 1 | 0 | 27.18 | 26.93 | 27.18 |
| | | 1 | 12 | 27.26 | 26.79 | 27.16 |
| | | 1 | 24 | 27.00 | 27.04 | 27.20 |
| | | 12 | 0 | 26.96 | 26.82 | 26.55 |
| | | 12 | 6 | 27.14 | 27.04 | 26.80 |
| | | 12 | 13 | 26.98 | 27.11 | 26.89 |
| | | 25 | 0 | 26.97 | 27.19 | 26.93 |
| | QPSK | 1 | 0 | 26.80 | 26.94 | 27.00 |
| | | 1 | 12 | 26.74 | 27.06 | 26.98 |
| | | 1 | 24 | 26.88 | 26.97 | 26.90 |
| | | 12 | 0 | 26.61 | 26.73 | 26.94 |
| | | 12 | 6 | 26.88 | 26.75 | 26.94 |
| | | 12 | 13 | 26.73 | 26.69 | 26.92 |
| | | 25 | 0 | 26.80 | 26.72 | 26.72 |
| | 16QAM | 1 | 0 | 26.91 | 26.57 | 26.86 |
| | | 1 | 12 | 27.10 | 26.78 | 27.04 |
| | | 1 | 24 | 26.59 | 26.82 | 26.60 |
| | | 12 | 0 | 26.58 | 26.50 | 26.54 |
| | | 12 | 6 | 26.67 | 26.90 | 26.46 |
| | | 12 | 13 | 26.72 | 26.56 | 26.73 |
| | | 25 | 0 | 26.41 | 26.68 | 26.60 |
| | 64QAM | 1 | 0 | 26.49 | 26.45 | 26.47 |
| | | 1 | 12 | 26.34 | 26.29 | 26.71 |
| | | 1 | 24 | 26.29 | 26.42 | 26.20 |
| | | 12 | 0 | 26.41 | 26.54 | 26.36 |
| | | 12 | 6 | 26.10 | 26.49 | 26.27 |
| | | 12 | 13 | 26.05 | 25.99 | 26.04 |
| | | 25 | 0 | 26.47 | 26.21 | 26.51 |
| | 256QAM | 1 | 0 | 23.70 | 24.00 | 24.12 |
| | | 1 | 12 | 23.95 | 24.06 | 23.82 |
| | | 1 | 24 | 23.69 | 23.93 | 23.91 |
| | | 12 | 0 | 23.32 | 23.69 | 23.82 |
| | | 12 | 6 | 23.73 | 23.09 | 23.25 |
| | | 12 | 13 | 23.80 | 23.25 | 23.44 |
| | | 25 | 0 | 23.62 | 23.73 | 23.13 |

*EIRP = Conducted + antenna gain (4.27dBi)

| n66 | | | | | | |
|-----|--------------|-----------------|----|--------------|--------|--------------|
| BW | MCS Index | Channel | | 343000 | 349000 | 355000 |
| | | Frequency (MHz) | | 1715 | 1745 | 1775 |
| 10M | $\pi/2$ BPSK | 1 | 0 | 27.29 | 27.04 | 27.25 |
| | | 1 | 12 | 27.06 | 27.09 | 27.01 |
| | | 1 | 24 | 27.31 | 27.18 | 26.96 |
| | | 12 | 0 | 27.14 | 26.80 | 27.15 |
| | | 12 | 6 | 26.78 | 26.89 | 27.03 |
| | | 12 | 13 | 26.88 | 27.11 | 26.68 |
| | | 25 | 0 | 26.90 | 27.01 | 26.87 |
| | QPSK | 1 | 0 | 26.69 | 26.97 | 26.76 |
| | | 1 | 12 | 27.05 | 26.92 | 26.89 |
| | | 1 | 24 | 27.18 | 26.96 | 27.00 |
| | | 12 | 0 | 26.73 | 26.76 | 26.56 |
| | | 12 | 6 | 26.73 | 26.78 | 26.75 |
| | | 12 | 13 | 26.91 | 26.83 | 26.74 |
| | | 25 | 0 | 26.53 | 26.73 | 26.72 |
| | 16QAM | 1 | 0 | 27.13 | 26.79 | 26.74 |
| | | 1 | 12 | 26.75 | 26.76 | 26.81 |
| | | 1 | 24 | 26.82 | 26.64 | 26.91 |
| | | 12 | 0 | 26.91 | 26.61 | 26.59 |
| | | 12 | 6 | 26.94 | 26.64 | 26.99 |
| | | 12 | 13 | 26.84 | 26.83 | 26.57 |
| | | 25 | 0 | 26.80 | 26.44 | 26.67 |
| | 64QAM | 1 | 0 | 26.52 | 26.27 | 26.66 |
| | | 1 | 12 | 26.62 | 26.45 | 26.83 |
| | | 1 | 24 | 26.76 | 26.63 | 26.65 |
| | | 12 | 0 | 26.46 | 26.29 | 26.28 |
| | | 12 | 6 | 26.17 | 26.48 | 26.22 |
| | | 12 | 13 | 26.37 | 26.37 | 26.27 |
| | | 25 | 0 | 26.30 | 26.26 | 26.49 |
| | 256QAM | 1 | 0 | 24.21 | 24.06 | 24.23 |
| | | 1 | 12 | 24.40 | 24.34 | 24.04 |
| | | 1 | 24 | 24.20 | 23.97 | 23.85 |
| | | 12 | 0 | 23.90 | 23.65 | 23.91 |
| | | 12 | 6 | 23.46 | 23.78 | 23.28 |
| | | 12 | 13 | 23.26 | 23.80 | 23.69 |
| | | 25 | 0 | 23.58 | 23.33 | 23.76 |

*EIRP = Conducted + antenna gain (4.27dBi)

| n66 | | | | | | |
|-----|--------------|-----------------|--------------|--------------|--------|--------------|
| BW | MCS Index | Channel | | 343500 | 349000 | 354500 |
| | | Frequency (MHz) | | 1717.5 | 1745 | 1772.5 |
| 15M | $\pi/2$ BPSK | 1 | 0 | 27.01 | 26.87 | 27.40 |
| | | 1 | 39 | 26.87 | 27.41 | 27.28 |
| | | 1 | 78 | 27.50 | 26.87 | 27.11 |
| | | 39 | 0 | 26.86 | 26.95 | 27.02 |
| | | 39 | 19 | 27.07 | 26.95 | 27.01 |
| | | 39 | 40 | 27.02 | 26.80 | 26.89 |
| | | 79 | 0 | 26.97 | 26.79 | 27.01 |
| | QPSK | 1 | 0 | 26.94 | 26.99 | 26.99 |
| | | 1 | 39 | 26.77 | 26.81 | 26.91 |
| | | 1 | 78 | 26.85 | 27.06 | 27.12 |
| | | 39 | 0 | 26.79 | 26.74 | 26.60 |
| | | 39 | 19 | 26.76 | 26.70 | 26.79 |
| | | 39 | 40 | 26.66 | 26.83 | 26.98 |
| | | 79 | 0 | 26.79 | 26.97 | 26.71 |
| | 16QAM | 1 | 0 | 26.96 | 26.63 | 27.04 |
| | | 1 | 39 | 26.97 | 26.76 | 27.12 |
| | | 1 | 78 | 27.06 | 26.83 | 26.97 |
| | | 39 | 0 | 26.61 | 26.67 | 26.87 |
| | | 39 | 19 | 26.91 | 26.89 | 26.59 |
| | | 39 | 40 | 26.76 | 26.80 | 26.78 |
| | | 79 | 0 | 26.48 | 26.46 | 26.64 |
| | 64QAM | 1 | 0 | 26.27 | 26.65 | 26.68 |
| | | 1 | 39 | 26.86 | 26.64 | 26.62 |
| | | 1 | 78 | 26.34 | 26.51 | 26.35 |
| | | 39 | 0 | 26.40 | 26.11 | 26.53 |
| | | 39 | 19 | 26.31 | 26.51 | 26.48 |
| | | 39 | 40 | 26.50 | 26.27 | 26.40 |
| | | 79 | 0 | 26.56 | 26.12 | 26.07 |
| | 256QAM | 1 | 0 | 23.51 | 23.94 | 23.83 |
| | | 1 | 39 | 24.06 | 24.24 | 23.56 |
| 1 | | 78 | 24.26 | 23.74 | 23.71 | |
| 39 | | 0 | 23.60 | 23.89 | 23.69 | |
| 39 | | 19 | 23.78 | 23.76 | 23.14 | |
| 39 | | 40 | 23.55 | 23.17 | 23.75 | |
| 79 | | 0 | 23.56 | 23.12 | 23.80 | |

*EIRP = Conducted + antenna gain (4.27dBi)

| n66 | | | | | | |
|-----|--------------|-----------------|--------------|--------------|--------------|--------|
| BW | MCS Index | Channel | | 344000 | 349000 | 132575 |
| | | Frequency (MHz) | | 1720 | 1745 | 1770 |
| 20M | $\pi/2$ BPSK | 1 | 0 | 26.87 | 27.10 | 26.88 |
| | | 1 | 53 | 27.05 | 27.03 | 26.94 |
| | | 1 | 105 | 27.01 | 27.33 | 27.31 |
| | | 50 | 0 | 27.03 | 26.82 | 26.63 |
| | | 50 | 25 | 26.71 | 26.77 | 27.06 |
| | | 50 | 50 | 26.87 | 26.87 | 26.89 |
| | | 106 | 0 | 27.01 | 26.77 | 26.92 |
| | QPSK | 1 | 0 | 26.94 | 27.01 | 26.94 |
| | | 1 | 53 | 27.05 | 26.85 | 26.93 |
| | | 1 | 105 | 26.91 | 26.98 | 26.79 |
| | | 50 | 0 | 26.78 | 26.83 | 26.89 |
| | | 50 | 25 | 26.72 | 26.83 | 26.92 |
| | | 50 | 50 | 26.65 | 27.01 | 26.76 |
| | | 106 | 0 | 26.45 | 26.75 | 26.82 |
| | 16QAM | 1 | 0 | 27.01 | 26.87 | 26.66 |
| | | 1 | 53 | 26.62 | 26.72 | 26.70 |
| | | 1 | 105 | 26.65 | 26.69 | 26.55 |
| | | 50 | 0 | 26.66 | 26.63 | 26.52 |
| | | 50 | 25 | 26.56 | 26.83 | 26.74 |
| | | 50 | 50 | 26.42 | 26.56 | 26.40 |
| | | 106 | 0 | 26.78 | 26.36 | 26.71 |
| | 64QAM | 1 | 0 | 26.18 | 26.74 | 26.63 |
| | | 1 | 53 | 26.69 | 26.70 | 26.61 |
| | | 1 | 105 | 26.24 | 26.54 | 26.48 |
| | | 50 | 0 | 26.53 | 26.22 | 26.16 |
| | | 50 | 25 | 26.22 | 26.33 | 26.12 |
| | | 50 | 50 | 26.33 | 26.49 | 26.47 |
| | | 106 | 0 | 26.32 | 26.27 | 26.29 |
| | 256QAM | 1 | 0 | 23.83 | 23.94 | 23.94 |
| | | 1 | 53 | 23.86 | 24.18 | 23.77 |
| 1 | | 105 | 24.34 | 23.75 | 23.48 | |
| 50 | | 0 | 23.58 | 23.98 | 23.04 | |
| 50 | | 25 | 23.19 | 23.46 | 23.84 | |
| 50 | | 50 | 23.28 | 23.53 | 23.84 | |
| 106 | | 0 | 23.25 | 23.73 | 23.93 | |

*EIRP = Conducted + antenna gain (4.27dBi)

| LTE Band 48 (Per 10M) | | | | | | |
|-----------------------|-----------|-----------------|----|--------------|-------|--------------|
| BW | MCS Index | Channel | | 55265 | 55990 | 56715 |
| | | Frequency (MHz) | | 3552.5 | 3625 | 3697.5 |
| 5M | QPSK | 1 | 0 | 22.18 | 22.14 | 22.42 |
| | | 1 | 12 | 21.86 | 22.40 | 22.24 |
| | | 1 | 24 | 22.21 | 22.20 | 21.83 |
| | | 12 | 0 | 21.49 | 21.42 | 21.90 |
| | | 12 | 6 | 21.39 | 21.82 | 21.85 |
| | | 12 | 13 | 21.14 | 21.81 | 21.34 |
| | | 25 | 0 | 21.70 | 21.05 | 21.75 |
| | 16QAM | 1 | 0 | 21.48 | 21.30 | 20.81 |
| | | 1 | 12 | 21.35 | 20.97 | 21.28 |
| | | 1 | 24 | 20.87 | 21.29 | 21.28 |
| | | 12 | 0 | 20.76 | 20.66 | 20.76 |
| | | 12 | 6 | 20.67 | 20.79 | 20.54 |
| | | 12 | 13 | 21.01 | 20.66 | 20.54 |
| | | 25 | 0 | 20.65 | 20.58 | 20.60 |
| | 64QAM | 1 | 0 | 19.92 | 20.02 | 20.14 |
| | | 1 | 12 | 20.06 | 20.15 | 20.09 |
| | | 1 | 24 | 19.99 | 19.97 | 20.29 |
| | | 12 | 0 | 19.29 | 19.42 | 19.67 |
| | | 12 | 6 | 19.14 | 19.26 | 19.63 |
| | | 12 | 13 | 19.77 | 19.85 | 19.24 |
| | | 25 | 0 | 19.50 | 19.44 | 19.47 |
| | 256QAM | 1 | 0 | 19.09 | 18.94 | 19.11 |
| | | 1 | 12 | 19.39 | 19.06 | 19.37 |
| | | 1 | 24 | 18.66 | 19.05 | 19.30 |
| | | 12 | 0 | 18.20 | 18.41 | 18.65 |
| | | 12 | 6 | 18.34 | 18.21 | 18.77 |
| | | 12 | 13 | 18.73 | 19.02 | 18.23 |
| | | 25 | 0 | 18.88 | 18.60 | 18.85 |

*EIRP = Conducted + antenna gain (0.92dBi)

| LTE Band 48 (Per 10M) | | | | | | |
|-----------------------|-----------|-----------------|----|-------|-------|-------|
| BW | MCS Index | Channel | | 55290 | 55990 | 56690 |
| | | Frequency (MHz) | | 3555 | 3625 | 3695 |
| 10M | QPSK | 1 | 0 | 22.51 | 22.07 | 22.02 |
| | | 1 | 24 | 22.42 | 22.06 | 22.10 |
| | | 1 | 49 | 22.44 | 22.17 | 21.92 |
| | | 25 | 0 | 21.92 | 21.83 | 21.75 |
| | | 25 | 12 | 21.81 | 21.27 | 21.27 |
| | | 25 | 25 | 21.40 | 21.45 | 21.78 |
| | | 50 | 0 | 21.61 | 21.33 | 21.91 |
| | 16QAM | 1 | 0 | 20.92 | 21.42 | 21.27 |
| | | 1 | 24 | 21.41 | 20.96 | 21.51 |
| | | 1 | 49 | 21.32 | 21.52 | 21.22 |
| | | 25 | 0 | 20.37 | 20.53 | 20.32 |
| | | 25 | 12 | 20.66 | 20.11 | 20.24 |
| | | 25 | 25 | 20.48 | 20.32 | 20.62 |
| | | 50 | 0 | 20.86 | 20.24 | 20.70 |
| | 64QAM | 1 | 0 | 20.23 | 20.43 | 20.11 |
| | | 1 | 24 | 20.17 | 20.36 | 20.29 |
| | | 1 | 49 | 20.29 | 20.29 | 19.81 |
| | | 25 | 0 | 19.17 | 19.43 | 19.32 |
| | | 25 | 12 | 19.50 | 19.61 | 19.46 |
| | | 25 | 25 | 19.66 | 19.16 | 19.17 |
| | | 50 | 0 | 19.53 | 19.65 | 19.44 |
| | 256QAM | 1 | 0 | 18.79 | 19.31 | 19.00 |
| | | 1 | 24 | 19.71 | 19.47 | 18.81 |
| | | 1 | 49 | 19.47 | 19.05 | 19.06 |
| | | 25 | 0 | 18.46 | 18.66 | 18.39 |
| | | 25 | 12 | 18.30 | 18.37 | 18.49 |
| | | 25 | 25 | 18.54 | 18.56 | 18.67 |
| | | 50 | 0 | 18.84 | 18.49 | 18.39 |

*EIRP = Conducted + antenna gain (0.92dBi)

| LTE Band 48 (Per 10M) | | | | | | |
|-----------------------|-----------|-----------------|----|--------|-------|--------|
| BW | MCS Index | Channel | | 55315 | 55990 | 56665 |
| | | Frequency (MHz) | | 3557.5 | 3625 | 3692.5 |
| 15M | QPSK | 1 | 0 | 22.18 | 22.12 | 22.10 |
| | | 1 | 37 | 22.33 | 22.02 | 21.83 |
| | | 1 | 74 | 22.28 | 22.11 | 22.17 |
| | | 36 | 0 | 21.16 | 21.58 | 21.04 |
| | | 36 | 19 | 21.46 | 21.33 | 21.99 |
| | | 36 | 39 | 21.32 | 21.36 | 21.71 |
| | | 75 | 0 | 19.36 | 19.69 | 19.34 |
| | 16QAM | 1 | 0 | 21.12 | 20.86 | 21.12 |
| | | 1 | 37 | 21.42 | 21.11 | 21.18 |
| | | 1 | 74 | 21.48 | 20.94 | 21.30 |
| | | 36 | 0 | 20.23 | 20.23 | 20.50 |
| | | 36 | 19 | 19.98 | 20.26 | 20.22 |
| | | 36 | 39 | 20.40 | 20.46 | 20.32 |
| | | 75 | 0 | 18.30 | 18.71 | 18.39 |
| | 64QAM | 1 | 0 | 20.18 | 20.07 | 20.29 |
| | | 1 | 37 | 20.15 | 20.14 | 20.47 |
| | | 1 | 74 | 20.05 | 20.25 | 20.29 |
| | | 36 | 0 | 19.82 | 19.55 | 19.28 |
| | | 36 | 19 | 19.45 | 19.63 | 19.77 |
| | | 36 | 39 | 19.35 | 19.01 | 19.13 |
| | | 75 | 0 | 17.88 | 17.27 | 17.67 |
| | 256QAM | 1 | 0 | 19.15 | 19.36 | 19.17 |
| | | 1 | 37 | 18.59 | 19.45 | 18.83 |
| | | 1 | 74 | 19.07 | 19.06 | 19.05 |
| | | 36 | 0 | 18.80 | 18.30 | 17.74 |
| | | 36 | 19 | 18.33 | 17.78 | 18.17 |
| | | 36 | 39 | 18.38 | 18.07 | 17.94 |
| | | 75 | 0 | 17.67 | 18.68 | 18.16 |

*EIRP = Conducted + antenna gain (0.92dBi)

| LTE Band 48 (Per 10M) | | | | | | |
|-----------------------|-----------|-----------------|----|-------|-------|-------|
| BW | MCS Index | Channel | | 55340 | 55990 | 56640 |
| | | Frequency (MHz) | | 3560 | 3625 | 3690 |
| 20M | QPSK | 1 | 0 | 22.50 | 22.34 | 22.44 |
| | | 1 | 50 | 22.33 | 21.93 | 22.27 |
| | | 1 | 99 | 22.32 | 21.85 | 22.09 |
| | | 50 | 0 | 21.89 | 21.88 | 21.73 |
| | | 50 | 25 | 21.15 | 21.69 | 21.48 |
| | | 50 | 50 | 21.34 | 21.72 | 21.32 |
| | | 100 | 0 | 18.29 | 18.19 | 18.77 |
| | 16QAM | 1 | 0 | 21.07 | 21.26 | 20.87 |
| | | 1 | 50 | 21.13 | 21.25 | 21.12 |
| | | 1 | 99 | 21.30 | 21.03 | 21.17 |
| | | 50 | 0 | 20.29 | 20.62 | 20.30 |
| | | 50 | 25 | 20.72 | 20.60 | 20.43 |
| | | 50 | 50 | 20.52 | 20.48 | 20.69 |
| | | 100 | 0 | 17.49 | 17.41 | 17.64 |
| | 64QAM | 1 | 0 | 20.02 | 20.39 | 20.47 |
| | | 1 | 50 | 19.89 | 20.27 | 20.27 |
| | | 1 | 99 | 20.37 | 19.98 | 20.43 |
| | | 50 | 0 | 19.92 | 19.83 | 19.83 |
| | | 50 | 25 | 19.27 | 19.72 | 19.43 |
| | | 50 | 50 | 19.67 | 19.72 | 19.62 |
| | | 100 | 0 | 16.50 | 16.86 | 16.31 |
| | 256QAM | 1 | 0 | 19.42 | 18.57 | 19.12 |
| | | 1 | 50 | 19.00 | 18.92 | 18.90 |
| | | 1 | 99 | 18.63 | 18.73 | 18.82 |
| | | 50 | 0 | 17.84 | 17.83 | 17.88 |
| | | 50 | 25 | 18.63 | 17.79 | 18.11 |
| | | 50 | 50 | 18.12 | 18.71 | 18.41 |
| | | 100 | 0 | 18.04 | 18.49 | 18.01 |

*EIRP = Conducted + antenna gain (0.92dBi)

| LTE Band 48 (Full Power) | | | | | | |
|--------------------------|-----------|-----------------|----|--------------|-------|--------------|
| BW | MCS Index | Channel | | 55265 | 55990 | 56715 |
| | | Frequency (MHz) | | 3552.5 | 3625 | 3697.5 |
| 5M | QPSK | 1 | 0 | 22.18 | 22.14 | 22.42 |
| | | 1 | 12 | 21.86 | 22.40 | 22.24 |
| | | 1 | 24 | 22.21 | 22.20 | 21.83 |
| | | 12 | 0 | 21.49 | 21.42 | 21.90 |
| | | 12 | 6 | 21.39 | 21.82 | 21.85 |
| | | 12 | 13 | 21.14 | 21.81 | 21.34 |
| | | 25 | 0 | 21.70 | 21.05 | 21.75 |
| | 16QAM | 1 | 0 | 21.48 | 21.30 | 20.81 |
| | | 1 | 12 | 21.35 | 20.97 | 21.28 |
| | | 1 | 24 | 20.87 | 21.29 | 21.28 |
| | | 12 | 0 | 20.76 | 20.66 | 20.76 |
| | | 12 | 6 | 20.67 | 20.79 | 20.54 |
| | | 12 | 13 | 21.01 | 20.66 | 20.54 |
| | | 25 | 0 | 20.65 | 20.58 | 20.60 |
| | 64QAM | 1 | 0 | 19.92 | 20.02 | 20.14 |
| | | 1 | 12 | 20.06 | 20.15 | 20.09 |
| | | 1 | 24 | 19.99 | 19.97 | 20.29 |
| | | 12 | 0 | 19.29 | 19.42 | 19.67 |
| | | 12 | 6 | 19.14 | 19.26 | 19.63 |
| | | 12 | 13 | 19.77 | 19.85 | 19.24 |
| | | 25 | 0 | 19.50 | 19.44 | 19.47 |
| | 256QAM | 1 | 0 | 19.09 | 18.94 | 19.11 |
| | | 1 | 12 | 19.39 | 19.06 | 19.37 |
| | | 1 | 24 | 18.66 | 19.05 | 19.30 |
| | | 12 | 0 | 18.20 | 18.41 | 18.65 |
| | | 12 | 6 | 18.34 | 18.21 | 18.77 |
| | | 12 | 13 | 18.73 | 19.02 | 18.23 |
| | | 25 | 0 | 18.88 | 18.60 | 18.85 |

*EIRP = Conducted + antenna gain (0.92dBi)

| LTE Band 48 (Full Power) | | | | | | |
|--------------------------|-----------|-----------------|----|-------|-------|-------|
| BW | MCS Index | Channel | | 55290 | 55990 | 56690 |
| | | Frequency (MHz) | | 3555 | 3625 | 3695 |
| 10M | QPSK | 1 | 0 | 22.51 | 22.07 | 22.02 |
| | | 1 | 24 | 22.42 | 22.06 | 22.10 |
| | | 1 | 49 | 22.44 | 22.17 | 21.92 |
| | | 25 | 0 | 21.92 | 21.83 | 21.75 |
| | | 25 | 12 | 21.81 | 21.27 | 21.27 |
| | | 25 | 25 | 21.40 | 21.45 | 21.78 |
| | | 50 | 0 | 21.61 | 21.33 | 21.91 |
| | 16QAM | 1 | 0 | 20.92 | 21.42 | 21.27 |
| | | 1 | 24 | 21.41 | 20.96 | 21.51 |
| | | 1 | 49 | 21.32 | 21.52 | 21.22 |
| | | 25 | 0 | 20.37 | 20.53 | 20.32 |
| | | 25 | 12 | 20.66 | 20.11 | 20.24 |
| | | 25 | 25 | 20.48 | 20.32 | 20.62 |
| | | 50 | 0 | 20.86 | 20.24 | 20.70 |
| | 64QAM | 1 | 0 | 20.23 | 20.43 | 20.11 |
| | | 1 | 24 | 20.17 | 20.36 | 20.29 |
| | | 1 | 49 | 20.29 | 20.29 | 19.81 |
| | | 25 | 0 | 19.17 | 19.43 | 19.32 |
| | | 25 | 12 | 19.50 | 19.61 | 19.46 |
| | | 25 | 25 | 19.66 | 19.16 | 19.17 |
| | | 50 | 0 | 19.53 | 19.65 | 19.44 |
| | 256QAM | 1 | 0 | 18.79 | 19.31 | 19.00 |
| | | 1 | 24 | 19.71 | 19.47 | 18.81 |
| | | 1 | 49 | 19.47 | 19.05 | 19.06 |
| | | 25 | 0 | 18.46 | 18.66 | 18.39 |
| | | 25 | 12 | 18.30 | 18.37 | 18.49 |
| | | 25 | 25 | 18.54 | 18.56 | 18.67 |
| | | 50 | 0 | 18.84 | 18.49 | 18.39 |

*EIRP = Conducted + antenna gain (0.92dBi)

| LTE Band 48 (Full Power) | | | | | | |
|--------------------------|-----------|-----------------|----|--------------|-------|--------------|
| BW | MCS Index | Channel | | 55315 | 55990 | 56665 |
| | | Frequency (MHz) | | 3557.5 | 3625 | 3692.5 |
| 15M | QPSK | 1 | 0 | 22.33 | 22.05 | 22.08 |
| | | 1 | 37 | 21.99 | 22.24 | 22.14 |
| | | 1 | 74 | 22.42 | 22.32 | 22.47 |
| | | 36 | 0 | 21.62 | 21.15 | 21.17 |
| | | 36 | 19 | 21.31 | 21.51 | 21.74 |
| | | 36 | 39 | 21.54 | 21.33 | 21.68 |
| | | 75 | 0 | 21.81 | 21.49 | 21.36 |
| | 16QAM | 1 | 0 | 20.97 | 20.98 | 21.13 |
| | | 1 | 37 | 20.90 | 20.77 | 21.09 |
| | | 1 | 74 | 21.37 | 21.25 | 21.18 |
| | | 36 | 0 | 20.27 | 20.30 | 20.34 |
| | | 36 | 19 | 20.82 | 20.37 | 20.35 |
| | | 36 | 39 | 20.53 | 20.15 | 20.61 |
| | | 75 | 0 | 20.57 | 20.91 | 20.41 |
| | 64QAM | 1 | 0 | 20.36 | 20.17 | 20.25 |
| | | 1 | 37 | 19.94 | 20.06 | 20.07 |
| | | 1 | 74 | 20.29 | 20.12 | 20.00 |
| | | 36 | 0 | 19.81 | 19.53 | 19.26 |
| | | 36 | 19 | 19.30 | 19.23 | 19.33 |
| | | 36 | 39 | 19.54 | 19.33 | 19.57 |
| | | 75 | 0 | 19.41 | 19.70 | 19.39 |
| | 256QAM | 1 | 0 | 19.07 | 19.52 | 19.30 |
| | | 1 | 37 | 18.61 | 19.55 | 18.98 |
| | | 1 | 74 | 19.58 | 19.39 | 19.14 |
| | | 36 | 0 | 19.10 | 18.65 | 18.05 |
| | | 36 | 19 | 18.56 | 18.02 | 18.35 |
| | | 36 | 39 | 18.51 | 18.52 | 18.15 |
| | | 75 | 0 | 18.04 | 18.86 | 18.43 |

*EIRP = Conducted + antenna gain (0.92dBi)

| LTE Band 48 (Full Power) | | | | | | |
|--------------------------|-----------|-----------------|----|-------|--------------|--------------|
| BW | MCS Index | Channel | | 55340 | 55990 | 56640 |
| | | Frequency (MHz) | | 3560 | 3625 | 3690 |
| 20M | QPSK | 1 | 0 | 21.89 | 22.31 | 22.20 |
| | | 1 | 50 | 22.21 | 22.17 | 22.21 |
| | | 1 | 99 | 22.12 | 22.22 | 22.21 |
| | | 50 | 0 | 21.18 | 21.40 | 21.17 |
| | | 50 | 25 | 21.71 | 21.61 | 21.68 |
| | | 50 | 50 | 21.48 | 21.31 | 21.52 |
| | | 100 | 0 | 21.52 | 21.72 | 21.82 |
| | 16QAM | 1 | 0 | 21.24 | 20.94 | 21.17 |
| | | 1 | 50 | 21.14 | 21.14 | 20.96 |
| | | 1 | 99 | 21.04 | 20.99 | 21.40 |
| | | 50 | 0 | 20.69 | 20.31 | 20.44 |
| | | 50 | 25 | 20.78 | 20.57 | 20.03 |
| | | 50 | 50 | 20.41 | 20.48 | 20.49 |
| | | 100 | 0 | 20.65 | 20.84 | 20.15 |
| | 64QAM | 1 | 0 | 20.11 | 20.09 | 20.27 |
| | | 1 | 50 | 20.09 | 20.48 | 19.98 |
| | | 1 | 99 | 20.06 | 20.39 | 20.23 |
| | | 50 | 0 | 19.26 | 19.32 | 19.20 |
| | | 50 | 25 | 19.81 | 19.51 | 19.74 |
| | | 50 | 50 | 19.56 | 19.97 | 19.29 |
| | | 100 | 0 | 19.15 | 19.46 | 19.04 |
| | 256QAM | 1 | 0 | 19.25 | 18.72 | 19.60 |
| | | 1 | 50 | 19.26 | 19.14 | 19.18 |
| | | 1 | 99 | 19.22 | 19.27 | 19.13 |
| | | 50 | 0 | 18.12 | 18.35 | 18.43 |
| | | 50 | 25 | 18.62 | 18.13 | 18.85 |
| | | 50 | 50 | 18.34 | 18.89 | 18.46 |
| | | 100 | 0 | 18.42 | 18.92 | 18.38 |

*EIRP = Conducted + antenna gain (0.92dBi)

ERP Power (dBm)

| LTE Band 5 | | | | | | |
|------------|-----------|-----------------|-----------|-------|--------------|--------------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 20407 | 20525 | 20643 |
| | | Frequency (MHz) | | 824.7 | 836.5 | 848.3 |
| 1.4M | QPSK | 1 | 0 | 24.50 | 24.05 | 24.30 |
| | | 1 | 2 | 24.25 | 24.10 | 24.57 |
| | | 1 | 5 | 24.59 | 24.60 | 24.17 |
| | | 3 | 0 | 23.95 | 23.85 | 24.05 |
| | | 3 | 1 | 24.10 | 24.11 | 24.04 |
| | | 3 | 3 | 24.26 | 23.76 | 24.32 |
| | | 6 | 0 | 24.05 | 23.91 | 24.25 |
| | 16QAM | 1 | 0 | 23.49 | 23.25 | 23.36 |
| | | 1 | 2 | 23.16 | 23.32 | 23.52 |
| | | 1 | 5 | 23.48 | 23.38 | 23.71 |
| | | 3 | 0 | 23.12 | 23.31 | 22.65 |
| | | 3 | 1 | 22.60 | 22.67 | 22.91 |
| | | 3 | 3 | 23.02 | 22.78 | 23.16 |
| | | 6 | 0 | 22.84 | 23.02 | 23.32 |
| | 64QAM | 1 | 0 | 22.09 | 22.51 | 22.72 |
| | | 1 | 2 | 22.19 | 22.49 | 22.29 |
| | | 1 | 5 | 22.35 | 22.26 | 22.53 |
| | | 3 | 0 | 21.77 | 22.05 | 22.03 |
| | | 3 | 1 | 22.12 | 21.76 | 22.29 |
| | | 3 | 3 | 21.73 | 22.13 | 21.84 |
| | | 6 | 0 | 21.61 | 22.10 | 21.72 |
| | 256QAM | 1 | 0 | 21.25 | 21.60 | 21.67 |
| | | 1 | 2 | 21.50 | 21.23 | 21.13 |
| | | 1 | 5 | 21.25 | 21.23 | 21.02 |
| | | 3 | 0 | 21.29 | 21.12 | 21.53 |
| | | 3 | 1 | 21.43 | 20.97 | 21.27 |
| | | 3 | 3 | 21.09 | 21.33 | 21.28 |
| | | 6 | 0 | 21.53 | 21.28 | 21.52 |

*ERP = Conducted + antenna gain (3.81dBi)-2.15

| LTE Band 5 | | | | | | |
|------------|-----------|-----------------|-----------|-------|-------|-------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 20415 | 20525 | 20635 |
| | | Frequency (MHz) | | 825.5 | 836.5 | 847.5 |
| 3M | QPSK | 1 | 0 | 24.07 | 24.25 | 24.31 |
| | | 1 | 7 | 24.34 | 24.52 | 24.25 |
| | | 1 | 14 | 24.47 | 24.42 | 24.47 |
| | | 8 | 0 | 24.31 | 23.84 | 24.25 |
| | | 8 | 3 | 23.95 | 24.08 | 23.71 |
| | | 8 | 7 | 24.23 | 24.19 | 23.70 |
| | | 15 | 0 | 24.10 | 23.70 | 23.67 |
| | 16QAM | 1 | 0 | 23.33 | 23.30 | 23.39 |
| | | 1 | 7 | 23.38 | 23.46 | 23.04 |
| | | 1 | 14 | 23.18 | 23.61 | 23.34 |
| | | 8 | 0 | 22.96 | 23.03 | 23.09 |
| | | 8 | 3 | 22.69 | 22.92 | 22.85 |
| | | 8 | 7 | 22.51 | 23.21 | 22.89 |
| | | 15 | 0 | 22.61 | 22.75 | 22.65 |
| | 64QAM | 1 | 0 | 22.07 | 22.23 | 22.56 |
| | | 1 | 7 | 22.47 | 22.17 | 22.51 |
| | | 1 | 14 | 22.42 | 22.45 | 22.09 |
| | | 8 | 0 | 22.19 | 22.08 | 21.98 |
| | | 8 | 3 | 22.19 | 22.00 | 21.65 |
| | | 8 | 7 | 21.76 | 21.90 | 22.10 |
| | | 15 | 0 | 21.64 | 22.22 | 21.52 |
| | 256QAM | 1 | 0 | 21.69 | 21.55 | 21.31 |
| | | 1 | 7 | 21.55 | 21.85 | 20.92 |
| | | 1 | 14 | 21.14 | 21.76 | 21.74 |
| | | 8 | 0 | 21.68 | 21.89 | 21.35 |
| | | 8 | 3 | 21.02 | 21.25 | 21.09 |
| | | 8 | 7 | 21.18 | 21.60 | 21.60 |
| | | 15 | 0 | 20.95 | 21.39 | 20.96 |

*ERP = Conducted + antenna gain (3.81dBi)-2.15

| LTE Band 5 | | | | | | |
|------------|-----------|-----------------|-----------|-------|--------------|-------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 20425 | 20525 | 20625 |
| | | Frequency (MHz) | | 826.5 | 836.5 | 846.5 |
| 5M | QPSK | 1 | 0 | 24.13 | 24.55 | 24.33 |
| | | 1 | 12 | 24.31 | 24.45 | 24.41 |
| | | 1 | 24 | 24.36 | 24.37 | 24.44 |
| | | 12 | 0 | 24.07 | 23.92 | 23.65 |
| | | 12 | 6 | 24.29 | 23.81 | 23.97 |
| | | 12 | 13 | 23.85 | 24.15 | 24.28 |
| | | 25 | 0 | 23.73 | 24.12 | 24.29 |
| | 16QAM | 1 | 0 | 23.20 | 23.58 | 23.47 |
| | | 1 | 12 | 23.22 | 23.43 | 23.52 |
| | | 1 | 24 | 23.44 | 23.32 | 23.44 |
| | | 12 | 0 | 22.79 | 23.13 | 22.73 |
| | | 12 | 6 | 22.75 | 22.59 | 22.91 |
| | | 12 | 13 | 22.63 | 23.00 | 22.83 |
| | | 25 | 0 | 22.99 | 22.54 | 22.99 |
| | 64QAM | 1 | 0 | 22.21 | 22.40 | 22.10 |
| | | 1 | 12 | 22.24 | 22.38 | 22.38 |
| | | 1 | 24 | 22.53 | 22.63 | 22.38 |
| | | 12 | 0 | 22.03 | 21.88 | 22.26 |
| | | 12 | 6 | 22.18 | 22.02 | 21.51 |
| | | 12 | 13 | 21.74 | 22.09 | 21.78 |
| | | 25 | 0 | 21.99 | 21.76 | 21.64 |
| | 256QAM | 1 | 0 | 21.58 | 20.96 | 21.49 |
| | | 1 | 12 | 21.05 | 21.05 | 21.41 |
| | | 1 | 24 | 21.64 | 21.77 | 21.31 |
| | | 12 | 0 | 21.15 | 21.77 | 20.73 |
| | | 12 | 6 | 21.22 | 21.75 | 21.27 |
| | | 12 | 13 | 21.84 | 20.77 | 21.59 |
| | | 25 | 0 | 21.80 | 22.00 | 21.28 |

*ERP = Conducted + antenna gain (3.81dBi)-2.15

| LTE Band 5 | | | | | | |
|------------|-----------|-----------------|-----------|-------|-------|-------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 20450 | 20525 | 20600 |
| | | Frequency (MHz) | | 829 | 836.5 | 844 |
| 10M | QPSK | 1 | 0 | 24.23 | 24.62 | 24.39 |
| | | 1 | 24 | 24.29 | 24.50 | 24.41 |
| | | 1 | 49 | 24.36 | 24.11 | 24.61 |
| | | 25 | 0 | 24.30 | 23.53 | 24.07 |
| | | 25 | 12 | 24.11 | 24.17 | 24.11 |
| | | 25 | 25 | 23.97 | 23.95 | 24.31 |
| | | 50 | 0 | 23.55 | 23.86 | 24.16 |
| | 16QAM | 1 | 0 | 23.24 | 23.16 | 23.59 |
| | | 1 | 24 | 23.25 | 23.48 | 23.12 |
| | | 1 | 49 | 23.47 | 23.20 | 23.21 |
| | | 25 | 0 | 23.04 | 22.84 | 23.07 |
| | | 25 | 12 | 23.04 | 22.70 | 22.95 |
| | | 25 | 25 | 23.14 | 22.79 | 22.87 |
| | | 50 | 0 | 22.88 | 22.77 | 23.17 |
| | 64QAM | 1 | 0 | 22.31 | 22.55 | 22.53 |
| | | 1 | 24 | 22.44 | 22.52 | 22.32 |
| | | 1 | 49 | 22.50 | 22.38 | 22.51 |
| | | 25 | 0 | 21.85 | 21.93 | 21.54 |
| | | 25 | 12 | 21.80 | 22.20 | 21.68 |
| | | 25 | 25 | 21.77 | 22.12 | 22.23 |
| | | 50 | 0 | 21.83 | 22.02 | 22.06 |
| | 256QAM | 1 | 0 | 21.06 | 21.94 | 21.28 |
| | | 1 | 24 | 21.16 | 21.77 | 21.50 |
| | | 1 | 49 | 21.74 | 21.29 | 20.93 |
| | | 25 | 0 | 21.90 | 21.90 | 21.04 |
| | | 25 | 12 | 21.34 | 21.47 | 21.20 |
| | | 25 | 25 | 21.62 | 20.92 | 21.74 |
| | | 50 | 0 | 21.11 | 21.03 | 20.93 |

*ERP = Conducted + antenna gain (3.81dBi)-2.15

| LTE Band 12 | | | | | | |
|-------------|-----------|-----------------|---|--------------|--------------|--------------|
| BW | MCS Index | Channel | | 23017 | 23095 | 23173 |
| | | Frequency (MHz) | | 699.7 | 707.5 | 715.3 |
| 1.4M | QPSK | 1 | 0 | 25.13 | 25.15 | 25.23 |
| | | 1 | 2 | 25.07 | 24.90 | 24.72 |
| | | 1 | 5 | 25.07 | 25.17 | 24.92 |
| | | 3 | 0 | 24.44 | 24.50 | 24.90 |
| | | 3 | 1 | 24.48 | 24.82 | 24.46 |
| | | 3 | 3 | 24.66 | 24.88 | 24.47 |
| | | 6 | 0 | 24.62 | 24.40 | 24.88 |
| | 16QAM | 1 | 0 | 23.93 | 24.26 | 23.79 |
| | | 1 | 2 | 23.99 | 23.94 | 23.90 |
| | | 1 | 5 | 24.13 | 24.10 | 23.99 |
| | | 3 | 0 | 23.13 | 23.30 | 23.19 |
| | | 3 | 1 | 23.90 | 23.58 | 23.28 |
| | | 3 | 3 | 23.63 | 23.31 | 23.51 |
| | | 6 | 0 | 23.75 | 23.29 | 23.59 |
| | 64QAM | 1 | 0 | 22.91 | 23.09 | 22.86 |
| | | 1 | 2 | 22.70 | 22.78 | 23.06 |
| | | 1 | 5 | 22.81 | 22.97 | 23.05 |
| | | 3 | 0 | 22.47 | 22.33 | 22.57 |
| | | 3 | 1 | 22.84 | 22.45 | 22.50 |
| | | 3 | 3 | 22.27 | 22.58 | 22.63 |
| | | 6 | 0 | 22.41 | 22.66 | 22.71 |
| | 256QAM | 1 | 0 | 21.27 | 21.25 | 21.24 |
| | | 1 | 2 | 22.19 | 21.96 | 21.68 |
| | | 1 | 5 | 21.24 | 22.03 | 21.60 |
| | | 3 | 0 | 21.35 | 21.30 | 21.54 |
| | | 3 | 1 | 21.67 | 21.91 | 21.42 |
| | | 3 | 3 | 21.82 | 21.34 | 21.27 |
| | | 6 | 0 | 21.99 | 21.61 | 21.49 |

*ERP = Conducted + antenna gain (4.41dBi)-2.15

| LTE Band 12 | | | | | | |
|-------------|-----------|-----------------|----|-------|-------|-------|
| BW | MCS Index | Channel | | 23025 | 23095 | 23165 |
| | | Frequency (MHz) | | 700.5 | 707.5 | 714.5 |
| 3M | QPSK | 1 | 0 | 25.24 | 25.03 | 25.16 |
| | | 1 | 7 | 25.10 | 25.09 | 24.83 |
| | | 1 | 14 | 24.90 | 24.82 | 25.02 |
| | | 8 | 0 | 24.52 | 24.72 | 24.65 |
| | | 8 | 3 | 24.32 | 24.97 | 24.49 |
| | | 8 | 7 | 24.71 | 24.58 | 24.49 |
| | | 15 | 0 | 24.45 | 24.34 | 24.66 |
| | 16QAM | 1 | 0 | 24.22 | 23.98 | 24.17 |
| | | 1 | 7 | 24.02 | 23.92 | 23.72 |
| | | 1 | 14 | 23.80 | 23.93 | 23.82 |
| | | 8 | 0 | 23.40 | 23.46 | 23.21 |
| | | 8 | 3 | 23.41 | 23.69 | 23.76 |
| | | 8 | 7 | 23.31 | 23.31 | 23.50 |
| | | 15 | 0 | 23.27 | 23.31 | 23.85 |
| | 64QAM | 1 | 0 | 22.83 | 22.94 | 23.01 |
| | | 1 | 7 | 23.24 | 23.04 | 23.20 |
| | | 1 | 14 | 22.93 | 22.76 | 22.81 |
| | | 8 | 0 | 22.74 | 22.58 | 22.58 |
| | | 8 | 3 | 22.60 | 22.79 | 22.36 |
| | | 8 | 7 | 22.35 | 22.47 | 22.38 |
| | | 15 | 0 | 22.83 | 22.56 | 22.15 |
| | 256QAM | 1 | 0 | 22.14 | 21.64 | 21.06 |
| | | 1 | 7 | 21.78 | 21.43 | 21.75 |
| | | 1 | 14 | 21.98 | 21.54 | 21.92 |
| | | 8 | 0 | 21.55 | 21.91 | 21.23 |
| | | 8 | 3 | 21.81 | 21.55 | 21.35 |
| | | 8 | 7 | 21.89 | 21.68 | 21.22 |
| | | 15 | 0 | 21.29 | 21.81 | 21.45 |

*ERP = Conducted + antenna gain (4.41dBi)-2.15

| LTE Band 12 | | | | | | |
|-------------|-----------|-----------------|----|--------------|--------------|--------------|
| BW | MCS Index | Channel | | 23035 | 23095 | 23155 |
| | | Frequency (MHz) | | 701.5 | 707.5 | 713.5 |
| 5M | QPSK | 1 | 0 | 25.01 | 24.73 | 25.14 |
| | | 1 | 12 | 24.97 | 24.71 | 25.13 |
| | | 1 | 24 | 25.07 | 24.78 | 24.88 |
| | | 12 | 0 | 24.84 | 24.29 | 24.97 |
| | | 12 | 6 | 24.33 | 24.54 | 24.14 |
| | | 12 | 13 | 24.71 | 24.65 | 24.39 |
| | | 25 | 0 | 24.93 | 24.46 | 24.65 |
| | 16QAM | 1 | 0 | 24.01 | 23.88 | 23.69 |
| | | 1 | 12 | 23.89 | 23.94 | 24.27 |
| | | 1 | 24 | 23.89 | 23.99 | 23.78 |
| | | 12 | 0 | 23.26 | 23.37 | 23.81 |
| | | 12 | 6 | 23.09 | 23.70 | 23.57 |
| | | 12 | 13 | 23.84 | 23.54 | 23.28 |
| | | 25 | 0 | 23.14 | 23.83 | 23.34 |
| | 64QAM | 1 | 0 | 22.99 | 23.09 | 23.19 |
| | | 1 | 12 | 22.97 | 22.92 | 23.05 |
| | | 1 | 24 | 23.05 | 23.20 | 23.07 |
| | | 12 | 0 | 22.37 | 22.53 | 22.42 |
| | | 12 | 6 | 22.75 | 22.68 | 22.79 |
| | | 12 | 13 | 22.33 | 22.53 | 22.23 |
| | | 25 | 0 | 22.71 | 22.68 | 22.58 |
| | 256QAM | 1 | 0 | 22.11 | 21.73 | 21.91 |
| | | 1 | 12 | 21.42 | 21.78 | 21.91 |
| | | 1 | 24 | 21.45 | 21.68 | 21.84 |
| | | 12 | 0 | 21.53 | 21.60 | 21.27 |
| | | 12 | 6 | 21.90 | 21.69 | 21.14 |
| | | 12 | 13 | 22.02 | 21.96 | 21.69 |
| | | 25 | 0 | 21.89 | 21.22 | 21.49 |

*ERP = Conducted + antenna gain (4.41dBi)-2.15

| LTE Band 12 | | | | | | |
|-------------|-----------|-----------------|----|-------|--------------|--------------|
| BW | MCS Index | Channel | | 23060 | 23095 | 23130 |
| | | Frequency (MHz) | | 704 | 707.5 | 711 |
| 10M | QPSK | 1 | 0 | 24.96 | 25.23 | 25.00 |
| | | 1 | 24 | 25.12 | 24.88 | 24.98 |
| | | 1 | 49 | 24.85 | 24.86 | 24.91 |
| | | 25 | 0 | 24.68 | 24.84 | 24.83 |
| | | 25 | 12 | 24.36 | 24.35 | 24.42 |
| | | 25 | 25 | 24.58 | 24.55 | 24.87 |
| | | 50 | 0 | 24.79 | 24.70 | 24.93 |
| | 16QAM | 1 | 0 | 23.93 | 23.95 | 23.83 |
| | | 1 | 24 | 23.91 | 23.91 | 23.97 |
| | | 1 | 49 | 23.73 | 24.00 | 24.19 |
| | | 25 | 0 | 23.12 | 23.46 | 23.43 |
| | | 25 | 12 | 23.11 | 23.22 | 23.59 |
| | | 25 | 25 | 23.37 | 23.80 | 23.56 |
| | | 50 | 0 | 23.48 | 23.21 | 23.96 |
| | 64QAM | 1 | 0 | 23.12 | 22.81 | 22.87 |
| | | 1 | 24 | 22.80 | 22.88 | 23.14 |
| | | 1 | 49 | 22.69 | 23.15 | 23.01 |
| | | 25 | 0 | 22.36 | 22.46 | 22.86 |
| | | 25 | 12 | 22.24 | 22.39 | 22.30 |
| | | 25 | 25 | 22.28 | 22.50 | 22.26 |
| | | 50 | 0 | 22.26 | 22.20 | 22.33 |
| | 256QAM | 1 | 0 | 21.18 | 21.85 | 21.56 |
| | | 1 | 24 | 21.61 | 21.55 | 21.22 |
| | | 1 | 49 | 21.66 | 21.99 | 21.81 |
| | | 25 | 0 | 21.61 | 21.44 | 21.48 |
| | | 25 | 12 | 21.78 | 22.11 | 21.25 |
| | | 25 | 25 | 21.71 | 21.64 | 21.19 |
| | | 50 | 0 | 21.23 | 21.89 | 21.47 |

*ERP = Conducted + antenna gain (4.41dBi)-2.15

| LTE Band 13 | | | | | | |
|-------------|-----------|-----------------|----|-------|-------|-------|
| BW | MCS Index | Channel | | 23205 | 23230 | 23255 |
| | | Frequency (MHz) | | 779.5 | 782 | 784.5 |
| 5M | QPSK | 1 | 0 | 25.21 | 24.92 | 25.19 |
| | | 1 | 12 | 24.78 | 24.80 | 25.11 |
| | | 1 | 24 | 25.00 | 25.12 | 25.05 |
| | | 12 | 0 | 24.50 | 24.78 | 24.09 |
| | | 12 | 6 | 24.39 | 24.65 | 24.69 |
| | | 12 | 13 | 24.81 | 24.68 | 24.67 |
| | | 25 | 0 | 24.11 | 24.28 | 24.20 |
| | 16QAM | 1 | 0 | 23.89 | 23.65 | 24.11 |
| | | 1 | 12 | 23.78 | 24.04 | 24.02 |
| | | 1 | 24 | 23.74 | 23.95 | 23.95 |
| | | 12 | 0 | 23.17 | 23.77 | 23.74 |
| | | 12 | 6 | 23.46 | 23.42 | 23.33 |
| | | 12 | 13 | 23.50 | 23.84 | 23.36 |
| | | 25 | 0 | 23.59 | 23.86 | 23.45 |
| | 64QAM | 1 | 0 | 22.85 | 22.78 | 23.22 |
| | | 1 | 12 | 22.89 | 23.06 | 22.95 |
| | | 1 | 24 | 23.29 | 23.11 | 22.82 |
| | | 12 | 0 | 22.30 | 22.59 | 22.53 |
| | | 12 | 6 | 22.43 | 22.44 | 22.37 |
| | | 12 | 13 | 22.91 | 22.56 | 22.45 |
| | | 25 | 0 | 22.70 | 22.32 | 22.42 |
| | 256QAM | 1 | 0 | 22.18 | 22.13 | 21.11 |
| | | 1 | 12 | 21.53 | 21.18 | 21.13 |
| | | 1 | 24 | 21.80 | 21.45 | 21.90 |
| | | 12 | 0 | 21.39 | 21.31 | 21.30 |
| | | 12 | 6 | 21.49 | 21.92 | 21.26 |
| | | 12 | 13 | 21.58 | 21.32 | 21.43 |
| | | 25 | 0 | 21.35 | 21.85 | 21.26 |

*ERP = Conducted + antenna gain (4.41dBi)-2.15

| LTE Band 13 | | | | |
|-------------|-----------|-----------------|----|--------------|
| BW | MCS Index | Channel | | 23230 |
| | | Frequency (MHz) | | 782 |
| 10M | QPSK | 1 | 0 | 25.21 |
| | | 1 | 24 | 25.16 |
| | | 1 | 49 | 24.88 |
| | | 25 | 0 | 24.41 |
| | | 25 | 12 | 24.81 |
| | | 25 | 25 | 24.73 |
| | | 50 | 0 | 24.67 |
| | 16QAM | 1 | 0 | 24.00 |
| | | 1 | 24 | 23.98 |
| | | 1 | 49 | 23.85 |
| | | 25 | 0 | 23.30 |
| | | 25 | 12 | 23.22 |
| | | 25 | 25 | 23.87 |
| | | 50 | 0 | 23.30 |
| | 64QAM | 1 | 0 | 23.03 |
| | | 1 | 24 | 23.17 |
| | | 1 | 49 | 22.80 |
| | | 25 | 0 | 22.45 |
| | | 25 | 12 | 22.85 |
| | | 25 | 25 | 22.65 |
| | | 50 | 0 | 22.45 |
| | 256QAM | 1 | 0 | 22.06 |
| | | 1 | 24 | 21.39 |
| | | 1 | 49 | 21.29 |
| | | 25 | 0 | 21.60 |
| | | 25 | 12 | 21.58 |
| | | 25 | 25 | 21.24 |
| | | 50 | 0 | 21.89 |

*ERP = Conducted + antenna gain (4.41dBi)-2.15

| LTE Band 71 | | | | | | |
|-------------|-----------|-----------------|----|--------------|--------------|--------------|
| BW | MCS Index | Channel | | 133147 | 133297 | 133447 |
| | | Frequency (MHz) | | 665.5 | 680.5 | 695.5 |
| 5M | QPSK | 1 | 0 | 25.05 | 24.99 | 25.13 |
| | | 1 | 12 | 25.10 | 25.19 | 25.04 |
| | | 1 | 24 | 24.90 | 24.86 | 25.00 |
| | | 12 | 0 | 24.32 | 24.88 | 24.50 |
| | | 12 | 6 | 24.96 | 24.69 | 24.56 |
| | | 12 | 13 | 24.64 | 24.49 | 24.53 |
| | | 25 | 0 | 24.27 | 24.65 | 24.19 |
| | 16QAM | 1 | 0 | 23.80 | 24.16 | 23.89 |
| | | 1 | 12 | 23.83 | 24.10 | 23.74 |
| | | 1 | 24 | 23.79 | 24.02 | 23.74 |
| | | 12 | 0 | 23.66 | 23.41 | 23.34 |
| | | 12 | 6 | 23.44 | 23.30 | 23.80 |
| | | 12 | 13 | 23.31 | 23.69 | 23.43 |
| | | 25 | 0 | 23.44 | 23.37 | 23.37 |
| | 64QAM | 1 | 0 | 22.72 | 22.97 | 22.94 |
| | | 1 | 12 | 23.15 | 22.70 | 22.97 |
| | | 1 | 24 | 22.98 | 22.81 | 23.21 |
| | | 12 | 0 | 22.44 | 22.12 | 22.96 |
| | | 12 | 6 | 22.80 | 22.59 | 22.61 |
| | | 12 | 13 | 22.71 | 22.58 | 22.81 |
| | | 25 | 0 | 22.69 | 22.15 | 22.64 |
| | 256QAM | 1 | 0 | 22.12 | 21.80 | 21.90 |
| | | 1 | 12 | 22.06 | 21.58 | 21.74 |
| | | 1 | 24 | 21.93 | 21.94 | 21.95 |
| | | 12 | 0 | 21.76 | 21.45 | 21.82 |
| | | 12 | 6 | 21.84 | 21.95 | 21.91 |
| | | 12 | 13 | 21.83 | 21.47 | 21.87 |
| | | 25 | 0 | 21.82 | 21.63 | 21.74 |

*ERP = Conducted + antenna gain (4.41dBi)-2.15

| LTE Band 71 | | | | | | |
|-------------|-----------|-----------------|----|--------|--------------|--------------|
| BW | MCS Index | Channel | | 133172 | 133297 | 133422 |
| | | Frequency (MHz) | | 668 | 680.5 | 693 |
| 10M | QPSK | 1 | 0 | 25.02 | 25.05 | 25.08 |
| | | 1 | 24 | 24.99 | 24.89 | 24.96 |
| | | 1 | 49 | 24.78 | 24.83 | 24.81 |
| | | 25 | 0 | 24.35 | 24.80 | 24.69 |
| | | 25 | 12 | 24.48 | 24.33 | 24.09 |
| | | 25 | 25 | 24.53 | 24.77 | 24.35 |
| | | 50 | 0 | 24.21 | 24.70 | 24.40 |
| | 16QAM | 1 | 0 | 23.75 | 23.81 | 23.96 |
| | | 1 | 24 | 23.69 | 24.23 | 24.13 |
| | | 1 | 49 | 23.96 | 23.86 | 23.83 |
| | | 25 | 0 | 23.23 | 23.10 | 23.52 |
| | | 25 | 12 | 23.45 | 23.68 | 23.78 |
| | | 25 | 25 | 23.32 | 23.62 | 23.53 |
| | | 50 | 0 | 23.55 | 23.50 | 23.83 |
| | 64QAM | 1 | 0 | 22.97 | 22.85 | 23.16 |
| | | 1 | 24 | 22.87 | 23.01 | 22.87 |
| | | 1 | 49 | 22.85 | 23.01 | 23.17 |
| | | 25 | 0 | 22.41 | 22.55 | 22.94 |
| | | 25 | 12 | 22.73 | 22.36 | 22.43 |
| | | 25 | 25 | 22.73 | 22.29 | 22.32 |
| | | 50 | 0 | 22.41 | 22.65 | 22.47 |
| | 256QAM | 1 | 0 | 21.69 | 22.09 | 22.24 |
| | | 1 | 24 | 21.93 | 22.16 | 21.83 |
| | | 1 | 49 | 21.60 | 22.08 | 22.27 |
| | | 25 | 0 | 21.66 | 22.09 | 21.93 |
| | | 25 | 12 | 22.19 | 21.55 | 21.79 |
| | | 25 | 25 | 21.69 | 21.61 | 22.07 |
| | | 50 | 0 | 21.91 | 21.93 | 22.20 |

*ERP = Conducted + antenna gain (4.41dBi)-2.15

| LTE Band 71 | | | | | | |
|-------------|-----------|-----------------|----|--------|--------|--------|
| BW | MCS Index | Channel | | 133197 | 133297 | 133397 |
| | | Frequency (MHz) | | 670.5 | 680.5 | 690.5 |
| 15M | QPSK | 1 | 0 | 24.71 | 25.01 | 24.83 |
| | | 1 | 37 | 25.06 | 24.73 | 24.99 |
| | | 1 | 74 | 25.06 | 24.70 | 24.87 |
| | | 36 | 0 | 24.56 | 24.31 | 24.28 |
| | | 36 | 19 | 24.41 | 24.64 | 24.63 |
| | | 36 | 39 | 24.62 | 24.91 | 24.26 |
| | | 75 | 0 | 24.96 | 24.17 | 24.64 |
| | 16QAM | 1 | 0 | 23.92 | 24.01 | 23.82 |
| | | 1 | 37 | 23.89 | 23.89 | 23.90 |
| | | 1 | 74 | 23.83 | 24.02 | 23.98 |
| | | 36 | 0 | 23.39 | 23.17 | 23.47 |
| | | 36 | 19 | 23.91 | 23.74 | 23.64 |
| | | 36 | 39 | 23.26 | 23.60 | 23.75 |
| | | 75 | 0 | 23.46 | 23.89 | 23.77 |
| | 64QAM | 1 | 0 | 22.92 | 22.83 | 23.00 |
| | | 1 | 37 | 23.16 | 22.90 | 23.07 |
| | | 1 | 74 | 22.96 | 23.02 | 23.07 |
| | | 36 | 0 | 22.03 | 22.30 | 22.81 |
| | | 36 | 19 | 22.20 | 22.32 | 22.39 |
| | | 36 | 39 | 22.79 | 22.74 | 22.45 |
| | | 75 | 0 | 22.58 | 22.74 | 22.36 |
| | 256QAM | 1 | 0 | 21.77 | 22.01 | 22.25 |
| | | 1 | 37 | 21.82 | 21.95 | 22.00 |
| | | 1 | 74 | 21.49 | 22.02 | 22.15 |
| | | 36 | 0 | 21.51 | 22.14 | 21.80 |
| | | 36 | 19 | 21.80 | 21.87 | 21.86 |
| | | 36 | 39 | 21.99 | 21.38 | 21.75 |
| | | 75 | 0 | 21.52 | 21.39 | 21.68 |

*ERP = Conducted + antenna gain (4.41dBi)-2.15

| LTE Band 71 | | | | | | |
|-------------|-----------|-----------------|----|--------------|--------------|--------|
| BW | MCS Index | Channel | | 133222 | 133297 | 133372 |
| | | Frequency (MHz) | | 673 | 680.5 | 688 |
| 20M | QPSK | 1 | 0 | 24.83 | 25.11 | 24.74 |
| | | 1 | 50 | 24.79 | 24.86 | 24.88 |
| | | 1 | 99 | 25.03 | 24.68 | 24.93 |
| | | 50 | 0 | 24.77 | 24.29 | 24.61 |
| | | 50 | 25 | 24.13 | 24.67 | 24.79 |
| | | 50 | 50 | 24.70 | 24.25 | 24.24 |
| | | 100 | 0 | 24.26 | 24.73 | 24.51 |
| | 16QAM | 1 | 0 | 24.10 | 24.21 | 24.07 |
| | | 1 | 50 | 24.17 | 23.69 | 23.82 |
| | | 1 | 99 | 24.20 | 23.80 | 23.96 |
| | | 50 | 0 | 23.90 | 23.56 | 23.76 |
| | | 50 | 25 | 23.75 | 23.68 | 23.36 |
| | | 50 | 50 | 23.31 | 23.43 | 23.79 |
| | | 100 | 0 | 23.27 | 23.54 | 23.14 |
| | 64QAM | 1 | 0 | 23.10 | 23.08 | 22.89 |
| | | 1 | 50 | 22.72 | 22.89 | 22.93 |
| | | 1 | 99 | 22.96 | 23.00 | 22.90 |
| | | 50 | 0 | 22.67 | 22.71 | 22.21 |
| | | 50 | 25 | 22.23 | 22.18 | 22.64 |
| | | 50 | 50 | 22.34 | 22.61 | 22.72 |
| | | 100 | 0 | 22.67 | 22.19 | 22.87 |
| | 256QAM | 1 | 0 | 22.22 | 22.08 | 21.72 |
| | | 1 | 50 | 22.14 | 21.42 | 21.88 |
| | | 1 | 99 | 21.67 | 21.99 | 21.91 |
| | | 50 | 0 | 21.99 | 22.04 | 22.07 |
| | | 50 | 25 | 21.73 | 21.98 | 21.96 |
| | | 50 | 50 | 22.02 | 21.46 | 21.93 |
| | | 100 | 0 | 21.83 | 21.70 | 22.11 |

*ERP = Conducted + antenna gain (4.41dBi)-2.15

Modulation Type: QPSK

LTE Band 30, Channel Bandwidth: 5MHz

| Mode | | TX channel 27685, 27710, 27735 | | | | | |
|---|-------------|--------------------------------|-----------------------|------------------------|-----------------|------------------|-------------|
| Antenna Polarity & Test Distance: Horizontal at 3 M | | | | | | | |
| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm/5MHz) | Limit (dBm/5MHz) | Margin (dB) |
| 1 | 2307.50 | 14.1 | 22.1 | -0.1 | 22.0 | 23.9 | -1.9 |
| 2 | 2310.00 | 14.2 | 22.2 | -0.1 | 22.1 | 23.9 | -1.8 |
| 3 | 2312.50 | 14.0 | 22.0 | -0.1 | 21.9 | 23.9 | -2.0 |
| Antenna Polarity & Test Distance: Vertical at 3 M | | | | | | | |
| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm/5MHz) | Limit (dBm/5MHz) | Margin (dB) |
| 1 | 2307.50 | 17.0 | 22.9 | -0.1 | 22.8 | 23.9 | -1.1 |
| 2 | 2310.00 | 16.9 | 22.8 | -0.1 | 22.7 | 23.9 | -1.2 |
| 3 | 2312.50 | 17.1 | 23.0 | -0.1 | 22.9 | 23.9 | -1.0 |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 30, Channel Bandwidth: 10MHz

| Mode | | TX channel 27710 | | | | | |
|---|-------------|------------------|-----------------------|------------------------|-----------------|------------------|-------------|
| Antenna Polarity & Test Distance: Horizontal at 3 M | | | | | | | |
| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm/5MHz) | Limit (dBm/5MHz) | Margin (dB) |
| 1 | 2310.00 | 13.9 | 21.9 | -0.1 | 21.8 | 23.9 | -2.1 |
| Antenna Polarity & Test Distance: Vertical at 3 M | | | | | | | |
| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm/5MHz) | Limit (dBm/5MHz) | Margin (dB) |
| 1 | 2310.00 | 16.7 | 22.6 | -0.1 | 22.5 | 23.9 | -1.4 |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Modulation Type: 256QAM

LTE Band 30, Channel Bandwidth: 5MHz

| Mode | | TX channel 27685, 27710, 27735 | | | | | |
|---|-------------|--------------------------------|-----------------------|------------------------|-----------------|------------------|-------------|
| Antenna Polarity & Test Distance: Horizontal at 3 M | | | | | | | |
| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm/5MHz) | Limit (dBm/5MHz) | Margin (dB) |
| 1 | 2307.50 | 12.0 | 20.0 | -0.1 | 19.9 | 23.9 | -4.0 |
| 2 | 2310.00 | 12.1 | 20.1 | -0.1 | 20.0 | 23.9 | -3.9 |
| 3 | 2312.50 | 11.9 | 19.9 | -0.1 | 19.8 | 23.9 | -4.1 |
| Antenna Polarity & Test Distance: Vertical at 3 M | | | | | | | |
| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm/5MHz) | Limit (dBm/5MHz) | Margin (dB) |
| 1 | 2307.50 | 15.0 | 20.9 | -0.1 | 20.8 | 23.9 | -3.1 |
| 2 | 2310.00 | 14.8 | 20.7 | -0.1 | 20.6 | 23.9 | -3.3 |
| 3 | 2312.50 | 15.1 | 21.0 | -0.1 | 20.9 | 23.9 | -3.0 |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 30, Channel Bandwidth: 10MHz

| Mode | | TX channel 27710 | | | | | |
|---|-------------|------------------|-----------------------|------------------------|-----------------|------------------|-------------|
| Antenna Polarity & Test Distance: Horizontal at 3 M | | | | | | | |
| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm/5MHz) | Limit (dBm/5MHz) | Margin (dB) |
| 1 | 2310.00 | 12.0 | 20.0 | -0.1 | 19.9 | 23.9 | -4.0 |
| Antenna Polarity & Test Distance: Vertical at 3 M | | | | | | | |
| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm/5MHz) | Limit (dBm/5MHz) | Margin (dB) |
| 1 | 2310.00 | 14.7 | 20.6 | -0.1 | 20.5 | 23.9 | -3.4 |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

For LTE Band 5:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

For LTE Band 12, 71:

According to FCC 27.53(g) for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

For LTE Band 13:

According to FCC 27.53(c)(2) for on any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB.

According to FCC 27.53(f) for operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz. The limit of emissions is equal to -40 dBm

For LTE Band 30:

In the FCC 27.53(a)(4)(iii), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $70 + 10 \log(P)$ dB. The limit of emission is equal to -40 dBm.

For LTE Band 48:

The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz .

4.2.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15\text{dBi}$.

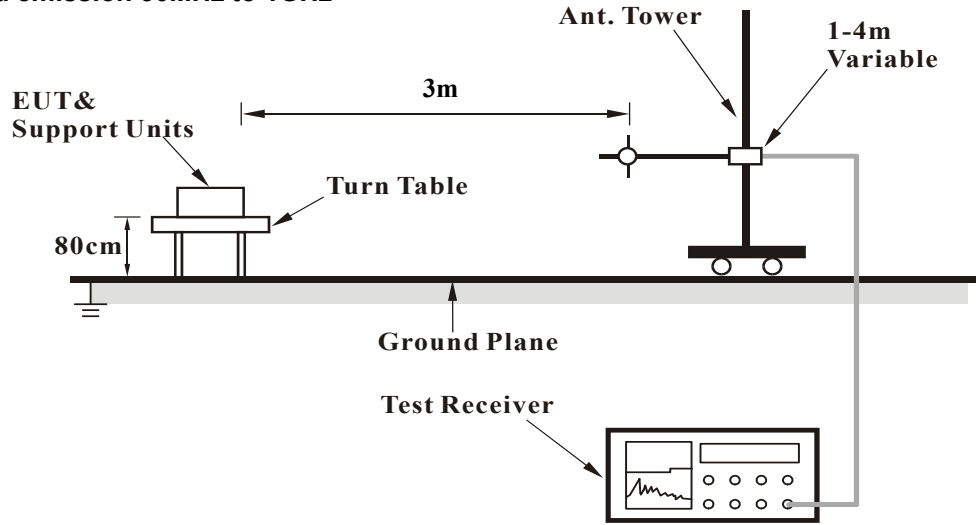
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.2.3 Deviation from Test Standard

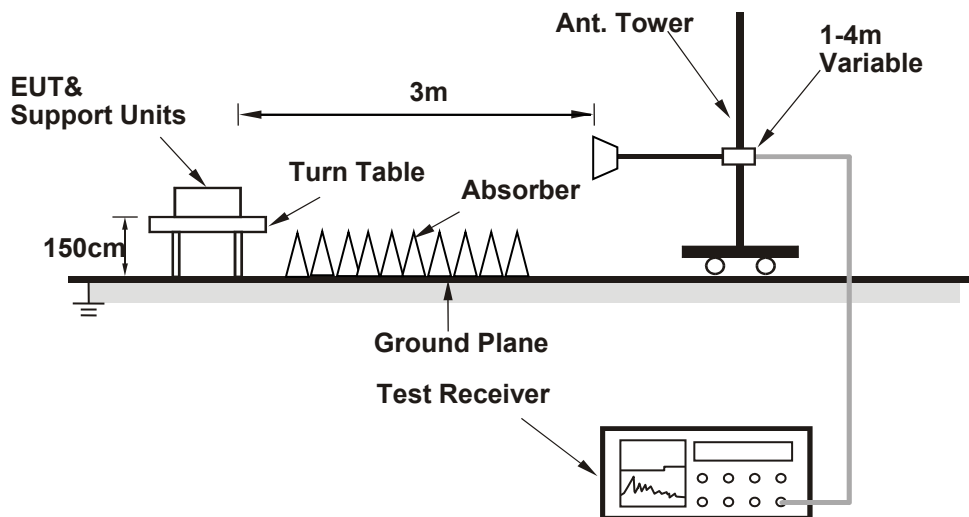
No deviation.

4.2.4 Test Setup

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.5 Test Results

Below 1GHz

n66, Channel Bandwidth: 15MHz

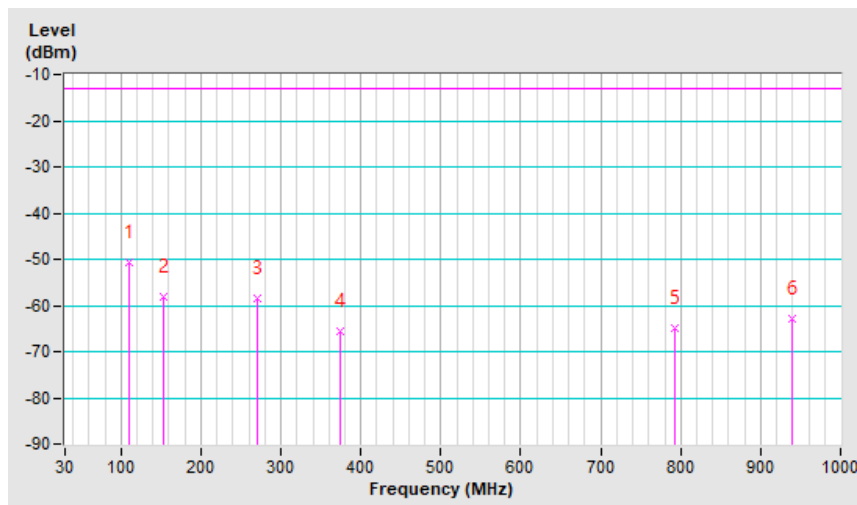
| | | | |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode | TX channel 343500 (1717.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 66%RH | Input Power | 120Vac, 60Hz |
| Tested By | Greg Lin | | |

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| 1 | 110.13 | -42.8 | -48.1 | -2.6 | -50.7 | -13.0 | -37.7 |
| 2 | 152.30 | -53.9 | -55.3 | -2.8 | -58.1 | -13.0 | -45.1 |
| 3 | 270.39 | -54.2 | -57.0 | -1.4 | -58.4 | -13.0 | -45.4 |
| 4 | 374.42 | -63.7 | -69.3 | 3.7 | -65.6 | -13.0 | -52.6 |
| 5 | 793.35 | -70.4 | -68.9 | 4.0 | -64.9 | -13.0 | -51.9 |
| 6 | 939.55 | -71.3 | -66.7 | 3.7 | -63.0 | -13.0 | -50.0 |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

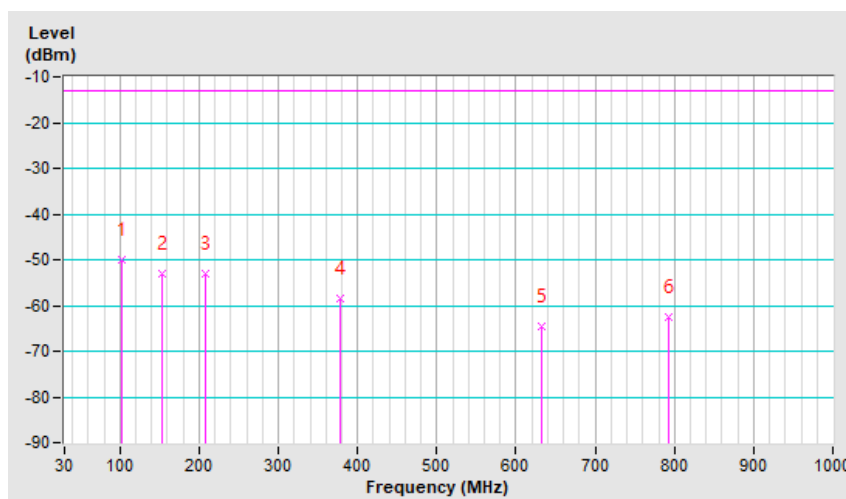


| | | | |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode | TX channel 343500 (1717.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 66%RH | Input Power | 120Vac, 60Hz |
| Tested By | Greg Lin | | |

| Antenna Polarity & Test Distance: Vertical at 3 M | | | | | | | |
|---|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1 | 101.70 | -41.7 | -48.5 | -1.6 | -50.1 | -13.0 | -37.1 |
| 2 | 152.30 | -51.0 | -50.1 | -2.8 | -52.9 | -13.0 | -39.9 |
| 3 | 207.13 | -50.5 | -51.1 | -2.0 | -53.1 | -13.0 | -40.1 |
| 4 | 377.23 | -58.1 | -62.1 | 3.6 | -58.5 | -13.0 | -45.5 |
| 5 | 633.09 | -69.6 | -68.3 | 3.6 | -64.7 | -13.0 | -51.7 |
| 6 | 791.94 | -69.5 | -66.6 | 4.0 | -62.6 | -13.0 | -49.6 |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).



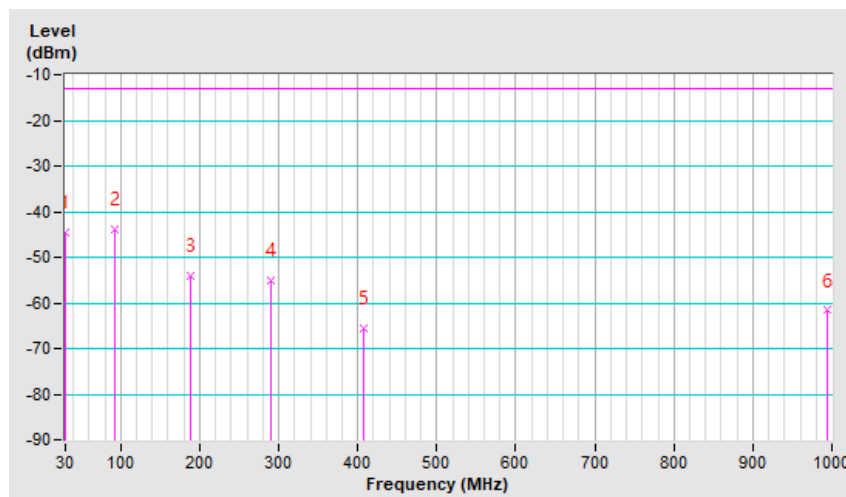
LTE Band 12, Channel Bandwidth: 3MHz

| | | | |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode | TX channel 23025 (700.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 68%RH | Input Power | 120Vac, 60Hz |
| Tested By | Greg Lin | | |

| Antenna Polarity & Test Distance: Horizontal at 3 M | | | | | | | |
|---|--------------|---------------|-----------------------|------------------------|--------------|--------------|--------------|
| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1 | 30.00 | -45.5 | -32.4 | -12.2 | -44.6 | -13.0 | -31.6 |
| 2 | 91.86 | -32.9 | -45.0 | 1.1 | -43.9 | -13.0 | -30.9 |
| 3 | 187.45 | -43.4 | -57.9 | 3.9 | -54.0 | -13.0 | -41.0 |
| 4 | 290.07 | -49.6 | -60.1 | 5.1 | -55.0 | -13.0 | -42.0 |
| 5 | 408.16 | -63.0 | -70.7 | 5.2 | -65.5 | -13.0 | -52.5 |
| 6 | 994.38 | -69.4 | -65.7 | 4.0 | -61.7 | -13.0 | -48.7 |

Remarks:

- ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
- Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.

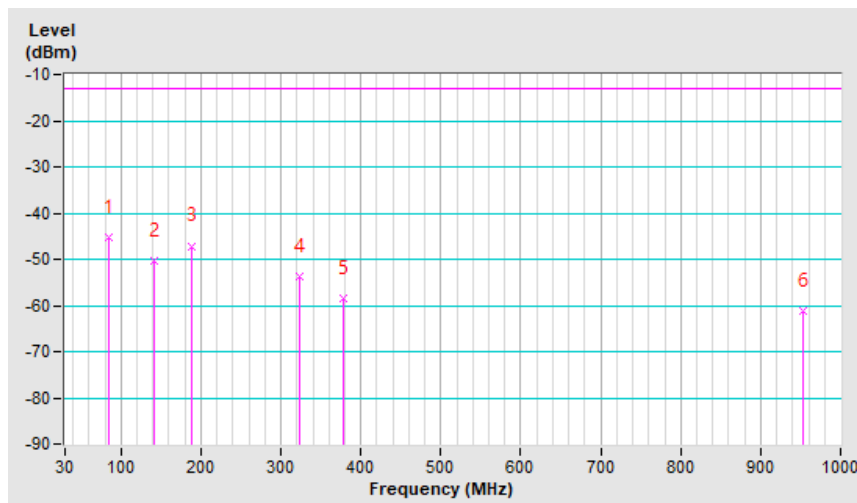


| | | | |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode | TX channel 23025 (700.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 68%RH | Input Power | 120Vac, 60Hz |
| Tested By | Greg Lin | | |

| Antenna Polarity & Test Distance: Vertical at 3 M | | | | | | | |
|---|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1 | 84.83 | -37.4 | -44.8 | -0.3 | -45.1 | -13.0 | -32.1 |
| 2 | 141.06 | -45.2 | -50.0 | -0.3 | -50.3 | -13.0 | -37.3 |
| 3 | 187.45 | -42.0 | -51.0 | 3.9 | -47.1 | -13.0 | -34.1 |
| 4 | 322.41 | -51.6 | -58.8 | 5.2 | -53.6 | -13.0 | -40.6 |
| 5 | 377.23 | -56.4 | -63.8 | 5.3 | -58.5 | -13.0 | -45.5 |
| 6 | 952.20 | -68.8 | -65.1 | 3.9 | -61.2 | -13.0 | -48.2 |

Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.



Above 1GHz
n66, Channel Bandwidth: 15MHz

| | | | |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode | TX channel 343500 (1717.5MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 22deg. C, 65%RH | Input Power | 120Vac, 60Hz |
| Tested By | Greg Lin | | |

| Antenna Polarity & Test Distance: Horizontal at 3 M | | | | | | | |
|---|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1 | 3435.00 | -63.9 | -55.3 | 1.3 | -54.0 | -13.0 | -41.0 |
| Antenna Polarity & Test Distance: Vertical at 3 M | | | | | | | |
| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1 | 3435.00 | -62.1 | -54.0 | 1.3 | -52.7 | -13.0 | -39.7 |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

LTE Band 12, Channel Bandwidth: 3MHz

| | | | |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode | TX channel 23025 (700.5MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 22deg. C, 65%RH | Input Power | 120Vac, 60Hz |
| Tested By | Greg Lin | | |

| Antenna Polarity & Test Distance: Horizontal at 3 M | | | | | | | |
|---|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1 | 1401.00 | -65.2 | -58.9 | 0.9 | -58.0 | -13.0 | -45.0 |
| Antenna Polarity & Test Distance: Vertical at 3 M | | | | | | | |
| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1 | 1401.00 | -62.3 | -57.2 | 0.9 | -56.3 | -13.0 | -43.3 |

Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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