



PART 1 Test Under Static Transmission Scenario

Test Report No. : 13760834H-B-R1
Applicant : Panasonic Corporation of North America
Type of EUT : Radio Module
(Tested inside of Panasonic Personal Computer FZ-G2)
Model Number of EUT : WW21A
FCC ID : ACJ9TGWW21A
Test regulation : FCC47CFR 2.1093
Test Result : Complied (Refer to SECTION 7)
Reported SAR(1g) Value : The highest reported SAR(1g)
Body: 1.19 W/kg
Simultaneous Transmission (Body): 1.58 W/kg
SPLSR: 0.039

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8. The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan has been accredited.
9. The information provided from the customer for this report is identified in SECTION 2.
10. This report is a revised version of 13760834H-B. 13760834H-B is replaced with this report.

Date of test(s): June 15, 2021 to November 5, 2021

Representative test operator: T. Nakagawa
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CERTIFICATE 5107.02

- The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan, Inc.
 There is no testing item of "Non-accreditation".

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1 Introduction

This device uses Qualcomm® Smart Transmit feature. These modem(s) is enabled in Qualcomm® Smart Transmit Feature to control and manage transmitting power in real time and to ensure at all times the averaged RF exposure is in compliance with FCC/ISED requirements.

This report (part 1) demonstrates that Qualcomm® Reference Design (QRD) complies with FCC/ISED RF exposure limits at these maximum time averaged power limits.

Note: WLAN operations are not enabled with Smart Transmit.

2 Customer information

Company Name : Panasonic Corporation of North America
Address : Two Riverfront Plaza, 9th Floor Newark, NEW JERSEY, 07102-5940, USA
Telephone Number : +1-201-348-7760
Facsimile Number : +1-201-348-7760
Contact Person : Ben Botros

The information provided from the customer is as follows;

- Applicant, Type of Equipment, Model No. FCC ID on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 2: Customer information
- SECTION 3: Equipment under test (EUT) other than the Receipt Date
- SECTION 8: Tune-up tolerance information and software information

* The laboratory is exempted from liability of any test results affected from the above information in section 3.

3 Equipment under test (EUT)

3.1 Identification of EUT

Type : Radio Module
Model Number : WW21A
Serial number : 0LTSA00731 *1)
 0LTSA00730 *2)
 0LTSA00731 *3)
 0LTSA00732 *4)
 0LTSA00664 *5)
Rating : DC 3.0 V to 3.6 V
Receipt Date : March 30, 2021
Condition : Production prototype
 (Not for Sale: This sample is equivalent to mass-produced items.)
Modification : No Modification by the test lab.

- *1) Used for the test for Band 7
- *2) Used for the test on 1 GHz to 2 GHz band
- *3) Used for the test above 2.5 GHz (except Band 7)
- *4) Used for the test below 1 GHz
- *5) Used for the test for DLCA (Power only)

<Information of Host device>

Type : Personal Computer FZ-G2(mk1)
 Intel Core i7 processor (1.1 GHz Max 4.9 GHz)
 10.1 inch LCD (1920 x 1200)

3.2 Product description

Model: WW21A (referred to as the EUT in this report) is a Radio Module.

Wireless technologies	Dup.	Band	Mode	
WCDMA	FDD		2 UMTS Rel. 99 (Data) HSDPA (Rel. 5)	
	FDD		4 HSUPA (Rel. 6), HSPA+ (Rel. 7), DC-HSDPA (Rel. 8)	
	FDD		5	
LTE	FDD		2 QPSK, 16QAM, 64AQM, 256QAM	
	FDD		4	
	FDD		5	
	*B42: not used in US (FCC)	FDD		7 Downlink MIMO Support: Yes(2x2, 4x4) Supported band : B2, B4, B7, B25, B38, B41, B42, B48, B66
	FDD		12	
	*B48: not used in Canada(ISED)	FDD		13 Uplink MIMO Support: No
	FDD		14	Uplink transmission is limited to a single output stream.
	FDD		17	
	FDD		25	
	FDD		26	
	FDD(RX only)		29	
	TDD		38	
	TDD		41	
	TDD		42	
	TDD(Rx only)		46	
	TDD		48	
	FDD		66	
FDD		71		
LTE CA	Downlink		Uplink	
	Maximum 7 carriers		*B42: not used in US (FCC) / B48: not used in Canada(ISED) Maximum 2 carriers Supported combination: <Intra-band contiguous> 7C, 41C, 42C, 48C <Inter-band> Not supported	
5G NR (FR1)	FDD	15 kHz	n2 Pi/2 BPSK (DFT-s-OFDM),	
	FDD	15 kHz	n5 QPSK (CP-OFDM/DFT-s-OFDM),	
	*n77, n78: not used in US (FCC)	TDD	15 kHz	n41 16QAM (CP-OFDM/DFT-s-OFDM),
	FDD	15 kHz	n66 64QAM (CP-OFDM/DFT-s-OFDM),	
	FDD	15 kHz	n71 256QAM (CP-OFDM/DFT-s-OFDM)	
	TDD	30 kHz	n77 Downlink MIMO Support: Yes(2x2, 4x4)	
	TDD	30 kHz	n78 Supported band : n2, n41, n66, n77, n78	
	-	-	-	Uplink MIMO Support: No
EN-DC(LTE-FR1 Sub6) (NSA mode only)	Supported combination		*n77, n78: not used in US (FCC)	
	LTE Anchor Bands for NR band n2		LTE Band 5/12/13	
	LTE Anchor Bands for NR band n5		LTE Band 2/7/66	
	LTE Anchor Bands for NR band n41		LTE Band 2/25/26/66	
	LTE Anchor Bands for NR band n66		LTE Band 5/12/13/14/71	
	LTE Anchor Bands for NR band n71		LTE Band 2/7/66	
	LTE Anchor Bands for NR band n77*		LTE Band 41	
	LTE Anchor Bands for NR band n78*		LTE Band 2/5/7/12/38/66	

Wireless module (Tested inside of Panasonic Tablet PC FZ-G2)			
Model : WL20B (FCC ID ACJ9TGWL20B / ISED certification Number 216H-CFWL20B)			
Wireless technologies	Dup.	Band	Mode
WLAN	TDD	2.4GHz	2412-2472 802.11b
			for US 2412-2462 802.11g for Canada 2412-2462 802.11n(20,40) 802.11ax(20,40)
	TDD	5GHz	5180-5240 802.11a
			5260-5320 802.11n(20,40)
			5500-5720 802.11ac(20,40.80.160)
			5745-5825 802.11ax(20,40.80.160)
Bluetooth	TDD	2.4GHz	2402-2480 BR/EDR/LE

3.3 General LTE SAR Test and Reporting Considerations

Frequency range, Channel Bandwidth, Numbers and Frequencies

Band		Frequency range: 1850 - 1910 MHz					
		Channel Bandwidth[MHz]					
2		20	15	10	5	3	1.4
Low	Ch	18700	18675	18650	18625	18625	18607
	Freq[MHz]	1860	1857.5	1855	1852.5	18625	1850.7
Mid	Ch	18900	18900	18900	18900	18900	18900
	Freq[MHz]	1880	1880	1880	1880	1880	1880
High	Ch	19100	19125	19150	19175	19185	19193
	Freq[MHz]	1900	1902.5	1905	1907.5	1908.5	1909.3
Band		Frequency range: 1710 - 1755 MHz					
		Channel Bandwidth[MHz]					
4		20	15	10	5	3	1.4
Low	Ch	20050	20025	20000	19975	19965	19957
	Freq[MHz]	1720	1717.5	1715	1712.5	1711.5	1710.7
Mid	Ch	20175	20175	20175	20175	20175	20175
	Freq[MHz]	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5
High	Ch	20300	20325	20350	20375	20385	20393
	Freq[MHz]	1745	1747.5	1750	1752.5	1753.5	1754.3
Band		Frequency range: 824 - 849 MHz					
		Channel Bandwidth[MHz]					
5				10 *1	5	3	1.4
Low	Ch			20450	20425	20415	20407
	Freq[MHz]			829	826.5	825.5	824.7
Mid	Ch			20525	20525	20525	20525
	Freq[MHz]			836.5	836.5	836.5	836.5
High	Ch			20600	20625	20635	20643
	Freq[MHz]			844	846.5	847.5	848.3
Band		Frequency range: 2500 - 2570 MHz					
		Channel Bandwidth[MHz]					
7		20	15	10	5		
Low	Ch	20850	20825	20800	20775		
	Freq[MHz]	2510	2507.5	2505	2502.5		
Mid	Ch	21100	21100	21100	21100		
	Freq[MHz]	2535	2535	2535	2535		
High	Ch	21350	21375	21400	21425		
	Freq[MHz]	2560	2562.5	2565	2567.5		
Band		Frequency range: 699 - 716 MHz					
		Channel Bandwidth[MHz]					
12				10 *1	5	3	1.4
Low	Ch			23060	23035	23025	23017
	Freq[MHz]			704	701.5	700.5	699.7
Mid	Ch			23095	23095	23095	23095
	Freq[MHz]			707.5	707.5	707.5	707.5
High	Ch			23130	23155	23165	23173
	Freq[MHz]			711	713.5	714.5	715.3

Band		Frequency range: 777 - 787 MHz					
Band		Channel Bandwidth[MHz]					
13				10 *1	5 *1		
Low	Ch				23205		
	Freq[MHz]				779.5		
Mid	Ch			23230	23230		
	Freq[MHz]			782	782		
High	Ch				23255		
	Freq[MHz]				784.5		
Band		Frequency range: 788 - 798 MHz					
Band		Channel Bandwidth[MHz]					
14				10 *1	5 *1		
Low	Ch				23305		
	Freq[MHz]				790.5		
Mid	Ch			23330	23330		
	Freq[MHz]			793	793		
High	Ch				23355		
	Freq[MHz]				795.5		
Band		Frequency range: 704 - 716 MHz					
Band		Channel Bandwidth[MHz]					
17		20	15	10 *1	5 *1	3	1.4
Low	Ch			23780	23755		
	Freq[MHz]			709	706.5		
Mid	Ch			23790	23790		
	Freq[MHz]			710	710		
High	Ch			23800	23825		
	Freq[MHz]			711	713.5		
Band		Frequency range: 1850 - 1915 MHz					
Band		Channel Bandwidth[MHz]					
25		20	15	10	5	3	1.4
Low	Ch	26140	26115	26090	26065	26055	26047
	Freq[MHz]	1860	1857.5	1855	1882.5	1851.5	1850.7
Mid	Ch	26365	26365	26365	26365	26365	26365
	Freq[MHz]	1882.5	1882.5	1882.5	1882.5	1882.5	1882.5
High	Ch	26590	26615	26640	26665	26675	26683
	Freq[MHz]	1905	1907.5	1910	1912.5	1913.5	1914.3
Band		Frequency range: 814 - 849 MHz					
Band		Channel Bandwidth[MHz]					
26			15 *1	10	5	3	1.4
Low	Ch		26765	26740	26715	26705	26697
	Freq[MHz]		821.5	819	816.5	815.5	814.7
Mid	Ch		26865	26865	26865	26865	26865
	Freq[MHz]		831.5	831.5	831.5	831.5	831.5
High	Ch		26965	26990	27015	27025	27033
	Freq[MHz]		841.5	844	846.5	847.5	848.3

Band		Frequency range: 2570 - 2620 MHz					
		Channel Bandwidth[MHz]					
38		20	15	10	5		
Low	Ch	37850	37825	37800	37775		
	Freq[MHz]	2580	2577.5	2575	2572.5		
Mid	Ch	38000	38000	38000	38000		
	Freq[MHz]	2595	2595	2595	2595		
High	Ch	38150	38175	38200	38225		
	Freq[MHz]	2610	2612.5	2615	2617.5		
Band		Frequency range: 2496 - 2690 MHz					
		Channel Bandwidth[MHz]					
41		20	15	10	5		
Low	Ch	39750	39725	39700	39675		
	Freq[MHz]	2506	2503.5	2501	2498.5		
Low-Mid	Ch	40185	40173	40160	40148		
	Freq[MHz]	2549.5	2548.3	2547	2545.8		
Mid	Ch	40620	40620	40620	40620		
	Freq[MHz]	2593	2593	2593	2593		
Mid-High	Ch	41055	41068	41080	41093		
	Freq[MHz]	2636.5	2637.8	2639	2640.3		
High	Ch	41490	41515	41540	41565		
	Freq[MHz]	2680	2682.5	2685	2687.5		
Band		Frequency range: 3550 - 3700 MHz					
		Channel Bandwidth[MHz]					
48		20	15	10	5		
Low	Ch	55340	55315	55290	55265		
	Freq[MHz]	3560	3557.5	3555	3552.5		
Low-Mid	Ch	55773	55765	55757	55748		
	Freq[MHz]	3603.3	3602.5	3601.7	3600.8		
Mid-High	Ch	56207	56215	56223	56232		
	Freq[MHz]	3646.7	3647.5	3648.3	3649.2		
High	Ch	56640	56665	56690	56715		
	Freq[MHz]	3690	3692.5	3695	3697.5		
Band		Frequency range: 1710 - 1780 MHz					
		Channel Bandwidth[MHz]					
66		20	15	10	5	3	1.4
Low	Ch	132072	132047	132022	131997	131987	131979
	Freq[MHz]	1720	1717.5	1715	1712.5	1711.5	1710.7
Mid	Ch	132322	132322	132322	132322	132322	132322
	Freq[MHz]	1745	1745	1745	1745	1745	1745
High	Ch	132572	132597	132622	132647	132657	132665
	Freq[MHz]	1770	1772.5	1775	1777.5	1778.5	1779.3
Band		Frequency range: 663 - 698 MHz					
		Channel Bandwidth[MHz]					
71		20 *1	15 *1	10	5		
Low	Ch	133222	133197	133172	133147		
	Freq[MHz]	673	670.5	668	665.5		
Mid	Ch	133297	133297	133297	133297		
	Freq[MHz]	680.5	680.5	680.5	680.5		
High	Ch	133372	133397	133422	133447		
	Freq[MHz]	688	690.5	693	695.5		

*1 : This bandwidth does not support at least three non-overlapping channels. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 for LTE Devices.

LTE transmitter and antenna implementation

See section 3.7 WWAN Antenna configuration

Maximum power reduction (MPR)

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3

Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
256 QAM	≥ 1						≤ 5

MPR Built-in by design

The manufacturer MPR values are always within the 3GPP maximum MPR allowance but may not follow the default MPR values. A-MPR (additional MPR) was disabled during SAR testing

Spectrum plots for RB configurations

A properly configured base station simulator was used for the SAR and power measurements; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.

3.4 LTE (TDD) Considerations

According to KDB 941225 D05 SAR for LTE Devices, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

LTE TDD Bands support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink downlink configurations and Table 4.2-1 for Special subframe configurations.

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Special subframe configuration n	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$	-	-	-	-	-
9	$13168 \cdot T_s$	-	-	-	-	-
10	$13168 \cdot T_s$	$13152 \cdot T_s$	$12800 \cdot T_s$	-	-	-

Table 4.2-2: Uplink-downlink configurations & Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.3%
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.3%
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.3%
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.7%
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.7%
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.7%
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.3%

Calculated Duty Cycle = Extended cyclic prefix in uplink * (T_s) * # of S + # of U / period

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle = $\{[(2+0) * 2560] * [1/(15000 * 2048)] * 2 + 6 \text{ ms}\} / 10 \text{ ms} = 63.3\%$

Where

D = Downlink subframe

S = Special subframe

U = Uplink subframe

T_s = 1/(15000 x 2048) seconds

X = 0

Note(s):

This device supports uplink-downlink configurations 0-6. The configuration with highest duty cycle was used for SAR Testing: configuration 0 at 63.3%(Power Class 3) and Special Subframe 7 with Extended cyclic prefix in uplink.

3.5 General 5G NR(FR1) SAR Test and Reporting Considerations

Frequency range, Channel Bandwidth, Numbers and Frequencies

Band		Frequency range: 1850 - 1910 MHz												
n2		Channel Bandwidth[MHz]												
n2		100	90	80	70	60	50	40	30	25	20	15	10	5
Low	Ch										372000	371500	371000	370500
	Freq[MHz]										1860	1857.5	1855	1852.5
Mid	Ch										376000	376000	376000	376000
	Freq[MHz]										1880	1880	1880	1880
High	Ch										380000	380500	381000	381500
	Freq[MHz]										1900	1902.5	1905	1907.5
Band		Frequency range: 824 - 849 MHz												
n5		Channel Bandwidth[MHz]												
n5		100	90	80	70	60	50	40	30	25	20 *1	15 *1	10 *1	5
Low	Ch										166800	166300	165800	165300
	Freq[MHz]										834	831.5	829	826.5
Mid	Ch										167300	167300	167300	167300
	Freq[MHz]										836.5	836.5	836.5	836.5
High	Ch										167800	168300	168800	169300
	Freq[MHz]										839	841.5	844	846.5
Band		Frequency range: 2496 - 2690 MHz												
n41		Channel Bandwidth[MHz]												
n41		100 *1	90 *1	80 *1	70	60 *2	50 *2	40 *2	30	25	20	15	10	5
Low	Ch	509200	508200	507200		505200	504200	503200			501200			
	Freq[MHz]	2546	2541	2536		2526	2521	2516			2506			
Low-Mid	Ch	513900	513400	512900		511900	511400	510900			509900			
	Freq[MHz]	2569.5	2567	2564.5		2559.5	2557	2554.5			2549.5			
Mid	Ch	518600	518600	518600		518600	518600	518600			518600			
	Freq[MHz]	2593	2593	2593		2593	2593	2593			2593			
Mid-High	Ch	523300	523800	524300		525300	525800	526300			527300			
	Freq[MHz]	2616.5	2619	2621.5		2626.5	2629	2631.5			2636.5			
High	Ch	528000	529000	530000		532000	533000	534000			536000			
	Freq[MHz]	2640	2645	2650		2660	2665	2670			2680			
Band		Frequency range: 1710 - 1780 MHz												
n66		Channel Bandwidth[MHz]												
n66		100	90	80	70	60	50	40	30	25	20	15	10	5
Low	Ch										344000	343500	343000	342500
	Freq[MHz]										1720	1717.5	1715	1712.5
Mid	Ch										349000	349000	349000	349000
	Freq[MHz]										1745	1745	1745	1745
High	Ch										354000	354500	355000	355500
	Freq[MHz]										1770	1772.5	1775	1777.5
Band		Frequency range: 663 - 698 MHz												
n71		Channel Bandwidth[MHz]												
n71		100	90	80	70	60	50	40	30	25	20 *1	15 *1	10	5
Low	Ch										134600	134100	133600	133100
	Freq[MHz]										673	670.5	668	665.5
Mid	Ch										136100	136100	136100	136100
	Freq[MHz]										680.5	680.5	680.5	680.5
High	Ch										137600	138100	138600	139100
	Freq[MHz]										688	690.5	693	695.5

* : SAR test for NR bands and LTE anchor Bands were performed separately due to limitations in SAR probe calibration factors. And, due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.

*1 : This bandwidth does not support at least three non-overlapping channels. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 for LTE Devices.

*2 : For this channel bandwidth, available non-overlapping channels were tested.

Sub-Carrier Spacing (SCS)

n2	n5	n66	n71	n41	n77	n78
15kHz				30kHz		

LTE transmitter and antenna implementation

See section 3.7 WWAN Antenna configuration

A-MPR(Additional MPR) disabled for SAR testing

Yes

EN-DC Carrier Aggregation Possible Combinations

See section 3.2 Product description

3.6 NR (FDD/TDD) Considerations

Factory Test Mode (FTM) is used for SAR testing, 100 % duty.

3.7 WWAN Antenna configuration

The WWAN transmitter operates independently of the WLAN/BT wireless transmitter in the device, and it only supports data transmission.

The 4G LTE antenna configuration consists of WWAN #1 TX/RX antenna and WWAN #2 - #4 RX only antennas.

The 5G NR(FR1) antenna configuration consists of

- WWAN #1 antenna: Tx except n41, and Rx
- WWAN #2 antenna: Tx for n41 only, and Rx
- WWAN #3 - #4 antennas: Rx only

WWAN Antennas	4G LTE		5G NR(FR1)	
	Tx	Rx	Tx	Rx
#1	All bands	All bands	All bands except n41	All bands
#2	-	All bands	n41 only	All bands
#3	-	All bands	-	All bands
#4	-	All bands	-	All bands

3.8 Time averaging for SAR and PD

The Qualcomm® Smart Transmit algorithm controls and manages the instantaneous Tx power to maintain the time-averaged Tx power (in turn, time-averaged RF exposure) is in compliance with regulatory limits.

This device uses Qualcomm® Smart Transmit feature and cannot operate without RF exposure characterization at the device level, beforehand. The parameters obtained from SAR and PD characterization (char), if any, is used as input for Smart Transmit. Both SAR char and PD char will be entered via the Embedded File System (EFS) to enable the Smart Transmit feature.

4 Test standard information

4.1 Test Specification

	Title	
<input checked="" type="checkbox"/>	FCC47CFR 2.1093	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

4.2 Published RF exposure KDB procedures

	Name of documents	Title
<input checked="" type="checkbox"/>	KDB447498D01(v06)	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
<input type="checkbox"/>	KDB447498D02(v02r01)	SAR Measurement Procedures for USB Dongle Transmitters
<input type="checkbox"/>	KDB648474D04(v01r04)	SAR Evaluation Considerations for Wireless Handsets
<input checked="" type="checkbox"/>	KDB941225D01(v03r01)	3G SAR Measurement Procedures
<input checked="" type="checkbox"/>	KDB941225D05(v02r05)	SAR Evaluation Considerations for LTE Devices
<input type="checkbox"/>	KDB941225D06(v02r01)	SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities
<input type="checkbox"/>	KDB941225D07(v01r02)	Hot Spot SAR
<input type="checkbox"/>	KDB616217D04(v01r02)	SAR Evaluation Procedures for UMPC Mini-Tablet Devices
<input checked="" type="checkbox"/>	KDB865664D01(v01r04)	SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers
<input checked="" type="checkbox"/>	KDB248227D01(v02r02)	SAR Measurement Requirements for 100MHz to 6 GHz

4.3 SAR Work Procedures Procedure

	Name of documents	Title or details
<input checked="" type="checkbox"/>	C/N: Work Instructions- ULID-003598 Name:13-EM-W0429	UL Japan, Inc.'s SAR Work Procedures Procedure
<input checked="" type="checkbox"/>	C/N: Work Instructions- ULID-003599 Name:13-EM-W0430	UL Japan, Inc.'s SAR Work Procedures Procedure
<input checked="" type="checkbox"/>	C/N: Work Instructions- ULID-003619 Name: 13-EM-W0863	UL Japan, Inc.'s PD Work Procedures Procedure
<input checked="" type="checkbox"/>	IEEE Std 1528-2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.
<input checked="" type="checkbox"/>	IEC TR 63170 Edition 1.0	Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz

4.4 Additions or deviations to standard

A non-standard configuration was used for SAR testing based on guidance from the FCC. The operational description contains additional information. Other than above, no addition, exclusion nor deviation has been made from the standard.

4.5 References

SPEAG. (August 2018). *5G Module V1.2 Application Note: 5G Compliance Testing*.
SPEAG. (n.d.). *SPEAG uncertainty document (AN 15-7/AN19-17)*.

4.6 Limit

4.6.1 Below 6 GHz

(A) Limits for Occupational/Controlled Exposure (W/kg)

Spatial Average (averaged over the whole body)	Spatial Peak (averaged over any 1g of tissue)	Spatial Peak (hands/wrists/feet/ankles averaged over 10g)
0.4	8.0	20.0

(B) Limits for General population/Uncontrolled Exposure (W/kg)

Spatial Average (averaged over the whole body)	Spatial Peak (averaged over any 1g of tissue)	Spatial Peak (hands/wrists/feet/ankles averaged over 10g)
0.08	1.6	4.0

Occupational/Controlled Environments: are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. because of employment or occupation).

General Population/Uncontrolled Environments: are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

1.6 W/kg limit is applied

4.6.2 Above 6 GHz

Frequency Range [MHz]	Power Density [mW/cm ²]	Average Time [Minutes]
(A) Limits For Occupational / Controlled Environments		
1,500 – 100,000	5	6
(B) Limits For General Population / Uncontrolled Environments		
1,500 – 100,000	1	30

Note: 1.0 mW/cm² is 10 W/m²

10 W/m² limit is applied

5 Location

UL Japan, Inc. Ise EMC Lab.
Shielded room for SAR testings
A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 884919
ISED SAR Lab Company Number: 2973C / CAB identifier: JP0002
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone: +81 596 24 8999
Facsimile: +81 596 24 8124

6 Definitions, symbols, and abbreviations

6.1 Definitions

- SAR_design_target** : The SAR_design_target shall be less than regulatory SAR limit (i.e., 1gSAR limit for FCC) after accounting for all device design related uncertainties.
- SAR_design_target_extremity** : SAR_design_target for limbs
- Tx_power_at_SAR_design_target** : Transmit level that matches SAR_design_target (P_{limit} in dBm)
- Δ_{min}** : housing material influence
- PD_design_target** : The design target for PD compliance. It should be less than regulatory power density limit to account for all device design related uncertainties
- input.power.limit*** : For a PD characterized wireless device, the input power level at antenna port(s) for each beam corresponding to PD_design_target.
- PD char** : the table that contains input.power.limit fed to antenna port(s) for all supported beams.
- N beams** : The mmW device supports total N beams, where M out of N are single beams and the rest of (N-M) are beam pairs (where 2 single beams are excited at the same time).
- power density (PD) or S_{av}** : energy per unit time and unit area crossing a surface of area A characterized by the normal unit vector $\hat{\mathbf{n}}$ and averaging time.

$$S_{\text{av}} = \frac{1}{AT} \iint (\mathbf{E} \times \mathbf{H}) \cdot \hat{\mathbf{n}} dA dT$$

- Specific Absorption Rate (SAR)** : The time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ), as shown in the following equation:

$$\text{SAR} = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dV} \right)$$

- Reported SAR** : Measured SAR is scaled to the maximum tune-up tolerance limit and the maximum duty by the following formulas.

$$\begin{aligned} \text{Reported SAR [w/kg]} \\ &= \text{Measured SAR [w/kg]} \times \text{scale factor for power} \\ &\times \text{Scaled factor for duty (if needed)} \end{aligned}$$

Where

$$\text{Scaled factor for power} = \frac{\text{Maximum tune up tolerance limit [mW]}}{\text{Measured power [mW]}}$$

And

$$\text{Scaled factor for duty} = \frac{1}{\text{Duty}}$$

Maximum Tune-up tolerance limit : Tolerance power specified by customer (P_{max} or P_{limit})

6.2 Symbols

Symbol	Quantity	Unit	Dimensions
E	Electric field	volt per meter	V / m
f	Frequency	hertz	Hz
H	Magnetic field	ampere per meter	A / m
λ	Wavelength	meter	m
S	Local power density	watt per square meter	W / m ²
PD or S _{av}	Spatial-average power density	watt per square meter	W / m ² (mW / cm ²)
SAR	Specific Absorption Rate	watt per square meter	W / kg

6.3 Abbreviations

<input type="checkbox"/>	NOT applicable.	GPS	Global Positioning System
<input checked="" type="checkbox"/>	applicable.	Hori.	Horizontal
A2LA	The American Association for Laboratory Accreditation	IEC	International Electrotechnical Commission
AC	Alternating Current	IEEE	Institute of Electrical and Electronics Engineers
AFH	Adaptive Frequency Hopping	IF	Intermediate Frequency
AM	Amplitude Modulation	ILAC	International Laboratory Accreditation Conference
Amp, AMP	Amplifier	ISED	Innovation, Science and Economic Development Canada
ANSI	American National Standards Institute	ISO	International Organization for Standardization
Ant, ANT	Antenna	KDB	Knowledge data base from Federal communication committee
AP	Access Point	LAN	Local Area Network
Atten., ATT	Attenuator	LIMS	Laboratory Information Management System
AV	Average	MCS	Modulation and Coding Scheme
BPSK	Binary Phase-Shift Keying	MRA	Mutual Recognition Arrangement
BR	Bluetooth Basic Rate	nG	n generation (e.g. 3G,4G and 5G)
BS	base station	NIST	National Institute of Standards and Technology
BT	Bluetooth	NR	New radio
BT LE	Bluetooth Low Energy	OBW	Occupied Band Width
BW	BandWidth	OFDM	Orthogonal Frequency Division Multiplexing
Cal Int	Calibration Interval	P/M	Power meter
CCK	Complementary Code Keying	PCB	Printed Circuit Board
Ch., CH	Channel	PD	Power density
CISPR	Comite International Special des Perturbations Radioelectriques	PER	Packet Error Rate
CW	Continuous Wave	PHY	Physical Layer
DBPSK	Differential BPSK	PK	Peak
DC	Direct Current	PN	Pseudo random Noise
DFS	Dynamic Frequency Selection	PRBS	Pseudo-Random Bit Sequence
DQPSK	Differential QPSK	PSD	Power Spectral Density
DSI	Device state index	QAM	Quadrature Amplitude Modulation
DSSS	Direct Sequence Spread Spectrum	QP	Quasi-Peak
DUT	Device under test	QPSK	Quadri-Phase Shift Keying
EDR	Enhanced Data Rate	RBW	Resolution Band Width
EIRP, e.i.r.p.	Equivalent Isotropically Radiated Power	RDS	Radio Data System
EMC	ElectroMagnetic Compatibility	RE	Radio Equipment
EMI	ElectroMagnetic Interference	RF	Radio Frequency
EN	European Norm	RMS	Root Mean Square
ERP, e.r.p.	Effective Radiated Power	Rx	Receiving
EU	European Union	SA, S/A	Spectrum Analyzer
EUT	Equipment Under Test	SG	Signal Generator
Fac.	Factor	S _n	Surface number
FCC	Federal Communications Commission	SVSWR	Site-Voltage Standing Wave Ratio
FHSS	Frequency Hopping Spread Spectrum	TER	Total exposure ratio
FM	Frequency Modulation	TR	Test Receiver
Freq.	Frequency	Tx	Transmitting
GFSK	Gaussian Frequency-Shift Keying	VBW	Video BandWidth
GNSS	Global Navigation Satellite System	Vert.	Vertical
EN-DC	E-UTRAN New Radio - Dual Connectivity	WLAN	Wireless LAN

7 Test result

7.1 verdict

Complied

Highest values at each band are listed next section.

7.2 Stand-alone SAR result

FCC

RAT	Ant#	Band	Position	Mode	Dist. [mm]	Ch#	Freq. [MHz]	RB num-pos.	Tune up [dBm]	Meas.Pow [dBm]	Meas.SAR Mesa. [W/kg]	Scaled [W/kg]
WCDMA	1	B2	Rear tilt(Edge1 side)	Rel 99 RMC	0	9400	1880	N/A	24.50	23.43	0.722	0.924
WCDMA	1	B4	Rear tilt(Edge4 side)	Rel 99 RMC	9	1312	1712.4	N/A	23.70	23.03	1.000	1.167
WCDMA	1	B5	Edge 4(red)	Rel 99 RMC	0	4233	846.6	N/A	17.10	15.77	0.647	0.879
LTE	1	B2	Edge 4(red)	QPSK	0	18700	1860	100/0	17.60	16.41	0.692	0.910
LTE	1	B4	Rear tilt(Edge4 side)	QPSK	9	20175	1732.5	1/99	24.00	22.73	0.823	1.103
LTE	1	B5	Edge 4(red)	QPSK	0	20525	836.5	50/0	17.10	15.91	0.671	0.883
LTE	1	B7	Rear tilt(Edge1 side)	QPSK	0	21100	2535	1/0	24.00	22.96	0.848	1.077
LTE	1	B12	Edge 4(red)	QPSK	0	23095	707.5	1/49	19.40	18.33	0.802	1.026
LTE	1	B13	Edge 4(red)	QPSK	0	23230	782	50/0	18.00	16.56	0.688	0.958
LTE	1	B14	Edge 4(red)	QPSK	0	23330	793	50/0	18.00	16.38	0.642	0.932
LTE	1	B17	Edge 4(red)	QPSK	0	23790	710	25/25	18.80	17.69	0.636	0.821
LTE	1	B25	Edge 4(red)	QPSK	0	26140	1860	100/0	17.50	16.32	0.679	0.891
LTE	1	B26	Rear tilt(Edge4 side)	QPSK	9	26865	831.5	1/0	24.00	22.75	0.649	0.865
LTE	1	B38	Edge 4(red)	QPSK	0	38000	2595	100/0	19.80	18.79	0.748	0.944
LTE	1	B41	Edge 4(red)	QPSK	0	40185	2549.5	50/50	20.70	19.74	0.940	1.173
LTE	1	B48	Edge 4(red)	QPSK	0	55340	3560	50/50	10.90	9.83	0.525	0.672
LTE	1	B66	Rear tilt(Edge4 side)	QPSK	9	132072	1720	1/99	24.00	22.73	0.888	1.190
LTE	1	B71	Edge 4(red)	QPSK	0	133297	680.5	1/99	18.80	17.42	0.718	0.987
NR	1	n2	Edge 4(red)	BPSK	0	380000	1900	50/28	17.40	15.92	0.634	0.891
NR	1	n5	Rear tilt(Edge4 side)	BPSK	9	167300	836.5	50/28	24.50	23.01	0.807	1.137
NR	2	n41	Edge 2(red)	BPSK	0	518600	2593	135/69	14.10	13.66	1.020	1.129
NR	1	n66	Rear tilt(Edge4 side)	BPSK	9	344000	1720	50/28	23.50	22.8	0.971	1.141
NR	1	n71	Edge 4(red)	BPSK	0	136100	680.5	50/28	19.70	18.52	0.859	1.127

The sample used for the SAR is not more than 2 dB lower than the maximum tune-up tolerance limit. Measured power is within the tune-up tolerance range.

All measure result is within the device uncertainty.

7.3 Simultaneous transmission SAR result

See section 12 and 13

7.4 Measurement uncertainty

Error Description	Uncert. value	Prob. Dist.	Div.	(ci) 1g	(ci) 10g	Std. Unc. (1g)	Std.Unc. (10g)
Measurement System Errors							
Probe Calibration	± 14.00 %	N	2	1	1	±7.0%	±7.00%
Probe Calibration Drift	± 1.7 %	R	√3	1	1	±1.0%	±1.0%
Probe Linearity	± 4.7 %	R	√3	1	1	±2.7%	±2.7%
Broadband Signal	± 2.6 %	R	√3	1	1	±1.5%	±1.5%
Probe Isotropy	± 7.6 %	R	√3	1	1	±4.4%	±4.4%
Data Acquisition	± 0.3 %	N	1	1	1	±0.3%	±0.3%
RF Ambient	± 1.8 %	N	1	1	1	±1.8%	±1.8%
Probe Positioning	± 0.2 %	N	1	0.33	0.33	±0.1%	±0.1%
Data Processing	± 2.3 %	N	1	1	1	±2.3%	±2.3%
Phantom and Device Errors							
Conductivity (meas.)DAK	± 10.0 %	N	1	0.78	0.71	±7.8%	±7.1%
Conductivity (temp.)BB	± 3.4 %	R	√3	0.78	0.71	±1.5%	±1.4%
Phantom Permittivity	± 14.0 %	R	√3	0.25	0.25	±2.0%	±2.0%
Distance DUT - TSL	± 2.0 %	N	1	2	2	±4.0%	±4.0%
Device Positioning (+/- 0.5mm)	± 1.0 %	N	1	1	1	±1.0%	±1.0%
Device Holder	± 3.6 %	N	1	1	1	±3.6%	±3.6%
DUT Modulationm	± 2.4 %	R	√3	1	1	±1.4%	±1.4%
Time-average SAR	± 2.6 %	R	√3	1	1	±1.5%	±1.5%
DUT drift	± 2.5 %	N	1	1	1	±2.5%	±2.5%
Val Antenna Unc.val	± 0.0 %	N	1	1	1	±0.0%	±0.0%
Unc. Input Powerval	± 0.0 %	N	1	1	1	±0.0%	±0.0%
Correction to the SAR results							
Deviation to Target	± 1.9 %	N	1	1	0.84	±1.9%	±1.6%
SAR scalingp	± 0.0 %	R	√3	1	1	±0.0%	±0.0%
Combined Std. Uncertainty						±14.1%	±13.7%
Expanded STD Uncertainty (κ =2)						±28.2%	±27.4%

8 Software information, Tune up tolerance limit, P_{limit} and input.power.limit

8.1 Software information

*The power value of the EUT was set for testing as follows (setting value might be different from product specification value);
Software: QRCT version 4.0

*This setting of software is the worst case.

The test was performed with condition that obtained the maximum average power (Burst) in pre-check.

Any conditions under the normal use do not exceed the condition of setting.

In addition, end users cannot change the settings of the output power of the product.

8.2 Tune up tolerance limit and P_{limit}

The P_{limit} used in this report are determined and listed in Part 0 report.

If $P_{max} < P_{limit}$ then
 P_{max} is used for test
 Else P_{limit} is used for test

Device uncertainty is 2.0 dB provided from customer.

DSI	SAR design target [W / kg]
0	1.0 other than n41 0.8 NR band n41
1	0.7 all band

Table 8-1 P_{limit} FCC

RAT	Band	DSI=0		DSI=1		P_{max} (Tune up limit) (Burst power Average) [dBm] +/-1dB
		SAR design target [W/kg]	P_{limit} [dBm]	SAR design target [W/kg]	P_{limit} [dBm]	
WCDMA	2	1.0	23.5	0.7	16.4	23.5
WCDMA	4	1.0	22.7	0.7	16.7	22.7
WCDMA	5	1.0	23.5	0.7	16.1	23.5
LTE	2	1.0	23.0	0.7	16.6	23.0
LTE	4	1.0	23.0	0.7	17.2	23.0
LTE	5	1.0	23.0	0.7	16.1	23.0
LTE	7	1.0	23.0	0.7	16.6	23.0
LTE	12	1.0	23.0	0.7	18.4	23.0
LTE	13	1.0	23.0	0.7	17.0	23.0
LTE	14	1.0	23.0	0.7	17.0	23.0
LTE	17	1.0	23.0	0.7	17.8	23.0
LTE	25	1.0	23.0	0.7	16.5	23.0
LTE	26	1.0	23.0	0.7	16.3	23.0
LTE	38	1.0	23.0	0.7	18.8	23.0
LTE	41	1.0	23.0	0.7	19.7	23.0
LTE	48*	1.0	9.9	0.7	9.9	9.9
LTE	66	1.0	23.0	0.7	17.2	23.0
LTE	71	1.0	23.0	0.7	17.8	23.0
NR	n2	1.0	23.5	0.7	16.4	23.5
NR	n5	1.0	23.5	0.7	16.3	23.5
NR	n41	0.8	20.5	0.7	13.1	20.5
NR	n66	1.0	22.5	0.7	17.1	22.5
NR	n71	1.0	23.5	0.7	18.7	23.5

Powers are specified as burst average.

For LTE B48

Uplink Downlink config (UDC)	Special sub frame (SSF)	Burst ave tune up DSI=1 [dBm]	Pmax burst ave [dBm]	Time ave DSI=1/0 [dBm]
0	0 to 7	9.9	9.9	7.5
1	0 to 7	11.3	11.3	7.5
2	0 to 7	14.2	14.2	7.5
3	0 to 7	12.8	12.8	7.5
4	0 to 7	14.4	14.4	7.5
5	0 to 7	17.3	17.3	7.5
6	0 to 7	10.4	10.4	7.5

LTE band 48 doesn't have a same burst tune up for UDC/SSF but has same time average tune up limit. Highest burst ave tune up limit is used for exclusion calculation and tested with highest time average details are shown in the power measurement section.

9 SAR Exposure Conditions (Test Configurations)

9.1 Summary of the distance between antenna and surface of EUT

Table 9-1 summary of distance

Test position	Distance[mm]	
	Ant 1	Ant 2
Edge1	41.80	28.6
Edge2	268.40	2.7
Edge3	82.10	138.8
Edge4	1.70	268.2
Rear	7.60	7.30
Rear Tilt(Edge4 side)	0.00	0.00
Rear Tilt(Edge2 side)	0.00	0.00
Rear Tilt(Edge1 side)	0.00	0.00

Notes

- Rear tilt (Edge1/2/4 side), distances are applied 0.00 mm as conservative.
- Details are shown in appendix

9.2 SAR-based Exemption - FCC section 1.1307

Exception condition as per section 1.1307 (b)(3)(i)(B) the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} (mW) = \begin{cases} ERP_{20dm} (d/20 cm)^x & d \leq 20 cm \\ ERP_{20cm} & 20 cm < d \leq 40cm \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20dm} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

And

$$ERP_{20cm} (mW) = \begin{cases} 2040 f & 0.3 GHz \leq f < 1.5 GHz \\ 3060 & 1.5 GHz \leq f \leq 6 GHz \end{cases}$$

d = the separation distance.

When separation distance is less than 0.5 cm, no exemption condition, so test is required.

As per section 1.1307 (b)(2)

Separation distance is the minimum distance in any direction from any part of a radiating structure and any part of the body of a nearby person.

Radiating structure is an unshielded RF current-carrying conductor that generates an RF reactive near electric or magnetic field and/or radiates an RF electromagnetic wave. It is the component of an RF source that transmits, generates, or reradiates an RF fields, such as an antenna, aperture, coil, or plate.

Table 9-2 For full power exemption FCC

Antenna	RAT	Band	Frequency [MHz]	Output Power or ERP		Separation Distances (mm)								Calculated Threshold Value								
				dBm	mW	Edge1	Edge2	Edge3	Edge4	Rear	Rear Tilt (Edge2 side)	Rear Tilt (Edge3 side)	Rear Tilt (Edge1 side)	Edge1	Edge2	Edge3	Edge4	Rear	Rear Tilt (Edge2 side)	Rear Tilt (Edge3 side)	Rear Tilt (Edge1 side)	
#1	WCDMA	B2	1850	25.11	324	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	171 mW MEASURE	1960 mW EXEMPT	594 mW EXEMPT	<5mm	7 mW MEASURE	<5mm	1960 mW EXEMPT	<5mm	171 mW MEASURE
#1	WCDMA	B4	1710	24.03	253	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	178 mW MEASURE	1960 mW EXEMPT	603 mW EXEMPT	<5mm	8 mW MEASURE	<5mm	1960 mW EXEMPT	<5mm	178 mW MEASURE
#1	WCDMA	B5	824	24.50	282	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	180 mW MEASURE	1880 mW EXEMPT	481 mW EXEMPT	<5mm	17 mW MEASURE	<5mm	1880 mW EXEMPT	<5mm	180 mW MEASURE
#1	LTE	B2	1850	24.61	289	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	171 mW MEASURE	1960 mW EXEMPT	594 mW EXEMPT	<5mm	7 mW MEASURE	<5mm	1960 mW EXEMPT	<5mm	171 mW MEASURE
#1	LTE	B4	1710	24.33	271	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	178 mW MEASURE	1960 mW EXEMPT	603 mW EXEMPT	<5mm	8 mW MEASURE	<5mm	1960 mW EXEMPT	<5mm	178 mW MEASURE
#1	LTE	B5	824	24.00	251	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	180 mW MEASURE	1880 mW EXEMPT	481 mW EXEMPT	<5mm	17 mW MEASURE	<5mm	1880 mW EXEMPT	<5mm	180 mW MEASURE
#1	LTE	B7	2500	23.50	224	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	155 mW MEASURE	1960 mW EXEMPT	565 mW EXEMPT	<5mm	6 mW MEASURE	<5mm	1960 mW EXEMPT	<5mm	155 mW MEASURE
#1	LTE	B12	699	24.00	251	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	187 mW MEASURE	1960 mW EXEMPT	449 mW EXEMPT	<5mm	22 mW MEASURE	<5mm	1960 mW EXEMPT	<5mm	187 mW MEASURE
#1	LTE	B13	777	24.00	251	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	186 mW MEASURE	1552 mW EXEMPT	409 mW EXEMPT	<5mm	18 mW MEASURE	<5mm	1552 mW EXEMPT	<5mm	186 mW MEASURE
#1	LTE	B14	788	24.00	251	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	186 mW MEASURE	1607 mW EXEMPT	472 mW EXEMPT	<5mm	18 mW MEASURE	<5mm	1607 mW EXEMPT	<5mm	186 mW MEASURE
#1	LTE	B17	704	24.00	251	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	187 mW MEASURE	1834 mW EXEMPT	456 mW EXEMPT	<5mm	20 mW MEASURE	<5mm	1834 mW EXEMPT	<5mm	187 mW MEASURE
#1	LTE	B25	1850	24.61	289	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	171 mW MEASURE	1960 mW EXEMPT	594 mW EXEMPT	<5mm	7 mW MEASURE	<5mm	1960 mW EXEMPT	<5mm	171 mW MEASURE
#1	LTE	B26	814	24.00	251	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	188 mW MEASURE	1660 mW EXEMPT	479 mW EXEMPT	<5mm	17 mW MEASURE	<5mm	1660 mW EXEMPT	<5mm	188 mW MEASURE
#1	LTE	B38	2570	24.00	251	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	153 mW MEASURE	1960 mW EXEMPT	551 mW EXEMPT	<5mm	6 mW MEASURE	<5mm	1960 mW EXEMPT	<5mm	153 mW MEASURE
#1	LTE	B41	2496	24.00	251	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	155 mW MEASURE	1960 mW EXEMPT	561 mW EXEMPT	<5mm	6 mW MEASURE	<5mm	1960 mW EXEMPT	<5mm	155 mW MEASURE
#1	LTE	B48	3550	18.54	71	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	137 mW EXEMPT	1860 mW EXEMPT	524 mW EXEMPT	<5mm	4 mW MEASURE	<5mm	1860 mW EXEMPT	<5mm	137 mW EXEMPT
#1	LTE	B66	1710	24.33	271	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	176 mW MEASURE	1960 mW EXEMPT	603 mW EXEMPT	<5mm	8 mW MEASURE	<5mm	1960 mW EXEMPT	<5mm	176 mW MEASURE
#1	LTE	B71	663	24.00	251	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	187 mW MEASURE	1352 mW EXEMPT	439 mW EXEMPT	<5mm	22 mW MEASURE	<5mm	1352 mW EXEMPT	<5mm	187 mW MEASURE
#1	NR	n2	1850	25.11	324	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	171 mW MEASURE	1960 mW EXEMPT	594 mW EXEMPT	<5mm	7 mW MEASURE	<5mm	1960 mW EXEMPT	<5mm	171 mW MEASURE
#1	NR	n5	824	24.50	282	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	180 mW MEASURE	1880 mW EXEMPT	481 mW EXEMPT	<5mm	17 mW MEASURE	<5mm	1880 mW EXEMPT	<5mm	180 mW MEASURE
#2	NR	n41	2496	21.50	141	28.60	2.70	138.80	268.20	7.30	N/A	0.00	0.00	172 mW MEASURE	MEASURE	EXEMPT	<5mm	8 mW MEASURE	<5mm	EXEMPT	<5mm	172 mW MEASURE
#1	NR	n66	1710	23.83	242	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	176 mW MEASURE	1960 mW EXEMPT	603 mW EXEMPT	<5mm	8 mW MEASURE	<5mm	1960 mW EXEMPT	<5mm	176 mW MEASURE
#1	NR	n71	663	24.50	282	41.80	268.40	82.10	1.70	7.60	0.00	N/A	0.00	187 mW MEASURE	1352 mW EXEMPT	439 mW EXEMPT	<5mm	22 mW MEASURE	<5mm	1352 mW EXEMPT	<5mm	187 mW MEASURE

Table 9-3 For reduction exemption FCC

Antenna	RAT	Band	Frequency (MHz)	Power/ERP			Edge2	Edge4	Rear	Rear T/R (Edge4 side)	Edge2	Edge4	Rear	Rear T/R (Edge4 side)	Rear T/R (Edge2 side)
				dBm	mW	dBm									
#1	WCDMA	B2	1850	18.01	63	283.40	1.70	7.60	0.00	3000 μW -EXEMPT	<5mV MEASURE	7.60 MEASURE	<5mV MEASURE	3000 μW -EXEMPT	
#1	WCDMA	B4	1710	18.03	64	283.40	1.70	7.60	0.00	3000 μW -EXEMPT	<5mV MEASURE	8.60 MEASURE	<5mV MEASURE	3000 μW -EXEMPT	
#1	WCDMA	B5	824	17.10	51	283.40	1.70	7.60	0.00	1440.00 μW -EXEMPT	<5mV MEASURE	17.00 MEASURE	<5mV MEASURE	1440.00 μW -EXEMPT	
#1	LTE	B2	1850	18.21	66	283.40	1.70	7.60	0.00	3000 μW -EXEMPT	<5mV MEASURE	7.60 MEASURE	<5mV MEASURE	3000 μW -EXEMPT	
#1	LTE	B4	1710	18.53	71	283.40	1.70	7.60	0.00	3000 μW -EXEMPT	<5mV MEASURE	8.60 MEASURE	<5mV MEASURE	3000 μW -EXEMPT	
#1	LTE	B5	824	17.10	51	283.40	1.70	7.60	0.00	1440.00 μW -EXEMPT	<5mV MEASURE	17.00 MEASURE	<5mV MEASURE	1440.00 μW -EXEMPT	
#1	LTE	B7	2500	17.60	58	283.40	1.70	7.60	0.00	3000 μW -EXEMPT	<5mV MEASURE	8.60 MEASURE	<5mV MEASURE	3000 μW -EXEMPT	
#1	LTE	B12	699	19.40	87	283.40	1.70	7.60	0.00	1420.00 μW -EXEMPT	<5mV MEASURE	20.00 MEASURE	<5mV MEASURE	1420.00 μW -EXEMPT	
#1	LTE	B13	777	18.00	63	283.40	1.70	7.60	0.00	1383.00 μW -EXEMPT	<5mV MEASURE	18.00 MEASURE	<5mV MEASURE	1383.00 μW -EXEMPT	
#1	LTE	B14	788	18.00	63	283.40	1.70	7.60	0.00	1407.32 μW -EXEMPT	<5mV MEASURE	18.00 MEASURE	<5mV MEASURE	1407.32 μW -EXEMPT	
#1	LTE	B17	704	18.80	76	283.40	1.70	7.60	0.00	1438.18 μW -EXEMPT	<5mV MEASURE	20.00 MEASURE	<5mV MEASURE	1438.18 μW -EXEMPT	
#1	LTE	B25	1850	18.11	65	283.40	1.70	7.60	0.00	3000 μW -EXEMPT	<5mV MEASURE	7.60 MEASURE	<5mV MEASURE	3000 μW -EXEMPT	
#1	LTE	B26	814	17.30	54	283.40	1.70	7.60	0.00	1400.00 μW -EXEMPT	<5mV MEASURE	17.00 MEASURE	<5mV MEASURE	1400.00 μW -EXEMPT	
#1	LTE	B38	2570	19.80	95	283.40	1.70	7.60	0.00	3000 μW -EXEMPT	<5mV MEASURE	8.60 MEASURE	<5mV MEASURE	3000 μW -EXEMPT	
#1	LTE	B41	2496	20.70	117	283.40	1.70	7.60	0.00	3000 μW -EXEMPT	<5mV MEASURE	8.60 MEASURE	<5mV MEASURE	3000 μW -EXEMPT	
#1	LTE	B48	3550	18.54	71	283.40	1.70	7.60	0.00	3000 μW -EXEMPT	<5mV MEASURE	8.60 MEASURE	<5mV MEASURE	3000 μW -EXEMPT	
#1	LTE	B66	1710	18.53	71	283.40	1.70	7.60	0.00	3000 μW -EXEMPT	<5mV MEASURE	8.60 MEASURE	<5mV MEASURE	3000 μW -EXEMPT	
#1	LTE	B71	663	18.80	76	283.40	1.70	7.60	0.00	1352.22 μW -EXEMPT	<5mV MEASURE	22.00 MEASURE	<5mV MEASURE	1352.22 μW -EXEMPT	
#1	NR	n2	1850	18.01	63	283.40	1.70	7.60	0.00	3000 μW -EXEMPT	<5mV MEASURE	8.60 MEASURE	<5mV MEASURE	3000 μW -EXEMPT	
#1	NR	n5	824	17.30	54	283.40	1.70	7.60	0.00	1440.00 μW -EXEMPT	<5mV MEASURE	17.00 MEASURE	<5mV MEASURE	1440.00 μW -EXEMPT	
#2	NR	n41	2496	14.10	26	2.70	268.20	7.10	N/A	<5mV MEASURE	1000 μW EXEMPT	8.60 MEASURE	<5mV MEASURE	1000 μW EXEMPT	
#1	NR	n66	1710	18.43	70	283.40	1.70	7.60	0.00	3000 μW -EXEMPT	<5mV MEASURE	8.60 MEASURE	<5mV MEASURE	3000 μW -EXEMPT	
#1	NR	n71	663	19.70	93	283.40	1.70	7.60	0.00	1352.22 μW -EXEMPT	<5mV MEASURE	22.00 MEASURE	<5mV MEASURE	1352.22 μW -EXEMPT	

:	measurement is NOT required
:	measurement is required

10 SAR System Check

10.1 Dielectric Property

The dielectric parameters were checked prior to assessment using the DAK dielectric probe kit.

According to KDB865664 D01, the dielectric constant (ϵ_r) and conductivity (σ) of typical tissue-equivalent media recipes are expected to be within 5% of the required target values for a range of approximately 50 MHz at frequencies below 300 MHz. At above 3 GHz, 5% tolerance can usually be maintained for ± 100 MHz or more.

For SAR measurement systems that have implemented the SAR error compensation algorithms documented in IEEE Std 1528-2013, to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, the tolerance for ϵ_r and σ may be relaxed to $\pm 10\%$ (≤ 3 GHz).

The dielectric parameters were linearly interpolated between the closest pair of target frequencies defined in KDB 865664D01 to determine the applicable dielectric parameters corresponding to the device test frequency for measurement.

Listed conductivity and relative permittivity values including the target are rounded one or two decimal places due to significant digit, so some differences might be observed, and actual SAR calculation is done four decimal places.

Table 10-1 standard parameters on the KDB 865664D01

Target Frequency (MHz)	Head		Body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000 \text{ kg/m}^3$)

Table 10-2 Dielectric Property Measurements Result:

DIELECTRIC PARAMETERS MEASUREMENT RESULTS													
Date	Ambient Temp. [deg.c]	Relative Humidity [%]	Liquid type	Liquid Temp. [deg.c]	Measured Frequency [MHz]	Target σ	Target ϵ_r	Measure σ	Measure ϵ_r	Deviation σ [%]	Deviation ϵ_r [%]	Limit [%]	Remark
2021/7/5	19.0	44.0	MBBL600-6000	19.0	3500.0	3.31	51.3	3.19	48.9	-3.9	-4.7	+5	
2021/7/5	19.0	44.0	MBBL600-6000	19.0	3600.0	3.43	51.2	3.33	48.9	-3.1	-4.4	+5	
2021/7/5	19.0	44.0	MBBL600-6000	19.0	3700.0	3.55	51.1	3.46	49.4	-2.5	-3.3	+5	
2021/7/5	19.0	44.0	MBBL600-6000	19.0	3800.0	3.66	50.914	3.57	49.6	-2.6	-2.7	+5	
2021/7/12	21.0	34.0	MBBL600-6000	21.0	650.0	0.96	55.921	0.97	53.8	1.9	-3.8	+5	
2021/7/12	21.0	34.0	MBBL600-6000	21.0	750.0	0.96	55.531	1.01	53.5	4.5	-3.6	+5	
2021/7/14	23.0	54.0	MBBL600-6000	23.0	1650.0	1.43	53.695	1.44	51.3	0.8	-4.5	+5	
2021/7/14	23.0	54.0	MBBL600-6000	23.0	1750.0	1.49	53.432	1.50	51.2	0.9	-4.2	+5	
2021/7/14	23.0	54.0	MBBL600-6000	23.0	1850.0	1.52	53.3	1.56	51.0	2.8	-4.2	+5	
2021/7/15	23.0	54.0	MBBL600-6000	23.0	650.0	0.96	55.921	0.96	55.3	0.4	-1.1	+5	
2021/7/15	23.0	54.0	MBBL600-6000	23.0	750.0	0.96	55.531	0.99	55.0	3.2	-1.0	+5	
2021/7/15	23.0	54.0	MBBL600-6000	23.0	850.0	0.99	55.154	1.03	54.7	4.7	-0.9	+5	
2021/7/16	21.0	60.0	MBBL600-6000	20.0	3500.0	3.31	51.321	3.17	50.3	-4.5	-1.9	+5	
2021/7/16	21.0	60.0	MBBL600-6000	20.0	3600.0	3.43	51.186	3.28	50.2	-4.4	-1.9	+5	
2021/7/16	21.0	60.0	MBBL600-6000	20.0	3600.0	3.43	51.186	3.35	50.6	-2.3	-1.1	+5	
2021/7/16	21.0	60.0	MBBL600-6000	20.0	3700.0	3.55	51.05	3.47	50.4	-2.3	-1.2	+5	
2021/7/16	21.0	60.0	MBBL600-6000	20.0	3800.0	3.66	50.914	3.60	50.2	-1.8	-1.3	+5	
2021/7/19	22.0	53.0	MBBL600-6000	22.0	2450.0	1.95	52.7	2.04	50.6	4.5	-4.1	+5	
2021/7/19	22.0	53.0	MBBL600-6000	22.0	2500.0	2.02	52.636	2.10	50.4	4.1	-4.3	+5	
2021/7/19	22.0	53.0	MBBL600-6000	22.0	2550.0	2.09	52.573	2.13	50.2	2.0	-4.6	+5	
2021/7/19	22.0	53.0	MBBL600-6000	22.0	2600.0	2.16	52.509	2.17	50.0	0.2	-4.7	+5	
2021/7/19	22.0	53.0	MBBL600-6000	22.0	2700.0	2.31	52.382	2.26	49.9	-2.0	-4.7	+5	
2021/7/20	23.0	50.0	MBBL600-6000	22.0	785.0	0.97	55.395	0.99	54.5	2.5	-1.7	+5	
2021/7/20	23.0	50.0	MBBL600-6000	22.0	835.0	0.97	55.2	1.01	54.3	3.6	-1.7	+5	
2021/7/20	23.0	50.0	MBBL600-6000	22.0	885.0	1.03	55.046	1.02	54.2	-0.8	-1.6	+5	
2021/7/22	19.0	39.0	MBBL600-6000	19.0	3400.0	3.20	51.457	3.07	49.2	-3.9	-4.3	+5	
2021/7/22	19.0	39.0	MBBL600-6000	19.0	3500.0	3.31	51.321	3.17	48.9	-4.3	-4.6	+5	
2021/7/22	19.0	39.0	MBBL600-6000	19.0	3600.0	3.43	51.186	3.29	48.8	-4.1	-4.6	+5	
2021/7/22	19.0	39.0	MBBL600-6000	19.0	3700.0	3.55	51.05	3.41	48.6	-3.8	-4.7	+5	
2021/7/22	19.0	39.0	MBBL600-6000	19.0	3800.0	3.66	50.914	3.53	48.5	-3.7	-4.7	+5	
2021/7/26	19.0	42.0	MBBL600-6000	19.0	3400.0	3.20	51.457	3.07	49.3	-3.9	-4.2	+5	
2021/7/26	19.0	42.0	MBBL600-6000	19.0	3500.0	3.31	51.321	3.18	49.1	-4.0	-4.4	+5	
2021/7/26	19.0	42.0	MBBL600-6000	19.0	3600.0	3.43	51.186	3.30	48.8	-3.8	-4.6	+5	
2021/7/26	19.0	42.0	MBBL600-6000	19.0	3700.0	3.55	51.05	3.43	48.6	-3.4	-4.7	+5	
2021/7/26	19.0	42.0	MBBL600-6000	19.0	3800.0	3.66	50.914	3.55	48.5	-3.1	-4.7	+5	
2021/7/26	23.0	50.0	MBBL600-6000	23.0	1800.0	1.52	53.3	1.52	50.8	-0.1	-4.8	+5	
2021/7/26	23.0	50.0	MBBL600-6000	23.0	1900.0	1.52	53.3	1.59	50.9	4.8	-4.5	+5	
2021/7/26	22.0	41.0	MBBL600-6000	22.0	2450.0	1.95	52.7	2.04	50.2	4.7	-4.8	+5	
2021/7/26	22.0	41.0	MBBL600-6000	22.0	2500.0	2.02	52.636	2.08	50.2	2.7	-4.6	+5	
2021/7/26	22.0	41.0	MBBL600-6000	22.0	2550.0	2.09	52.573	2.12	50.2	1.3	-4.5	+5	
2021/7/26	22.0	41.0	MBBL600-6000	22.0	2600.0	2.16	52.509	2.17	50.1	0.3	-4.6	+5	
2021/7/26	22.0	41.0	MBBL600-6000	22.0	2700.0	2.31	52.382	2.26	50.0	-1.8	-4.6	+5	
2021/7/27	22.5	43.0	MBBL600-6000	22.5	1650.0	1.43	53.695	1.45	51.3	1.4	-4.4	+5	
2021/7/27	22.5	43.0	MBBL600-6000	22.5	1750.0	1.49	53.432	1.50	51.1	1.0	-4.4	+5	
2021/7/27	22.5	43.0	MBBL600-6000	22.5	1850.0	1.52	53.3	1.58	51.0	3.8	-4.3	+5	
2021/8/2	23.0	50.0	MBBL600-6000	23.0	650.0	0.96	55.921	0.91	54.9	-4.5	-1.8	+5	
2021/8/2	23.0	50.0	MBBL600-6000	23.0	750.0	0.96	55.531	0.95	54.7	-1.8	-1.6	+5	
2021/8/2	23.0	50.0	MBBL600-6000	23.0	850.0	0.99	55.154	0.98	54.4	-0.4	-1.3	+5	
2021/8/2	23.0	50.0	MBBL600-6000	23.0	1650.0	1.43	53.695	1.40	53.1	-1.9	-1.1	+5	
2021/8/2	23.0	50.0	MBBL600-6000	23.0	1750.0	1.49	53.432	1.46	52.9	-1.6	-1.0	+5	
2021/8/2	23.0	50.0	MBBL600-6000	23.0	1850.0	1.52	53.3	1.53	52.7	0.7	-1.1	+5	
2021/8/2	21.5	50.0	MBBL600-6000	21.5	650.0	0.96	55.921	0.96	53.8	0.4	-3.8	+5	
2021/8/2	21.5	50.0	MBBL600-6000	21.5	750.0	0.96	55.531	0.99	53.6	3.2	-3.5	+5	
2021/8/2	21.5	50.0	MBBL600-6000	21.5	850.0	0.99	55.154	1.03	53.4	4.4	-3.3	+5	

2021/8/9	21.1	50.0	MBBL600-6000	21.1	650.0	0.96	55.921	0.96	53.4	0.3	-4.5	+5	
2021/8/9	21.1	50.0	MBBL600-6000	21.1	750.0	0.96	55.531	0.99	53.1	3.2	-4.3	+5	
2021/8/9	21.1	50.0	MBBL600-6000	21.1	850.0	0.99	55.154	1.04	52.8	4.8	-4.3	+5	
2021/8/10	20.5	45.0	MBBL600-6000	20.5	2500.0	2.02	52.636	2.13	51.6	5.4	-1.9	+10	
2021/8/10	20.5	45.0	MBBL600-6000	20.5	2600.0	2.16	52.509	2.22	51.4	2.7	-2.1	+5	
2021/8/10	20.5	45.0	MBBL600-6000	20.5	2700.0	2.31	52.382	2.32	51.2	0.7	-2.2	+5	
2021/8/10	20.5	45.0	MBBL600-6000	20.5	3400.0	3.20	51.457	3.06	49.8	-4.3	-3.1	+5	
2021/8/10	20.5	45.0	MBBL600-6000	20.5	3500.0	3.31	51.321	3.17	49.6	-4.3	-3.3	+5	
2021/8/10	20.5	45.0	MBBL600-6000	20.5	3600.0	3.43	51.186	3.29	49.5	-4.2	-3.3	+5	
2021/8/10	20.5	45.0	MBBL600-6000	20.5	3700.0	3.55	51.05	3.40	49.3	-4.2	-3.3	+5	
2021/8/11	23.0	40.0	MBBL600-6000	22.5	1650.0	1.43	53.695	1.42	51.5	-0.1	-4.0	+5	
2021/8/11	23.0	40.0	MBBL600-6000	22.5	1750.0	1.49	53.432	1.48	51.3	-0.4	-3.9	+5	
2021/8/11	23.0	40.0	MBBL600-6000	22.5	1850.0	1.52	53.3	1.54	51.2	1.6	-3.9	+5	
2021/8/12	20.0	46.0	MBBL600-6000	20.0	1800.0	1.52	53.3	1.53	54.2	0.6	1.7	+5	
2021/8/12	20.0	46.0	MBBL600-6000	20.0	1900.0	1.52	53.3	1.59	54.0	4.6	1.2	+5	
2021/8/12	20.0	46.0	MBBL600-6000	20.0	1905.0	1.52	53.3	1.59	54.0	4.8	1.3	+5	
2021/8/16	20.0	50.0	MBBL600-6000	20.0	1800.0	1.52	53.3	1.51	55.8	-0.4	4.6	+5	
2021/8/16	20.0	50.0	MBBL600-6000	20.0	1900.0	1.52	53.3	1.59	55.8	4.5	4.6	+5	
2021/8/16	20.0	50.0	MBBL600-6000	20.0	1905.0	1.52	53.3	1.59	55.8	4.7	4.7	+5	
2021/8/16	20.0	45.0	MBBL600-6000	20.0	2500.0	2.02	52.636	2.17	54.3	7.3	3.1	+10	
2021/8/16	20.0	45.0	MBBL600-6000	20.0	2600.0	2.16	52.509	2.26	54.1	4.5	2.9	+5	
2021/8/16	20.0	45.0	MBBL600-6000	20.0	2700.0	2.31	52.382	2.37	53.9	2.7	2.9	+5	
2021/8/16	20.0	45.0	MBBL600-6000	20.0	3400.0	3.20	51.457	3.17	52.3	-0.7	1.7	+5	
2021/8/16	20.0	45.0	MBBL600-6000	20.0	3500.0	3.31	51.321	3.29	52.1	-0.7	1.6	+5	
2021/8/16	20.0	45.0	MBBL600-6000	20.0	3600.0	3.43	51.186	3.41	52.0	-0.6	1.6	+5	
2021/8/16	20.0	45.0	MBBL600-6000	20.0	3700.0	3.55	51.05	3.53	51.8	-0.4	1.5	+5	
2021/8/16	20.0	45.0	MBBL600-6000	20.0	3800.0	3.66	50.914	3.67	51.6	0.1	1.4	+5	
2021/8/16	20.0	50.0	MBBL600-6000	20.0	1800.0	1.52	53.3	1.51	55.8	-0.4	4.6	+5	
2021/8/16	20.0	50.0	MBBL600-6000	20.0	1900.0	1.52	53.3	1.59	55.8	4.5	4.6	+5	
2021/8/16	20.0	50.0	MBBL600-6000	20.0	1910.0	1.52	53.3	1.59	55.8	4.9	4.7	+5	
2021/8/18	20.0	50.0	MBBL600-6000	20.0	735.0	0.96	55.59	0.98	52.9	1.7	-4.8	+5	
2021/8/18	20.0	50.0	MBBL600-6000	20.0	835.0	0.97	55.2	1.01	52.8	4.2	-4.3	+5	
2021/8/18	20.0	50.0	MBBL600-6000	20.0	935.0	1.07	54.963	1.05	52.6	-1.4	-4.3	+5	
2021/8/23	22.0	45.0	MBBL600-6000	22.0	650.0	0.96	55.921	0.95	54.0	-0.4	-3.4	+5	
2021/8/23	22.0	45.0	MBBL600-6000	22.0	750.0	0.96	55.531	0.99	53.8	2.5	-3.2	+5	
2021/8/23	22.0	45.0	MBBL600-6000	22.0	850.0	0.99	55.154	1.03	53.5	3.7	-3.0	+5	
2021/8/26	22.0	45.0	MBBL600-6000	22.0	2500.0	2.02	52.636	2.10	50.5	3.7	-4.0	+5	
2021/8/26	22.0	45.0	MBBL600-6000	22.0	2600.0	2.16	52.509	2.18	50.4	0.9	-4.1	+5	
2021/8/26	22.0	45.0	MBBL600-6000	22.0	2700.0	2.31	52.382	2.27	50.2	-1.6	-4.1	+5	
2021/8/30	20.0	42.0	MBBL600-6000	20.0	2500.0	2.02	52.636	2.16	51.6	6.9	-2.0	+10	
2021/8/30	20.0	42.0	MBBL600-6000	20.0	2593.0	2.15	52.518	2.22	51.2	3.3	-2.6	+5	
2021/8/30	20.0	42.0	MBBL600-6000	20.0	2600.0	2.16	52.509	2.23	51.1	3.1	-2.6	+5	
2021/8/30	20.0	42.0	MBBL600-6000	20.0	2700.0	2.31	52.382	2.32	50.9	0.8	-2.8	+5	
2021/8/30	20.0	42.0	MBBL600-6000	20.0	3400.0	3.20	51.457	3.07	49.6	-4.1	-3.5	+5	
2021/8/30	20.0	42.0	MBBL600-6000	20.0	3500.0	3.31	51.321	3.19	49.5	-3.9	-3.5	+5	
2021/8/30	20.0	42.0	MBBL600-6000	20.0	3600.0	3.43	51.186	3.30	49.4	-3.8	-3.5	+5	
2021/9/8	20.0	46.0	MBBL600-6000	20.0	2500.0	2.02	52.636	2.12	52.7	4.7	0.0	+5	
2021/9/8	20.0	46.0	MBBL600-6000	20.0	2600.0	2.16	52.509	2.23	52.6	3.0	0.1	+5	
2021/9/8	20.0	46.0	MBBL600-6000	20.0	2700.0	2.31	52.382	2.33	52.4	1.0	0.0	+5	
2021/9/8	20.0	46.0	MBBL600-6000	20.0	3400.0	3.20	51.457	3.09	51.0	-3.5	-0.9	+5	
2021/9/8	20.0	46.0	MBBL600-6000	20.0	3500.0	3.31	51.321	3.20	50.9	-3.3	-0.9	+5	
2021/9/8	20.0	46.0	MBBL600-6000	20.0	3600.0	3.43	51.186	3.32	50.7	-3.2	-1.0	+5	
2021/9/8	20.0	46.0	MBBL600-6000	20.0	3700.0	3.55	51.05	3.44	50.5	-3.0	-1.0	+5	
2021/9/8	20.0	46.0	MBBL600-6000	20.0	3800.0	3.66	50.914	3.57	50.4	-2.6	-1.1	+5	
2021/9/21	20.0	38.0	MBBL600-6000	20.0	2500.0	2.02	52.636	2.07	50.2	2.6	-4.6	+5	
2021/9/21	20.0	38.0	MBBL600-6000	20.0	2600.0	2.16	52.509	2.15	50.0	-0.4	-4.8	+5	
2021/9/21	20.0	38.0	MBBL600-6000	20.0	2700.0	2.31	52.382	2.24	49.9	-2.7	-4.8	+5	
2021/11/05	20.0	30.0	MBBL600-6000	19.0	3400.0	3.20	51.46	3.04	49.9	-4.8	-3.1	+5	
2021/11/05	20.0	30.0	MBBL600-6000	19.0	3500.0	3.31	51.32	3.15	49.7	-4.9	-3.2	+5	
2021/11/05	20.0	30.0	MBBL600-6000	19.0	3600.0	3.43	51.19	3.27	49.5	-4.6	-3.3	+5	

For additional testing (WLAN and Bluetooth)

Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
				Measured	Target	Delta (%)	Measured	Target	Delta (%)
2021/06/15	2450	Body	2450	51.17	52.70	-2.90	2.04	1.95	4.62
			2400	51.27	52.77	-2.84	1.95	1.90	2.51
			2480	50.98	52.66	-3.19	2.07	1.99	4.09
2021/06/16	5300	Body	5250	46.87	48.95	-4.24	5.49	5.36	2.38
			5180	47.10	49.04	-3.96	5.30	5.28	0.44
			5320	46.83	48.85	-4.14	5.61	5.44	3.14
2021/06/17	5600	Body	5600	46.26	48.47	-4.56	5.92	5.77	2.61
			5500	46.57	48.61	-4.19	5.84	5.65	3.32
			5720	46.01	48.31	-4.76	6.17	5.91	4.53
2021/06/18	5800	Body	5800	45.95	48.20	-4.67	6.24	6.00	4.02
			5740	46.00	48.28	-4.73	6.21	5.93	4.67
			5830	45.88	48.17	-4.75	6.26	6.04	3.58

10.2 System check

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are re-measured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

10.2.1 System Performance Check Measurement Conditions:

- The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness: 2.0 ± 0.2 mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.
- The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm for SAR measurements ≤ 3 GHz and ≥ 10.0 cm for measurements > 3 GHz.
- The DASY system with an E-Field Probe was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 10 mm (above 1 GHz) and 15 mm (below 1 GHz) from dipole center to the simulating liquid surface.
- The coarse grid with a grid spacing of 15 mm was aligned with the dipole.
For 5 GHz band - The coarse grid with a grid spacing of 10 mm was aligned with the dipole.
- Special 7x7x7 (below 3 GHz) and/or 8x8x7 (above 3 GHz) fine cube was chosen for the cube.
- Distance between probe sensors and phantom surface was set to 3 mm.
For 5 GHz band - Distance between probe sensors and phantom surface was set to 2.5 mm
- The dipole input power (forward power) was 100 mW.
- The results are normalized to 1 W input power.

The target(reference) SAR values can be obtained from the calibration certificate of system validation dipoles(Refer to Appendix). The target SAR values are SAR measured value in the calibration certificate scaled to 1W.

10.2.2 System Check Results

The 1-g and 10-g SAR measured with a reference dipole, using the required tissue-equivalent medium at the test frequency, must be within $\pm 10\%$ of the manufacturer calibrated dipole SAR target. Refer to Appendix for the SAR System Check Plots.

Date Tested	Test Freq	Model,S/N	T.S. Liquid	Measured Results		Target (Ref. Value)	Delta $\pm 10\%$	
				Zoom Scan	Normalize to 1 W			
2021/7/5	3500	D3500,1052	Body	1g	6.55	65.5	64.20	2.02
				10g	2.44	24.4	23.80	2.52
2021/7/5	3700	D3700V2,1078	Body	1g	6.37	63.7	62.90	1.27
				10g	2.27	22.70	22.40	1.34
2021/7/12	750	D750,1058	Body	1g	2.31	9.24	8.92	3.59
				10g	1.54	6.16	5.88	4.76
2021/7/14	1750	D1750,1089	Body	1g	8.59	34.36	36.64	-6.22
				10g	4.52	18.08	19.48	-7.19
2021/7/15	750	D750,1058	Body	1g	2.19	8.76	8.92	-1.79
				10g	1.45	5.80	5.88	-1.36
2021/7/16	3700	D3700V2,1078	Body	1g	6.21	62.10	62.90	-1.27
				10g	2.28	22.80	22.40	1.79
2021/7/16	3500	D3500,1052	Body	1g	5.97	59.70	64.20	-7.01
				10g	2.25	22.50	23.80	-5.46
2021/7/19	2450	D2450,713	Body	1g	14.50	58.00	53.20	9.02
				10g	6.61	26.44	24.72	6.96
2021/7/19	2600	D2600,1030	Body	1g	14.50	58.00	54.80	5.84
				10g	6.33	25.32	24.24	4.46
2021/7/19	835	D835,4d149	Body	1g	2.50	10.00	9.84	1.63
				10g	1.62	6.48	6.44	0.62
2021/7/22	3500	D3500,1052	Body	1g	6.71	67.10	64.20	4.52
				10g	2.48	24.80	23.80	4.20
2021/7/22	3700	D3700V2,1078	Body	1g	6.75	67.50	62.90	7.31
				10g	2.43	24.30	22.40	8.48
2021/7/26	3500	D3500,1052	Body	1g	6.86	68.60	64.20	6.85
				10g	2.53	25.30	23.80	6.30
2021/7/26	3700	D3700V2,1078	Body	1g	6.68	66.80	62.90	6.20
				10g	2.39	23.90	22.40	6.70
2021/7/26	1900	D1900,5d169	Body	1g	10.80	43.20	39.48	9.42
				10g	5.57	22.28	20.88	6.70
2021/7/26	2450	D2450,713	Body	1g	14.30	57.20	53.20	7.52
				10g	6.49	25.96	24.72	5.02
2021/7/26	2600	D2600,1030	Body	1g	14.80	59.20	54.80	8.03
				10g	6.42	25.68	24.24	5.94
2021/7/27	1750	D1750,1089	Body	1g	9.97	39.88	36.64	8.84
				10g	5.24	20.96	19.48	7.60

Date Tested	Test Freq	Model,S/N	T.S. Liquid		Measured Results		Target (Ref. Value)	Delta ±10 %
					Zoom Scan	Normalize to 1 W		
2021/8/2	750	D750,1058	Body	1g	2.15	8.60	8.92	-3.59
				10g	1.41	5.64	5.88	-4.08
2021/8/2	1750	D1750,1089	Body	1g	9.59	38.36	36.64	4.69
				10g	5.03	20.12	19.48	3.29
2021/8/2	750	D750,1058	Body	1g	2.08	8.32	8.92	-6.73
				10g	1.38	5.52	5.88	-6.12
2021/8/9	750	D750,1058	Body	1g	2.09	8.36	8.92	-6.28
				10g	1.39	5.56	5.88	-5.44
2021/8/10	3500	D3500,1052	Body	1g	7.01	70.10	64.20	9.19
				10g	2.57	25.70	23.80	7.98
2021/8/10	3700	D3700V2,1078	Body	1g	6.70	67.00	62.90	6.52
				10g	2.38	23.80	22.40	6.25
2021/8/10	2600	D2600,1030	Body	1g	15.00	60.00	54.80	9.49
				10g	6.59	26.36	24.24	8.75
2021/8/11	1750	D1750,1089	Body	1g	9.32	37.28	36.64	1.75
				10g	4.94	19.76	19.48	1.44
2021/8/12	1900	D1900,5d169	Body	1g	10.60	42.40	39.48	7.40
				10g	5.46	21.84	20.88	4.60
2021/8/16	3500	D3500,1052	Body	1g	6.81	68.10	64.20	6.07
				10g	2.51	25.10	23.80	5.46
2021/8/16	3700	D3700V2,1078	Body	1g	6.91	69.10	62.90	9.86
				10g	2.46	24.60	22.40	9.82
2021/8/16	2600	D2600,1030	Body	1g	14.80	59.20	54.80	8.03
				10g	6.45	25.80	24.24	6.44
2021/8/16	1900	D1900,5d169	Body	1g	10.80	43.20	39.48	9.42
				10g	5.57	22.28	20.88	6.70
2021/8/18	835	D835,4d149	Body	1g	2.60	10.40	9.84	5.69
				10g	1.70	6.80	6.44	5.59
2021/8/23	750	D750,1058	Body	1g	2.15	8.60	8.92	-3.59
				10g	1.42	5.68	5.88	-3.40
2021/8/26	2600	D2600,1030	Body	1g	13.70	54.80	54.80	0.00
				10g	5.98	23.92	24.24	-1.32
2021/8/30	2600	D2600,1030	Body	1g	14.40	57.60	54.80	5.11
				10g	6.30	25.20	24.24	3.96
2021/8/30	3500	D3500,1052	Body	1g	6.66	66.60	64.20	3.74
				10g	2.48	24.80	23.80	4.20
2021/9/8	2600	D2600,1030	Body	1g	14.60	58.40	54.80	6.57
				10g	6.44	25.76	24.24	6.27
2021/9/8	3500	D3500,1052	Body	1g	6.27	62.70	64.20	-2.34
				10g	2.35	23.50	23.80	-1.26
2021/9/8	3700	D3700V2,1078	Body	1g	6.51	65.10	62.90	3.50
				10g	2.35	23.50	22.40	4.91
2021/9/21	2600	D2600,1030	Body	1g	14.30	57.20	54.80	4.38
				10g	6.34	25.36	24.24	4.62
2021/11/5	3500	D3500,1052	Body	1g	6.73	67.30	64.20	4.83
				10g	2.52	25.20	23.80	5.88
2021/11/8	3500	D3500,1052	Body	1g	6.24	62.40	64.20	-2.80
				10g	2.35	23.50	23.80	-1.26

For additional testing (WLAN and Bluetooth)

Date Tested	Test Freq	Model,S/N	T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	
				Zoom Scan	Normalize to 1 W			
2021/6/15	2450	D2450,713	Body	1g	13.30	53.2	53.20	0.0
				10g	6.08	24.3	24.72	-1.6
2021/6/16	5250	D5GHV2,1020	Body	1g	7.56	75.6	75.80	-0.3
				10g	2.13	21.30	21.60	-1.4
2021/6/17	5600	D5GHV2,1020	Body	1g	8.47	84.70	79.60	6.4
				10g	2.35	23.50	22.50	4.4
2021/6/18	5800	D5GHV2,1020	Body	1g	7.65	76.50	75.00	2.0
				10g	2.14	21.40	21.10	1.4

11 Conducted Output Power / SAR / PD Measurements

11.1 Measurement configuration for conducted output power

All average output power was measured with burst power (on time).

11.1.1 WCDMA configuration

Release 99 Setup Procedures used to establish the test signals

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The DUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7).

Mode	Subtest	Rel99
WCDMA General Settings	Loopback Mode	Test Mode 2
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	β_c/β_d	8/15

HSDPA Setup Procedures used to establish the test signals

The following 4 Sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

Table C.10.2.4: β values for transmitter characteristics tests with HS-DPCCH

Mode	Subtest	HSDPA	HSDPA	HSDPA	HSDPA
		1	2	3	4
W-CDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set 1			
	Power Control Algorithm	Algorithm 2			
	β_c	2/15	11/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	Bd (SF)	64			
	β_c/β_d	2/15	11/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
	MPR (dB)	0	0	0.5	0.5
HSDPA Specific Settings	D_{ACK}	8			
	D_{NAK}	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback (Table 5.2B.4)	4ms			
	CQI Repetition Factor (Table 5.2B.4)	2			
	$A_{hs}=\beta_{hs}/\beta_c$	30/15			

HSPA (HSDPA & HSUPA) Setup Procedures used to establish the test signals

The following 5 Sub-tests were completed according to Release 6 procedures in table C.11.1.3 of 3GPP TS 34.121-1

A summary of these settings are illustrated below:

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

	Mode	HSPA				
	Subtest	1	2	3	4	5
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2 kbps RMC				
	HSDPA FRC	H-Set 1				
	HSUPA Test	HSPA				
	Power Control Algorithm	Algorithm 2				Algorithm 1
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	0
	β_{ec}	209/225	12/15	30/15	2/15	5/15
	β_c/β_d	11/15	6/15	15/9	2/15	-
	β_{hs}	22/15	12/15	30/15	4/15	5/15
	β_{ed}	1309/225	94/75	47/15	56/75	47/15
	CM (dB)	1	3	2	3	1
MPR (dB)	0	2	1	2	0	
HSDPA Specific Settings	DACK	8				0
	DNAK	8				0
	DCQI	8				0
	Ack-Nack repetition factor	3				
	CQI Feedback (Table 5.2B.4)	4ms				
	CQI Repetition Factor (Table 5.2B.4)	2				
	A _{hs} = β_{hs}/β_c	30/15				
HSUPA Specific Settings	E-DPDCCH	6	8	8	5	0
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	12
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	67
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9
	Reference E-TFCIs	5	5	2	5	1
	Reference E-TFCI	11	11	11	11	67
	Reference E-TFCI PO	4	4	4	4	18
	Reference E-TFCI	67	67	92	67	67
	Reference E-TFCI PO	18	18	18	18	18
	Reference E-TFCI	71	71	71	71	71
	Reference E-TFCI PO	23	23	23	23	23
	Reference E-TFCI	75	75	75	75	75
	Reference E-TFCI PO	26	26	26	26	26
	Reference E-TFCI	81	81	81	81	81
Reference E-TFCI PO	27	27	27	27	27	
Maximum Channelization Codes	2xSF2				SF4	

DC-HSDPA Setup Procedures used to establish the test signals

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS34.108. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1

Table E.5.0: Levels for HSDPA connection setup

Parameter	Unit	Value
During Connection setup		
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

Call is set up as per 3GPP TS34.108 sub clause 7.3.13

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

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

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.		
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		

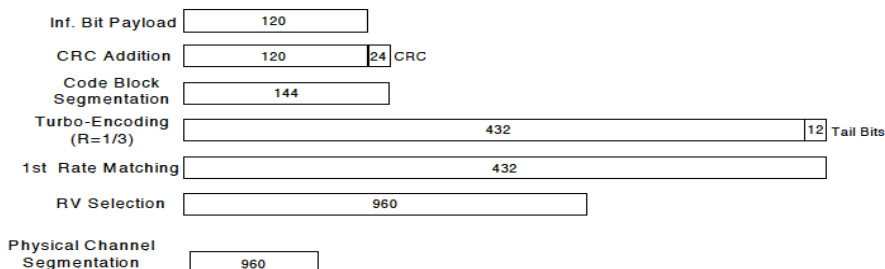


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 8 procedures in section 5.2 of 3GPP TS34.121.

A summary of subtest settings are illustrated below:

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subtest	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set 1			
	Power Control Algorithm	Algorithm2			
	β_c	2/15	11/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	β_d (SF)	64			
	β_c/β_d	2/15	12/15	15/8	15/4
HSDPA Specific Settings	β_{hs}	4/15	24/15	30/15	30/15
	MPR (dB)	0	0	0.5	0.5
	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack Repetition factor	3			
	CQI Feedback	4ms			
CQI Repetition Factor	2				
$A_{hs} = \beta_{hs}/\beta_c$	30/15				

HSPA+

The following 1 Sub-test was completed according to Release 7 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

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

Sub-test	β_c (Note3)	β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105
<p>Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.</p> <p>Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).</p> <p>Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default.</p> <p>Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.</p> <p>Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.</p>											

11.1.2 LTE single configuration

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3

Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
256 QAM	≥ 1						≤ 5

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of “NS_01”.

Network Signalling value	Requirements (subclause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	N/A

11.1.3 LTE CA configuration

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

For intra-band contiguous carrier aggregation the allowed Maximum Power Reduction (MPR) for the maximum output power applicable to the DUT in table below. In case the modulation format is different on different component carriers then the MPR is determined by the rules applied to higher order of those modulations.

Modulation	CA bandwidth Class B and C / Smallest Component Carrier Transmission Bandwidth Configuration				MPR (dB)
	25 RB	50 RB	75 RB	100 RB	
QPSK	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 18 and ≤ 100	≤ 1
QPSK	> 25	> 50	> 75	> 100	≤ 2
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 18 and ≤ 100	≤ 2
16 QAM	> 25	> 50	> 75	> 100	≤ 3
64 QAM	≤ 8 and allocation wholly contained within a single CC	≤ 12 and allocation wholly contained within a single CC	≤ 16 and allocation wholly contained within a single CC	≤ 18 and allocation wholly contained within a single CC	≤ 2
64 QAM	> 8 or allocation extends across two CC's	> 12 or allocation extends across two CC's	> 16 or allocation extends across two CC's	> 18 or allocation extends across two CC's	≤ 3

For PUCCH and SRS transmissions, the allowed MPR is according to that specified for PUSCH WPKD modulation for the corresponding transmission bandwidth.

11.1.4 LTE CA power measurement combination

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number of component carriers (CCs) supported by the product implementation. Per April 2018 TCBC Workshop Notes, the following test reduction methodology was applied to determine the combinations required for conducted power measurements.

LTE DLCA Test Reduction Methodology:

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination.
- Power measurements were performed for "supersets" (LTE CA combinations with multiple components carriers) and any "subsets" (LTE CA combinations with fewer component carriers) that were not completely covered by the supersets.
- Only subsets that have the exact same components as a superset were excluded for measurement.
- When there were certain restrictions on component carriers that existed in the superset that were not applied for the subset, the subset configuration was additionally evaluated.
- Both inter-band and intra-band downlink carrier aggregation scenarios were considered.
- Downlink CA combinations for SISO and 4x4 Downlink MIMO operations were measured independently, per May 2017 TCBC Workshop notes.
- All bands required for SAR testing per FCC KDB procedures were considered.

General PCC and SCC configuration selection procedure:

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.

Downlink CA with Downlink 4x4 MIMO RF Conducted Powers:

This device supports downlink 4x4 MIMO operations for some LTE bands. Uplink transmission is limited to a single output stream. When carrier aggregation was applicable, the general test selection and setup procedures described above were applied.

Uplink CA Conducted Powers:

This device supports uplink carrier aggregation for some LTE bands with a maximum of two component carriers. For intra-band contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when noncontiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.

Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.

Downlink CA with Uplink CA Enabled:

This device supports uplink carrier aggregation (ULCA) with additional Carrier Aggregation configurations active in the downlink. 4x4 DL MIMO is only operating in the downlink. Uplink transmission is limited to a single output stream for each component carrier of ULCA.

Power measurements were performed with ULCA active and additional CA configurations active in the downlink for the configuration per Fall 2017 TCB Workshop Notes.

11.1.5 New radio(NR) configuration

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.2-1 of the 3GPP TS36.101.

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0^2
	Pi/2 BPSK w Pi/2 BPSK DMRS	$\leq 0.5^2$	$\leq 0^2$	0^2
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

The allowed A-MPR values specified below in Table 6.2.3.1-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of “NS_01”.

Network signalling label	Requirements (clause)	NR Band	Channel bandwidth (MHz)	Resources blocks (N_{RB})	A-MPR (dB)
NS_01		Table 5.2-1	5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	Table 5.3.2-1	N/A

11.2 WCDMA

11.2.1 WCDMA Band 2 DSI = 0, Full power and DSI = 1, Reduction power

R99

Band	Mode	UL Ch	Freq.	Full Power mode Tune-up Upper	Reduced Power mode Tune-up	Avg Pwr (dBm)	
						Full Power	Reduced Power
W-CDMA (UMTS) Band 2	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	24.50	17.40	23.57	16.43
		9400	1880.0	24.50	17.40	23.43	16.33
		9538	1907.6	24.50	17.40	23.30	16.14

HSDPA

Band	Mode	UL Ch	Freq.	Full Power mode Tune-up Upper	Reduced Power mode Tune-up	Avg Pwr (dBm)	
						Full Power	Reduced Power
W-CDMA (UMTS) Band 2	Subtest 1	9262	1852.4	23.50	16.40	22.53	15.42
		9400	1880.0	23.50	16.40	22.43	15.32
		9538	1907.6	23.50	16.40	22.25	15.21
	Subtest 2	9262	1852.4	23.50	16.40	22.51	15.43
		9400	1880.0	23.50	16.40	22.42	15.35
		9538	1907.6	23.50	16.40	22.30	15.24
	Subtest 3	9262	1852.4	23.00	15.90	22.00	14.91
		9400	1880.0	23.00	15.90	21.96	14.85
		9538	1907.6	23.00	15.90	21.76	14.69
	Subtest 4	9262	1852.4	23.00	15.90	22.00	14.94
		9400	1880.0	23.00	15.90	21.97	14.87
		9538	1907.6	23.00	15.90	21.80	14.67

DC-HSDPA

Band	Mode	UL Ch	Freq.	Full Power mode Tune-up Upper	Reduced Power mode Tune-up	Avg Pwr (dBm)	
						Full Power	Reduced Power
W-CDMA (UMTS) Band 2	Subtest 1	9262	1852.4	23.50	16.40	22.43	15.34
		9400	1880.0	23.50	16.40	22.37	15.27
		9538	1907.6	23.50	16.40	22.19	15.09
	Subtest 2	9262	1852.4	23.50	16.40	22.34	15.25
		9400	1880.0	23.50	16.40	22.42	15.13
		9538	1907.6	23.50	16.40	22.15	15.01
	Subtest 3	9262	1852.4	23.00	15.90	21.74	14.62
		9400	1880.0	23.00	15.90	21.90	14.54
		9538	1907.6	23.00	15.90	21.76	14.55
	Subtest 4	9262	1852.4	23.00	15.90	21.83	14.71
		9400	1880.0	23.00	15.90	21.69	14.56
		9538	1907.6	23.00	15.90	21.63	14.51

HSUPA

Band	Mode	UL Ch	Freq.	Full Power mode Tune-up Upper	Reduced Power mode Tune-up	Avg Pwr (dBm)	
						Full Power	Full Power
WCDMA (UMTS) Band 2	Subtest 1	9262	1852.4	23.50	16.40	22.45	15.39
		9400	1880.0	23.50	16.40	22.37	15.34
		9538	1907.6	23.50	16.40	22.27	15.16
	Subtest 2	9262	1852.4	21.50	14.40	20.51	13.45
		9400	1880.0	21.50	14.40	20.38	13.38
		9538	1907.6	21.50	14.40	20.25	13.15
	Subtest 3	9262	1852.4	22.50	15.40	21.44	14.40
		9400	1880.0	22.50	15.40	21.41	14.34
		9538	1907.6	22.50	15.40	21.29	14.21
	Subtest 4	9262	1852.4	21.50	14.40	20.46	13.45
		9400	1880.0	21.50	14.40	20.39	13.36
		9538	1907.6	21.50	14.40	20.25	13.20
	Subtest 5	9262	1852.4	23.50	16.40	22.48	15.46
		9400	1880.0	23.50	16.40	22.42	15.33
		9538	1907.6	23.50	16.40	22.27	15.16

HSPA+

Band	Mode	UL Ch	Freq. (MHz)	Full Power mode Tune-up Upper	Reduced Power mode Tune-up	Avg Pwr (dBm)	
						Full Power	Reduced Power
W-CDMA (UMTS) Band 2	Subtest 1	9262	1852.4	21.00	13.90	20.23	13.28
		9400	1880.0	21.00	13.90	20.16	13.17
		9538	1907.6	21.00	13.90	20.06	13.12

11.2.2 WCDMA Band 4 DSI = 0, Full power and DSI = 1, Reduction power

Band	Mode	UL Ch No.	Freq.	Full Power mode Tune-up Upper	Reduced Power mode Tune-up Upper Power(dBm)	Avg Pwr (dBm)	
						Full Power	Reduced Power
W-CDMA (UMTS) Band 4	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	23.70	17.70	23.03	16.47
		1413	1732.6	23.70	17.70	23.22	16.70
		1513	1752.6	23.70	17.70	23.35	16.78
Band	Mode	UL Ch No.	Freq.	Full Power mode Tune-up Upper	Reduced Power mode Tune-up Upper Power(dBm)	Avg Pwr (dBm)	
						Full Power	Reduced Power
W-CDMA (UMTS) Band 4	Subtest 1	1312	1712.4	22.70	16.70	22.07	15.44
		1413	1732.6	22.70	16.70	22.23	15.65
		1513	1752.6	22.70	16.70	22.36	15.78
	Subtest 2	1312	1712.4	22.70	16.70	22.03	15.43
		1413	1732.6	22.70	16.70	22.29	15.70
		1513	1752.6	22.70	16.70	22.42	15.77
	Subtest 3	1312	1712.4	22.20	16.20	21.47	14.92
		1413	1732.6	22.20	16.20	21.80	15.17
		1513	1752.6	22.20	16.20	21.88	15.27
	Subtest 4	1312	1712.4	22.20	16.20	21.45	14.97
		1413	1732.6	22.20	16.20	21.75	15.16
		1513	1752.6	22.20	16.20	21.85	15.27
Band	Mode	UL Ch No.	Freq.	Full Power mode Tune-up Upper	Reduced Power mode Tune-up Upper Power(dBm)	Avg Pwr (dBm)	
						Full Power	Reduced Power
W-CDMA (UMTS) Band 4	Subtest 1	1312	1712.4	22.70	16.70	22.09	15.49
		1413	1732.6	22.70	16.70	22.06	15.45
		1513	1752.6	22.70	16.70	22.24	15.64
	Subtest 2	1312	1712.4	22.70	16.70	22.16	15.37
		1413	1732.6	22.70	16.70	22.09	15.51
		1513	1752.6	22.70	16.70	22.16	15.43
	Subtest 3	1312	1712.4	22.20	16.20	21.34	14.76
		1413	1732.6	22.20	16.20	21.35	15.06
		1513	1752.6	22.20	16.20	21.58	14.98
	Subtest 4	1312	1712.4	22.20	16.20	21.35	14.74
		1413	1732.6	22.20	16.20	21.63	14.72
		1513	1752.6	22.20	16.20	21.54	14.94
Band	Mode	UL Ch No.	Freq.	Full Power mode Tune-up Upper	Reduced Power mode Tune-up Upper Power(dBm)	Avg Pwr (dBm)	
						Full Power	Reduced Power
WCDMA (UMTS) Band 4	Subtest 1	1312	1712.4	22.70	16.70	21.92	15.48
		1413	1732.6	22.70	16.70	22.25	15.67
		1513	1752.6	22.70	16.70	22.35	15.81
	Subtest 2	1312	1712.4	20.70	14.70	20.04	13.44
		1413	1732.6	20.70	14.70	20.23	13.71
		1513	1752.6	20.70	14.70	20.34	13.77
	Subtest 3	1312	1712.4	21.70	15.70	21.01	14.44
		1413	1732.6	21.70	15.70	21.25	14.67
		1513	1752.6	21.70	15.70	21.38	14.78
	Subtest 4	1312	1712.4	20.70	14.70	20.02	13.45
		1413	1732.6	20.70	14.70	20.25	13.72
		1513	1752.6	20.70	14.70	20.37	13.73
	Subtest 5	1312	1712.4	22.70	16.70	22.05	15.46
		1413	1732.6	22.70	16.70	22.25	15.66
		1513	1752.6	22.70	16.70	22.36	15.82
Band	Mode	UL Ch No.	Freq. (MHz)	Full Power mode Tune-up Upper	Reduced Power mode Tune-up Upper Power(dBm)	Avg Pwr (dBm)	
						Full Power	Reduced Power
W-CDMA (UMTS) Band 4	Subtest 1	1312	1712.4	20.20	14.20	19.67	13.31
		1413	1732.6	20.20	14.20	19.64	13.33
		1513	1752.6	20.20	14.20	19.54	13.26

11.2.3 WCDMA Band 5 DSI = 0, Full power and DSI = 1, Reduction power

R99	Band	Mode	UL Ch	Freq. (MHz)	Full Power mode Tune-up Upper	Reduced Power mode Tune-up	Avg Pwr (dBm)	
							Full Power	Reduced Power
W-CDMA (UMTS) Band 5	Rel 99 (RMC, 12.2 kbps)	4132	826.4	24.50	17.10	23.59	16.19	
		4183	836.6	24.50	17.10	23.38	15.98	
		4233	846.6	24.50	17.10	23.15	15.77	

HSDPA	Band	Mode	UL Ch	Freq. (MHz)	Full Power mode Tune-up Upper	Reduced Power mode Tune-up	Avg Pwr (dBm)	
							Full Power	Reduced Power
W-CDMA (UMTS) Band 5	Subtest 1	4132	826.4	23.50	16.10	22.57	15.23	
		4183	836.6	23.50	16.10	22.40	14.97	
		4233	846.6	23.50	16.10	22.14	14.76	
	Subtest 2	4132	826.4	23.50	16.10	22.59	15.21	
		4183	836.6	23.50	16.10	22.40	14.94	
		4233	846.6	23.50	16.10	22.12	14.78	
	Subtest 3	4132	826.4	23.00	15.60	22.09	14.72	
		4183	836.6	23.00	15.60	21.90	14.52	
		4233	846.6	23.00	15.60	21.67	14.28	
	Subtest 4	4132	826.4	23.00	15.60	22.11	14.73	
		4183	836.6	23.00	15.60	21.88	14.48	
		4233	846.6	23.00	15.60	21.66	14.30	

HSUPA	Band	Mode	UL Ch	Freq. (MHz)	Full Power mode Tune-up Upper	Reduced Power mode Tune-up	Avg Pwr (dBm)	
							Full Power	Reduced Power
WCDMA (UMTS) Band 5	Subtest 1	4132	826.4	23.50	16.10	22.52	15.21	
		4183	836.6	23.50	16.10	22.36	15.02	
		4233	846.6	23.50	16.10	22.18	14.80	
	Subtest 2	4132	826.4	21.50	14.10	20.53	13.24	
		4183	836.6	21.50	14.10	20.36	13.00	
		4233	846.6	21.50	14.10	20.15	12.78	
	Subtest 3	4132	826.4	22.50	15.10	21.54	14.23	
		4183	836.6	22.50	15.10	21.37	14.01	
		4233	846.6	22.50	15.10	21.19	13.80	
	Subtest 4	4132	826.4	21.50	14.10	20.57	13.19	
		4183	836.6	21.50	14.10	20.35	12.99	
		4233	846.6	21.50	14.10	20.13	12.77	
	Subtest 5	4132	826.4	23.50	16.10	22.53	15.21	
		4183	836.6	23.50	16.10	22.38	15.01	
		4233	846.6	23.50	16.10	22.14	14.79	

DC-HSDPA	Band	Mode	UL Ch	Freq. (MHz)	Full Power mode Tune-up Upper	Reduced Power mode Tune-up	Avg Pwr (dBm)	
							Full Power	Reduced Power
W-CDMA (UMTS) Band 5	Subtest 1	4132	826.4	23.50	16.10	22.60	15.22	
		4183	836.6	23.50	16.10	22.45	15.09	
		4233	846.6	23.50	16.10	22.26	14.86	
	Subtest 2	4132	826.4	23.50	16.10	22.63	15.22	
		4183	836.6	23.50	16.10	22.46	15.07	
		4233	846.6	23.50	16.10	22.25	14.84	
	Subtest 3	4132	826.4	23.00	15.60	22.14	14.74	
		4183	836.6	23.00	15.60	21.98	14.60	
		4233	846.6	23.00	15.60	21.78	14.38	
	Subtest 4	4132	826.4	23.00	15.60	22.16	14.77	
		4183	836.6	23.00	15.60	22.01	14.62	
		4233	846.6	23.00	15.60	21.80	14.40	

HSPA+	Band	Mode	UL Ch	Freq. (MHz)	Full Power mode Tune-up Upper	Reduced Power mode Tune-up	Avg Pwr (dBm)	
							Full Power	Reduced Power
W-CDMA (UMTS) Band 5	Subtest 1	4132	826.4	21.00	13.60	19.87	13.02	
		4183	836.6	21.00	13.60	20.11	13.22	
		4233	846.6	21.00	13.60	20.20	13.15	

11.3 LTE single

11.3.1 LTE band 2 DSI = 0, Full power

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18700	18900	19100
						Freq(MHz)		
						1860	1880	1900
20	QPSK	1	0	0	24.0	22.76	22.67	22.66
		1	49	0	24.0	22.75	22.65	22.58
		1	99	0	24.0	22.72	22.66	22.55
		50	0	1	23.0	21.90	21.66	21.64
		50	24	1	23.0	21.88	21.69	21.68
		50	50	1	23.0	21.89	21.75	21.66
		100	0	1	23.0	21.89	21.68	21.65
	16QAM	1	0	1	23.0	22.19	22.05	22.03
		1	49	1	23.0	22.16	22.04	21.93
		1	99	1	23.0	22.13	21.98	21.90
		50	0	2	22.0	20.89	20.62	20.65
		50	24	2	22.0	20.93	20.66	20.68
		50	50	2	22.0	20.92	20.74	20.64
		100	0	2	22.0	20.88	20.70	20.68
	64QAM	1	0	2	22.0	21.00	20.77	20.76
		1	49	2	22.0	20.96	20.79	20.64
		1	99	2	22.0	20.98	20.77	20.65
		50	0	3	21.0	19.92	19.69	19.69
		50	24	3	21.0	19.96	19.71	19.72
		50	50	3	21.0	19.95	19.79	19.71
		100	0	3	21.0	19.90	19.70	19.72
	256QAM	1	0	5	19.0	17.80	17.78	17.78
		1	49	5	19.0	17.85	17.82	17.73
		1	99	5	19.0	17.86	17.82	17.73
50		0	5	19.0	17.92	17.65	17.67	
50		24	5	19.0	17.95	17.70	17.70	
50		50	5	19.0	17.93	17.76	17.68	
100		0	5	19.0	17.92	17.70	17.69	

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18675	18900	19125
						Freq(MHz)		
						1857.5	1880	1902.5
15	QPSK	1	0	0	24.0	22.68	22.63	22.59
		1	37	0	24.0	22.70	22.61	22.54
		1	74	0	24.0	22.72	22.65	22.55
		36	0	1	23.0	21.85	21.67	21.67
		36	19	1	23.0	21.89	21.66	21.65
		36	39	1	23.0	21.87	21.71	21.66
		75	0	1	23.0	21.84	21.62	21.65
	16QAM	1	0	1	23.0	22.11	21.88	21.87
		1	37	1	23.0	22.12	21.92	21.78
		1	74	1	23.0	22.07	21.93	21.80
		36	0	2	22.0	20.87	20.68	20.70
		36	19	2	22.0	20.91	20.70	20.73
		36	39	2	22.0	20.88	20.77	20.70
	64QAM	75	0	2	22.0	20.89	20.63	20.65
		1	0	2	22.0	21.24	21.21	21.26
		1	37	2	22.0	21.15	21.22	21.21
		1	74	2	22.0	21.14	21.27	21.19
		36	0	3	21.0	19.84	19.71	19.70
		36	19	3	21.0	19.87	19.69	19.73
		36	39	3	21.0	19.88	19.82	19.74
	256QAM	75	0	3	21.0	19.88	19.68	19.65
		1	0	5	19.0	18.12	17.59	17.62
		1	37	5	19.0	18.15	17.67	17.60
		1	74	5	19.0	18.19	17.72	17.66
		36	0	5	19.0	17.83	17.68	17.67
		36	19	5	19.0	17.83	17.74	17.70
		36	39	5	19.0	17.82	17.79	17.72
75	0	5	19.0	17.90	17.68	17.67		

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18650	18900	19150
						Freq(MHz)		
						1855	1880	1905
10	QPSK	1	0	0	24.0	22.81	22.61	22.45
		1	24	0	24.0	22.76	22.62	22.40
		1	49	0	24.0	22.82	22.64	22.44
		25	0	1	23.0	21.88	21.61	21.62
		25	12	1	23.0	21.87	21.74	21.65
		25	25	1	23.0	21.90	21.72	21.61
		50	0	1	23.0	21.90	21.64	21.58
	16QAM	1	0	1	23.0	22.10	21.98	21.77
		1	24	1	23.0	22.12	21.92	21.68
		1	49	1	23.0	22.13	21.97	21.72
		25	0	2	22.0	20.87	20.64	20.59
		25	12	2	22.0	20.95	20.77	20.64
		25	25	2	22.0	20.92	20.74	20.67
	64QAM	50	0	2	22.0	20.90	20.61	20.61
		1	0	2	22.0	21.21	21.08	21.09
		1	24	2	22.0	21.07	21.13	21.01
		1	49	2	22.0	21.13	21.14	20.97
		25	0	3	21.0	19.89	19.63	19.65
		25	12	3	21.0	19.95	19.76	19.68
		25	25	3	21.0	19.95	19.77	19.67
	256QAM	50	0	3	21.0	19.93	19.65	19.66
1		0	5	19.0	18.21	17.96	17.92	
1		24	5	19.0	18.17	17.98	17.74	
1		49	5	19.0	18.20	18.06	17.91	
25		0	5	19.0	17.84	17.60	17.63	
25		12	5	19.0	17.89	17.74	17.63	
25		25	5	19.0	17.91	17.71	17.63	
50	0	5	19.0	17.91	17.64	17.63		

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18625	18900	19175
						Freq(MHz)		
						1852.5	1880	1907.5
5	QPSK	1	0	0	24.0	22.78	22.52	22.39
		1	12	0	24.0	22.83	22.58	22.47
		1	24	0	24.0	22.84	22.60	22.43
		12	0	1	23.0	21.83	21.70	21.59
		12	6	1	23.0	21.90	21.75	21.62
		12	13	1	23.0	21.86	21.73	21.55
		25	0	1	23.0	21.88	21.70	21.53
	16QAM	1	0	1	23.0	22.29	21.95	21.82
		1	12	1	23.0	22.25	22.05	21.89
		1	24	1	23.0	22.29	22.01	21.90
		12	0	2	22.0	20.92	20.73	20.60
		12	6	2	22.0	20.94	20.80	20.67
		12	13	2	22.0	20.96	20.76	20.60
	64QAM	25	0	2	22.0	20.91	20.69	20.55
		1	0	2	22.0	21.32	20.92	20.79
		1	12	2	22.0	21.32	20.92	20.82
		1	24	2	22.0	21.36	20.99	20.82
		12	0	3	21.0	19.78	19.76	19.62
		12	6	3	21.0	19.84	19.83	19.67
		12	13	3	21.0	19.82	19.76	19.65
	256QAM	25	0	3	21.0	19.87	19.75	19.63
1		0	5	19.0	17.96	18.16	18.04	
1		12	5	19.0	17.96	18.18	18.07	
1		24	5	19.0	18.03	18.21	18.08	
12		0	5	19.0	17.93	17.68	17.57	
12		6	5	19.0	18.01	17.76	17.59	
12		13	5	19.0	17.98	17.72	17.61	
	25	0	5	19.0	17.91	17.70	17.61	

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18615	18900	18615
						Freq(MHz)		
						1851.5	1880	1908.5
3	QPSK	1	0	0	24.0	22.75	22.55	22.40
		1	7	0	24.0	22.77	22.71	22.59
		1	14	0	24.0	22.82	22.60	22.47
		8	0	1	23.0	21.84	21.68	21.52
		8	3	1	23.0	21.93	21.74	21.59
		8	7	1	23.0	21.87	21.75	21.60
		15	0	1	23.0	21.88	21.69	21.54
	16QAM	1	0	1	23.0	22.19	21.80	21.64
		1	7	1	23.0	22.13	21.83	21.68
		1	14	1	23.0	22.15	21.80	21.67
		8	0	2	22.0	20.95	20.59	20.48
		8	3	2	22.0	21.02	20.67	20.54
		8	7	2	22.0	20.96	20.64	20.50
	64QAM	15	0	2	22.0	20.95	20.68	20.53
		1	0	2	22.0	21.29	21.03	20.93
		1	7	2	22.0	21.30	21.02	20.90
		1	14	2	22.0	21.35	21.07	20.92
		8	0	3	21.0	19.92	19.75	19.64
		8	3	3	21.0	19.94	19.83	19.71
		8	7	3	21.0	19.96	19.82	19.68
	256QAM	15	0	3	21.0	19.90	19.75	19.61
1		0	5	19.0	18.19	17.94	17.79	
1		7	5	19.0	18.19	17.92	17.77	
1		14	5	19.0	18.27	17.96	17.83	
8		0	5	19.0	17.88	17.79	17.66	
8		3	5	19.0	17.96	17.84	17.70	
8		7	5	19.0	17.90	17.81	17.69	
		15	0	5	19.0	17.90	17.71	17.54

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18607	18900	19193
						Freq(MHz)		
						1850.7	1880	1909.3
1.4	QPSK	1	0	0	24.0	22.73	22.48	22.35
		1	2	0	24.0	22.83	22.56	22.40
		1	5	0	24.0	22.75	22.49	22.34
		3	0	0	24.0	22.75	22.54	22.39
		3	1	0	24.0	22.76	22.58	22.47
		3	3	0	24.0	22.77	22.53	22.41
		6	0	1	23.0	21.82	21.60	21.48
	16QAM	1	0	1	23.0	21.83	21.76	21.61
		1	2	1	23.0	21.90	21.90	21.77
		1	5	1	23.0	21.85	21.74	21.61
		3	0	1	23.0	21.78	21.79	21.69
		3	1	1	23.0	21.82	21.85	21.73
		3	3	1	23.0	21.77	21.77	21.69
		6	0	2	22.0	20.88	20.59	20.49
	64QAM	1	0	2	22.0	21.21	21.02	20.90
		1	2	2	22.0	21.31	21.13	21.00
		1	5	2	22.0	21.19	21.02	20.92
		3	0	2	22.0	20.98	20.71	20.57
		3	1	2	22.0	21.06	20.76	20.59
		3	3	2	22.0	21.02	20.66	20.56
		6	0	3	21.0	19.82	19.74	19.61
	256QAM	1	0	5	19.0	17.67	17.86	17.72
		1	2	5	19.0	17.74	17.93	17.79
		1	5	5	19.0	17.65	17.89	17.74
3		0	5	19.0	17.75	17.72	17.53	
3		1	5	19.0	17.76	17.74	17.57	
3		3	5	19.0	17.67	17.72	17.55	
6		0	5	19.0	17.68	17.72	17.54	

11.3.2 LTE band 2 DSI = 1, Reduction Power

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18700	18900	19100
						Freq(MHz)		
						1860	1880	1900
20	QPSK	1	0	-	17.6	16.42	16.32	16.31
		1	49	-	17.6	16.37	16.29	16.23
		1	99	-	17.6	16.36	16.30	16.24
		50	0	-	17.6	16.49	16.28	16.26
		50	24	-	17.6	16.52	16.31	16.32
		50	50	-	17.6	16.51	16.38	16.29
		100	0	-	17.6	16.41	16.30	16.29
	16QAM	1	0	-	17.6	16.89	16.71	16.66
		1	49	-	17.6	16.82	16.69	16.61
		1	99	-	17.6	16.80	16.66	16.56
		50	0	-	17.6	16.58	16.26	16.32
		50	24	-	17.6	16.57	16.31	16.31
		50	50	-	17.6	16.57	16.40	16.31
		100	0	-	17.6	16.55	16.31	16.33
	64QAM	1	0	-	17.6	16.64	16.39	16.42
		1	49	-	17.6	16.63	16.40	16.31
		1	99	-	17.6	16.63	16.39	16.30
		50	0	-	17.6	16.56	16.31	16.32
		50	24	-	17.6	16.60	16.32	16.33
		50	50	-	17.6	16.54	16.39	16.32
		100	0	-	17.6	16.53	16.31	16.34
256QAM	1	0	-	17.6	16.42	16.40	16.42	
	1	49	-	17.6	16.48	16.44	16.37	
	1	99	-	17.6	16.49	16.46	16.35	
	50	0	-	17.6	16.54	16.29	16.34	
	50	24	-	17.6	16.54	16.30	16.34	
	50	50	-	17.6	16.54	16.40	16.34	
	100	0	-	17.6	16.50	16.32	16.34	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18675	18900	19125
						Freq(MHz)		
						1857.5	1880	1902.5
15	QPSK	1	0	-	17.6	16.34	16.24	16.20
		1	37	-	17.6	16.31	16.23	16.16
		1	74	-	17.6	16.32	16.25	16.17
		36	0	-	17.6	16.47	16.27	16.25
		36	19	-	17.6	16.51	16.26	16.26
		36	39	-	17.6	16.50	16.33	16.24
		75	0	-	17.6	16.34	16.25	16.12
	16QAM	1	0	-	17.6	16.69	16.49	16.44
		1	37	-	17.6	16.67	16.51	16.36
		1	74	-	17.6	16.76	16.51	16.44
		36	0	-	17.6	16.47	16.27	16.27
		36	19	-	17.6	16.53	16.33	16.30
		36	39	-	17.6	16.51	16.40	16.32
		75	0	-	17.6	16.52	16.25	16.23
	64QAM	1	0	-	17.6	16.74	16.69	16.63
		1	37	-	17.6	16.81	16.64	16.59
		1	74	-	17.6	16.73	16.75	16.67
		36	0	-	17.6	16.44	16.30	16.28
		36	19	-	17.6	16.48	16.29	16.29
		36	39	-	17.6	16.50	16.39	16.31
		75	0	-	17.6	16.49	16.25	16.24
256QAM	1	0	-	17.6	16.74	16.23	16.19	
	1	37	-	17.6	16.74	16.29	16.17	
	1	74	-	17.6	16.78	16.32	16.23	
	36	0	-	17.6	16.42	16.28	16.25	
	36	19	-	17.6	16.43	16.32	16.30	
	36	39	-	17.6	16.45	16.37	16.32	
	75	0	-	17.6	16.49	16.27	16.26	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18650	18900	19150
						Freq(MHz)		
						1855	1880	1905
10	QPSK	1	0	-	17.6	16.30	16.10	16.10
		1	24	-	17.6	16.20	16.08	15.95
		1	49	-	17.6	16.28	16.16	15.97
		25	0	-	17.6	16.46	16.20	16.16
		25	12	-	17.6	16.48	16.29	16.23
		25	25	-	17.6	16.49	16.30	16.18
		50	0	-	17.6	16.30	16.10	16.07
	16QAM	1	0	-	17.6	16.56	16.32	16.36
		1	24	-	17.6	16.56	16.37	16.25
		1	49	-	17.6	16.53	16.39	16.29
		25	0	-	17.6	16.50	16.18	16.22
		25	12	-	17.6	16.53	16.32	16.24
		25	25	-	17.6	16.52	16.35	16.25
		50	0	-	17.6	16.49	16.24	16.18
	64QAM	1	0	-	17.6	16.80	16.52	16.53
		1	24	-	17.6	16.61	16.52	16.42
		1	49	-	17.6	16.76	16.57	16.41
		25	0	-	17.6	16.48	16.23	16.22
		25	12	-	17.6	16.53	16.34	16.23
		25	25	-	17.6	16.54	16.36	16.23
		50	0	-	17.6	16.50	16.27	16.22
	256QAM	1	0	-	17.6	16.71	16.57	16.49
		1	24	-	17.6	16.63	16.51	16.43
		1	49	-	17.6	16.78	16.60	16.46
25		0	-	17.6	16.48	16.22	16.19	
25		12	-	17.6	16.51	16.34	16.25	
25		25	-	17.6	16.51	16.36	16.21	
50		0	-	17.6	16.48	16.22	16.19	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18625	18900	19175
						Freq(MHz)		
						1852.5	1880	1907.5
5	QPSK	1	0	-	17.6	16.35	16.12	15.94
		1	12	-	17.6	16.39	16.11	15.98
		1	24	-	17.6	16.41	16.16	16.02
		12	0	-	17.6	16.46	16.32	16.16
		12	6	-	17.6	16.48	16.34	16.18
		12	13	-	17.6	16.49	16.29	16.15
		25	0	-	17.6	16.35	16.11	15.93
	16QAM	1	0	-	17.6	16.81	16.49	16.30
		1	12	-	17.6	16.83	16.52	16.32
		1	24	-	17.6	16.85	16.56	16.36
		12	0	-	17.6	16.52	16.34	16.18
		12	6	-	17.6	16.59	16.35	16.18
		12	13	-	17.6	16.56	16.36	16.22
		25	0	-	17.6	16.54	16.31	16.17
	64QAM	1	0	-	17.6	16.78	16.51	16.33
		1	12	-	17.6	16.81	16.48	16.35
		1	24	-	17.6	16.83	16.54	16.38
		12	0	-	17.6	16.40	16.34	16.21
		12	6	-	17.6	16.44	16.39	16.20
		12	13	-	17.6	16.44	16.40	16.22
		25	0	-	17.6	16.53	16.33	16.22
	256QAM	1	0	-	17.6	16.60	16.56	16.42
		1	12	-	17.6	16.58	16.57	16.40
		1	24	-	17.6	16.64	16.59	16.46
12		0	-	17.6	16.54	16.29	16.13	
12		6	-	17.6	16.58	16.33	16.19	
12		13	-	17.6	16.55	16.34	16.16	
25		0	-	17.6	16.51	16.28	16.15	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18615	18900	18615
						Freq(MHz)		
						1851.5	1880	1908.5
3	QPSK	1	0	-	17.6	16.32	16.10	15.97
		1	7	-	17.6	16.34	16.28	16.06
		1	14	-	17.6	16.39	16.13	15.98
		8	0	-	17.6	16.46	16.24	16.17
		8	3	-	17.6	16.50	16.33	16.18
		8	7	-	17.6	16.48	16.27	16.12
		15	0	-	17.6	16.36	16.10	15.95
	16QAM	1	0	-	17.6	16.65	16.35	16.17
		1	7	-	17.6	16.73	16.39	16.21
		1	14	-	17.6	16.70	16.43	16.21
		8	0	-	17.6	16.54	16.22	16.05
		8	3	-	17.6	16.55	16.25	16.12
		8	7	-	17.6	16.55	16.23	16.09
		15	0	-	17.6	16.50	16.28	16.10
	64QAM	1	0	-	17.6	16.81	16.51	16.46
		1	7	-	17.6	16.75	16.59	16.47
		1	14	-	17.6	16.84	16.62	16.46
		8	0	-	17.6	16.48	16.40	16.20
		8	3	-	17.6	16.48	16.42	16.26
		8	7	-	17.6	16.49	16.37	16.24
		15	0	-	17.6	16.52	16.33	16.22
	256QAM	1	0	-	17.6	16.76	16.54	16.37
		1	7	-	17.6	16.75	16.50	16.35
		1	14	-	17.6	16.84	16.57	16.40
8		0	-	17.6	16.46	16.39	16.25	
8		3	-	17.6	16.55	16.45	16.29	
8		7	-	17.6	16.48	16.38	16.26	
15		0	-	17.6	16.47	16.30	16.14	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
2						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	18607	18900	19193
						Freq(MHz)		
						1850.7	1880	1909.3
1.4	QPSK	1	0	-	17.6	16.28	16.02	15.88
		1	2	-	17.6	16.35	16.11	15.95
		1	5	-	17.6	16.34	16.01	15.87
		3	0	-	17.6	16.30	16.10	15.97
		3	1	-	17.6	16.33	16.15	15.99
		3	3	-	17.6	16.29	16.14	15.96
		6	0	-	17.6	16.25	16.08	15.87
	16QAM	1	0	-	17.6	16.39	16.30	16.14
		1	2	-	17.6	16.52	16.46	16.29
		1	5	-	17.6	16.45	16.29	16.14
		3	0	-	17.6	16.35	16.39	16.23
		3	1	-	17.6	16.42	16.45	16.26
		3	3	-	17.6	16.34	16.39	16.23
		6	0	-	17.6	16.50	16.23	16.07
	64QAM	1	0	-	17.6	16.78	16.49	16.31
		1	2	-	17.6	16.77	16.60	16.45
		1	5	-	17.6	16.77	16.50	16.33
		3	0	-	17.6	16.53	16.27	16.13
		3	1	-	17.6	16.58	16.30	16.14
		3	3	-	17.6	16.58	16.29	16.11
		6	0	-	17.6	16.40	16.38	16.19
	256QAM	1	0	-	17.6	16.27	16.45	16.29
		1	2	-	17.6	16.34	16.53	16.34
		1	5	-	17.6	16.25	16.48	16.31
3		0	-	17.6	16.34	16.31	16.14	
3		1	-	17.6	16.38	16.36	16.14	
3		3	-	17.6	16.27	16.30	16.14	
6		0	-	17.6	16.31	16.28	16.10	

*MPR is disabled when power reduction is enabled.

11.3.3 LTE band 4 DSI = 0, Full power

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20050	20175	20300
						Freq(MHz)		
						1720	1732.5	1745
20	QPSK	1	0	0	24.0	-	22.68	-
		1	49	0	24.0	-	22.66	-
		1	99	0	24.0	-	22.73	-
		50	0	1	23.0	-	21.82	-
		50	24	1	23.0	-	21.80	-
		50	50	1	23.0	-	21.85	-
		100	0	1	23.0	-	21.77	-
	16QAM	1	0	1	23.0	-	22.11	-
		1	49	1	23.0	-	22.08	-
		1	99	1	23.0	-	22.11	-
		50	0	2	22.0	-	20.84	-
		50	24	2	22.0	-	20.86	-
		50	50	2	22.0	-	20.86	-
		100	0	2	22.0	-	20.81	-
	64QAM	1	0	2	22.0	-	20.92	-
		1	49	2	22.0	-	20.95	-
		1	99	2	22.0	-	21.01	-
		50	0	3	21.0	-	19.91	-
		50	24	3	21.0	-	19.88	-
		50	50	3	21.0	-	19.88	-
		100	0	3	21.0	-	19.86	-
256QAM	1	0	5	19.0	-	17.80	-	
	1	49	5	19.0	-	17.85	-	
	1	99	5	19.0	-	17.90	-	
	50	0	5	19.0	-	17.92	-	
	50	24	5	19.0	-	17.89	-	
	50	50	5	19.0	-	17.89	-	
	100	0	5	19.0	-	17.85	-	

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20025	20175	20325
						Freq(MHz)		
						1717.5	1732.5	1747.5
15	QPSK	1	0	0	24.0	22.59	22.71	22.81
		1	37	0	24.0	22.49	22.59	22.67
		1	74	0	24.0	22.57	22.66	22.66
		36	0	1	23.0	21.71	21.80	21.82
		36	19	1	23.0	21.72	21.74	21.77
		36	39	1	23.0	21.74	21.79	21.81
		75	0	1	23.0	21.70	21.75	21.75
	16QAM	1	0	1	23.0	21.95	22.09	22.15
		1	37	1	23.0	21.83	22.01	21.99
		1	74	1	23.0	21.92	22.02	22.00
		36	0	2	22.0	20.70	20.84	20.84
		36	19	2	22.0	20.73	20.79	20.79
		36	39	2	22.0	20.75	20.80	20.87
		75	0	2	22.0	20.73	20.75	20.80
	64QAM	1	0	2	22.0	20.87	20.97	21.02
		1	37	2	22.0	20.85	20.99	21.01
		1	74	2	22.0	20.87	21.00	21.05
		36	0	3	21.0	19.71	19.82	19.85
		36	19	3	21.0	19.71	19.80	19.80
		36	39	3	21.0	19.76	19.82	19.86
		75	0	3	21.0	19.76	19.79	19.82
256QAM	1	0	5	19.0	17.84	18.03	18.04	
	1	37	5	19.0	17.89	18.02	18.01	
	1	74	5	19.0	17.83	18.07	18.10	
	36	0	5	19.0	17.68	17.85	17.89	
	36	19	5	19.0	17.71	17.80	17.84	
	36	39	5	19.0	17.73	17.83	17.89	
	75	0	5	19.0	17.73	17.81	17.84	

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20000	20175	20350
						Freq(MHz)		
						1715	1732.5	1750
10	QPSK	1	0	0	24.0	22.56	22.61	22.66
		1	24	0	24.0	22.52	22.57	22.62
		1	49	0	24.0	22.59	22.66	22.70
		25	0	1	23.0	21.62	21.69	21.74
		25	12	1	23.0	21.66	21.73	21.80
		25	25	1	23.0	21.67	21.84	21.86
		50	0	1	23.0	21.66	21.75	21.78
	16QAM	1	0	1	23.0	22.02	21.94	22.06
		1	24	1	23.0	21.89	22.00	22.14
		1	49	1	23.0	21.97	22.07	22.12
		25	0	2	22.0	20.63	20.72	20.79
		25	12	2	22.0	20.67	20.76	20.81
		25	25	2	22.0	20.72	20.87	20.90
		50	0	2	22.0	20.68	20.73	20.78
	64QAM	1	0	2	22.0	20.88	20.88	21.05
		1	24	2	22.0	20.86	20.95	21.02
		1	49	2	22.0	20.88	21.04	21.07
		25	0	3	21.0	19.66	19.73	19.80
		25	12	3	21.0	19.68	19.75	19.82
		25	25	3	21.0	19.73	19.86	19.91
		50	0	3	21.0	19.69	19.78	19.82
	256QAM	1	0	5	19.0	17.80	17.93	17.88
		1	24	5	19.0	17.77	17.95	17.94
		1	49	5	19.0	17.91	18.04	17.97
25		0	5	19.0	17.69	17.77	17.80	
25		12	5	19.0	17.72	17.78	17.84	
25		25	5	19.0	17.75	17.84	17.94	
50		0	5	19.0	17.70	17.75	17.82	

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	19975	20175	20375
						Freq(MHz)		
						1712.5	1732.5	1752.5
5	QPSK	1	0	0	24.0	22.54	22.51	22.68
		1	12	0	24.0	22.61	22.63	22.67
		1	24	0	24.0	22.62	22.68	22.75
		12	0	1	23.0	21.63	21.71	21.84
		12	6	1	23.0	21.72	21.77	21.88
		12	13	1	23.0	21.69	21.81	21.83
		25	0	1	23.0	21.67	21.76	21.87
	16QAM	1	0	1	23.0	21.95	21.98	22.07
		1	12	1	23.0	21.96	22.07	22.11
		1	24	1	23.0	21.98	22.11	22.21
		12	0	2	22.0	20.73	20.80	20.87
		12	6	2	22.0	20.76	20.82	20.91
		12	13	2	22.0	20.73	20.84	20.92
		25	0	2	22.0	20.69	20.78	20.87
	64QAM	1	0	2	22.0	20.92	20.92	21.05
		1	12	2	22.0	20.98	20.99	21.03
		1	24	2	22.0	21.03	21.02	21.07
		12	0	3	21.0	19.68	19.82	19.86
		12	6	3	21.0	19.77	19.83	19.92
		12	13	3	21.0	19.74	19.89	19.90
		25	0	3	21.0	19.69	19.77	19.88
	256QAM	1	0	5	19.0	17.79	17.95	18.03
		1	12	5	19.0	17.81	17.91	18.04
		1	24	5	19.0	17.88	18.05	18.05
		12	0	5	19.0	17.69	17.78	17.89
		12	6	5	19.0	17.77	17.85	17.91
		12	13	5	19.0	17.77	17.89	17.92
25		0	5	19.0	17.71	17.78	17.90	

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	19965	20175	20385
						Freq(MHz)		
						1711.5	1732.5	1753.5
3	QPSK	1	0	0	24.0	22.55	22.54	22.69
		1	7	0	24.0	22.56	22.74	22.80
		1	14	0	24.0	22.58	22.70	22.76
		8	0	1	23.0	21.66	21.76	21.88
		8	3	1	23.0	21.72	21.80	21.90
		8	7	1	23.0	21.65	21.81	21.87
		15	0	1	23.0	21.67	21.71	21.88
	16QAM	1	0	1	23.0	21.88	21.80	22.08
		1	7	1	23.0	21.91	21.90	22.02
		1	14	1	23.0	21.98	21.95	22.07
		8	0	2	22.0	20.75	20.65	20.92
		8	3	2	22.0	20.74	20.72	21.01
		8	7	2	22.0	20.77	20.73	20.93
		15	0	2	22.0	20.71	20.73	20.92
	64QAM	1	0	2	22.0	21.00	21.10	21.00
		1	7	2	22.0	21.02	21.09	20.98
		1	14	2	22.0	21.10	21.16	21.03
		8	0	3	21.0	19.68	19.86	19.94
		8	3	3	21.0	19.74	19.88	19.96
		8	7	3	21.0	19.71	19.93	19.94
		15	0	3	21.0	19.72	19.83	19.91
	256QAM	1	0	5	19.0	17.99	17.94	18.00
		1	7	5	19.0	17.98	18.02	17.95
		1	14	5	19.0	18.07	18.10	18.08
8		0	5	19.0	17.74	17.90	17.96	
8		3	5	19.0	17.77	17.93	18.02	
8		7	5	19.0	17.74	17.95	18.00	
15		0	5	19.0	17.69	17.78	17.87	

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	19957	20175	20393
						Freq(MHz)		
						1710.7	1732.5	1754.3
1.4	QPSK	1	0	0	24.0	22.51	22.46	22.70
		1	2	0	24.0	22.54	22.62	22.80
		1	5	0	24.0	22.48	22.55	22.68
		3	0	0	24.0	22.51	22.62	22.71
		3	1	0	24.0	22.50	22.68	22.72
		3	3	0	24.0	22.47	22.63	22.69
		6	0	1	23.0	21.58	21.64	21.77
	16QAM	1	0	1	23.0	21.57	21.84	21.80
		1	2	1	23.0	21.66	21.97	21.89
		1	5	1	23.0	21.57	21.90	21.83
		3	0	1	23.0	21.52	21.74	21.73
		3	1	1	23.0	21.57	21.89	21.80
		3	3	1	23.0	21.49	21.85	21.74
		6	0	2	22.0	20.62	20.67	20.86
	64QAM	1	0	2	22.0	20.95	20.86	21.18
		1	2	2	22.0	21.02	21.00	21.28
		1	5	2	22.0	20.99	20.92	21.14
		3	0	2	22.0	20.70	20.61	20.96
		3	1	2	22.0	20.75	20.73	20.99
		3	3	2	22.0	20.78	20.68	20.97
		6	0	3	21.0	19.60	19.58	19.76
	256QAM	1	0	5	19.0	17.46	17.76	17.62
		1	2	5	19.0	17.53	17.88	17.69
		1	5	5	19.0	17.45	17.85	17.63
3		0	5	19.0	17.49	17.70	17.71	
3		1	5	19.0	17.55	17.82	17.76	
3		3	5	19.0	17.47	17.78	17.68	
6		0	5	19.0	17.47	17.54	17.71	

11.3.4 LTE band 4 DSI = 1, Reduction Power

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20050	20175	20300
						Freq(MHz)		
						1720	1732.5	1745
20	QPSK	1	0	-	18.2	-	16.88	-
		1	49	-	18.2	-	16.89	-
		1	99	-	18.2	-	16.91	-
		50	0	-	18.2	-	17.04	-
		50	24	-	18.2	-	17.02	-
		50	50	-	18.2	-	17.06	-
		100	0	-	18.2	-	16.90	-
	16QAM	1	0	-	18.2	-	17.31	-
		1	49	-	18.2	-	17.37	-
		1	99	-	18.2	-	17.38	-
		50	0	-	18.2	-	17.09	-
		50	24	-	18.2	-	17.08	-
		50	50	-	18.2	-	17.10	-
		100	0	-	18.2	-	17.03	-
	64QAM	1	0	-	18.2	-	17.12	-
		1	49	-	18.2	-	17.18	-
		1	99	-	18.2	-	17.21	-
		50	0	-	18.2	-	17.11	-
		50	24	-	18.2	-	17.10	-
		50	50	-	18.2	-	17.13	-
		100	0	-	18.2	-	17.05	-
	256QAM	1	0	-	18.2	-	17.06	-
		1	49	-	18.2	-	17.03	-
		1	99	-	18.2	-	17.05	-
50		0	-	18.2	-	17.09	-	
50		24	-	18.2	-	17.08	-	
50		50	-	18.2	-	17.10	-	
100		0	-	18.2	-	17.04	-	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20025	20175	20325
						Freq(MHz)		
						1717.5	1732.5	1747.5
15	QPSK	1	0	-	18.2	16.87	16.94	17.00
		1	37	-	18.2	16.78	16.89	16.92
		1	74	-	18.2	16.85	16.91	16.95
		36	0	-	18.2	16.87	16.97	17.04
		36	19	-	18.2	16.88	16.94	16.99
		36	39	-	18.2	16.89	16.99	17.02
		75	0	-	18.2	16.79	16.94	16.97
	16QAM	1	0	-	18.2	17.14	17.26	17.29
		1	37	-	18.2	17.02	17.17	17.15
		1	74	-	18.2	17.15	17.14	17.18
		36	0	-	18.2	16.88	17.00	17.06
		36	19	-	18.2	16.91	16.97	17.02
		36	39	-	18.2	16.94	17.05	17.08
		75	0	-	18.2	16.95	16.97	17.01
	64QAM	1	0	-	18.2	17.13	17.19	17.40
		1	37	-	18.2	17.10	17.23	17.25
		1	74	-	18.2	17.18	17.30	17.38
		36	0	-	18.2	16.91	17.05	17.09
		36	19	-	18.2	16.93	17.03	17.02
		36	39	-	18.2	16.94	17.04	17.08
		75	0	-	18.2	16.97	17.02	17.05
256QAM	1	0	-	18.2	17.12	17.17	17.24	
	1	37	-	18.2	17.10	17.15	17.24	
	1	74	-	18.2	17.10	17.12	17.19	
	36	0	-	18.2	16.88	17.00	17.06	
	36	19	-	18.2	16.93	16.99	17.01	
	36	39	-	18.2	16.95	17.04	17.07	
	75	0	-	18.2	16.98	16.98	17.04	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20000	20175	20350
						Freq(MHz)		
						1715	1732.5	1750
10	QPSK	1	0	-	18.2	16.75	16.86	16.91
		1	24	-	18.2	16.70	16.87	16.94
		1	49	-	18.2	16.78	16.91	16.95
		25	0	-	18.2	16.83	16.91	16.95
		25	12	-	18.2	16.89	16.95	16.98
		25	25	-	18.2	16.90	17.03	17.09
		50	0	-	18.2	16.78	16.86	16.87
	16QAM	1	0	-	18.2	17.10	17.18	17.22
		1	24	-	18.2	17.07	17.19	17.30
		1	49	-	18.2	17.12	17.26	17.29
		25	0	-	18.2	16.87	16.94	16.99
		25	12	-	18.2	16.91	16.98	17.05
		25	25	-	18.2	16.92	17.10	17.15
		50	0	-	18.2	16.91	16.96	17.02
	64QAM	1	0	-	18.2	17.11	17.14	17.26
		1	24	-	18.2	17.08	17.23	17.21
		1	49	-	18.2	17.14	17.32	17.30
		25	0	-	18.2	16.88	16.97	16.99
		25	12	-	18.2	16.93	17.03	17.06
		25	25	-	18.2	16.91	17.07	17.14
		50	0	-	18.2	16.91	16.99	17.04
	256QAM	1	0	-	18.2	17.04	17.10	17.22
		1	24	-	18.2	17.04	17.16	17.28
		1	49	-	18.2	17.16	17.23	17.33
25		0	-	18.2	16.88	16.92	16.99	
25		12	-	18.2	16.93	16.98	17.01	
25		25	-	18.2	16.91	17.07	17.11	
50		0	-	18.2	16.90	16.95	17.01	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	19975	20175	20375
						Freq(MHz)		
						1712.5	1732.5	1752.5
5	QPSK	1	0	-	18.2	16.76	16.71	16.97
		1	12	-	18.2	16.72	16.84	16.95
		1	24	-	18.2	16.82	16.89	16.99
		12	0	-	18.2	16.84	16.93	17.06
		12	6	-	18.2	16.90	17.00	17.12
		12	13	-	18.2	16.89	17.03	17.10
		25	0	-	18.2	16.81	16.86	16.96
	16QAM	1	0	-	18.2	17.23	17.15	17.29
		1	12	-	18.2	17.15	17.32	17.24
		1	24	-	18.2	17.21	17.35	17.33
		12	0	-	18.2	16.91	17.03	17.14
		12	6	-	18.2	16.95	17.05	17.20
		12	13	-	18.2	16.90	17.11	17.19
		25	0	-	18.2	16.88	16.99	17.13
	64QAM	1	0	-	18.2	17.15	17.13	17.29
		1	12	-	18.2	17.15	17.22	17.26
		1	24	-	18.2	17.31	17.28	17.23
		12	0	-	18.2	16.90	17.04	17.12
		12	6	-	18.2	16.93	17.08	17.16
		12	13	-	18.2	16.97	17.11	17.18
		25	0	-	18.2	16.93	17.05	17.17
	256QAM	1	0	-	18.2	16.99	17.15	17.42
		1	12	-	18.2	17.08	17.28	17.43
		1	24	-	18.2	17.05	17.33	17.47
12		0	-	18.2	16.86	16.97	17.06	
12		6	-	18.2	16.89	17.01	17.11	
12		13	-	18.2	16.97	17.06	17.10	
25		0	-	18.2	16.88	17.03	17.08	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	19965	20175	20385
						Freq(MHz)		
						1711.5	1732.5	1753.5
3	QPSK	1	0	-	18.2	16.79	16.74	16.93
		1	7	-	18.2	16.76	16.92	16.99
		1	14	-	18.2	16.78	16.87	17.01
		8	0	-	18.2	16.87	16.95	17.06
		8	3	-	18.2	16.94	17.03	17.10
		8	7	-	18.2	16.89	17.07	17.08
		15	0	-	18.2	16.79	16.86	16.97
	16QAM	1	0	-	18.2	17.18	17.16	17.26
		1	7	-	18.2	17.17	17.16	17.22
		1	14	-	18.2	17.21	17.26	17.24
		8	0	-	18.2	16.95	16.99	17.16
		8	3	-	18.2	17.01	17.09	17.17
		8	7	-	18.2	17.02	17.11	17.17
		15	0	-	18.2	16.96	17.03	17.13
	64QAM	1	0	-	18.2	17.28	17.16	17.42
		1	7	-	18.2	17.17	17.22	17.42
		1	14	-	18.2	17.21	17.28	17.48
		8	0	-	18.2	16.94	17.06	17.10
		8	3	-	18.2	17.00	17.08	17.16
		8	7	-	18.2	16.97	17.14	17.15
		15	0	-	18.2	16.94	17.03	17.13
	256QAM	1	0	-	18.2	17.23	17.05	17.35
		1	7	-	18.2	17.15	17.18	17.32
		1	14	-	18.2	17.19	17.32	17.43
8		0	-	18.2	16.92	17.09	17.10	
8		3	-	18.2	16.95	17.10	17.14	
8		7	-	18.2	16.97	17.17	17.12	
15		0	-	18.2	16.90	16.95	17.07	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
4						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	19957	20175	20393
						Freq(MHz)		
						1710.7	1732.5	1754.3
1.4	QPSK	1	0	-	18.2	16.67	16.78	16.90
		1	2	-	18.2	16.74	16.95	17.00
		1	5	-	18.2	16.71	16.87	16.91
		3	0	-	18.2	16.69	16.79	16.92
		3	1	-	18.2	16.73	16.89	16.94
		3	3	-	18.2	16.71	16.86	16.87
		6	0	-	18.2	16.69	16.80	16.87
	16QAM	1	0	-	18.2	16.82	16.89	17.04
		1	2	-	18.2	16.93	17.07	17.13
		1	5	-	18.2	16.80	17.00	17.07
		3	0	-	18.2	16.79	16.80	16.99
		3	1	-	18.2	16.78	16.89	17.00
		3	3	-	18.2	16.77	16.91	16.93
		6	0	-	18.2	16.85	16.93	17.04
	64QAM	1	0	-	18.2	17.10	17.27	17.39
		1	2	-	18.2	17.20	17.44	17.46
		1	5	-	18.2	17.20	17.32	17.38
		3	0	-	18.2	16.96	17.04	17.17
		3	1	-	18.2	17.00	17.16	17.21
		3	3	-	18.2	17.00	17.14	17.21
		6	0	-	18.2	16.84	16.94	16.99
	256QAM	1	0	-	18.2	16.61	16.70	16.82
		1	2	-	18.2	16.75	17.18	16.86
		1	5	-	18.2	16.64	17.03	16.80
3		0	-	18.2	16.68	16.95	16.92	
3		1	-	18.2	16.76	17.02	16.94	
3		3	-	18.2	16.64	17.02	16.87	
6		0	-	18.2	16.67	16.90	16.88	

*MPR is disabled when power reduction is enabled.

11.3.5 LTE band 5 DSI = 0, Full power

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	20525	-
						Freq(MHz)		
						-	836.5	-
10	QPSK	1	0	0	24.0	-	22.79	-
		1	24	0	24.0	-	22.70	-
		1	49	0	24.0	-	22.60	-
		25	0	1	23.0	-	21.80	-
		25	12	1	23.0	-	21.77	-
		25	25	1	23.0	-	21.79	-
		50	0	1	23.0	-	21.78	-
	16QAM	1	0	1	23.0	-	22.12	-
		1	24	1	23.0	-	22.04	-
		1	49	1	23.0	-	21.96	-
		25	0	2	22.0	-	20.84	-
		25	12	2	22.0	-	20.80	-
		25	25	2	22.0	-	20.82	-
		50	0	2	22.0	-	20.78	-
	64QAM	1	0	2	22.0	-	21.29	-
		1	24	2	22.0	-	21.26	-
		1	49	2	22.0	-	21.20	-
		25	0	3	21.0	-	19.83	-
		25	12	3	21.0	-	19.80	-
		25	25	3	21.0	-	19.82	-
		50	0	3	21.0	-	19.79	-
256QAM	1	0	5	19.0	-	18.11	-	
	1	24	5	19.0	-	18.10	-	
	1	49	5	19.0	-	18.05	-	
	25	0	5	19.0	-	17.81	-	
	25	12	5	19.0	-	17.75	-	
	25	25	5	19.0	-	17.77	-	
	50	0	5	19.0	-	17.74	-	

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20425	20525	20625
						Freq(MHz)		
						826.5	836.5	846.5
5	QPSK	1	0	0	24.0	23.07	22.73	22.59
		1	12	0	24.0	22.94	22.70	22.46
		1	24	0	24.0	22.87	22.63	22.41
		12	0	1	23.0	22.05	21.89	21.69
		12	6	1	23.0	22.06	21.86	21.64
		12	13	1	23.0	21.97	21.80	21.57
		25	0	1	23.0	22.03	21.80	21.64
	16QAM	1	0	1	23.0	22.56	22.14	21.97
		1	12	1	23.0	22.40	22.13	21.85
		1	24	1	23.0	22.36	22.07	21.83
		12	0	2	22.0	21.14	20.88	20.77
		12	6	2	22.0	21.08	20.90	20.71
		12	13	2	22.0	21.06	20.83	20.66
		25	0	2	22.0	21.06	20.79	20.65
	64QAM	1	0	2	22.0	21.58	21.18	20.96
		1	12	2	22.0	21.47	21.06	20.82
		1	24	2	22.0	21.41	21.01	20.50
		12	0	3	21.0	20.02	19.92	19.74
		12	6	3	21.0	20.01	19.95	19.75
		12	13	3	21.0	19.93	19.85	19.66
		25	0	3	21.0	20.07	19.85	19.71
	256QAM	1	0	5	19.0	18.27	18.33	18.18
		1	12	5	19.0	18.11	18.26	18.06
		1	24	5	19.0	18.07	18.26	18.03
12		0	5	19.0	18.13	17.85	17.67	
12		6	5	19.0	18.13	17.90	17.65	
12		13	5	19.0	18.06	17.84	17.60	
25		0	5	19.0	18.02	17.82	17.68	

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20415	20525	20635
						Freq(MHz)		
						825.5	836.5	847.5
3	QPSK	1	0	0	24.0	22.99	22.81	22.53
		1	7	0	24.0	22.89	22.76	22.56
		1	14	0	24.0	22.83	22.71	22.39
		8	0	1	23.0	22.07	21.87	21.65
		8	3	1	23.0	22.08	21.90	21.64
		8	7	1	23.0	21.99	21.79	21.58
		15	0	1	23.0	22.03	21.83	21.60
	16QAM	1	0	1	23.0	22.39	22.16	21.92
		1	7	1	23.0	22.28	22.08	21.81
		1	14	1	23.0	22.22	22.03	21.74
		8	0	2	22.0	21.12	20.96	20.71
		8	3	2	22.0	21.12	20.94	20.70
		8	7	2	22.0	21.05	20.88	20.66
		15	0	2	22.0	21.04	20.92	20.64
	64QAM	1	0	2	22.0	21.50	21.33	21.11
		1	7	2	22.0	21.45	21.24	20.95
		1	14	2	22.0	21.35	21.17	20.83
		8	0	3	21.0	20.13	19.92	19.73
		8	3	3	21.0	20.05	19.92	19.73
		8	7	3	21.0	19.99	19.83	19.66
		15	0	3	21.0	20.08	19.86	19.67
	256QAM	1	0	5	19.0	18.39	18.24	17.91
		1	7	5	19.0	18.31	18.10	17.79
		1	14	5	19.0	18.34	18.16	17.78
		8	0	5	19.0	18.08	17.94	17.78
		8	3	5	19.0	18.05	17.90	17.76
		8	7	5	19.0	17.99	17.83	17.69
15		0	5	19.0	18.03	17.81	17.60	

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20407	20525	20643
						Freq(MHz)		
						824.7	836.5	848.3
1.4	QPSK	1	0	0	24.0	22.87	22.73	22.47
		1	2	0	24.0	23.00	22.78	22.51
		1	5	0	24.0	22.84	22.63	22.41
		3	0	0	24.0	22.92	22.72	22.46
		3	1	0	24.0	22.94	22.73	22.47
		3	3	0	24.0	22.88	22.66	22.43
		6	0	1	23.0	21.95	21.74	21.53
	16QAM	1	0	1	23.0	21.97	21.80	21.56
		1	2	1	23.0	22.09	21.92	21.61
		1	5	1	23.0	21.95	21.75	21.49
		3	0	1	23.0	21.92	21.74	21.50
		3	1	1	23.0	21.95	21.79	21.52
		3	3	1	23.0	21.88	21.71	21.38
		6	0	2	22.0	20.99	20.83	20.56
	64QAM	1	0	2	22.0	21.37	21.22	20.90
		1	2	2	22.0	21.48	21.27	20.93
		1	5	2	22.0	21.32	21.13	20.81
		3	0	2	22.0	21.14	20.98	20.69
		3	1	2	22.0	21.20	21.00	20.72
		3	3	2	22.0	21.12	20.98	20.66
		6	0	3	21.0	20.01	19.77	19.52
	256QAM	1	0	5	19.0	17.85	17.63	17.40
		1	2	5	19.0	17.91	17.69	17.40
		1	5	5	19.0	17.79	17.59	17.34
		3	0	5	19.0	17.88	17.69	17.42
		3	1	5	19.0	17.93	17.76	17.44
		3	3	5	19.0	17.83	17.66	17.35
6		0	5	19.0	17.88	17.68	17.44	

11.3.6 LTE band 5 DSI = 1, Reduction Power

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	20525	-
						Freq(MHz)		
						-	836.5	-
10	QPSK	1	0	-	17.1	-	15.96	-
		1	24	-	17.1	-	15.87	-
		1	49	-	17.1	-	15.76	-
		25	0	-	17.1	-	15.96	-
		25	12	-	17.1	-	15.91	-
		25	25	-	17.1	-	15.93	-
		50	0	-	17.1	-	15.91	-
	16QAM	1	0	-	17.1	-	16.29	-
		1	24	-	17.1	-	16.27	-
		1	49	-	17.1	-	16.11	-
		25	0	-	17.1	-	15.99	-
		25	12	-	17.1	-	15.99	-
		25	25	-	17.1	-	15.96	-
		50	0	-	17.1	-	15.90	-
	64QAM	1	0	-	17.1	-	16.44	-
		1	24	-	17.1	-	16.35	-
		1	49	-	17.1	-	16.18	-
		25	0	-	17.1	-	16.01	-
		25	12	-	17.1	-	15.99	-
		25	25	-	17.1	-	15.96	-
		50	0	-	17.1	-	15.88	-
	256QAM	1	0	-	17.1	-	16.24	-
		1	24	-	17.1	-	16.24	-
		1	49	-	17.1	-	16.22	-
25		0	-	17.1	-	15.91	-	
25		12	-	17.1	-	15.87	-	
25		25	-	17.1	-	15.95	-	
50		0	-	17.1	-	15.90	-	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20425	20525	20625
						Freq(MHz)		
						826.5	836.5	846.5
5	QPSK	1	0	-	17.1	16.15	15.93	15.79
		1	12	-	17.1	16.05	15.90	15.65
		1	24	-	17.1	15.98	15.79	15.59
		12	0	-	17.1	16.16	15.99	15.78
		12	6	-	17.1	16.15	15.98	15.76
		12	13	-	17.1	16.10	15.91	15.71
		25	0	-	17.1	16.12	15.90	15.71
	16QAM	1	0	-	17.1	16.62	16.31	16.22
		1	12	-	17.1	16.43	16.24	16.07
		1	24	-	17.1	16.43	16.20	16.00
		12	0	-	17.1	16.25	16.01	15.90
		12	6	-	17.1	16.24	16.03	15.83
		12	13	-	17.1	16.18	15.98	15.77
		25	0	-	17.1	16.21	15.97	15.82
	64QAM	1	0	-	17.1	16.57	16.38	16.20
		1	12	-	17.1	16.54	16.39	16.07
		1	24	-	17.1	16.40	16.24	16.09
		12	0	-	17.1	16.12	15.90	15.77
		12	6	-	17.1	16.09	15.94	15.73
		12	13	-	17.1	16.05	15.85	15.67
		25	0	-	17.1	16.21	15.97	15.80
	256QAM	1	0	-	17.1	16.37	16.16	16.01
		1	12	-	17.1	16.22	16.09	15.84
		1	24	-	17.1	16.20	16.03	15.80
12		0	-	17.1	16.26	16.07	15.92	
12		6	-	17.1	16.26	16.11	15.85	
12		13	-	17.1	16.17	16.01	15.80	
25		0	-	17.1	16.19	15.96	15.77	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20415	20525	20635
						Freq(MHz)		
						825.5	836.5	847.5
3	QPSK	1	0	-	17.1	16.12	15.96	15.66
		1	7	-	17.1	15.99	15.84	15.58
		1	14	-	17.1	15.98	15.77	15.53
		8	0	-	17.1	16.17	15.99	15.75
		8	3	-	17.1	16.16	15.95	15.74
		8	7	-	17.1	16.06	15.93	15.67
		15	0	-	17.1	16.03	15.96	15.59
	16QAM	1	0	-	17.1	16.41	16.26	16.02
		1	7	-	17.1	16.31	16.17	15.89
		1	14	-	17.1	16.32	16.15	15.87
		8	0	-	17.1	16.24	16.09	15.82
		8	3	-	17.1	16.22	16.10	15.83
		8	7	-	17.1	16.15	16.05	15.76
		15	0	-	17.1	16.17	16.03	15.77
	64QAM	1	0	-	17.1	16.57	16.37	16.16
		1	7	-	17.1	16.49	16.34	16.05
		1	14	-	17.1	16.43	16.19	15.94
		8	0	-	17.1	16.17	16.04	15.77
		8	3	-	17.1	16.19	16.00	15.74
		8	7	-	17.1	16.12	15.99	15.70
		15	0	-	17.1	16.15	16.01	15.76
256QAM	1	0	-	17.1	16.55	16.32	16.09	
	1	7	-	17.1	16.42	16.27	16.01	
	1	14	-	17.1	16.42	16.24	15.99	
	8	0	-	17.1	16.18	16.05	15.79	
	8	3	-	17.1	16.18	16.03	15.76	
	8	7	-	17.1	16.12	15.98	15.72	
	15	0	-	17.1	16.14	15.99	15.74	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
5						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20407	20525	20643
						Freq(MHz)		
						824.7	836.5	848.3
1.4	QPSK	1	0	-	17.1	16.04	15.85	15.54
		1	2	-	17.1	16.07	15.87	15.61
		1	5	-	17.1	15.96	15.78	15.49
		3	0	-	17.1	16.01	15.83	15.54
		3	1	-	17.1	16.00	15.81	15.56
		3	3	-	17.1	15.92	15.76	15.50
		6	0	-	17.1	15.97	15.78	15.50
	16QAM	1	0	-	17.1	16.08	15.90	15.67
		1	2	-	17.1	16.19	16.01	15.73
		1	5	-	17.1	16.07	15.88	15.58
		3	0	-	17.1	16.07	15.83	15.62
		3	1	-	17.1	16.09	15.87	15.63
		3	3	-	17.1	15.98	15.80	15.53
		6	0	-	17.1	16.13	15.92	15.64
	64QAM	1	0	-	17.1	16.44	16.28	16.01
		1	2	-	17.1	16.53	16.35	16.02
		1	5	-	17.1	16.42	16.19	15.97
		3	0	-	17.1	16.22	16.04	15.81
		3	1	-	17.1	16.26	16.08	15.82
		3	3	-	17.1	16.24	16.07	15.76
		6	0	-	17.1	16.07	15.88	15.65
	256QAM	1	0	-	17.1	15.96	15.78	15.50
		1	2	-	17.1	15.98	15.83	15.52
		1	5	-	17.1	15.88	15.74	15.41
3		0	-	17.1	15.99	15.80	15.54	
3		1	-	17.1	16.02	15.81	15.56	
3		3	-	17.1	15.92	15.78	15.50	
6		0	-	17.1	15.97	15.83	15.53	

*MPR is disabled when power reduction is enabled.

11.3.7 LTE band 7 DSI = 0, Full power

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20850	21100	21350
						Freq(MHz)		
						2510	2535	2560
20	QPSK	1	0	0	24.0	22.74	22.96	22.94
		1	49	0	24.0	22.79	22.94	22.93
		1	99	0	24.0	22.77	22.92	22.90
		50	0	1	23.0	21.82	21.91	21.98
		50	24	1	23.0	21.94	21.94	21.90
		50	50	1	23.0	21.93	21.99	21.95
		100	0	1	23.0	21.93	21.91	21.98
	16QAM	1	0	1	23.0	22.22	22.31	22.29
		1	49	1	23.0	22.24	22.30	22.27
		1	99	1	23.0	22.31	22.27	22.23
		50	0	2	22.0	20.86	20.91	20.90
		50	24	2	22.0	20.96	20.91	21.00
		50	50	2	22.0	20.95	20.96	20.96
		100	0	2	22.0	20.96	20.94	21.00
	64QAM	1	0	2	22.0	21.14	20.55	21.02
		1	49	2	22.0	21.20	21.01	20.99
		1	99	2	22.0	20.05	21.02	21.00
		50	0	3	21.0	19.88	19.98	19.94
		50	24	3	21.0	19.95	19.97	20.01
		50	50	3	21.0	19.95	20.00	19.99
		100	0	3	21.0	19.95	19.95	20.04
256QAM	1	0	5	19.0	17.95	18.05	17.99	
	1	49	5	19.0	18.11	18.06	18.04	
	1	99	5	19.0	17.95	18.08	18.05	
	50	0	5	19.0	17.87	17.96	17.94	
	50	24	5	19.0	18.01	17.95	18.02	
	50	50	5	19.0	18.01	18.02	18.00	
	100	0	5	19.0	17.97	17.96	18.02	

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20825	21100	21375
						Freq(MHz)		
						2507.5	2535	2562.5
15	QPSK	1	0	0	24.0	22.76	22.90	22.84
		1	37	0	24.0	22.77	22.82	22.78
		1	74	0	24.0	22.81	22.78	22.76
		36	0	1	23.0	21.86	21.92	21.95
		36	19	1	23.0	21.93	21.91	21.91
		36	39	1	23.0	21.96	21.96	21.92
		75	0	1	23.0	21.92	21.92	21.87
	16QAM	1	0	1	23.0	22.06	22.36	22.17
		1	37	1	23.0	22.24	22.21	22.24
		1	74	1	23.0	22.21	22.26	22.16
		36	0	2	22.0	20.88	20.94	20.95
		36	19	2	22.0	20.96	20.96	20.93
		36	39	2	22.0	20.95	21.00	20.98
		75	0	2	22.0	20.97	20.92	20.89
	64QAM	1	0	2	22.0	21.22	21.03	21.29
		1	37	2	22.0	21.27	21.33	21.36
		1	74	2	22.0	21.30	21.36	21.31
		36	0	3	21.0	19.86	19.92	19.93
		36	19	3	21.0	19.93	19.92	19.92
		36	39	3	21.0	19.92	19.97	19.95
		75	0	3	21.0	19.97	19.93	19.92
256QAM	1	0	5	19.0	18.12	18.27	18.23	
	1	37	5	19.0	18.20	18.24	18.25	
	1	74	5	19.0	18.26	18.29	18.27	
	36	0	5	19.0	17.81	17.87	17.86	
	36	19	5	19.0	17.91	17.87	17.84	
	36	39	5	19.0	17.92	17.96	17.92	
	75	0	5	19.0	17.95	17.93	17.91	

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20800	21100	21400
						Freq(MHz)		
						2505	2535	2565
10	QPSK	1	0	0	24.0	22.76	22.82	22.83
		1	24	0	24.0	22.70	22.78	22.77
		1	49	0	24.0	22.79	22.81	22.81
		25	0	1	23.0	21.90	21.88	21.95
		25	12	1	23.0	21.91	21.92	21.92
		25	25	1	23.0	21.92	21.94	21.90
		50	0	1	23.0	21.89	21.92	21.93
	16QAM	1	0	1	23.0	22.09	22.16	22.17
		1	24	1	23.0	22.03	22.14	22.10
		1	49	1	23.0	22.12	22.15	22.15
		25	0	2	22.0	20.92	20.93	20.91
		25	12	2	22.0	20.94	20.96	20.94
		25	25	2	22.0	20.94	21.00	20.98
		50	0	2	22.0	20.91	20.92	20.89
	64QAM	1	0	2	22.0	21.31	21.34	21.33
		1	24	2	22.0	21.22	21.33	21.33
		1	49	2	22.0	21.27	21.36	21.35
		25	0	3	21.0	19.96	19.93	19.95
		25	12	3	21.0	19.98	19.97	19.98
		25	25	3	21.0	19.95	20.00	20.00
		50	0	3	21.0	19.96	19.94	19.96
	256QAM	1	0	5	19.0	18.22	18.24	18.24
		1	24	5	19.0	18.12	18.19	18.23
		1	49	5	19.0	18.26	18.30	18.28
25		0	5	19.0	17.87	17.90	17.91	
25		12	5	19.0	17.92	17.91	17.92	
25		25	5	19.0	17.92	17.95	17.98	
50		0	5	19.0	17.90	17.90	17.93	

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20775	21100	21425
						Freq(MHz)		
						2502.5	2535	2567.5
5	QPSK	1	0	0	24.0	22.74	22.68	22.87
		1	12	0	24.0	22.73	22.74	22.81
		1	24	0	24.0	22.75	22.75	22.82
		12	0	1	23.0	21.87	21.96	22.00
		12	6	1	23.0	21.86	21.91	21.98
		12	13	1	23.0	21.88	21.97	21.99
		25	0	1	23.0	21.81	21.91	21.98
	16QAM	1	0	1	23.0	22.20	22.10	22.31
		1	12	1	23.0	22.18	22.16	22.26
		1	24	1	23.0	22.17	22.15	22.32
		12	0	2	22.0	20.97	21.00	21.05
		12	6	2	22.0	20.98	20.95	21.04
		12	13	2	22.0	20.97	21.05	21.07
		25	0	2	22.0	20.92	20.94	21.03
	64QAM	1	0	2	22.0	21.28	21.12	21.41
		1	12	2	22.0	21.26	21.15	21.35
		1	24	2	22.0	21.32	21.13	21.37
		12	0	3	21.0	19.83	20.02	19.91
		12	6	3	21.0	19.84	19.98	19.94
		12	13	3	21.0	19.82	20.06	19.93
		25	0	3	21.0	19.93	20.02	20.01
	256QAM	1	0	5	19.0	18.07	18.41	18.16
		1	12	5	19.0	17.92	18.36	18.04
		1	24	5	19.0	18.01	18.47	18.11
12		0	5	19.0	17.97	17.97	18.06	
12		6	5	19.0	17.97	17.96	18.08	
12		13	5	19.0	17.97	17.98	18.07	
25		0	5	19.0	17.91	17.92	18.00	

11.3.8 LTE band 7 DSI = 1, Reduction Power

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20850	21100	21350
						Freq(MHz)		
						2510	2535	2560
20	QPSK	1	0	-	17.6	16.41	16.52	16.57
		1	49	-	17.6	16.47	16.51	16.52
		1	99	-	17.6	16.48	16.53	16.53
		50	0	-	17.6	16.45	16.55	16.63
		50	24	-	17.6	16.56	16.54	16.52
		50	50	-	17.6	16.57	16.59	16.57
		100	0	-	17.6	16.46	16.45	16.52
	16QAM	1	0	-	17.6	16.84	16.90	16.94
		1	49	-	17.6	16.85	16.84	16.89
		1	99	-	17.6	16.89	16.89	16.79
		50	0	-	17.6	16.49	16.58	16.53
		50	24	-	17.6	16.61	16.58	16.62
		50	50	-	17.6	16.59	16.63	16.60
		100	0	-	17.6	16.57	16.57	16.60
	64QAM	1	0	-	17.6	16.66	16.74	16.66
		1	49	-	17.6	16.72	16.77	16.66
		1	99	-	17.6	16.70	16.80	16.64
		50	0	-	17.6	16.52	16.60	16.54
		50	24	-	17.6	16.63	16.60	16.65
		50	50	-	17.6	16.63	16.65	16.62
		100	0	-	17.6	16.59	16.54	16.67
	256QAM	1	0	-	17.6	16.43	16.52	16.60
		1	49	-	17.6	16.55	16.60	16.65
		1	99	-	17.6	16.57	16.65	16.67
50		0	-	17.6	16.50	16.60	16.58	
50		24	-	17.6	16.62	16.62	16.64	
50		50	-	17.6	16.64	16.64	16.60	
100		0	-	17.6	16.57	16.56	16.64	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20825	21100	21375
						Freq(MHz)		
						2507.5	2535	2562.5
15	QPSK	1	0	-	17.6	16.41	16.56	16.58
		1	37	-	17.6	16.42	16.52	16.52
		1	74	-	17.6	16.45	16.54	16.50
		36	0	-	17.6	16.46	16.56	16.58
		36	19	-	17.6	16.57	16.55	16.55
		36	39	-	17.6	16.59	16.59	16.57
		75	0	-	17.6	16.37	16.53	16.52
	16QAM	1	0	-	17.6	16.87	16.85	16.77
		1	37	-	17.6	16.76	16.76	16.76
		1	74	-	17.6	16.82	16.76	16.72
		36	0	-	17.6	16.45	16.56	16.58
		36	19	-	17.6	16.60	16.58	16.58
		36	39	-	17.6	16.60	16.63	16.63
		75	0	-	17.6	16.58	16.49	16.51
	64QAM	1	0	-	17.6	16.86	17.03	17.02
		1	37	-	17.6	16.89	17.02	17.02
		1	74	-	17.6	16.87	17.03	17.00
		36	0	-	17.6	16.50	16.60	16.60
		36	19	-	17.6	16.59	16.61	16.61
		36	39	-	17.6	16.59	16.65	16.65
		75	0	-	17.6	16.58	16.53	16.54
	256QAM	1	0	-	17.6	16.80	16.50	16.52
		1	37	-	17.6	16.87	16.55	16.58
		1	74	-	17.6	16.89	16.63	16.59
36		0	-	17.6	16.44	16.57	16.56	
36		19	-	17.6	16.53	16.60	16.60	
36		39	-	17.6	16.53	16.66	16.63	
75		0	-	17.6	16.57	16.53	16.55	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20800	21100	21400
						Freq(MHz)		
						2505	2535	2565
10	QPSK	1	0	-	17.6	16.28	16.37	16.44
		1	24	-	17.6	16.25	16.35	16.39
		1	49	-	17.6	16.32	16.36	16.43
		25	0	-	17.6	16.53	16.58	16.53
		25	12	-	17.6	16.56	16.59	16.52
		25	25	-	17.6	16.57	16.60	16.56
		50	0	-	17.6	16.31	16.31	16.41
	16QAM	1	0	-	17.6	16.62	16.69	16.78
		1	24	-	17.6	16.58	16.65	16.73
		1	49	-	17.6	16.61	16.70	16.84
		25	0	-	17.6	16.58	16.60	16.55
		25	12	-	17.6	16.61	16.62	16.59
		25	25	-	17.6	16.58	16.63	16.63
		50	0	-	17.6	16.55	16.55	16.52
	64QAM	1	0	-	17.6	16.69	16.87	16.86
		1	24	-	17.6	16.75	16.78	16.82
		1	49	-	17.6	16.75	16.82	16.80
		25	0	-	17.6	16.58	16.63	16.58
		25	12	-	17.6	16.59	16.63	16.57
		25	25	-	17.6	16.59	16.64	16.60
		50	0	-	17.6	16.57	16.56	16.55
	256QAM	1	0	-	17.6	16.71	16.84	16.73
		1	24	-	17.6	16.60	16.68	16.81
		1	49	-	17.6	16.71	16.81	16.81
25		0	-	17.6	16.52	16.55	16.54	
25		12	-	17.6	16.56	16.56	16.51	
25		25	-	17.6	16.52	16.63	16.58	
50		0	-	17.6	16.52	16.53	16.48	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
7						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	20775	21100	21425
						Freq(MHz)		
						2502.5	2535	2567.5
5	QPSK	1	0	-	17.6	16.43	16.31	16.41
		1	12	-	17.6	16.40	16.36	16.35
		1	24	-	17.6	16.44	16.38	16.38
		12	0	-	17.6	16.52	16.56	16.62
		12	6	-	17.6	16.51	16.53	16.58
		12	13	-	17.6	16.53	16.60	16.56
		25	0	-	17.6	16.43	16.37	16.37
	16QAM	1	0	-	17.6	16.86	16.67	16.71
		1	12	-	17.6	16.85	16.72	16.67
		1	24	-	17.6	16.89	16.76	16.73
		12	0	-	17.6	16.60	16.59	16.65
		12	6	-	17.6	16.63	16.61	16.65
		12	13	-	17.6	16.59	16.66	16.64
		25	0	-	17.6	16.58	16.53	16.58
	64QAM	1	0	-	17.6	16.91	16.72	16.72
		1	12	-	17.6	16.81	16.71	16.69
		1	24	-	17.6	16.89	16.78	16.73
		12	0	-	17.6	16.44	16.61	16.65
		12	6	-	17.6	16.46	16.61	16.68
		12	13	-	17.6	16.43	16.62	16.66
		25	0	-	17.6	16.58	16.62	16.64
	256QAM	1	0	-	17.6	16.67	16.72	16.84
		1	12	-	17.6	16.58	16.79	16.78
		1	24	-	17.6	16.66	16.85	16.86
12		0	-	17.6	16.62	16.57	16.57	
12		6	-	17.6	16.59	16.53	16.59	
12		13	-	17.6	16.56	16.63	16.62	
25		0	-	17.6	16.57	16.55	16.63	

*MPR is disabled when power reduction is enabled.

11.3.9 LTE band 12 DSI = 0, Full power

Band						Meas. Pwr Avg (dBm)		
12						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23095	-
						Freq(MHz)		
						-	707.5	-
10	QPSK	1	0	0	24.0	-	22.49	-
		1	24	0	24.0	-	22.55	-
		1	49	0	24.0	-	22.71	-
		25	0	1	23.0	-	21.80	-
		25	12	1	23.0	-	21.86	-
		25	25	1	23.0	-	21.79	-
		50	0	1	23.0	-	21.83	-
	16QAM	1	0	1	23.0	-	21.81	-
		1	24	1	23.0	-	21.87	-
		1	49	1	23.0	-	21.98	-
		25	0	2	22.0	-	20.81	-
		25	12	2	22.0	-	20.87	-
		25	25	2	22.0	-	20.85	-
		50	0	2	22.0	-	20.86	-
	64QAM	1	0	2	22.0	-	21.10	-
		1	24	2	22.0	-	21.07	-
		1	49	2	22.0	-	21.28	-
		25	0	3	21.0	-	19.85	-
		25	12	3	21.0	-	19.94	-
		25	25	3	21.0	-	19.84	-
		50	0	3	21.0	-	19.93	-
256QAM	1	0	5	19.0	-	17.92	-	
	1	24	5	19.0	-	17.85	-	
	1	49	5	19.0	-	18.27	-	
	25	0	5	19.0	-	17.83	-	
	25	12	5	19.0	-	17.91	-	
	25	25	5	19.0	-	17.82	-	
	50	0	5	19.0	-	17.86	-	

Band						Meas. Pwr Avg (dBm)		
12						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23035	23095	23155
						Freq(MHz)		
						701.5	707.5	713.5
5	QPSK	1	0	0	24.0	22.66	22.69	22.89
		1	12	0	24.0	22.70	22.70	22.95
		1	24	0	24.0	22.69	22.76	22.99
		12	0	1	23.0	21.76	21.90	21.95
		12	6	1	23.0	21.80	21.92	22.00
		12	13	1	23.0	21.78	21.86	22.03
		25	0	1	23.0	21.80	21.88	21.95
	16QAM	1	0	1	23.0	22.17	22.07	22.22
		1	12	1	23.0	22.10	22.08	22.37
		1	24	1	23.0	22.15	22.18	22.35
		12	0	2	22.0	20.82	20.93	21.05
		12	6	2	22.0	20.88	21.00	21.07
		12	13	2	22.0	20.84	20.94	21.13
		25	0	2	22.0	20.86	20.91	21.01
	64QAM	1	0	2	22.0	21.22	21.11	21.25
		1	12	2	22.0	21.19	21.08	21.28
		1	24	2	22.0	21.22	21.14	21.39
		12	0	3	21.0	19.68	19.93	20.04
		12	6	3	21.0	19.74	19.96	20.01
		12	13	3	21.0	19.73	19.94	20.04
		25	0	3	21.0	19.87	19.96	20.02
	256QAM	1	0	5	19.0	17.87	18.05	18.26
		1	12	5	19.0	17.86	18.02	18.19
		1	24	5	19.0	17.91	18.04	18.25
12		0	5	19.0	17.85	17.92	18.00	
12		6	5	19.0	17.89	17.98	18.03	
12		13	5	19.0	17.83	17.91	18.09	
25		0	5	19.0	17.79	17.96	18.02	

Band						Meas. Pwr Avg (dBm)		
12						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23025	23095	23165
						Freq(MHz)		
						700.5	707.5	714.5
3	QPSK	1	0	0	24.0	22.73	22.76	22.67
		1	7	0	24.0	22.68	22.69	22.51
		1	14	0	24.0	22.72	22.70	22.42
		8	0	1	23.0	21.84	21.78	21.69
		8	3	1	23.0	21.86	21.87	21.67
		8	7	1	23.0	21.85	21.77	21.59
		15	0	1	23.0	21.78	21.80	21.62
	16QAM	1	0	1	23.0	21.96	22.10	22.01
		1	7	1	23.0	21.88	22.05	21.88
		1	14	1	23.0	21.88	22.04	21.75
		8	0	2	22.0	20.88	20.89	20.75
		8	3	2	22.0	20.94	20.93	20.69
		8	7	2	22.0	20.88	20.89	20.66
	64QAM	15	0	2	22.0	20.85	20.86	20.64
		1	0	2	22.0	21.16	21.25	20.95
		1	7	2	22.0	20.99	21.23	20.81
		1	14	2	22.0	21.08	21.19	20.70
		8	0	3	21.0	19.85	19.86	19.73
		8	3	3	21.0	19.90	19.89	19.74
	256QAM	8	7	3	21.0	19.83	19.82	19.67
		15	0	3	21.0	19.94	19.88	19.68
1		0	5	19.0	17.77	18.20	17.99	
1		7	5	19.0	17.77	18.14	17.96	
1		14	5	19.0	17.72	18.15	17.87	
8		0	5	19.0	17.93	17.85	17.75	
8		3	5	19.0	17.97	17.91	17.73	
8	7	5	19.0	17.98	17.87	17.67		
15	0	5	19.0	17.93	17.84	17.65		

Band						Meas. Pwr Avg (dBm)		
12						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23017	23095	23017
						Freq(MHz)		
						699.7	707.5	715.3
1.4	QPSK	1	0	0	24.0	22.71	22.65	22.46
		1	2	0	24.0	22.81	22.78	22.54
		1	5	0	24.0	22.69	22.72	22.45
		3	0	0	24.0	22.78	22.74	22.44
		3	1	0	24.0	22.77	22.73	22.49
		3	3	0	24.0	22.71	22.65	22.39
		6	0	1	23.0	21.82	21.79	21.55
	16QAM	1	0	1	23.0	21.78	21.76	21.78
		1	2	1	23.0	21.92	21.90	21.86
		1	5	1	23.0	21.81	21.79	21.78
		3	0	1	23.0	21.80	21.78	21.62
		3	1	1	23.0	21.84	21.79	21.77
		3	3	1	23.0	21.74	21.71	21.65
		6	0	2	22.0	20.87	20.86	20.62
	64QAM	1	0	2	22.0	21.15	21.13	20.90
		1	2	2	22.0	21.31	21.25	20.96
		1	5	2	22.0	21.19	21.15	20.90
		3	0	2	22.0	21.02	20.99	20.70
		3	1	2	22.0	21.07	21.00	20.76
		3	3	2	22.0	20.96	20.93	20.69
		6	0	3	21.0	19.82	19.77	19.53
	256QAM	1	0	5	19.0	17.70	17.66	17.79
		1	2	5	19.0	17.79	17.74	17.85
		1	5	5	19.0	17.69	17.62	17.70
3		0	5	19.0	17.74	17.74	17.69	
3		1	5	19.0	17.79	17.75	17.73	
3		3	5	19.0	17.70	17.66	17.68	
6		0	5	19.0	17.74	17.72	17.62	

11.3.10 LTE band 12 DSI = 1, Reduction Power

Band						Meas. Pwr Avg (dBm)		
12						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23095	-
						Freq(MHz)		
						-	707.5	-
10	QPSK	1	0	-	19.4	-	18.16	-
		1	24	-	19.4	-	18.23	-
		1	49	-	19.4	-	18.33	-
		25	0	-	19.4	-	18.25	-
		25	12	-	19.4	-	18.32	-
		25	25	-	19.4	-	18.24	-
		50	0	-	19.4	-	18.31	-
	16QAM	1	0	-	19.4	-	18.39	-
		1	24	-	19.4	-	18.43	-
		1	49	-	19.4	-	18.57	-
		25	0	-	19.4	-	18.27	-
		25	12	-	19.4	-	18.33	-
		25	25	-	19.4	-	18.27	-
		50	0	-	19.4	-	18.30	-
	64QAM	1	0	-	19.4	-	18.63	-
		1	24	-	19.4	-	18.62	-
		1	49	-	19.4	-	18.74	-
		25	0	-	19.4	-	18.30	-
		25	12	-	19.4	-	18.36	-
		25	25	-	19.4	-	18.31	-
		50	0	-	19.4	-	18.34	-
256QAM	1	0	-	19.4	-	18.04	-	
	1	24	-	19.4	-	18.10	-	
	1	49	-	19.4	-	18.34	-	
	25	0	-	19.4	-	17.88	-	
	25	12	-	19.4	-	17.93	-	
	25	25	-	19.4	-	17.89	-	
	50	0	-	19.4	-	17.94	-	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
12						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23035	23095	23035
						Freq(MHz)		
						701.5	707.5	713.5
5	QPSK	1	0	-	19.4	18.06	18.13	18.13
		1	12	-	19.4	18.05	18.19	18.20
		1	24	-	19.4	18.11	18.18	18.30
		12	0	-	19.4	18.10	18.25	18.32
		12	6	-	19.4	18.17	18.30	18.41
		12	13	-	19.4	18.11	18.26	18.36
		25	0	-	19.4	18.07	18.17	18.24
	16QAM	1	0	-	19.4	18.42	18.51	18.58
		1	12	-	19.4	18.42	18.57	18.68
		1	24	-	19.4	18.43	18.54	18.75
		12	0	-	19.4	18.14	18.29	18.41
		12	6	-	19.4	18.18	18.30	18.42
		12	13	-	19.4	18.12	18.28	18.47
		25	0	-	19.4	18.18	18.26	18.36
	64QAM	1	0	-	19.4	18.47	18.51	18.55
		1	12	-	19.4	18.46	18.46	18.64
		1	24	-	19.4	18.41	18.53	18.68
		12	0	-	19.4	18.13	18.32	18.47
		12	6	-	19.4	18.18	18.36	18.48
		12	13	-	19.4	18.17	18.30	18.48
		25	0	-	19.4	18.17	18.31	18.41
	256QAM	1	0	-	19.4	17.86	18.04	18.11
		1	12	-	19.4	17.92	18.06	18.15
		1	24	-	19.4	18.00	18.10	18.23
12		0	-	19.4	17.78	17.89	18.02	
12		6	-	19.4	17.86	17.93	18.07	
12		13	-	19.4	17.79	17.93	18.02	
25		0	-	19.4	17.85	17.90	17.98	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
12						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23025	23095	23165
						Freq(MHz)		
						700.5	707.5	714.5
3	QPSK	1	0	-	19.4	18.16	18.13	17.96
		1	7	-	19.4	18.14	18.07	17.93
		1	14	-	19.4	18.13	18.02	17.72
		8	0	-	19.4	18.23	18.18	18.05
		8	3	-	19.4	18.29	18.23	18.00
		8	7	-	19.4	18.22	18.14	17.95
		15	0	-	19.4	18.16	18.09	17.87
	16QAM	1	0	-	19.4	18.51	18.48	18.12
		1	7	-	19.4	18.46	18.41	18.02
		1	14	-	19.4	18.48	18.40	17.99
		8	0	-	19.4	18.31	18.27	17.99
		8	3	-	19.4	18.35	18.32	17.93
		8	7	-	19.4	18.34	18.27	17.90
		15	0	-	19.4	18.33	18.27	18.01
	64QAM	1	0	-	19.4	18.57	18.61	18.38
		1	7	-	19.4	18.63	18.49	18.31
		1	14	-	19.4	18.61	18.46	18.13
		8	0	-	19.4	18.31	18.22	18.16
		8	3	-	19.4	18.31	18.25	18.12
		8	7	-	19.4	18.27	18.25	18.05
		15	0	-	19.4	18.29	18.27	18.08
256QAM	1	0	-	19.4	18.21	18.15	17.94	
	1	7	-	19.4	18.17	18.10	17.77	
	1	14	-	19.4	18.18	18.12	17.70	
	8	0	-	19.4	17.90	17.81	17.75	
	8	3	-	19.4	17.93	17.85	17.73	
	8	7	-	19.4	17.87	17.78	17.71	
	15	0	-	19.4	17.88	17.79	17.57	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
12						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23017	23095	23017
						Freq(MHz)		
						699.7	707.5	715.3
1.4	QPSK	1	0	-	19.4	18.09	18.06	17.83
		1	2	-	19.4	18.20	18.15	17.82
		1	5	-	19.4	18.07	18.05	17.70
		3	0	-	19.4	18.17	18.11	17.82
		3	1	-	19.4	18.16	18.10	17.81
		3	3	-	19.4	18.09	18.04	17.80
		6	0	-	19.4	18.10	18.06	17.82
	16QAM	1	0	-	19.4	18.18	18.15	18.07
		1	2	-	19.4	18.33	18.30	18.15
		1	5	-	19.4	18.20	18.18	17.96
		3	0	-	19.4	18.18	18.18	18.11
		3	1	-	19.4	18.21	18.20	18.13
		3	3	-	19.4	18.15	18.07	18.09
		6	0	-	19.4	18.27	18.24	17.91
	64QAM	1	0	-	19.4	18.56	18.53	18.28
		1	2	-	19.4	18.69	18.64	18.29
		1	5	-	19.4	18.54	18.54	18.15
		3	0	-	19.4	18.42	18.35	17.98
		3	1	-	19.4	18.44	18.39	18.05
		3	3	-	19.4	18.40	18.33	17.98
		6	0	-	19.4	18.26	18.18	18.05
	256QAM	1	0	-	19.4	17.65	17.58	17.77
		1	2	-	19.4	17.77	17.73	17.84
		1	5	-	19.4	17.69	17.63	17.75
3		0	-	19.4	17.73	17.70	17.61	
3		1	-	19.4	17.76	17.74	17.66	
3		3	-	19.4	17.70	17.64	17.55	
6		0	-	19.4	17.75	17.68	17.61	

*MPR is disabled when power reduction is enabled.

11.3.11 LTE band 13 DSI = 0, Full power

Band						Meas. Pwr Avg (dBm)		
13						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23230	-
						Freq(MHz)		
						-	782	-
10	QPSK	1	0	0	24.0	-	22.45	-
		1	24	0	24.0	-	22.41	-
		1	49	0	24.0	-	22.33	-
		25	0	1	23.0	-	21.54	-
		25	12	1	23.0	-	21.53	-
		25	25	1	23.0	-	21.55	-
		50	0	1	23.0	-	21.52	-
	16QAM	1	0	1	23.0	-	21.80	-
		1	24	1	23.0	-	21.73	-
		1	49	1	23.0	-	21.72	-
		25	0	2	22.0	-	20.56	-
		25	12	2	22.0	-	20.55	-
		25	25	2	22.0	-	20.55	-
		50	0	2	22.0	-	20.51	-
	64QAM	1	0	2	22.0	-	20.74	-
		1	24	2	22.0	-	20.81	-
		1	49	2	22.0	-	20.67	-
		25	0	3	21.0	-	19.55	-
		25	12	3	21.0	-	19.54	-
		25	25	3	21.0	-	19.56	-
		50	0	3	21.0	-	19.54	-
256QAM	1	0	5	19.0	-	17.64	-	
	1	24	5	19.0	-	17.63	-	
	1	49	5	19.0	-	17.75	-	
	25	0	5	19.0	-	17.54	-	
	25	12	5	19.0	-	17.56	-	
	25	25	5	19.0	-	17.54	-	
	50	0	5	19.0	-	17.52	-	

Band						Meas. Pwr Avg (dBm)		
13						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23205	23230	23255
						Freq(MHz)		
						779.5	782	784.5
5	QPSK	1	0	0	24.0	22.49	22.40	22.44
		1	12	0	24.0	22.47	22.42	22.40
		1	24	0	24.0	22.48	22.45	22.38
		12	0	1	23.0	21.60	21.55	21.60
		12	6	1	23.0	21.63	21.56	21.53
		12	13	1	23.0	21.58	21.53	21.51
		25	0	1	23.0	21.48	21.56	21.54
	16QAM	1	0	1	23.0	21.85	21.81	21.83
		1	12	1	23.0	21.92	21.82	21.73
		1	24	1	23.0	21.88	21.80	21.72
		12	0	2	22.0	20.62	20.64	20.60
		12	6	2	22.0	20.64	20.59	20.64
		12	13	2	22.0	20.62	20.65	20.59
		25	0	2	22.0	20.70	20.58	20.54
	64QAM	1	0	2	22.0	20.86	20.79	20.85
		1	12	2	22.0	20.85	20.81	20.80
		1	24	2	22.0	20.89	20.86	20.83
		12	0	3	21.0	19.65	19.63	19.66
		12	6	3	21.0	19.70	19.64	19.55
		12	13	3	21.0	19.64	19.65	19.50
		25	0	3	21.0	19.68	19.57	19.60
256QAM	1	0	5	19.0	17.79	17.72	17.68	
	1	12	5	19.0	17.72	17.74	17.62	
	1	24	5	19.0	17.84	17.70	17.65	
	12	0	5	19.0	17.63	17.61	17.71	
	12	6	5	19.0	17.65	17.57	17.56	
	12	13	5	19.0	17.65	17.60	17.57	
	25	0	5	19.0	17.66	17.53	17.57	

11.3.12 LTE band 13 DSI = 1, Reduction Power

Band						Meas. Pwr Avg (dBm)		
13						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23230	-
						Freq(MHz)		
						-	782	-
10	QPSK	1	0	-	18.0	-	16.57	-
		1	24	-	18.0	-	16.48	-
		1	49	-	18.0	-	16.39	-
		25	0	-	18.0	-	16.57	-
		25	12	-	18.0	-	16.58	-
		25	25	-	18.0	-	16.56	-
		50	0	-	18.0	-	16.56	-
	16QAM	1	0	-	18.0	-	16.85	-
		1	24	-	18.0	-	16.85	-
		1	49	-	18.0	-	16.73	-
		25	0	-	18.0	-	16.61	-
		25	12	-	18.0	-	16.58	-
		25	25	-	18.0	-	16.59	-
		50	0	-	18.0	-	16.53	-
	64QAM	1	0	-	18.0	-	17.00	-
		1	24	-	18.0	-	16.90	-
		1	49	-	18.0	-	16.82	-
		25	0	-	18.0	-	16.65	-
		25	12	-	18.0	-	16.64	-
		25	25	-	18.0	-	16.61	-
		50	0	-	18.0	-	16.58	-
	256QAM	1	0	-	18.0	-	16.81	-
		1	24	-	18.0	-	16.83	-
		1	49	-	18.0	-	16.81	-
25		0	-	18.0	-	16.49	-	
25		12	-	18.0	-	16.55	-	
25		25	-	18.0	-	16.55	-	
50		0	-	18.0	-	16.55	-	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
13						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23205	23230	23255
						Freq(MHz)		
						779.5	782	784.5
5	QPSK	1	0	-	18.0	16.45	16.38	16.44
		1	12	-	18.0	16.46	16.39	16.39
		1	24	-	18.0	16.47	16.37	16.37
		12	0	-	18.0	16.59	16.57	16.59
		12	6	-	18.0	16.61	16.52	16.56
		12	13	-	18.0	16.62	16.56	16.52
		25	0	-	18.0	16.46	16.33	16.43
	16QAM	1	0	-	18.0	16.83	16.74	16.87
		1	12	-	18.0	16.80	16.79	16.78
		1	24	-	18.0	16.78	16.79	16.78
		12	0	-	18.0	16.59	16.55	16.64
		12	6	-	18.0	16.66	16.56	16.58
		12	13	-	18.0	16.64	16.57	16.56
		25	0	-	18.0	16.70	16.56	16.58
	64QAM	1	0	-	18.0	16.80	16.77	16.86
		1	12	-	18.0	16.84	16.87	16.76
		1	24	-	18.0	16.83	16.77	16.75
		12	0	-	18.0	16.69	16.62	16.65
		12	6	-	18.0	16.70	16.62	16.62
		12	13	-	18.0	16.67	16.64	16.60
		25	0	-	18.0	16.73	16.54	16.57
256QAM	1	0	-	18.0	16.72	16.63	16.71	
	1	12	-	18.0	16.60	16.66	16.66	
	1	24	-	18.0	16.76	16.66	16.73	
	12	0	-	18.0	16.61	16.61	16.61	
	12	6	-	18.0	16.65	16.56	16.58	
	12	13	-	18.0	16.62	16.59	16.54	
	25	0	-	18.0	16.65	16.57	16.57	

*MPR is disabled when power reduction is enabled.

11.3.13 LTE band 14 DSI = 0, Full power

Band						Meas. Pwr Avg (dBm)		
14						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23330	-
						Freq(MHz)		
						-	793	-
10	QPSK	1	0	0	24.0	-	22.40	-
		1	24	0	24.0	-	22.35	-
		1	49	0	24.0	-	22.31	-
		25	0	1	23.0	-	21.38	-
		25	12	1	23.0	-	21.48	-
		25	25	1	23.0	-	21.46	-
		50	0	1	23.0	-	21.47	-
	16QAM	1	0	1	23.0	-	21.74	-
		1	24	1	23.0	-	21.66	-
		1	49	1	23.0	-	21.68	-
		25	0	2	22.0	-	20.42	-
		25	12	2	22.0	-	20.51	-
		25	25	2	22.0	-	20.49	-
		50	0	2	22.0	-	20.45	-
	64QAM	1	0	2	22.0	-	20.72	-
		1	24	2	22.0	-	20.73	-
		1	49	2	22.0	-	20.69	-
		25	0	3	21.0	-	19.44	-
		25	12	3	21.0	-	19.52	-
		25	25	3	21.0	-	19.45	-
		50	0	3	21.0	-	19.46	-
256QAM	1	0	5	19.0	-	17.58	-	
	1	24	5	19.0	-	17.64	-	
	1	49	5	19.0	-	17.59	-	
	25	0	5	19.0	-	17.43	-	
	25	12	5	19.0	-	17.49	-	
	25	25	5	19.0	-	17.44	-	
	50	0	5	19.0	-	17.47	-	

Band						Meas. Pwr Avg (dBm)		
14						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23305	23330	23355
						Freq(MHz)		
						790.5	793	795.5
5	QPSK	1	0	0	24.0	22.43	22.38	22.27
		1	12	0	24.0	22.49	22.42	22.34
		1	24	0	24.0	22.39	22.40	22.26
		12	0	1	23.0	21.50	21.46	21.43
		12	6	1	23.0	21.55	21.54	21.47
		12	13	1	23.0	21.48	21.50	21.44
		25	0	1	23.0	21.51	21.47	21.41
	16QAM	1	0	1	23.0	21.79	21.84	21.66
		1	12	1	23.0	21.83	21.89	21.78
		1	24	1	23.0	21.69	21.90	21.76
		12	0	2	22.0	20.61	20.52	20.48
		12	6	2	22.0	20.59	20.59	20.51
		12	13	2	22.0	20.57	20.53	20.51
		25	0	2	22.0	20.56	20.56	20.42
	64QAM	1	0	2	22.0	20.81	20.92	20.64
		1	12	2	22.0	20.83	20.99	20.72
		1	24	2	22.0	20.76	20.91	20.70
		12	0	3	21.0	19.64	19.42	19.50
		12	6	3	21.0	19.66	19.49	19.54
		12	13	3	21.0	19.62	19.46	19.53
		25	0	3	21.0	19.53	19.56	19.48
	256QAM	1	0	5	19.0	17.61	17.57	17.90
		1	12	5	19.0	17.69	17.60	17.98
		1	24	5	19.0	17.59	17.62	17.92
12		0	5	19.0	17.62	17.55	17.44	
12		6	5	19.0	17.58	17.62	17.47	
12		13	5	19.0	17.54	17.57	17.47	
25		0	5	19.0	17.54	17.50	17.42	

11.3.14 LTE band 14 DSI = 1, Reduction Power

Band						Meas. Pwr Avg (dBm)		
14						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23330	-
						Freq(MHz)		
						-	793	-
10	QPSK	1	0	-	18.0	-	16.43	-
		1	24	-	18.0	-	16.32	-
		1	49	-	18.0	-	16.35	-
		25	0	-	18.0	-	16.41	-
		25	12	-	18.0	-	16.48	-
		25	25	-	18.0	-	16.46	-
		50	0	-	18.0	-	16.38	-
	16QAM	1	0	-	18.0	-	16.71	-
		1	24	-	18.0	-	16.62	-
		1	49	-	18.0	-	16.52	-
		25	0	-	18.0	-	16.47	-
		25	12	-	18.0	-	16.53	-
		25	25	-	18.0	-	16.51	-
		50	0	-	18.0	-	16.52	-
	64QAM	1	0	-	18.0	-	16.88	-
		1	24	-	18.0	-	16.74	-
		1	49	-	18.0	-	16.76	-
		25	0	-	18.0	-	16.48	-
		25	12	-	18.0	-	16.56	-
		25	25	-	18.0	-	16.52	-
		50	0	-	18.0	-	16.51	-
	256QAM	1	0	-	18.0	-	16.72	-
		1	24	-	18.0	-	16.71	-
		1	49	-	18.0	-	16.78	-
25		0	-	18.0	-	16.44	-	
25		12	-	18.0	-	16.53	-	
25		25	-	18.0	-	16.50	-	
50		0	-	18.0	-	16.52	-	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
14						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	23305	23330	23355
						Freq(MHz)		
						790.5	793	795.5
5	QPSK	1	0	-	18.0	16.42	16.29	16.23
		1	12	-	18.0	16.43	16.30	16.34
		1	24	-	18.0	16.35	16.31	16.31
		12	0	-	18.0	16.50	16.45	16.44
		12	6	-	18.0	16.57	16.53	16.47
		12	13	-	18.0	16.49	16.46	16.46
		25	0	-	18.0	16.42	16.28	16.31
	16QAM	1	0	-	18.0	16.87	16.72	16.66
		1	12	-	18.0	16.88	16.70	16.69
		1	24	-	18.0	16.84	16.70	16.74
		12	0	-	18.0	16.62	16.51	16.51
		12	6	-	18.0	16.63	16.58	16.52
		12	13	-	18.0	16.56	16.55	16.51
		25	0	-	18.0	16.57	16.49	16.46
	64QAM	1	0	-	18.0	16.91	16.70	16.65
		1	12	-	18.0	16.85	16.73	16.73
		1	24	-	18.0	16.83	16.69	16.70
		12	0	-	18.0	16.45	16.53	16.49
		12	6	-	18.0	16.46	16.58	16.54
		12	13	-	18.0	16.44	16.56	16.52
		25	0	-	18.0	16.56	16.54	16.49
	256QAM	1	0	-	18.0	16.65	16.74	16.68
		1	12	-	18.0	16.64	16.77	16.77
		1	24	-	18.0	16.60	16.73	16.74
12		0	-	18.0	16.61	16.48	16.44	
12		6	-	18.0	16.64	16.52	16.48	
12		13	-	18.0	16.55	16.49	16.46	
25		0	-	18.0	16.52	16.51	16.42	

*MPR is disabled when power reduction is enabled.

11.3.15 LTE band 17 DSI = 0, Full power

Band						Meas. Pwr Avg (dBm)		
17						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23790	-
						Freq(MHz)		
						-	710	-
10	QPSK	1	0	0	24.0	-	22.61	-
		1	24	0	24.0	-	22.72	-
		1	49	0	24.0	-	22.85	-
		25	0	1	23.0	-	21.75	-
		25	12	1	23.0	-	21.82	-
		25	25	1	23.0	-	21.88	-
		50	0	1	23.0	-	21.80	-
	16QAM	1	0	1	23.0	-	21.92	-
		1	24	1	23.0	-	22.10	-
		1	49	1	23.0	-	22.19	-
		25	0	2	22.0	-	20.78	-
		25	12	2	22.0	-	20.91	-
		25	25	2	22.0	-	20.92	-
		50	0	2	22.0	-	20.84	-
	64QAM	1	0	2	22.0	-	20.95	-
		1	24	2	22.0	-	21.13	-
		1	49	2	22.0	-	21.26	-
		25	0	3	21.0	-	19.78	-
		25	12	3	21.0	-	19.89	-
		25	25	3	21.0	-	19.94	-
		50	0	3	21.0	-	19.84	-
256QAM	1	0	5	19.0	-	17.86	-	
	1	24	5	19.0	-	18.14	-	
	1	49	5	19.0	-	18.20	-	
	25	0	5	19.0	-	17.77	-	
	25	12	5	19.0	-	17.87	-	
	25	25	5	19.0	-	17.89	-	
	50	0	5	19.0	-	17.82	-	

Band						Meas. Pwr Avg (dBm)		
17						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23790	-
						Freq(MHz)		
						-	710	-
5	QPSK	1	0	0	24.0	-	22.71	-
		1	12	0	24.0	-	22.85	-
		1	24	0	24.0	-	22.90	-
		12	0	1	23.0	-	21.85	-
		12	6	1	23.0	-	21.87	-
		12	13	1	23.0	-	21.93	-
		25	0	1	23.0	-	21.87	-
	16QAM	1	0	1	23.0	-	22.19	-
		1	12	1	23.0	-	22.25	-
		1	24	1	23.0	-	22.40	-
		12	0	2	22.0	-	20.96	-
		12	6	2	22.0	-	21.02	-
		12	13	2	22.0	-	20.99	-
		25	0	2	22.0	-	20.95	-
	64QAM	1	0	2	22.0	-	21.30	-
		1	12	2	22.0	-	21.36	-
		1	24	2	22.0	-	21.43	-
		12	0	3	21.0	-	19.85	-
		12	6	3	21.0	-	19.88	-
		12	13	3	21.0	-	19.91	-
		25	0	3	21.0	-	19.94	-
256QAM	1	0	5	19.0	-	17.99	-	
	1	12	5	19.0	-	18.02	-	
	1	24	5	19.0	-	18.12	-	
	12	0	5	19.0	-	17.97	-	
	12	6	5	19.0	-	18.01	-	
	12	13	5	19.0	-	18.05	-	
	25	0	5	19.0	-	17.90	-	

11.3.16 LTE band 17 DSI = 1, Reduction Power

Band						Meas. Pwr Avg (dBm)		
17						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23790	-
						Freq(MHz)		
						-	710	-
10	QPSK	1	0	-	18.8	-	17.47	-
		1	24	-	18.8	-	17.59	-
		1	49	-	18.8	-	17.71	-
		25	0	-	18.8	-	17.53	-
		25	12	-	18.8	-	17.67	-
		25	25	-	18.8	-	17.69	-
		50	0	-	18.8	-	17.67	-
	16QAM	1	0	-	18.8	-	17.79	-
		1	24	-	18.8	-	17.91	-
		1	49	-	18.8	-	18.01	-
		25	0	-	18.8	-	17.58	-
		25	12	-	18.8	-	17.66	-
		25	25	-	18.8	-	17.74	-
		50	0	-	18.8	-	17.61	-
	64QAM	1	0	-	18.8	-	17.96	-
		1	24	-	18.8	-	18.01	-
		1	49	-	18.8	-	18.19	-
		25	0	-	18.8	-	17.60	-
		25	12	-	18.8	-	17.70	-
		25	25	-	18.8	-	17.77	-
		50	0	-	18.8	-	17.68	-
	256QAM	1	0	-	18.8	-	17.68	-
		1	24	-	18.8	-	17.88	-
		1	49	-	18.8	-	18.11	-
25		0	-	18.8	-	17.60	-	
25		12	-	18.8	-	17.70	-	
25		25	-	18.8	-	17.79	-	
50		0	-	18.8	-	17.67	-	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
17						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	23790	-
						Freq(MHz)		
						-	710	-
5	QPSK	1	0	-	18.8	-	17.49	-
		1	12	-	18.8	-	17.62	-
		1	24	-	18.8	-	17.72	-
		12	0	-	18.8	-	17.66	-
		12	6	-	18.8	-	17.70	-
		12	13	-	18.8	-	17.72	-
		25	0	-	18.8	-	17.64	-
	16QAM	1	0	-	18.8	-	17.96	-
		1	12	-	18.8	-	18.01	-
		1	24	-	18.8	-	18.09	-
		12	0	-	18.8	-	17.70	-
		12	6	-	18.8	-	17.72	-
		12	13	-	18.8	-	17.76	-
		25	0	-	18.8	-	17.75	-
	64QAM	1	0	-	18.8	-	17.97	-
		1	12	-	18.8	-	18.06	-
		1	24	-	18.8	-	18.13	-
		12	0	-	18.8	-	17.57	-
		12	6	-	18.8	-	17.66	-
		12	13	-	18.8	-	17.67	-
		25	0	-	18.8	-	17.71	-
	256QAM	1	0	-	18.8	-	17.77	-
		1	12	-	18.8	-	17.85	-
		1	24	-	18.8	-	17.91	-
12		0	-	18.8	-	17.74	-	
12		6	-	18.8	-	17.79	-	
12		13	-	18.8	-	17.80	-	
25		0	-	18.8	-	17.73	-	

*MPR is disabled when power reduction is enabled.

11.3.17 LTE band 25 DSI = 0, Full power

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26140	26140	26590
						Freq(MHz)		
						1860	1882.5	1905
20	QPSK	1	0	0	24.0	22.78	22.70	22.68
		1	49	0	24.0	22.76	22.69	22.61
		1	99	0	24.0	22.71	22.68	22.58
		50	0	1	23.0	21.89	21.75	21.69
		50	24	1	23.0	21.90	21.85	21.68
		50	50	1	23.0	21.86	21.79	21.72
		100	0	1	23.0	21.87	21.83	21.68
	16QAM	1	0	1	23.0	22.22	22.11	22.09
		1	49	1	23.0	22.18	22.11	22.04
		1	99	1	23.0	22.17	22.10	22.03
		50	0	2	22.0	20.91	20.77	20.72
		50	24	2	22.0	20.94	20.87	20.72
		50	50	2	22.0	20.89	20.82	20.75
		100	0	2	22.0	20.88	20.84	20.69
	64QAM	1	0	2	22.0	21.03	20.98	20.90
		1	49	2	22.0	21.02	20.93	20.91
		1	99	2	22.0	21.06	20.93	20.86
		50	0	3	21.0	19.97	19.78	19.72
		50	24	3	21.0	19.95	19.88	19.77
		50	50	3	21.0	19.92	19.84	19.78
		100	0	3	21.0	19.88	19.80	19.68
	256QAM	1	0	5	19.0	17.88	17.78	17.70
		1	49	5	19.0	17.99	17.77	17.74
		1	99	5	19.0	18.03	17.77	17.70
50		0	5	19.0	17.93	17.78	17.70	
50		24	5	19.0	17.92	17.87	17.74	
50		50	5	19.0	17.84	17.80	17.76	
100		0	5	19.0	17.88	17.82	17.73	

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26115	26365	26615
						Freq(MHz)		
						1857.5	1882.5	1907.5
15	QPSK	1	0	0	24.0	22.64	22.59	22.56
		1	37	0	24.0	22.62	22.54	22.54
		1	74	0	24.0	22.63	22.56	22.51
		36	0	1	23.0	21.71	21.60	21.59
		36	19	1	23.0	21.76	21.68	21.63
		36	39	1	23.0	21.73	21.61	21.58
		75	0	1	23.0	21.72	21.62	21.59
	16QAM	1	0	1	23.0	22.06	21.86	21.81
		1	37	1	23.0	21.97	21.75	21.78
		1	74	1	23.0	21.96	21.85	21.79
		36	0	2	22.0	20.70	20.63	20.60
		36	19	2	22.0	20.77	20.70	20.67
		36	39	2	22.0	20.74	20.67	20.62
		75	0	2	22.0	20.74	20.64	20.63
	64QAM	1	0	2	22.0	20.89	20.88	20.86
		1	37	2	22.0	21.04	20.99	20.87
		1	74	2	22.0	21.02	20.99	20.83
		36	0	3	21.0	19.74	19.62	19.64
		36	19	3	21.0	19.80	19.69	19.67
		36	39	3	21.0	19.75	19.63	19.63
		75	0	3	21.0	19.77	19.67	19.64
	256QAM	1	0	5	19.0	17.94	17.74	17.69
		1	37	5	19.0	17.86	17.81	17.77
		1	74	5	19.0	17.90	17.77	17.74
36		0	5	19.0	17.72	17.63	17.57	
36		19	5	19.0	17.78	17.68	17.67	
36		39	5	19.0	17.73	17.65	17.61	
75		0	5	19.0	17.76	17.68	17.65	

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26090	26365	26640
						Freq(MHz)		
						1855	1882.5	1910
10	QPSK	1	0	0	24.0	22.70	22.50	22.44
		1	24	0	24.0	22.61	22.49	22.43
		1	49	0	24.0	22.66	22.54	22.46
		25	0	1	23.0	21.77	21.57	21.51
		25	12	1	23.0	21.82	21.65	21.55
		25	25	1	23.0	21.83	21.64	21.59
		50	0	1	23.0	21.82	21.56	21.52
	16QAM	1	0	1	23.0	22.04	21.91	21.76
		1	24	1	23.0	22.04	21.87	21.83
		1	49	1	23.0	22.01	21.81	21.77
		25	0	2	22.0	20.83	20.55	20.56
		25	12	2	22.0	20.85	20.73	20.56
		25	25	2	22.0	20.86	20.69	20.61
		50	0	2	22.0	20.82	20.67	20.55
	64QAM	1	0	2	22.0	20.98	20.77	20.73
		1	24	2	22.0	20.98	20.89	20.82
		1	49	2	22.0	21.04	20.93	20.80
		25	0	3	21.0	19.81	19.59	19.53
		25	12	3	21.0	19.85	19.71	19.57
		25	25	3	21.0	19.81	19.69	19.64
		50	0	3	21.0	19.84	19.70	19.54
256QAM	1	0	5	19.0	18.08	17.74	17.76	
	1	24	5	19.0	17.95	17.82	17.79	
	1	49	5	19.0	17.95	17.85	17.82	
	25	0	5	19.0	17.82	17.60	17.51	
	25	12	5	19.0	17.82	17.68	17.55	
	25	25	5	19.0	17.80	17.66	17.64	
	50	0	5	19.0	17.79	17.68	17.54	

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26065	26365	26665
						Freq(MHz)		
						1852.5	1882.5	1912.5
5	QPSK	1	0	0	24.0	22.69	22.53	22.40
		1	12	0	24.0	22.74	22.51	22.41
		1	24	0	24.0	22.71	22.52	22.42
		12	0	1	23.0	21.77	21.68	21.54
		12	6	1	23.0	21.81	21.67	21.60
		12	13	1	23.0	21.82	21.74	21.61
		25	0	1	23.0	21.78	21.69	21.59
	16QAM	1	0	1	23.0	22.20	21.97	21.85
		1	12	1	23.0	22.19	22.01	21.86
		1	24	1	23.0	22.21	21.96	21.83
		12	0	2	22.0	20.83	20.67	20.61
		12	6	2	22.0	20.92	20.72	20.67
		12	13	2	22.0	20.91	20.77	20.68
	64QAM	25	0	2	22.0	20.85	20.69	20.61
		1	0	2	22.0	21.26	20.90	20.84
		1	12	2	22.0	21.25	20.89	20.81
		1	24	2	22.0	21.28	20.92	20.70
		12	0	3	21.0	19.70	19.70	19.61
		12	6	3	21.0	19.76	19.77	19.68
		12	13	3	21.0	19.77	19.78	19.69
	256QAM	25	0	3	21.0	19.87	19.75	19.66
1		0	5	19.0	17.87	18.12	18.11	
1		12	5	19.0	17.88	18.14	18.07	
1		24	5	19.0	17.90	18.15	18.07	
12		0	5	19.0	17.83	17.61	17.56	
12		6	5	19.0	17.90	17.69	17.65	
12		13	5	19.0	17.88	17.70	17.67	
25	0	5	19.0	17.83	17.68	17.65		

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26055	26365	26675
						Freq(MHz)		
						1851.5	1882.5	1913.5
3	QPSK	1	0	0	24.0	22.59	22.49	22.40
		1	7	0	24.0	22.72	22.69	22.52
		1	14	0	24.0	22.71	22.59	22.48
		8	0	1	23.0	21.80	21.67	21.54
		8	3	1	23.0	21.84	21.72	21.64
		8	7	1	23.0	21.82	21.71	21.63
		15	0	1	23.0	21.81	21.66	21.59
	16QAM	1	0	1	23.0	21.84	21.70	21.65
		1	7	1	23.0	21.93	21.79	21.71
		1	14	1	23.0	21.93	21.81	21.73
		8	0	2	22.0	20.69	20.58	20.49
		8	3	2	22.0	20.81	20.68	20.58
		8	7	2	22.0	20.81	20.67	20.57
	64QAM	15	0	2	22.0	20.80	20.69	20.60
		1	0	2	22.0	21.12	20.96	20.95
		1	7	2	22.0	21.11	20.96	20.94
		1	14	2	22.0	21.20	21.07	20.80
		8	0	3	21.0	19.86	19.77	19.66
		8	3	3	21.0	19.95	19.83	19.73
	256QAM	8	7	3	21.0	19.96	19.83	19.76
		15	0	3	21.0	19.86	19.76	19.68
1		0	5	19.0	18.03	17.86	17.83	
1		7	5	19.0	18.01	17.93	17.85	
1		14	5	19.0	18.13	18.01	17.91	
8		0	5	19.0	17.85	17.75	17.68	
8		3	5	19.0	17.93	17.82	17.76	
8		7	5	19.0	17.95	17.83	17.77	
15	0	5	19.0	17.80	17.67	17.62		

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26047	26365	26683
						Freq(MHz)		
						1850.7	1882.5	1914.3
1.4	QPSK	1	0	0	24.0	22.58	22.39	22.35
		1	2	0	24.0	22.66	22.53	22.42
		1	5	0	24.0	22.60	22.48	22.38
		3	0	0	24.0	22.63	22.48	22.38
		3	1	0	24.0	22.68	22.53	22.42
		3	3	0	24.0	22.64	22.56	22.41
		6	0	1	23.0	21.73	21.59	21.50
	16QAM	1	0	1	23.0	21.82	21.68	21.58
		1	2	1	23.0	21.99	21.85	21.77
		1	5	1	23.0	21.90	21.75	21.64
		3	0	1	23.0	21.89	21.76	21.66
		3	1	1	23.0	21.99	21.83	21.74
		3	3	1	23.0	21.93	21.77	21.72
		6	0	2	22.0	20.77	20.64	20.52
	64QAM	1	0	2	22.0	21.10	20.95	20.87
		1	2	2	22.0	21.27	20.81	20.94
		1	5	2	22.0	21.18	20.83	20.71
		3	0	2	22.0	20.84	20.70	20.59
		3	1	2	22.0	20.87	20.78	20.60
		3	3	2	22.0	20.83	20.74	20.47
		6	0	3	21.0	19.92	19.71	19.63
	256QAM	1	0	5	19.0	17.96	17.73	17.73
		1	2	5	19.0	18.04	17.91	17.80
		1	5	5	19.0	18.02	17.88	17.79
3		0	5	19.0	17.80	17.68	17.58	
3		1	5	19.0	17.88	17.74	17.63	
3		3	5	19.0	17.88	17.76	17.61	
6		0	5	19.0	17.83	17.65	17.60	

11.3.18 LTE band 25 DSI = 1, Reduction Power

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26140	26365	26590
						Freq(MHz)		
						1860	1882.5	1905
20	QPSK	1	0	-	17.5	16.33	16.26	16.21
		1	49	-	17.5	16.28	16.25	16.18
		1	99	-	17.5	16.25	16.24	16.11
		50	0	-	17.5	16.42	16.25	16.20
		50	24	-	17.5	16.40	16.29	16.18
		50	50	-	17.5	16.41	16.28	16.27
		100	0	-	17.5	16.32	16.19	16.18
	16QAM	1	0	-	17.5	16.76	16.57	16.57
		1	49	-	17.5	16.71	16.63	16.57
		1	99	-	17.5	16.70	16.57	16.53
		50	0	-	17.5	16.48	16.27	16.26
		50	24	-	17.5	16.46	16.34	16.26
		50	50	-	17.5	16.43	16.34	16.26
		100	0	-	17.5	16.40	16.29	16.21
	64QAM	1	0	-	17.5	16.51	16.41	16.42
		1	49	-	17.5	16.51	16.39	16.40
		1	99	-	17.5	16.53	16.43	16.37
		50	0	-	17.5	16.45	16.28	16.27
		50	24	-	17.5	16.45	16.34	16.24
		50	50	-	17.5	16.42	16.30	16.31
		100	0	-	17.5	16.38	16.26	16.18
	256QAM	1	0	-	17.5	16.38	16.23	16.22
		1	49	-	17.5	16.36	16.25	16.25
		1	99	-	17.5	16.37	16.22	16.17
50		0	-	17.5	16.47	16.26	16.25	
50		24	-	17.5	16.47	16.32	16.26	
50		50	-	17.5	16.40	16.31	16.27	
100		0	-	17.5	16.42	16.30	16.24	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26115	26365	26615
						Freq(MHz)		
						1857.5	1882.5	1907.5
15	QPSK	1	0	-	17.5	16.15	16.03	16.06
		1	37	-	17.5	16.11	15.99	16.03
		1	74	-	17.5	16.09	16.07	16.01
		36	0	-	17.5	16.21	16.14	16.07
		36	19	-	17.5	16.28	16.17	16.12
		36	39	-	17.5	16.22	16.13	16.08
		75	0	-	17.5	16.15	16.07	16.01
	16QAM	1	0	-	17.5	16.52	16.44	16.29
		1	37	-	17.5	16.52	16.36	16.26
		1	74	-	17.5	16.46	16.35	16.22
		36	0	-	17.5	16.21	16.11	16.09
		36	19	-	17.5	16.28	16.19	16.15
		36	39	-	17.5	16.21	16.17	16.11
		75	0	-	17.5	16.27	16.19	16.12
	64QAM	1	0	-	17.5	16.35	16.31	16.41
		1	37	-	17.5	16.44	16.38	16.30
		1	74	-	17.5	16.41	16.35	16.31
		36	0	-	17.5	16.21	16.10	16.07
		36	19	-	17.5	16.26	16.19	16.15
		36	39	-	17.5	16.21	16.18	16.06
		75	0	-	17.5	16.26	16.15	16.14
	256QAM	1	0	-	17.5	16.43	16.31	16.20
		1	37	-	17.5	16.44	16.33	16.25
		1	74	-	17.5	16.45	16.34	16.24
36		0	-	17.5	16.18	16.12	16.10	
36		19	-	17.5	16.30	16.22	16.14	
36		39	-	17.5	16.25	16.12	16.07	
75		0	-	17.5	16.28	16.19	16.13	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26090	26365	26640
						Freq(MHz)		
						1855	1882.5	1910
10	QPSK	1	0	-	17.5	16.19	16.06	15.84
		1	24	-	17.5	16.11	16.03	15.83
		1	49	-	17.5	16.14	16.08	15.96
		25	0	-	17.5	16.27	16.10	16.00
		25	12	-	17.5	16.29	16.16	16.03
		25	25	-	17.5	16.28	16.14	16.08
		50	0	-	17.5	16.19	16.08	15.92
	16QAM	1	0	-	17.5	16.57	16.44	16.22
		1	24	-	17.5	16.43	16.28	16.25
		1	49	-	17.5	16.56	16.32	16.24
		25	0	-	17.5	16.30	16.05	16.00
		25	12	-	17.5	16.32	16.20	16.07
		25	25	-	17.5	16.29	16.18	16.12
		50	0	-	17.5	16.28	16.17	16.03
	64QAM	1	0	-	17.5	16.61	16.22	16.27
		1	24	-	17.5	16.49	16.30	16.22
		1	49	-	17.5	16.42	16.24	16.26
		25	0	-	17.5	16.29	16.10	16.07
		25	12	-	17.5	16.33	16.22	16.07
		25	25	-	17.5	16.32	16.21	16.13
		50	0	-	17.5	16.32	16.19	16.05
	256QAM	1	0	-	17.5	16.54	16.28	16.23
		1	24	-	17.5	16.45	16.28	16.24
		1	49	-	17.5	16.45	16.29	16.19
25		0	-	17.5	16.32	16.06	16.01	
25		12	-	17.5	16.30	16.18	16.06	
25		25	-	17.5	16.26	16.18	16.10	
50		0	-	17.5	16.26	16.15	16.00	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26065	26365	26665
						Freq(MHz)		
						1852.5	1882.5	1912.5
5	QPSK	1	0	-	17.5	16.25	16.10	16.04
		1	12	-	17.5	16.24	16.11	16.02
		1	24	-	17.5	16.21	16.12	16.06
		12	0	-	17.5	16.28	16.17	16.07
		12	6	-	17.5	16.34	16.20	16.14
		12	13	-	17.5	16.38	16.26	16.12
		25	0	-	17.5	16.22	16.08	16.02
	16QAM	1	0	-	17.5	16.62	16.41	16.24
		1	12	-	17.5	16.65	16.43	16.31
		1	24	-	17.5	16.69	16.40	16.33
		12	0	-	17.5	16.33	16.19	16.11
		12	6	-	17.5	16.38	16.28	16.16
		12	13	-	17.5	16.42	16.30	16.20
		25	0	-	17.5	16.35	16.20	16.08
	64QAM	1	0	-	17.5	16.75	16.41	16.33
		1	12	-	17.5	16.65	16.40	16.32
		1	24	-	17.5	16.67	16.44	16.31
		12	0	-	17.5	16.22	16.21	16.14
		12	6	-	17.5	16.30	16.30	16.22
		12	13	-	17.5	16.31	16.33	16.25
		25	0	-	17.5	16.38	16.25	16.19
	256QAM	1	0	-	17.5	16.37	16.59	16.49
		1	12	-	17.5	16.36	16.56	16.47
		1	24	-	17.5	16.41	16.57	16.55
12		0	-	17.5	16.34	16.15	16.07	
12		6	-	17.5	16.41	16.23	16.16	
12		13	-	17.5	16.43	16.24	16.20	
25		0	-	17.5	16.30	16.18	16.15	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26055	26365	26675
						Freq(MHz)		
						1851.5	1882.5	1913.5
3	QPSK	1	0	-	17.5	16.18	15.96	15.87
		1	7	-	17.5	16.20	16.14	16.02
		1	14	-	17.5	16.30	16.08	15.99
		8	0	-	17.5	16.24	16.14	16.06
		8	3	-	17.5	16.35	16.18	16.16
		8	7	-	17.5	16.36	16.19	16.15
		15	0	-	17.5	16.21	16.13	16.00
	16QAM	1	0	-	17.5	16.48	16.16	16.17
		1	7	-	17.5	16.52	16.22	16.19
		1	14	-	17.5	16.61	16.26	16.23
		8	0	-	17.5	16.35	16.04	15.99
		8	3	-	17.5	16.41	16.13	16.06
		8	7	-	17.5	16.43	16.12	16.08
		15	0	-	17.5	16.35	16.13	16.08
	64QAM	1	0	-	17.5	16.66	16.41	16.33
		1	7	-	17.5	16.70	16.46	16.40
		1	14	-	17.5	16.78	16.54	16.49
		8	0	-	17.5	16.33	16.25	16.15
		8	3	-	17.5	16.41	16.32	16.26
		8	7	-	17.5	16.41	16.30	16.24
		15	0	-	17.5	16.34	16.24	16.18
	256QAM	1	0	-	17.5	16.56	16.37	16.25
		1	7	-	17.5	16.59	16.37	16.34
		1	14	-	17.5	16.70	16.46	16.39
8		0	-	17.5	16.30	16.20	16.17	
8		3	-	17.5	16.41	16.29	16.23	
8		7	-	17.5	16.35	16.30	16.29	
15		0	-	17.5	16.28	16.13	16.07	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
25						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26047	26365	26683
						Freq(MHz)		
						1850.7	1882.5	1914.3
1.4	QPSK	1	0	-	17.5	16.13	16.02	15.84
		1	2	-	17.5	16.22	16.13	15.94
		1	5	-	17.5	16.21	16.04	15.92
		3	0	-	17.5	16.15	16.01	15.87
		3	1	-	17.5	16.22	16.08	15.94
		3	3	-	17.5	16.20	16.00	15.91
		6	0	-	17.5	16.16	16.08	15.90
	16QAM	1	0	-	17.5	16.20	16.26	16.07
		1	2	-	17.5	16.34	16.37	16.26
		1	5	-	17.5	16.28	16.35	16.14
		3	0	-	17.5	16.14	16.23	16.16
		3	1	-	17.5	16.21	16.28	16.22
		3	3	-	17.5	16.15	16.24	16.23
		6	0	-	17.5	16.33	16.13	15.99
	64QAM	1	0	-	17.5	16.59	16.32	16.33
		1	2	-	17.5	16.63	16.44	16.38
		1	5	-	17.5	16.66	16.35	16.42
		3	0	-	17.5	16.39	16.06	16.07
		3	1	-	17.5	16.45	16.13	16.11
		3	3	-	17.5	16.46	16.11	16.10
		6	0	-	17.5	16.27	16.04	16.15
	256QAM	1	0	-	17.5	16.05	15.96	16.20
		1	2	-	17.5	16.15	16.05	16.27
		1	5	-	17.5	16.13	15.99	16.28
		3	0	-	17.5	16.10	15.95	16.08
		3	1	-	17.5	16.15	16.05	16.09
		3	3	-	17.5	16.12	16.00	16.10
6		0	-	17.5	16.14	16.00	16.09	

*MPR is disabled when power reduction is enabled.

11.3.19 LTE band 26 DSI = 0, Full power

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	26865	-
						Freq(MHz)		
						-	831.5	-
15	QPSK	1	0	0	24.0	-	22.75	-
		1	37	0	24.0	-	22.63	-
		1	74	0	24.0	-	22.56	-
		36	0	1	23.0	-	21.86	-
		36	19	1	23.0	-	21.80	-
		36	39	1	23.0	-	21.82	-
		75	0	1	23.0	-	21.79	-
	16QAM	1	0	1	23.0	-	22.04	-
		1	37	1	23.0	-	22.03	-
		1	74	1	23.0	-	21.96	-
		36	0	2	22.0	-	20.90	-
		36	19	2	22.0	-	20.85	-
		36	39	2	22.0	-	20.85	-
		75	0	2	22.0	-	20.81	-
	64QAM	1	0	2	22.0	-	21.26	-
		1	37	2	22.0	-	21.16	-
		1	74	2	22.0	-	21.04	-
		36	0	3	21.0	-	19.89	-
		36	19	3	21.0	-	19.84	-
		36	39	3	21.0	-	19.84	-
		75	0	3	21.0	-	19.83	-
256QAM	1	0	5	19.0	-	18.18	-	
	1	37	5	19.0	-	18.11	-	
	1	74	5	19.0	-	18.04	-	
	36	0	5	19.0	-	17.83	-	
	36	19	5	19.0	-	17.76	-	
	36	39	5	19.0	-	17.79	-	
	75	0	5	19.0	-	17.83	-	

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26740	26865	26990
						Freq(MHz)		
						819	831.5	844
10	QPSK	1	0	0	24.0	22.84	22.83	22.54
		1	24	0	24.0	22.74	22.79	22.39
		1	49	0	24.0	22.75	22.70	22.35
		25	0	1	23.0	21.98	21.85	21.66
		25	12	1	23.0	22.04	21.84	21.64
		25	25	1	23.0	21.94	21.81	21.55
		50	0	1	23.0	22.00	21.80	21.63
	16QAM	1	0	1	23.0	22.29	22.15	21.83
		1	24	1	23.0	22.22	22.08	21.73
		1	49	1	23.0	22.13	22.02	21.64
		25	0	2	22.0	20.94	20.89	20.72
		25	12	2	22.0	21.00	20.87	20.71
		25	25	2	22.0	20.89	20.84	20.60
		50	0	2	22.0	20.97	20.80	20.68
	64QAM	1	0	2	22.0	21.26	21.33	21.16
		1	24	2	22.0	21.20	21.32	21.07
		1	49	2	22.0	21.17	21.23	20.98
		25	0	3	21.0	20.02	19.92	19.74
		25	12	3	21.0	20.07	19.89	19.71
		25	25	3	21.0	19.97	19.88	19.62
		50	0	3	21.0	19.97	19.82	19.68
	256QAM	1	0	5	19.0	18.11	18.15	17.92
		1	24	5	19.0	18.08	18.22	17.76
		1	49	5	19.0	18.08	18.13	17.75
25		0	5	19.0	18.02	17.88	17.70	
25		12	5	19.0	18.10	17.84	17.68	
25		25	5	19.0	17.94	17.82	17.56	
50		0	5	19.0	17.95	17.80	17.67	

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26715	26865	27015
						Freq(MHz)		
						816.5	831.5	846.5
5	QPSK	1	0	0	24.0	22.89	22.70	22.50
		1	12	0	24.0	22.92	22.72	22.39
		1	24	0	24.0	22.84	22.69	22.35
		12	0	1	23.0	22.01	21.87	21.64
		12	6	1	23.0	22.07	21.90	21.62
		12	13	1	23.0	21.99	21.88	21.57
		25	0	1	23.0	22.00	21.83	21.60
	16QAM	1	0	1	23.0	22.39	22.09	21.88
		1	12	1	23.0	22.33	22.12	21.87
		1	24	1	23.0	22.32	22.10	21.80
		12	0	2	22.0	21.06	20.98	20.71
		12	6	2	22.0	21.08	20.93	20.69
		12	13	2	22.0	21.03	20.93	20.59
		25	0	2	22.0	21.08	20.85	20.57
	64QAM	1	0	2	22.0	21.44	21.07	20.84
		1	12	2	22.0	21.44	21.09	20.76
		1	24	2	22.0	21.36	21.07	20.69
		12	0	3	21.0	19.92	19.99	19.71
		12	6	3	21.0	20.01	19.97	19.69
		12	13	3	21.0	19.94	19.93	19.63
		25	0	3	21.0	20.07	19.92	19.67
	256QAM	1	0	5	19.0	18.15	18.38	18.14
		1	12	5	19.0	18.15	18.35	18.03
		1	24	5	19.0	18.07	18.29	17.96
12		0	5	19.0	18.11	17.93	17.68	
12		6	5	19.0	18.16	17.89	17.67	
12		13	5	19.0	18.08	17.90	17.60	
25		0	5	19.0	18.04	17.85	17.65	

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26705	26865	27025
						Freq(MHz)		
						815.5	831.5	847.5
3	QPSK	1	0	0	24.0	22.91	22.74	22.46
		1	7	0	24.0	22.90	22.85	22.45
		1	14	0	24.0	22.89	22.73	22.35
		8	0	1	23.0	22.04	21.90	21.62
		8	3	1	23.0	22.08	21.91	21.59
		8	7	1	23.0	22.01	21.89	21.54
		15	0	1	23.0	22.04	21.82	21.56
	16QAM	1	0	1	23.0	22.23	21.98	21.67
		1	7	1	23.0	22.26	22.01	21.67
		1	14	1	23.0	22.19	21.92	21.62
		8	0	2	22.0	21.13	20.83	20.55
		8	3	2	22.0	21.17	20.80	20.56
		8	7	2	22.0	21.08	20.83	20.47
		15	0	2	22.0	21.06	20.82	20.56
	64QAM	1	0	2	22.0	21.40	21.20	21.00
		1	7	2	22.0	21.43	21.23	20.86
		1	14	2	22.0	21.34	21.20	20.92
		8	0	3	21.0	20.12	20.00	19.66
		8	3	3	21.0	20.09	20.01	19.68
		8	7	3	21.0	20.07	20.00	19.63
		15	0	3	21.0	20.08	19.88	19.65
	256QAM	1	0	5	19.0	18.33	18.06	17.86
		1	7	5	19.0	18.31	18.04	17.70
		1	14	5	19.0	18.36	17.98	17.75
8		0	5	19.0	18.11	17.96	17.71	
8		3	5	19.0	18.12	17.98	17.70	
8		7	5	19.0	18.04	17.97	17.64	
15		0	5	19.0	18.03	17.88	17.53	

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26697	26865	27033
						Freq(MHz)		
						814.7	831.5	848.3
1.4	QPSK	1	0	0	24.0	22.84	22.60	22.39
		1	2	0	24.0	22.92	22.74	22.44
		1	5	0	24.0	22.86	22.64	22.35
		3	0	0	24.0	22.87	22.69	22.40
		3	1	0	24.0	22.92	22.76	22.39
		3	3	0	24.0	22.86	22.71	22.36
		6	0	1	23.0	21.95	21.76	21.43
	16QAM	1	0	1	23.0	21.93	21.91	21.52
		1	2	1	23.0	22.06	22.08	21.55
		1	5	1	23.0	21.92	21.88	21.41
		3	0	1	23.0	21.94	21.96	21.40
		3	1	1	23.0	21.96	22.04	21.43
		3	3	1	23.0	21.88	21.96	21.36
		6	0	2	22.0	21.04	20.78	20.54
	64QAM	1	0	2	22.0	21.29	21.12	20.88
		1	2	2	22.0	21.45	21.27	20.92
		1	5	2	22.0	21.31	21.13	20.81
		3	0	2	22.0	21.14	20.82	20.63
		3	1	2	22.0	21.17	20.91	20.65
		3	3	2	22.0	21.13	20.88	20.58
		6	0	3	21.0	19.95	19.90	19.48
	256QAM	1	0	5	19.0	17.81	18.00	17.32
		1	2	5	19.0	17.90	18.11	17.37
		1	5	5	19.0	17.81	18.02	17.27
3		0	5	19.0	17.89	17.84	17.39	
3		1	5	19.0	17.94	17.95	17.41	
3		3	5	19.0	18.06	17.89	17.35	
6		0	5	19.0	18.01	17.84	17.39	

11.3.20 LTE band 26 DSI = 1, Reduction Power

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	26865	-
						Freq(MHz)		
						-	831.5	-
15	QPSK	1	0	-	17.3	-	16.13	-
		1	37	-	17.3	-	16.00	-
		1	74	-	17.3	-	15.89	-
		36	0	-	17.3	-	16.23	-
		36	19	-	17.3	-	16.15	-
		36	39	-	17.3	-	16.16	-
		75	0	-	17.3	-	16.12	-
	16QAM	1	0	-	17.3	-	16.41	-
		1	37	-	17.3	-	16.33	-
		1	74	-	17.3	-	16.26	-
		36	0	-	17.3	-	16.24	-
		36	19	-	17.3	-	16.17	-
		36	39	-	17.3	-	16.16	-
		75	0	-	17.3	-	16.15	-
	64QAM	1	0	-	17.3	-	16.55	-
		1	37	-	17.3	-	16.45	-
		1	74	-	17.3	-	16.31	-
		36	0	-	17.3	-	16.23	-
		36	19	-	17.3	-	16.15	-
		36	39	-	17.3	-	16.17	-
		75	0	-	17.3	-	16.18	-
	256QAM	1	0	-	17.3	-	16.52	-
		1	37	-	17.3	-	16.45	-
		1	74	-	17.3	-	16.36	-
36		0	-	17.3	-	16.17	-	
36		19	-	17.3	-	16.09	-	
36		39	-	17.3	-	16.08	-	
75		0	-	17.3	-	16.15	-	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26740	26865	26990
						Freq(MHz)		
						819	831.5	844
10	QPSK	1	0	-	17.3	16.28	16.17	15.97
		1	24	-	17.3	16.19	16.11	15.85
		1	49	-	17.3	16.13	16.03	15.78
		25	0	-	17.3	16.27	16.16	16.02
		25	12	-	17.3	16.31	16.15	15.97
		25	25	-	17.3	16.22	16.09	15.87
		50	0	-	17.3	16.20	16.13	15.85
	16QAM	1	0	-	17.3	16.57	16.51	16.18
		1	24	-	17.3	16.48	16.45	16.08
		1	49	-	17.3	16.45	16.39	15.98
		25	0	-	17.3	16.28	16.23	16.06
		25	12	-	17.3	16.33	16.20	16.04
		25	25	-	17.3	16.24	16.19	15.91
		50	0	-	17.3	16.29	16.16	16.04
	64QAM	1	0	-	17.3	16.77	16.58	16.40
		1	24	-	17.3	16.66	16.53	16.27
		1	49	-	17.3	16.59	16.44	16.09
		25	0	-	17.3	16.30	16.19	16.05
		25	12	-	17.3	16.36	16.21	16.02
		25	25	-	17.3	16.28	16.17	15.94
		50	0	-	17.3	16.29	16.12	16.00
	256QAM	1	0	-	17.3	16.52	16.45	16.21
		1	24	-	17.3	16.55	16.53	16.09
		1	49	-	17.3	16.54	16.39	16.10
25		0	-	17.3	16.26	16.17	16.02	
25		12	-	17.3	16.32	16.12	15.99	
25		25	-	17.3	16.20	16.13	15.90	
50		0	-	17.3	16.27	16.09	15.96	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26715	26865	27015
						Freq(MHz)		
						816.5	831.5	846.5
5	QPSK	1	0	-	17.3	16.27	16.09	15.89
		1	12	-	17.3	16.25	16.13	15.78
		1	24	-	17.3	16.17	16.06	15.80
		12	0	-	17.3	16.30	16.24	15.95
		12	6	-	17.3	16.37	16.15	15.91
		12	13	-	17.3	16.28	16.22	15.84
		25	0	-	17.3	16.22	16.06	15.79
	16QAM	1	0	-	17.3	16.63	16.57	16.14
		1	12	-	17.3	16.59	16.59	16.01
		1	24	-	17.3	16.62	16.49	16.08
		12	0	-	17.3	16.37	16.32	16.03
		12	6	-	17.3	16.39	16.30	16.01
		12	13	-	17.3	16.35	16.27	15.93
		25	0	-	17.3	16.36	16.22	15.91
	64QAM	1	0	-	17.3	16.76	16.56	16.15
		1	12	-	17.3	16.75	16.56	16.08
		1	24	-	17.3	16.61	16.52	16.03
		12	0	-	17.3	16.24	16.16	16.00
		12	6	-	17.3	16.31	16.17	15.97
		12	13	-	17.3	16.21	16.08	15.92
		25	0	-	17.3	16.33	16.20	15.96
	256QAM	1	0	-	17.3	16.43	16.37	16.31
		1	12	-	17.3	16.42	16.32	16.20
		1	24	-	17.3	16.39	16.25	16.20
12		0	-	17.3	16.40	16.29	15.96	
12		6	-	17.3	16.44	16.29	15.93	
12		13	-	17.3	16.36	16.26	15.85	
25		0	-	17.3	16.36	16.18	15.91	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26705	26865	27025
						Freq(MHz)		
						815.5	831.5	847.5
3	QPSK	1	0	-	17.3	16.26	16.03	15.74
		1	7	-	17.3	16.25	16.15	15.77
		1	14	-	17.3	16.18	16.02	15.66
		8	0	-	17.3	16.37	16.21	15.87
		8	3	-	17.3	16.38	16.20	15.88
		8	7	-	17.3	16.33	16.17	15.81
		15	0	-	17.3	16.24	16.06	15.75
	16QAM	1	0	-	17.3	16.50	16.31	16.02
		1	7	-	17.3	16.53	16.35	15.95
		1	14	-	17.3	16.48	16.33	15.95
		8	0	-	17.3	16.45	16.18	15.88
		8	3	-	17.3	16.45	16.15	15.87
		8	7	-	17.3	16.41	16.17	15.80
		15	0	-	17.3	16.40	16.16	15.88
	64QAM	1	0	-	17.3	16.69	16.46	16.17
		1	7	-	17.3	16.75	16.55	16.17
		1	14	-	17.3	16.68	16.43	16.16
		8	0	-	17.3	16.42	16.30	15.97
		8	3	-	17.3	16.39	16.28	15.96
		8	7	-	17.3	16.35	16.29	15.89
		15	0	-	17.3	16.37	16.20	15.93
	256QAM	1	0	-	17.3	16.61	16.38	16.11
		1	7	-	17.3	16.61	16.36	15.97
		1	14	-	17.3	16.63	16.38	15.97
8		0	-	17.3	16.38	16.31	15.98	
8		3	-	17.3	16.42	16.29	15.98	
8		7	-	17.3	16.33	16.31	15.93	
15		0	-	17.3	16.33	16.12	15.82	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
26						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	26697	26865	27033
						Freq(MHz)		
						814.7	831.5	848.3
1.4	QPSK	1	0	-	17.3	16.14	15.97	15.68
		1	2	-	17.3	16.28	16.09	15.70
		1	5	-	17.3	16.13	15.96	15.59
		3	0	-	17.3	16.24	16.06	15.65
		3	1	-	17.3	16.26	16.12	15.70
		3	3	-	17.3	16.17	16.05	15.67
		6	0	-	17.3	16.17	16.08	15.67
	16QAM	1	0	-	17.3	16.26	16.19	15.90
		1	2	-	17.3	16.40	16.36	16.00
		1	5	-	17.3	16.26	16.17	15.84
		3	0	-	17.3	16.27	16.31	16.01
		3	1	-	17.3	16.27	16.41	16.03
		3	3	-	17.3	16.21	16.31	15.95
		6	0	-	17.3	16.33	16.11	15.77
	64QAM	1	0	-	17.3	16.64	16.43	16.07
		1	2	-	17.3	16.76	16.59	16.11
		1	5	-	17.3	16.63	16.40	16.04
		3	0	-	17.3	16.46	16.13	15.82
		3	1	-	17.3	16.52	16.22	15.87
		3	3	-	17.3	16.48	16.14	15.80
		6	0	-	17.3	16.29	16.21	15.89
	256QAM	1	0	-	17.3	16.06	16.30	15.98
		1	2	-	17.3	16.20	16.43	16.02
		1	5	-	17.3	16.10	16.32	15.94
3		0	-	17.3	16.18	16.15	15.85	
3		1	-	17.3	16.23	16.24	15.88	
3		3	-	17.3	16.15	16.18	15.82	
6		0	-	17.3	16.18	16.14	15.83	

*MPR is disabled when power reduction is enabled.

11.3.21 LTE band 38 DSI = 0, Full power

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	38000	-
						Freq(MHz)		
						-	2595	-
20	QPSK	1	0	0	24.0	-	22.57	-
		1	49	0	24.0	-	22.58	-
		1	99	0	24.0	-	22.55	-
		50	0	1	23.0	-	21.70	-
		50	24	1	23.0	-	21.68	-
		50	50	1	23.0	-	21.76	-
		100	0	1	23.0	-	21.70	-
	16QAM	1	0	1	23.0	-	21.40	-
		1	49	1	23.0	-	21.35	-
		1	99	1	23.0	-	21.43	-
		50	0	2	22.0	-	20.68	-
		50	24	2	22.0	-	20.67	-
		50	50	2	22.0	-	20.74	-
		100	0	2	22.0	-	20.68	-
	64QAM	1	0	2	22.0	-	20.55	-
		1	49	2	22.0	-	20.67	-
		1	99	2	22.0	-	20.65	-
		50	0	3	21.0	-	19.73	-
		50	24	3	21.0	-	19.73	-
		50	50	3	21.0	-	19.78	-
		100	0	3	21.0	-	19.70	-
	256QAM	1	0	5	19.0	-	17.77	-
		1	49	5	19.0	-	17.69	-
		1	99	5	19.0	-	17.77	-
50		0	5	19.0	-	17.69	-	
50		24	5	19.0	-	17.66	-	
50		50	5	19.0	-	17.69	-	
100		0	5	19.0	-	17.72	-	

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	37825	38000	38175
						Freq(MHz)		
						2577.5	2595	2612.5
15	QPSK	1	0	0	24.0	22.81	22.71	22.83
		1	37	0	24.0	22.73	22.70	22.77
		1	74	0	24.0	22.79	22.65	22.80
		36	0	1	23.0	21.83	21.87	21.84
		36	19	1	23.0	21.82	21.80	21.92
		36	39	1	23.0	21.81	21.88	21.91
		75	0	1	23.0	21.76	21.82	21.83
	16QAM	1	0	1	23.0	21.48	21.74	21.47
		1	37	1	23.0	21.53	21.67	21.48
		1	74	1	23.0	21.48	21.65	21.48
		36	0	2	22.0	20.80	20.90	20.83
		36	19	2	22.0	20.85	20.89	20.92
		36	39	2	22.0	20.81	20.96	20.90
		75	0	2	22.0	20.85	20.84	20.86
	64QAM	1	0	2	22.0	20.29	20.58	20.35
		1	37	2	22.0	20.35	20.54	20.32
		1	74	2	22.0	20.32	20.60	20.32
		36	0	3	21.0	19.87	19.91	19.92
		36	19	3	21.0	19.87	19.87	19.96
		36	39	3	21.0	19.88	19.96	19.93
		75	0	3	21.0	19.89	19.87	19.84
	256QAM	1	0	5	19.0	17.35	18.17	17.32
		1	37	5	19.0	17.30	18.07	17.30
		1	74	5	19.0	17.40	18.25	17.40
36		0	5	19.0	17.88	17.87	17.83	
36		19	5	19.0	17.89	17.82	17.94	
36		39	5	19.0	17.90	17.88	17.91	
75		0	5	19.0	17.93	17.87	17.87	

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	37800	38000	38200
						Freq(MHz)		
						2575	2595	2615
10	QPSK	1	0	0	24.0	22.91	22.94	22.88
		1	24	0	24.0	22.81	22.89	22.86
		1	49	0	24.0	22.88	22.88	22.87
		25	0	1	23.0	21.92	21.84	21.84
		25	12	1	23.0	21.94	21.85	21.85
		25	25	1	23.0	21.93	21.91	21.93
		50	0	1	23.0	21.92	21.82	21.88
	16QAM	1	0	1	23.0	21.56	22.18	21.48
		1	24	1	23.0	21.47	22.19	21.52
		1	49	1	23.0	21.60	22.16	21.51
		25	0	2	22.0	20.89	20.94	20.81
		25	12	2	22.0	20.89	20.92	20.78
		25	25	2	22.0	20.90	20.96	20.87
		50	0	2	22.0	20.93	20.89	20.89
	64QAM	1	0	2	22.0	20.53	20.68	20.44
		1	24	2	22.0	20.47	20.85	20.50
		1	49	2	22.0	20.48	20.73	20.44
		25	0	3	21.0	19.99	19.85	19.88
		25	12	3	21.0	19.97	19.90	19.93
		25	25	3	21.0	19.96	19.99	19.93
		50	0	3	21.0	19.93	19.88	19.87
256QAM	1	0	5	19.0	17.47	17.69	17.43	
	1	24	5	19.0	17.30	17.63	17.34	
	1	49	5	19.0	17.46	17.73	17.44	
	25	0	5	19.0	17.92	17.90	17.81	
	25	12	5	19.0	17.96	17.86	17.89	
	25	25	5	19.0	17.92	17.89	17.92	
	50	0	5	19.0	17.96	17.86	17.88	

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	37775	38000	38225
						Freq(MHz)		
						2572.5	2595	2617.5
5	QPSK	1	0	0	24.0	22.79	22.74	22.85
		1	12	0	24.0	22.78	22.80	22.78
		1	24	0	24.0	22.76	22.81	22.82
		12	0	1	23.0	21.91	21.87	21.89
		12	6	1	23.0	21.95	21.85	21.93
		12	13	1	23.0	21.89	21.91	21.91
		25	0	1	23.0	21.91	21.85	21.88
	16QAM	1	0	1	23.0	21.73	21.63	22.14
		1	12	1	23.0	21.68	21.66	22.00
		1	24	1	23.0	21.70	21.67	22.05
		12	0	2	22.0	20.87	20.82	20.94
		12	6	2	22.0	20.94	20.81	20.97
		12	13	2	22.0	20.89	20.87	20.95
	64QAM	25	0	2	22.0	20.89	20.81	20.90
		1	0	2	22.0	20.72	20.59	21.23
		1	12	2	22.0	20.66	20.65	21.26
		1	24	2	22.0	20.65	20.70	21.23
		12	0	3	21.0	20.02	19.96	19.94
		12	6	3	21.0	20.04	19.96	20.01
	256QAM	12	13	3	21.0	20.00	19.94	19.96
		25	0	3	21.0	19.91	19.85	19.82
1		0	5	19.0	17.73	17.63	18.14	
1		12	5	19.0	17.74	17.63	18.12	
1		24	5	19.0	17.68	17.70	18.12	
12		0	5	19.0	17.92	17.82	17.86	
12		6	5	19.0	17.90	17.84	17.84	
12	13	5	19.0	17.90	17.88	17.84		
25	0	5	19.0	17.87	17.81	17.81		

11.3.22 LTE band 38 DSI = 1, Reduction Power

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	-	38000	-
						Freq(MHz)		
						-	2595	-
20	QPSK	1	0	-	19.8	-	18.69	-
		1	49	-	19.8	-	18.77	-
		1	99	-	19.8	-	18.79	-
		50	0	-	19.8	-	18.90	-
		50	24	-	19.8	-	18.85	-
		50	50	-	19.8	-	18.93	-
		100	0	-	19.8	-	18.79	-
	16QAM	1	0	-	19.8	-	18.67	-
		1	49	-	19.8	-	18.61	-
		1	99	-	19.8	-	18.67	-
		50	0	-	19.8	-	18.86	-
		50	24	-	19.8	-	18.89	-
		50	50	-	19.8	-	18.96	-
		100	0	-	19.8	-	18.90	-
	64QAM	1	0	-	19.8	-	18.90	-
		1	49	-	19.8	-	18.93	-
		1	99	-	19.8	-	18.98	-
		50	0	-	19.8	-	18.95	-
		50	24	-	19.8	-	18.88	-
		50	50	-	19.8	-	18.97	-
		100	0	-	19.8	-	18.88	-
	256QAM	1	0	-	19.8	-	17.83	-
		1	49	-	19.8	-	17.82	-
		1	99	-	19.8	-	17.95	-
50		0	-	19.8	-	17.86	-	
50		24	-	19.8	-	17.80	-	
50		50	-	19.8	-	17.86	-	
100		0	-	19.8	-	17.84	-	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	37825	38000	38175
						Freq(MHz)		
						2577.5	2595	2612.5
15	QPSK	1	0	-	19.8	18.87	18.90	18.92
		1	37	-	19.8	18.82	18.87	18.89
		1	74	-	19.8	18.85	18.85	18.86
		36	0	-	19.8	18.91	18.93	18.93
		36	19	-	19.8	18.98	18.92	19.00
		36	39	-	19.8	18.95	18.95	18.97
		75	0	-	19.8	18.85	18.81	18.88
	16QAM	1	0	-	19.8	18.70	18.77	18.62
		1	37	-	19.8	18.68	18.68	18.64
		1	74	-	19.8	18.69	18.70	18.65
		36	0	-	19.8	18.91	18.93	18.92
		36	19	-	19.8	18.98	18.90	18.98
		36	39	-	19.8	18.97	18.97	18.98
		75	0	-	19.8	19.00	18.90	18.91
	64QAM	1	0	-	19.8	18.41	18.44	18.39
		1	37	-	19.8	18.44	18.50	18.47
		1	74	-	19.8	18.41	18.45	18.39
		36	0	-	19.8	18.96	19.00	18.99
		36	19	-	19.8	19.03	18.94	19.02
		36	39	-	19.8	19.02	19.00	19.03
		75	0	-	19.8	18.99	18.95	18.92
	256QAM	1	0	-	19.8	17.85	17.82	17.83
		1	37	-	19.8	17.86	17.88	17.89
		1	74	-	19.8	17.89	17.82	17.88
36		0	-	19.8	17.84	17.91	17.86	
36		19	-	19.8	17.92	17.84	17.91	
36		39	-	19.8	17.86	17.90	17.86	
75		0	-	19.8	17.93	17.87	17.86	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	37800	38000	38200
						Freq(MHz)		
						2575	2595	2615
10	QPSK	1	0	-	19.8	19.05	18.98	18.97
		1	24	-	19.8	18.92	18.95	18.96
		1	49	-	19.8	18.97	19.00	18.99
		25	0	-	19.8	19.04	18.98	18.97
		25	12	-	19.8	19.07	18.94	18.96
		25	25	-	19.8	19.02	19.03	19.02
		50	0	-	19.8	19.04	18.96	18.97
	16QAM	1	0	-	19.8	18.81	18.62	18.62
		1	24	-	19.8	18.61	18.63	18.62
		1	49	-	19.8	18.66	18.64	18.72
		25	0	-	19.8	19.01	18.94	18.91
		25	12	-	19.8	19.00	18.95	18.93
		25	25	-	19.8	19.00	18.97	19.01
		50	0	-	19.8	19.09	18.99	18.97
	64QAM	1	0	-	19.8	18.65	18.55	18.52
		1	24	-	19.8	18.53	18.57	18.55
		1	49	-	19.8	18.61	18.60	18.56
		25	0	-	19.8	19.09	19.02	18.99
		25	12	-	19.8	19.07	19.02	19.02
		25	25	-	19.8	19.06	19.07	19.07
		50	0	-	19.8	19.03	18.95	18.97
256QAM	1	0	-	19.8	17.88	17.80	17.84	
	1	24	-	19.8	17.83	17.85	17.85	
	1	49	-	19.8	17.82	17.85	17.83	
	25	0	-	19.8	17.95	17.90	17.85	
	25	12	-	19.8	18.00	17.89	17.86	
	25	25	-	19.8	17.95	17.93	17.91	
	50	0	-	19.8	17.96	17.96	17.87	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
38						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	37775	38000	38225
						Freq(MHz)		
						2572.5	2595	2617.5
5	QPSK	1	0	-	19.8	18.94	18.91	18.93
		1	12	-	19.8	18.92	18.90	18.92
		1	24	-	19.8	18.93	18.92	18.94
		12	0	-	19.8	19.05	18.99	19.00
		12	6	-	19.8	19.04	18.97	19.04
		12	13	-	19.8	19.02	19.00	19.05
		25	0	-	19.8	18.91	18.88	18.90
	16QAM	1	0	-	19.8	19.01	18.78	18.80
		1	12	-	19.8	18.95	18.83	18.92
		1	24	-	19.8	18.87	18.83	18.92
		12	0	-	19.8	18.99	18.92	19.00
		12	6	-	19.8	19.06	18.98	18.99
		12	13	-	19.8	19.01	19.01	18.98
		25	0	-	19.8	19.00	18.93	18.97
	64QAM	1	0	-	19.8	18.88	18.71	18.84
		1	12	-	19.8	18.83	18.79	18.76
		1	24	-	19.8	18.76	18.78	18.76
		12	0	-	19.8	19.09	19.07	19.09
		12	6	-	19.8	19.15	19.05	19.09
		12	13	-	19.8	19.07	19.11	19.08
		25	0	-	19.8	19.02	19.00	19.00
256QAM	1	0	-	19.8	17.83	17.88	17.88	
	1	12	-	19.8	17.88	17.87	17.81	
	1	24	-	19.8	17.89	17.82	17.81	
	12	0	-	19.8	17.91	17.89	17.95	
	12	6	-	19.8	17.97	17.88	17.93	
	12	13	-	19.8	17.93	17.93	17.93	
	25	0	-	19.8	17.87	17.83	17.85	

*MPR is disabled when power reduction is enabled.

11.3.23 LTE band 41 DSI = 0, Full power (FCC)

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	39750	40185	40620	41055	41490
						Freq(MHz)				
						2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	0	24.0	22.57	22.47	22.78	22.74	22.66
		1	49	0	24.0	22.58	22.51	22.62	22.58	22.54
		1	99	0	24.0	22.59	22.54	22.76	22.69	22.63
		50	0	1	23.0	21.79	21.69	21.72	21.83	21.65
		50	24	1	23.0	21.82	21.74	21.80	21.82	21.64
		50	50	1	23.0	21.78	21.78	21.79	21.79	21.75
		100	0	1	23.0	21.82	21.77	21.78	21.76	21.66
	16QAM	1	0	1	23.0	21.48	21.45	21.52	21.62	21.50
		1	49	1	23.0	21.50	21.41	21.42	21.49	21.38
		1	99	1	23.0	21.48	21.43	21.57	21.57	21.48
		50	0	2	22.0	20.76	20.69	20.69	20.83	20.67
		50	24	2	22.0	20.80	20.75	20.75	20.78	20.65
		50	50	2	22.0	20.78	20.72	20.75	20.78	20.70
		100	0	2	22.0	20.86	20.79	20.82	20.83	20.68
	64QAM	1	0	2	22.0	20.78	20.71	20.70	20.67	20.66
		1	49	2	22.0	20.73	20.70	20.78	20.76	20.67
		1	99	2	22.0	20.75	20.61	20.76	20.75	20.67
		50	0	3	21.0	19.77	19.74	19.75	19.84	19.60
		50	24	3	21.0	19.83	19.80	19.85	19.78	19.70
		50	50	3	21.0	19.80	19.78	19.85	19.87	19.75
		100	0	3	21.0	19.85	19.79	19.78	19.83	19.63
256QAM	1	0	5	19.0	17.82	17.80	17.79	17.78	17.71	
	1	49	5	19.0	17.73	17.77	17.77	17.73	17.66	
	1	99	5	19.0	17.73	17.81	17.81	17.81	17.76	
	50	0	5	19.0	17.77	17.75	17.74	17.81	17.72	
	50	24	5	19.0	17.84	17.84	17.84	17.81	17.69	
	50	50	5	19.0	17.84	17.80	17.80	17.80	17.71	
	100	0	5	19.0	17.83	17.82	17.84	17.81	17.67	

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	39725	40173	40620	41068	41515
						Freq(MHz)				
						2503.5	2548.3	2593	2637.8	2682.5
15	QPSK	1	0	0	24.0	22.87	22.86	22.88	22.87	22.80
		1	37	0	24.0	22.80	22.76	22.82	22.77	22.77
		1	74	0	24.0	22.81	22.87	22.90	22.93	22.85
		36	0	1	23.0	21.99	21.84	21.87	21.97	21.84
		36	19	1	23.0	21.94	21.90	21.92	21.95	21.79
		36	39	1	23.0	21.95	21.91	21.93	21.91	21.88
	75	0	1	23.0	21.94	21.89	21.90	21.92	21.78	
	16QAM	1	0	1	23.0	21.58	21.56	21.53	21.55	21.55
		1	37	1	23.0	21.53	21.48	21.59	21.53	21.54
		1	74	1	23.0	21.61	21.64	21.69	21.64	21.57
		36	0	2	22.0	20.99	20.83	20.85	20.96	20.84
		36	19	2	22.0	20.93	20.92	20.92	20.96	20.79
		36	39	2	22.0	20.93	20.89	20.90	20.92	20.87
	75	0	2	22.0	20.95	20.88	20.96	20.94	20.82	
	64QAM	1	0	2	22.0	20.42	20.39	20.36	20.37	20.39
		1	37	2	22.0	20.40	20.34	20.41	20.39	20.32
		1	74	2	22.0	20.36	20.43	20.45	20.45	20.39
		36	0	3	21.0	20.02	19.91	19.96	19.99	19.89
		36	19	3	21.0	19.99	19.94	20.00	19.98	19.85
		36	39	3	21.0	19.98	19.93	20.00	20.01	19.93
	75	0	3	21.0	20.01	19.94	19.97	19.94	19.83	
256QAM	1	0	5	19.0	17.46	17.41	17.42	17.35	17.28	
	1	37	5	19.0	17.36	17.33	17.39	17.34	17.28	
	1	74	5	19.0	17.51	17.46	17.50	17.50	17.45	
	36	0	5	19.0	18.03	17.91	17.94	17.98	17.88	
	36	19	5	19.0	18.00	17.99	17.98	17.95	17.86	
	36	39	5	19.0	17.99	17.96	17.98	17.98	17.94	
75	0	5	19.0	17.98	17.98	18.02	17.98	17.83		

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	39700	40160	40620	41080	41540
						Freq(MHz)				
						2501	2547	2593	2639	2685
10	QPSK	1	0	0	24.0	22.97	22.97	23.02	23.05	22.90
		1	24	0	24.0	22.93	22.87	23.00	22.95	22.87
		1	49	0	24.0	22.90	22.89	23.01	22.96	22.88
		25	0	1	23.0	21.99	21.90	21.95	21.93	21.85
		25	12	1	23.0	22.02	21.95	22.02	22.03	21.87
		25	25	1	23.0	21.95	21.96	22.03	21.98	21.96
	16QAM	50	0	1	23.0	21.98	21.96	22.01	21.99	21.84
		1	0	1	23.0	21.59	21.59	21.52	21.61	21.50
		1	24	1	23.0	21.58	21.53	21.62	21.60	21.52
		1	49	1	23.0	21.58	21.57	21.68	21.62	21.49
		25	0	2	22.0	20.97	20.88	20.90	20.92	20.82
		25	12	2	22.0	20.99	20.94	20.99	21.01	20.82
	64QAM	25	25	2	22.0	20.93	20.91	20.98	20.97	20.85
		50	0	2	22.0	21.04	20.96	21.04	21.04	20.85
		1	0	2	22.0	20.62	20.47	20.55	20.51	20.42
		1	24	2	22.0	20.50	20.39	20.57	20.56	20.49
		1	49	2	22.0	20.55	20.47	20.56	20.56	20.46
		25	0	3	21.0	20.09	19.95	20.00	19.98	19.89
	256QAM	25	12	3	21.0	20.07	20.04	20.07	20.09	19.93
		25	25	3	21.0	20.04	20.02	20.07	20.09	19.94
		50	0	3	21.0	20.05	19.97	20.01	20.01	19.87
		1	0	5	19.0	17.55	17.39	17.49	17.43	17.35
		1	24	5	19.0	17.47	17.28	17.48	17.37	17.41
		1	49	5	19.0	17.53	17.48	17.49	17.47	17.42
		25	0	5	19.0	18.04	17.90	17.95	17.91	17.86
		25	12	5	19.0	18.05	18.04	18.04	18.05	17.87
		25	25	5	19.0	18.02	18.01	18.05	18.03	17.91
50		0	5	19.0	18.08	18.02	18.09	18.04	17.91	

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	39675	40148	40620	41093	41565
						Freq(MHz)				
						2498.5	2545.8	2593	2640.3	2687.5
5	QPSK	1	0	0	24.0	22.99	22.85	22.86	22.89	22.84
		1	12	0	24.0	22.95	22.88	22.89	22.90	22.83
		1	24	0	24.0	22.96	22.89	22.90	22.88	22.82
		12	0	1	23.0	22.07	21.99	21.93	21.96	21.91
		12	6	1	23.0	22.09	21.98	22.01	21.99	21.95
		12	13	1	23.0	22.03	21.96	22.04	22.00	21.93
	16QAM	25	0	1	23.0	22.03	21.93	22.01	22.00	21.90
		1	0	1	23.0	21.92	21.74	22.01	21.73	21.73
		1	12	1	23.0	21.84	21.75	21.97	21.81	21.70
		1	24	1	23.0	21.85	21.79	21.98	21.78	21.68
		12	0	2	22.0	21.02	20.94	20.95	20.96	20.88
		12	6	2	22.0	21.05	20.95	21.05	20.99	20.92
	64QAM	12	13	2	22.0	21.00	20.93	21.02	20.97	20.85
		25	0	2	22.0	21.00	20.96	21.02	20.96	20.89
		1	0	2	22.0	20.91	20.74	20.92	20.73	20.69
		1	12	2	22.0	20.81	20.76	21.11	20.80	20.66
		1	24	2	22.0	20.85	20.76	20.72	20.80	20.65
		12	0	3	21.0	20.18	20.08	20.04	20.10	20.00
	256QAM	12	6	3	21.0	20.15	20.10	20.12	20.13	20.04
		12	13	3	21.0	20.14	20.07	20.10	20.11	19.99
		25	0	3	21.0	20.11	20.00	20.04	20.04	19.93
		1	0	5	19.0	17.87	17.71	17.74	17.72	17.70
		1	12	5	19.0	17.87	17.75	17.76	17.77	17.74
		1	24	5	19.0	17.85	17.75	17.78	17.78	17.67
		12	0	5	19.0	18.06	17.99	17.93	18.00	17.94
12		6	5	19.0	18.11	17.98	18.07	18.04	17.96	
12	13	5	19.0	18.08	17.99	18.03	18.00	17.90		
25	0	5	19.0	18.04	17.94	17.95	17.95	17.85		

11.3.24 LTE band 41 DSI = 1, Reduction Power (FCC)

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	39750	40185	40620	41055	41490
						Freq(MHz)				
						2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	-	20.7	19.44	19.42	19.71	19.70	19.57
		1	49	-	20.7	19.47	19.45	19.58	19.54	19.45
		1	99	-	20.7	19.48	19.46	19.69	19.66	19.55
		50	0	-	20.7	19.65	19.64	19.68	19.75	19.64
		50	24	-	20.7	19.73	19.71	19.76	19.74	19.61
		50	50	-	20.7	19.77	19.74	19.77	19.69	19.56
	16QAM	100	0	-	20.7	19.47	19.42	19.67	19.65	19.51
		1	0	-	20.7	19.51	19.43	19.52	19.54	19.47
		1	49	-	20.7	19.40	19.36	19.45	19.41	19.37
		1	99	-	20.7	19.46	19.40	19.56	19.49	19.40
		50	0	-	20.7	19.67	19.58	19.73	19.72	19.58
		50	24	-	20.7	19.75	19.68	19.82	19.72	19.58
	64QAM	50	50	-	20.7	19.74	19.67	19.76	19.68	19.65
		100	0	-	20.7	19.78	19.71	19.82	19.77	19.58
		1	0	-	20.7	19.71	19.72	19.68	19.72	19.66
		1	49	-	20.7	19.72	19.70	19.71	19.66	19.61
		1	99	-	20.7	19.73	19.68	19.71	19.70	19.64
		50	0	-	20.7	19.73	19.71	19.69	19.80	19.66
	256QAM	50	24	-	20.7	19.80	19.75	19.75	19.79	19.65
		50	50	-	20.7	19.84	19.74	19.79	19.78	19.69
		100	0	-	20.7	19.78	19.73	19.76	19.76	19.63
		1	0	1	19.7	17.98	17.95	17.99	17.90	17.82
		1	49	1	19.7	17.94	17.90	17.98	17.90	17.85
		1	99	1	19.7	17.98	18.00	18.02	18.00	17.89
	50	0	1	19.7	17.88	17.89	17.92	17.99	17.81	
	50	24	1	19.7	17.99	17.99	17.98	17.98	17.81	
	50	50	1	19.7	17.93	17.94	17.97	17.93	17.86	
	100	0	1	19.7	17.94	17.96	18.00	17.97	17.78	

*Except for 256QAM, MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	39725	40173	40620	41068	41515
						Freq(MHz)				
						2503.5	2548.3	2593	2637.8	2682.5
15	QPSK	1	0	-	20.7	19.68	19.71	19.77	19.67	19.64
		1	37	-	20.7	19.64	19.60	19.69	19.64	19.57
		1	74	-	20.7	19.63	19.70	19.74	19.72	19.68
		36	0	-	20.7	19.82	19.71	19.67	19.76	19.65
		36	19	-	20.7	19.79	19.72	19.77	19.71	19.61
		36	39	-	20.7	19.75	19.73	19.76	19.72	19.64
		75	0	-	20.7	19.65	19.63	19.77	19.72	19.61
	16QAM	1	0	-	20.7	19.41	19.40	19.48	19.33	19.34
		1	37	-	20.7	19.38	19.28	19.41	19.34	19.33
		1	74	-	20.7	19.38	19.40	19.48	19.46	19.49
		36	0	-	20.7	19.79	19.66	19.72	19.76	19.62
		36	19	-	20.7	19.80	19.71	19.79	19.77	19.62
		36	39	-	20.7	19.77	19.68	19.79	19.74	19.66
		75	0	-	20.7	19.77	19.72	19.81	19.75	19.63
	64QAM	1	0	-	20.7	19.25	19.27	19.18	19.17	19.18
		1	37	-	20.7	19.24	19.26	19.23	19.23	19.22
		1	74	-	20.7	19.24	19.26	19.32	19.30	19.27
		36	0	-	20.7	19.86	19.74	19.77	19.81	19.69
		36	19	-	20.7	19.80	19.78	19.83	19.81	19.66
		36	39	-	20.7	19.81	19.76	19.82	19.82	19.76
		75	0	-	20.7	19.79	19.74	19.82	19.78	19.73
	256QAM	1	0	1	19.7	18.90	18.85	18.88	18.92	18.88
		1	37	1	19.7	18.90	18.88	18.87	18.82	18.80
		1	74	1	19.7	19.00	19.01	18.99	19.07	18.93
		36	0	1	19.7	19.54	19.37	19.46	19.50	19.40
		36	19	1	19.7	19.49	19.55	19.55	19.50	19.36
		36	39	1	19.7	19.48	19.44	19.54	19.47	19.44
		75	0	1	19.7	19.51	19.53	19.51	19.50	19.38

*Except for 256QAM, MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	39700	40160	40620	41080	41540
						Freq(MHz)				
						2501	2547	2593	2639	2685
10	QPSK	1	0	-	20.7	19.75	19.68	19.78	19.81	19.73
		1	24	-	20.7	19.71	19.65	19.79	19.74	19.64
		1	49	-	20.7	19.72	19.72	19.77	19.75	19.66
		25	0	-	20.7	19.81	19.71	19.75	19.68	19.63
		25	12	-	20.7	19.84	19.81	19.84	19.81	19.65
		25	25	-	20.7	19.78	19.73	19.81	19.80	19.73
		50	0	-	20.7	19.72	19.68	19.78	19.80	19.65
	16QAM	1	0	-	20.7	19.48	19.36	19.35	19.36	19.46
		1	24	-	20.7	19.40	19.34	19.46	19.39	19.39
		1	49	-	20.7	19.41	19.37	19.46	19.41	19.28
		25	0	-	20.7	19.80	19.70	19.73	19.62	19.60
		25	12	-	20.7	19.80	19.78	19.80	19.79	19.65
		25	25	-	20.7	19.75	19.76	19.77	19.76	19.68
		50	0	-	20.7	19.86	19.89	19.82	19.82	19.68
	64QAM	1	0	-	20.7	19.40	19.25	19.31	19.34	19.25
		1	24	-	20.7	19.27	19.24	19.36	19.30	19.25
		1	49	-	20.7	19.33	19.28	19.37	19.34	19.25
		25	0	-	20.7	19.83	19.75	19.80	19.77	19.73
		25	12	-	20.7	19.90	19.85	19.87	19.87	19.71
		25	25	-	20.7	19.84	19.77	19.84	19.85	19.72
		50	0	-	20.7	19.80	19.76	19.79	19.81	19.67
	256QAM	1	0	1	19.7	19.01	18.90	18.99	18.93	18.86
		1	24	1	19.7	18.93	18.82	18.96	18.91	18.87
		1	49	1	19.7	19.00	18.95	19.04	18.95	18.91
		25	0	1	19.7	19.56	19.40	19.45	19.42	19.39
		25	12	1	19.7	19.56	19.53	19.55	19.53	19.40
		25	25	1	19.7	19.53	19.49	19.56	19.52	19.43
		50	0	1	19.7	19.57	19.52	19.55	19.53	19.40

*Except for 256QAM, MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)				
41						UL Ch #				
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	39675	40148	40620	41093	41565
						Freq(MHz)				
						2498.5	2545.8	2593	2640.3	2687.5
5	QPSK	1	0	-	20.7	19.80	19.65	19.67	19.62	19.62
		1	12	-	20.7	19.77	19.72	19.68	19.70	19.59
		1	24	-	20.7	19.76	19.69	19.70	19.69	19.58
		12	0	-	20.7	19.87	19.78	19.74	19.79	19.73
		12	6	-	20.7	19.88	19.80	19.82	19.78	19.74
		12	13	-	20.7	19.86	19.79	19.85	19.77	19.71
		25	0	-	20.7	19.75	19.67	19.67	19.65	19.62
	16QAM	1	0	-	20.7	19.80	19.53	19.54	19.52	19.68
		1	12	-	20.7	19.74	19.61	19.58	19.55	19.63
		1	24	-	20.7	19.72	19.59	19.59	19.60	19.48
		12	0	-	20.7	19.86	19.78	19.74	19.75	19.71
		12	6	-	20.7	19.88	19.79	19.79	19.80	19.70
		12	13	-	20.7	19.83	19.75	19.79	19.79	19.67
	64QAM	25	0	-	20.7	19.89	19.78	19.81	19.77	19.69
		1	0	-	20.7	19.75	19.53	19.49	19.49	19.55
		1	12	-	20.7	19.64	19.58	19.55	19.57	19.50
		1	24	-	20.7	19.69	19.64	19.54	19.53	19.51
		12	0	-	20.7	19.95	19.89	19.82	19.86	19.82
		12	6	-	20.7	19.95	19.87	19.90	19.91	19.83
	256QAM	12	13	-	20.7	19.94	19.86	19.90	19.89	19.78
		25	0	-	20.7	19.90	19.80	19.86	19.82	19.74
		1	0	1	19.7	19.35	19.23	19.25	19.19	19.23
		1	12	1	19.7	19.33	19.29	19.25	19.31	19.25
		1	24	1	19.7	19.34	19.25	19.31	19.26	19.19
		12	0	1	19.7	19.59	19.50	19.48	19.49	19.45
12		6	1	19.7	19.58	19.55	19.53	19.51	19.46	
12	13	1	19.7	19.60	19.53	19.55	19.49	19.45		
		25	0	1	19.7	19.52	19.46	19.47	19.44	19.36

*Except for 256QAM, MPR is disabled when power reduction is enabled.

11.3.25 LTE band 48 DSI = 0, Full power / DSI = 1, Reduction Power (FCC)

For B48, the Tune-up limits were different depending on the TDD configurations (see Section 3.4), so the worst power configurations were checked as follows.

Worst power configuration check

Band							Burst Pwr Avg (dBm)	Timed Pwr Avg (dBm)
48							UL Ch #	
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Tune-up Limit (dBm)	Uplink/Downlink Configuration	Special Subframe	56207	
							Freq(MHz)	
							3646.7	
20	QPSK	1	49	10.9	0	0	9.56	7.38
						7	9.65	7.49
20	QPSK	1	49	12.3	1	0	11.20	7.34
						7	11.00	7.16
20	QPSK	1	49	15.2	2	0	14.08	7.15
						7	13.87	6.91
20	QPSK	1	49	13.8	3	0	12.64	7.48
						7	12.45	7.32
20	QPSK	1	49	15.4	4	0	14.32	7.38
						7	14.10	7.17
20	QPSK	1	49	18.3	5	0	17.37	7.24
						7	17.01	6.86
20	QPSK	1	49	11.4	6	0	10.27	7.31
						7	10.17	7.22

*Cyclic prefix "Extended" was used.

Band						Meas. Pwr Avg (dBm)				
48						UL Ch #				
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	55340	55773	-	56207	56640
						Freq(MHz)				
						3560	3603.3	-	3646.7	3690
20	QPSK	1	0	-	10.9	9.78	9.62	-	9.62	9.63
		1	49	-	10.9	9.68	9.54	-	9.49	9.55
		1	99	-	10.9	9.80	9.61	-	9.60	9.56
		50	0	-	10.9	9.82	9.64	-	9.67	9.63
		50	24	-	10.9	9.74	9.62	-	9.64	9.59
		50	50	-	10.9	9.83	9.57	-	9.65	9.62
	16QAM	100	0	-	10.9	9.77	9.56	-	9.58	9.53
		1	0	-	10.9	9.57	9.42	-	9.42	9.39
		1	49	-	10.9	9.45	9.26	-	9.31	9.27
		1	99	-	10.9	9.54	9.35	-	9.42	9.31
		50	0	-	10.9	9.81	9.63	-	9.62	9.53
		50	24	-	10.9	9.82	9.64	-	9.63	9.52
	64QAM	50	50	-	10.9	9.74	9.54	-	9.59	9.60
		100	0	-	10.9	9.73	9.64	-	9.66	9.58
		1	0	-	10.9	9.81	9.62	-	9.60	9.57
		1	49	-	10.9	9.78	9.52	-	9.55	9.55
		1	99	-	10.9	9.76	9.56	-	9.63	9.57
		50	0	-	10.9	9.75	9.64	-	9.66	9.59
	256QAM	50	24	-	10.9	9.78	9.64	-	9.69	9.59
		50	50	-	10.9	9.77	9.61	-	9.67	9.60
		100	0	-	10.9	9.75	9.63	-	9.64	9.53
		1	0	-	10.9	9.76	9.69	-	9.71	9.62
		1	49	-	10.9	9.81	9.61	-	9.63	9.62
		1	99	-	10.9	9.80	9.59	-	9.68	9.63
	50	0	-	10.9	9.77	9.64	-	9.62	9.55	
	50	24	-	10.9	9.82	9.64	-	9.64	9.55	
	50	50	-	10.9	9.67	9.53	-	9.61	9.61	
	100	0	-	10.9	9.70	9.62	-	9.60	9.56	

*U/D Config. = "0", SSF = "7" and CP = "Extended" were used to measure the highest transmission implemented for the device according to KDB 941225 D05 (Worst Timed Power AV Mode).

*MPR is disabled with U/D Config. = "0", SSF = "7" and CP = "Extended" mode.

Band						Meas. Pwr Avg (dBm)				
48						UL Ch #				
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	55315	55765	-	56215	56665
						Freq(MHz)				
						3557.5	3602.5	-	3647.5	3692.5
15	QPSK	1	0	-	10.9	9.79	9.67	-	9.65	9.52
		1	37	-	10.9	9.70	9.55	-	9.55	9.47
		1	74	-	10.9	9.80	9.64	-	9.69	9.57
		36	0	-	10.9	9.88	9.71	-	9.71	9.62
		36	19	-	10.9	9.76	9.63	-	9.65	9.66
		36	39	-	10.9	9.77	9.61	-	9.68	9.63
	75	0	-	10.9	9.73	9.55	-	9.63	9.50	
	16QAM	1	0	-	10.9	9.45	9.32	-	9.30	9.52
		1	37	-	10.9	9.47	9.28	-	9.22	9.42
		1	74	-	10.9	9.48	9.35	-	9.38	9.46
		36	0	-	10.9	9.81	9.69	-	9.65	9.66
		36	19	-	10.9	9.74	9.61	-	9.68	9.70
		36	39	-	10.9	9.75	9.55	-	9.66	9.67
	75	0	-	10.9	9.75	9.60	-	9.70	9.54	
	64QAM	1	0	-	10.9	9.36	9.16	-	9.18	9.31
		1	37	-	10.9	9.31	9.09	-	9.12	9.35
		1	74	-	10.9	9.29	9.13	-	9.20	9.45
		36	0	-	10.9	9.84	9.73	-	9.74	9.65
		36	19	-	10.9	9.82	9.62	-	9.69	9.70
		36	39	-	10.9	9.83	9.64	-	9.72	9.67
	75	0	-	10.9	9.82	9.59	-	9.67	9.60	
	256QAM	1	0	-	10.9	9.29	9.13	-	9.12	9.84
		1	37	-	10.9	9.20	9.08	-	9.07	9.82
		1	74	-	10.9	9.26	9.11	-	9.18	9.87
36		0	-	10.9	9.83	9.68	-	9.71	9.59	
36		19	-	10.9	9.76	9.63	-	9.71	9.64	
36		39	-	10.9	9.73	9.59	-	9.67	9.63	
75	0	-	10.9	9.78	9.61	-	9.72	9.62		

*U/D Config. = "0", SSF = "7" and CP = "Extended" were used to measure the highest transmission implemented for the device according to KDB 941225 D05 (Worst Timed Power AV Mode).

*MPR is disabled with U/D Config. = "0", SSF = "7" and CP = "Extended" mode.

Band						Meas. Pwr Avg (dBm)				
48						UL Ch #				
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	55290	55757	-	56223	56690
						Freq(MHz)				
						3555	3601.7	-	3648.3	3695
10	QPSK	1	0	-	10.9	9.87	9.70	-	9.73	9.67
		1	24	-	10.9	9.80	9.64	-	9.63	9.58
		1	49	-	10.9	9.83	9.65	-	9.67	9.64
		25	0	-	10.9	9.86	9.67	-	9.71	9.65
		25	12	-	10.9	9.83	9.72	-	9.69	9.72
		25	25	-	10.9	9.78	9.63	-	9.70	9.68
	16QAM	50	0	-	10.9	9.78	9.61	-	9.69	9.67
		1	0	-	10.9	9.48	9.33	-	9.33	9.31
		1	24	-	10.9	9.38	9.21	-	9.26	9.19
		1	49	-	10.9	9.47	9.28	-	9.34	9.28
		25	0	-	10.9	9.80	9.61	-	9.60	9.61
		25	12	-	10.9	9.76	9.60	-	9.68	9.66
	64QAM	25	25	-	10.9	9.74	9.54	-	9.64	9.61
		50	0	-	10.9	9.79	9.67	-	9.73	9.66
		1	0	-	10.9	9.46	9.25	-	9.32	9.29
		1	24	-	10.9	9.42	9.25	-	9.20	9.21
		1	49	-	10.9	9.37	9.17	-	9.27	9.22
		25	0	-	10.9	9.86	9.74	-	9.76	9.75
	256QAM	25	12	-	10.9	9.85	9.80	-	9.75	9.73
		25	25	-	10.9	9.84	9.67	-	9.75	9.72
		50	0	-	10.9	9.82	9.68	-	9.71	9.66
		1	0	-	10.9	9.37	9.19	-	9.23	9.19
		1	24	-	10.9	9.29	9.09	-	9.11	9.04
		1	49	-	10.9	9.31	9.10	-	9.19	9.16
	25	0	-	10.9	9.86	9.72	-	9.69	9.69	
	25	12	-	10.9	9.83	9.72	-	9.71	9.69	
	25	25	-	10.9	9.79	9.62	-	9.68	9.67	
	50	0	-	10.9	9.82	9.74	-	9.70	9.65	

*U/D Config. = "0", SSF = "7" and CP = "Extended" were used to measure the highest transmission implemented for the device according to KDB 941225 D05 (Worst Timed Power AV Mode).

*MPR is disabled with U/D Config. = "0", SSF = "7" and CP = "Extended" mode.

Band						Meas. Pwr Avg (dBm)				
48						UL Ch #				
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	55265	55748	-	56232	56715
						Freq(MHz)				
						3552.5	3600.8	-	3649.2	3697.5
5	QPSK	1	0	-	10.9	9.77	9.64	-	9.64	9.64
		1	12	-	10.9	9.68	9.55	-	9.57	9.52
		1	24	-	10.9	9.79	9.56	-	9.66	9.58
		12	0	-	10.9	9.86	9.71	-	9.74	9.70
		12	6	-	10.9	9.85	9.68	-	9.71	9.65
		12	13	-	10.9	9.84	9.70	-	9.72	9.66
	16QAM	25	0	-	10.9	9.79	9.58	-	9.60	9.61
		1	0	-	10.9	9.67	9.52	-	9.49	9.49
		1	12	-	10.9	9.59	9.44	-	9.43	9.42
		1	24	-	10.9	9.64	9.46	-	9.52	9.45
		12	0	-	10.9	9.82	9.64	-	9.65	9.63
		12	6	-	10.9	9.82	9.65	-	9.71	9.65
	64QAM	12	13	-	10.9	9.79	9.62	-	9.69	9.65
		25	0	-	10.9	9.85	9.69	-	9.70	9.63
		1	0	-	10.9	9.62	9.47	-	9.48	9.47
		1	12	-	10.9	9.52	9.34	-	9.36	9.39
		1	24	-	10.9	9.61	9.39	-	9.48	9.42
		12	0	-	10.9	9.82	9.77	-	9.78	9.76
	256QAM	12	6	-	10.9	9.85	9.76	-	9.80	9.74
		12	13	-	10.9	9.85	9.74	-	9.80	9.74
		25	0	-	10.9	9.77	9.72	-	9.73	9.70
		1	0	-	10.9	9.66	9.53	-	9.54	9.51
		1	12	-	10.9	9.54	9.38	-	9.40	9.41
		1	24	-	10.9	9.66	9.43	-	9.54	9.47
		12	0	-	10.9	9.77	9.68	-	9.71	9.68
12		6	-	10.9	9.85	9.68	-	9.69	9.68	
12		13	-	10.9	9.85	9.70	-	9.70	9.64	
25		0	-	10.9	9.76	9.64	-	9.62	9.61	

*U/D Config. = "0", SSF = "7" and CP = "Extended" were used to measure the highest transmission implemented for the device according to KDB 941225 D05 (Worst Timed Power AV Mode).

*MPR is disabled with U/D Config. = "0", SSF = "7" and CP = "Extended" mode.

11.3.26 LTE band 66 DSI = 0, Full power

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	132072	132322	132572
						Freq(MHz)		
						1720	1745	1770
20	QPSK	1	0	0	24.0	22.64	22.81	22.95
		1	49	0	24.0	22.66	22.79	22.88
		1	99	0	24.0	22.73	22.84	22.82
		50	0	1	23.0	21.69	21.88	21.94
		50	24	1	23.0	21.79	21.87	22.00
		50	50	1	23.0	21.80	21.92	22.01
		100	0	1	23.0	21.74	21.87	21.91
	16QAM	1	0	1	23.0	22.05	22.22	22.37
		1	49	1	23.0	22.13	22.21	22.26
		1	99	1	23.0	22.21	22.25	22.20
		50	0	2	22.0	20.70	20.88	20.98
		50	24	2	22.0	20.84	20.89	21.07
		50	50	2	22.0	20.83	20.97	21.02
		100	0	2	22.0	20.84	20.89	20.98
	64QAM	1	0	2	22.0	20.89	21.05	21.17
		1	49	2	22.0	20.89	21.06	21.13
		1	99	2	22.0	20.98	21.09	21.11
		50	0	3	21.0	19.74	19.92	20.01
		50	24	3	21.0	19.84	19.93	20.09
		50	50	3	21.0	19.84	19.97	20.03
		100	0	3	21.0	19.77	19.85	19.96
	256QAM	1	0	5	19.0	17.79	17.92	18.04
		1	49	5	19.0	17.77	17.93	18.01
		1	99	5	19.0	17.87	17.97	18.04
50		0	5	19.0	17.74	17.90	18.00	
50		24	5	19.0	17.86	17.93	18.08	
50		50	5	19.0	17.87	18.00	18.04	
100		0	5	19.0	17.82	17.89	17.98	

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	132047	132322	132597
						Freq(MHz)		
						1717.5	1745	1772.5
15	QPSK	1	0	0	24.0	22.60	22.81	22.90
		1	37	0	24.0	22.63	22.86	22.87
		1	74	0	24.0	22.64	22.87	22.84
		36	0	1	23.0	21.67	21.83	22.01
		36	19	1	23.0	21.77	21.87	22.11
		36	39	1	23.0	21.81	21.93	22.05
		75	0	1	23.0	21.76	21.81	21.97
	16QAM	1	0	1	23.0	21.93	22.01	22.26
		1	37	1	23.0	22.02	22.09	22.29
		1	74	1	23.0	22.07	22.08	22.30
		36	0	2	22.0	20.66	20.88	21.03
		36	19	2	22.0	20.83	20.93	21.13
		36	39	2	22.0	20.81	20.97	21.04
		75	0	2	22.0	20.79	20.83	21.00
	64QAM	1	0	2	22.0	20.98	21.35	21.38
		1	37	2	22.0	21.08	21.45	21.35
		1	74	2	22.0	21.12	21.49	21.37
		36	0	3	21.0	19.67	19.91	20.02
		36	19	3	21.0	19.79	19.93	20.09
		36	39	3	21.0	19.77	20.01	20.04
		75	0	3	21.0	19.80	19.86	20.01
	256QAM	1	0	5	19.0	18.00	17.88	18.32
		1	37	5	19.0	18.07	17.90	18.33
		1	74	5	19.0	18.05	17.96	18.32
36		0	5	19.0	17.62	17.89	17.95	
36		19	5	19.0	17.74	17.93	18.01	
36		39	5	19.0	17.76	17.99	18.00	
75		0	5	19.0	17.77	17.88	17.98	

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	132022	132322	132622
						Freq(MHz)		
						1715	1745	1775
10	QPSK	1	0	0	24.0	22.57	22.77	22.89
		1	24	0	24.0	22.52	22.78	22.87
		1	49	0	24.0	22.60	22.80	22.86
		25	0	1	23.0	21.78	21.89	21.98
		25	12	1	23.0	21.79	21.90	21.99
		25	25	1	23.0	21.77	21.94	22.02
		50	0	1	23.0	21.76	21.89	21.96
	16QAM	1	0	1	23.0	22.00	22.10	22.15
		1	24	1	23.0	22.00	22.01	22.11
		1	49	1	23.0	21.91	22.06	22.09
		25	0	2	22.0	20.77	20.86	20.97
		25	12	2	22.0	20.81	20.93	21.01
		25	25	2	22.0	20.79	20.97	21.04
		50	0	2	22.0	20.74	20.87	20.94
	64QAM	1	0	2	22.0	21.22	21.29	21.37
		1	24	2	22.0	21.12	21.36	21.41
		1	49	2	22.0	21.11	21.33	21.34
		25	0	3	21.0	19.78	19.93	20.01
		25	12	3	21.0	19.80	19.94	19.98
		25	25	3	21.0	19.75	20.00	20.06
		50	0	3	21.0	19.75	19.91	19.97
	256QAM	1	0	5	19.0	17.98	18.14	18.22
		1	24	5	19.0	17.87	18.11	18.18
		1	49	5	19.0	18.03	18.19	18.17
25		0	5	19.0	17.77	17.92	18.01	
25		12	5	19.0	17.81	17.92	18.01	
25		25	5	19.0	17.78	17.94	18.05	
50		0	5	19.0	17.77	17.90	17.95	

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	131997	132322	132647
						Freq(MHz)		
						1712.5	1745	1777.5
5	QPSK	1	0	0	24.0	22.61	22.73	22.86
		1	12	0	24.0	22.64	22.76	22.85
		1	24	0	24.0	22.62	22.72	22.80
		12	0	1	23.0	21.77	21.92	22.04
		12	6	1	23.0	21.80	21.90	22.10
		12	13	1	23.0	21.72	21.94	22.02
		25	0	1	23.0	21.76	21.84	22.02
	16QAM	1	0	1	23.0	22.11	22.13	22.28
		1	12	1	23.0	22.12	22.21	22.27
		1	24	1	23.0	22.09	22.18	22.20
		12	0	2	22.0	20.80	20.92	21.08
		12	6	2	22.0	20.88	20.95	21.12
		12	13	2	22.0	20.82	20.99	21.05
		25	0	2	22.0	20.81	20.90	21.05
	64QAM	1	0	2	22.0	21.18	21.14	21.29
		1	12	2	22.0	21.17	21.17	21.26
		1	24	2	22.0	21.14	21.18	21.21
		12	0	3	21.0	19.70	19.95	20.08
		12	6	3	21.0	19.76	19.97	20.13
		12	13	3	21.0	19.71	20.01	20.10
		25	0	3	21.0	19.80	19.94	20.08
	256QAM	1	0	5	19.0	17.89	18.33	18.55
		1	12	5	19.0	17.90	18.36	18.49
		1	24	5	19.0	17.85	18.37	18.44
12		0	5	19.0	17.86	17.91	18.06	
12		6	5	19.0	17.86	17.93	18.09	
12		13	5	19.0	17.83	17.97	18.02	
25		0	5	19.0	17.81	17.87	18.02	

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	131987	132322	132657
						Freq(MHz)		
						1711.5	1745	1778.5
3	QPSK	1	0	0	24.0	22.60	22.76	22.90
		1	7	0	24.0	22.66	22.89	23.03
		1	14	0	24.0	22.58	22.80	22.85
		8	0	1	23.0	21.79	21.91	22.06
		8	3	1	23.0	21.80	21.97	22.05
		8	7	1	23.0	21.81	21.96	21.99
		15	0	1	23.0	21.76	21.87	22.01
	16QAM	1	0	1	23.0	21.93	21.98	22.11
		1	7	1	23.0	21.92	22.07	22.14
		1	14	1	23.0	21.86	22.03	22.16
		8	0	2	22.0	20.71	20.81	20.99
		8	3	2	22.0	20.71	20.90	21.01
		8	7	2	22.0	20.69	20.88	20.93
		15	0	2	22.0	20.75	20.86	20.98
	64QAM	1	0	2	22.0	21.16	21.25	21.41
		1	7	2	22.0	21.14	21.27	21.34
		1	14	2	22.0	21.08	21.29	21.35
		8	0	3	21.0	19.86	20.00	20.15
		8	3	3	21.0	19.90	20.03	20.12
		8	7	3	21.0	19.89	20.06	20.12
		15	0	3	21.0	19.82	19.94	20.07
	256QAM	1	0	5	19.0	17.98	18.11	18.27
		1	7	5	19.0	17.97	18.06	18.12
		1	14	5	19.0	18.03	18.18	18.17
8		0	5	19.0	17.92	17.99	18.14	
8		3	5	19.0	17.94	18.09	18.19	
8		7	5	19.0	17.88	18.04	18.13	
15		0	5	19.0	17.74	17.89	18.03	

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	131979	132322	132665
						Freq(MHz)		
						1710.7	1745	1779.3
1.4	QPSK	1	0	0	24.0	22.56	22.73	22.79
		1	2	0	24.0	22.63	22.75	22.85
		1	5	0	24.0	22.58	22.70	22.75
		3	0	0	24.0	22.57	22.76	22.87
		3	1	0	24.0	22.64	22.80	22.89
		3	3	0	24.0	22.60	22.78	22.84
		6	0	1	23.0	21.65	21.82	21.92
	16QAM	1	0	1	23.0	21.62	21.92	22.02
		1	2	1	23.0	21.74	22.09	22.18
		1	5	1	23.0	21.64	21.93	22.02
		3	0	1	23.0	21.59	22.04	22.15
		3	1	1	23.0	21.61	22.06	22.14
		3	3	1	23.0	21.57	21.99	22.10
		6	0	2	22.0	20.71	20.83	20.92
	64QAM	1	0	2	22.0	21.04	21.23	21.32
		1	2	2	22.0	21.10	21.33	21.43
		1	5	2	22.0	21.01	21.20	21.29
		3	0	2	22.0	20.77	20.94	21.01
		3	1	2	22.0	20.85	20.94	21.07
		3	3	2	22.0	20.80	20.91	21.01
		6	0	3	21.0	19.66	19.98	20.09
	256QAM	1	0	5	19.0	17.55	18.07	18.18
		1	2	5	19.0	17.61	18.13	18.23
		1	5	5	19.0	17.52	18.06	18.14
3		0	5	19.0	17.54	17.90	18.01	
3		1	5	19.0	17.58	17.94	18.02	
3		3	5	19.0	17.53	17.91	17.99	
6		0	5	19.0	17.53	17.89	18.01	

11.3.27 LTE band 66 DSI = 1, Reduction Power

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	132072	132322	132572
						Freq(MHz)		
						1720	1745	1770
20	QPSK	1	0	-	18.2	16.98	17.04	17.18
		1	49	-	18.2	16.95	17.01	17.10
		1	99	-	18.2	17.01	17.03	17.08
		50	0	-	18.2	16.87	17.03	17.16
		50	24	-	18.2	16.99	17.02	17.25
		50	50	-	18.2	16.98	17.10	17.20
		100	0	-	18.2	16.95	17.04	17.15
	16QAM	1	0	-	18.2	17.27	17.43	17.44
		1	49	-	18.2	17.23	17.43	17.28
		1	99	-	18.2	17.33	17.46	17.30
		50	0	-	18.2	16.91	17.09	17.16
		50	24	-	18.2	17.04	17.08	17.22
		50	50	-	18.2	17.02	17.15	17.18
		100	0	-	18.2	17.04	17.09	17.13
	64QAM	1	0	-	18.2	17.08	17.27	17.38
		1	49	-	18.2	17.12	17.27	17.46
		1	99	-	18.2	17.19	17.31	17.32
		50	0	-	18.2	16.92	17.13	17.20
		50	24	-	18.2	17.03	17.15	17.28
		50	50	-	18.2	17.03	17.17	17.24
		100	0	-	18.2	16.97	17.05	17.18
	256QAM	1	0	-	18.2	16.98	17.14	17.22
		1	49	-	18.2	16.92	17.14	17.21
		1	99	-	18.2	17.08	17.16	17.17
50		0	-	18.2	16.94	17.10	17.20	
50		24	-	18.2	17.05	17.13	17.27	
50		50	-	18.2	17.04	17.19	17.23	
100		0	-	18.2	17.02	17.10	17.19	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	132047	132322	132597
						Freq(MHz)		
						1717.5	1745	1772.5
15	QPSK	1	0	-	18.2	16.78	16.94	17.25
		1	37	-	18.2	16.85	16.98	17.27
		1	74	-	18.2	16.88	16.97	17.19
		36	0	-	18.2	16.89	17.10	17.21
		36	19	-	18.2	16.97	17.09	17.31
		36	39	-	18.2	16.95	17.13	17.25
		75	0	-	18.2	16.87	16.94	17.16
	16QAM	1	0	-	18.2	17.18	17.38	17.41
		1	37	-	18.2	17.28	17.44	17.44
		1	74	-	18.2	17.33	17.47	17.47
		36	0	-	18.2	16.94	17.09	17.22
		36	19	-	18.2	17.04	17.16	17.31
		36	39	-	18.2	17.02	17.17	17.25
		75	0	-	18.2	16.99	17.08	17.12
	64QAM	1	0	-	18.2	17.25	17.40	17.68
		1	37	-	18.2	17.27	17.40	17.69
		1	74	-	18.2	17.37	17.38	17.67
		36	0	-	18.2	16.89	17.09	17.22
		36	19	-	18.2	16.99	17.09	17.31
		36	39	-	18.2	17.00	17.14	17.27
		75	0	-	18.2	17.01	17.10	17.17
	256QAM	1	0	-	18.2	17.21	17.39	17.23
		1	37	-	18.2	17.30	17.48	17.18
		1	74	-	18.2	17.29	17.45	17.21
36		0	-	18.2	16.86	17.05	17.24	
36		19	-	18.2	16.98	17.06	17.35	
36		39	-	18.2	16.96	17.15	17.29	
75		0	-	18.2	17.01	17.10	17.18	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	132022	132322	132622
						Freq(MHz)		
						1715	1745	1775
10	QPSK	1	0	-	18.2	16.75	16.86	16.91
		1	24	-	18.2	16.70	16.87	16.94
		1	49	-	18.2	16.78	16.91	16.95
		25	0	-	18.2	16.83	16.91	16.95
		25	12	-	18.2	16.89	16.95	16.98
		25	25	-	18.2	16.90	17.03	17.09
		50	0	-	18.2	16.78	16.86	16.87
	16QAM	1	0	-	18.2	17.10	17.18	17.22
		1	24	-	18.2	17.07	17.19	17.30
		1	49	-	18.2	17.12	17.26	17.29
		25	0	-	18.2	16.87	16.94	16.99
		25	12	-	18.2	16.91	16.98	17.05
		25	25	-	18.2	16.92	17.10	17.15
		50	0	-	18.2	16.91	16.96	17.02
	64QAM	1	0	-	18.2	17.11	17.14	17.26
		1	24	-	18.2	17.08	17.23	17.21
		1	49	-	18.2	17.14	17.32	17.30
		25	0	-	18.2	16.88	16.97	16.99
		25	12	-	18.2	16.93	17.03	17.06
		25	25	-	18.2	16.91	17.07	17.14
		50	0	-	18.2	16.91	16.99	17.04
	256QAM	1	0	-	18.2	17.04	17.10	17.22
		1	24	-	18.2	17.04	17.16	17.28
		1	49	-	18.2	17.16	17.23	17.33
25		0	-	18.2	16.88	16.92	16.99	
25		12	-	18.2	16.93	16.98	17.01	
25		25	-	18.2	16.91	17.07	17.11	
50		0	-	18.2	16.90	16.95	17.01	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	131997	132322	132647
						Freq(MHz)		
						1712.5	1745	1777.5
5	QPSK	1	0	-	18.2	16.91	17.08	17.13
		1	12	-	18.2	16.89	17.05	17.12
		1	24	-	18.2	16.87	17.03	17.08
		12	0	-	18.2	16.96	17.13	17.28
		12	6	-	18.2	17.00	17.12	17.29
		12	13	-	18.2	16.95	17.15	17.23
		25	0	-	18.2	16.89	17.01	17.13
	16QAM	1	0	-	18.2	17.36	17.31	17.44
		1	12	-	18.2	17.34	17.42	17.44
		1	24	-	18.2	17.32	17.40	17.38
		12	0	-	18.2	17.04	17.12	17.28
		12	6	-	18.2	17.05	17.18	17.34
		12	13	-	18.2	16.99	17.20	17.26
		25	0	-	18.2	17.01	17.09	17.24
	64QAM	1	0	-	18.2	17.38	17.30	17.45
		1	12	-	18.2	17.35	17.37	17.44
		1	24	-	18.2	17.35	17.35	17.42
		12	0	-	18.2	16.90	17.15	17.33
		12	6	-	18.2	16.90	17.22	17.34
		12	13	-	18.2	16.90	17.25	17.30
		25	0	-	18.2	16.99	17.14	17.30
	256QAM	1	0	-	18.2	17.09	17.49	17.62
		1	12	-	18.2	17.06	17.54	17.62
		1	24	-	18.2	17.05	17.53	17.54
12		0	-	18.2	17.03	17.14	17.25	
12		6	-	18.2	17.09	17.13	17.29	
12		13	-	18.2	17.04	17.16	17.25	
25		0	-	18.2	16.95	17.08	17.24	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	131987	132322	132657
						Freq(MHz)		
						1711.5	1745	1778.5
3	QPSK	1	0	-	18.2	16.83	16.90	17.13
		1	7	-	18.2	16.94	17.10	17.10
		1	14	-	18.2	16.81	16.97	17.11
		8	0	-	18.2	17.02	17.13	17.22
		8	3	-	18.2	17.03	17.19	17.27
		8	7	-	18.2	17.00	17.15	17.19
		15	0	-	18.2	16.91	17.08	17.12
	16QAM	1	0	-	18.2	16.96	17.15	17.50
		1	7	-	18.2	17.06	17.21	17.40
		1	14	-	18.2	17.03	17.21	17.43
		8	0	-	18.2	16.91	17.01	17.30
		8	3	-	18.2	16.93	17.13	17.34
		8	7	-	18.2	16.87	17.06	17.28
		15	0	-	18.2	16.92	17.06	17.26
	64QAM	1	0	-	18.2	17.24	17.35	17.62
		1	7	-	18.2	17.27	17.41	17.59
		1	14	-	18.2	17.28	17.47	17.59
		8	0	-	18.2	17.10	17.19	17.25
		8	3	-	18.2	17.11	17.24	17.30
		8	7	-	18.2	17.04	17.20	17.25
		15	0	-	18.2	17.00	17.11	17.27
	256QAM	1	0	-	18.2	17.21	17.36	17.54
		1	7	-	18.2	17.14	17.31	17.50
		1	14	-	18.2	17.23	17.40	17.57
8		0	-	18.2	17.07	17.22	17.27	
8		3	-	18.2	17.09	17.30	17.32	
8		7	-	18.2	17.08	17.26	17.26	
15		0	-	18.2	16.98	17.06	17.23	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
66						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	131979	132322	132665
						Freq(MHz)		
						1710.7	1745	1779.3
1.4	QPSK	1	0	-	18.2	16.75	16.86	16.91
		1	2	-	18.2	16.70	16.87	16.94
		1	5	-	18.2	16.78	16.91	16.95
		3	0	-	18.2	16.83	16.91	16.95
		3	1	-	18.2	16.89	16.95	16.98
		3	3	-	18.2	16.90	17.03	17.09
		6	0	-	18.2	16.78	16.86	16.87
	16QAM	1	0	-	18.2	17.10	17.18	17.22
		1	2	-	18.2	17.07	17.19	17.30
		1	5	-	18.2	17.12	17.26	17.29
		3	0	-	18.2	16.87	16.94	16.99
		3	1	-	18.2	16.91	16.98	17.05
		3	3	-	18.2	16.92	17.10	17.15
		6	0	-	18.2	16.91	16.96	17.02
	64QAM	1	0	-	18.2	17.11	17.14	17.26
		1	2	-	18.2	17.08	17.23	17.21
		1	5	-	18.2	17.14	17.32	17.30
		3	0	-	18.2	16.88	16.97	16.99
		3	1	-	18.2	16.93	17.03	17.06
		3	3	-	18.2	16.91	17.07	17.14
		6	0	-	18.2	16.91	16.99	17.04
	256QAM	1	0	-	18.2	17.04	17.10	17.22
		1	2	-	18.2	17.04	17.16	17.28
		1	5	-	18.2	17.16	17.23	17.33
3		0	-	18.2	16.88	16.92	16.99	
3		1	-	18.2	16.93	16.98	17.01	
3		3	-	18.2	16.91	17.07	17.11	
6		0	-	18.2	16.90	16.95	17.01	

*MPR is disabled when power reduction is enabled.

11.3.28 LTE band 71 DSI = 0, Full power

Band						Meas. Pwr Avg (dBm)		
71						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	133222	133297	133372
						Freq(MHz)		
						673	680.5	688
20	QPSK	1	0	0	24.0	-	22.59	-
		1	49	0	24.0	-	22.58	-
		1	99	0	24.0	-	22.62	-
		50	0	1	23.0	-	21.65	-
		50	24	1	23.0	-	21.73	-
		50	50	1	23.0	-	21.68	-
		100	0	1	23.0	-	21.72	-
	16QAM	1	0	1	23.0	-	22.03	-
		1	49	1	23.0	-	21.99	-
		1	99	1	23.0	-	22.07	-
		50	0	2	22.0	-	20.65	-
		50	24	2	22.0	-	20.75	-
		50	50	2	22.0	-	20.70	-
		100	0	2	22.0	-	20.72	-
	64QAM	1	0	2	22.0	-	20.85	-
		1	49	2	22.0	-	20.83	-
		1	99	2	22.0	-	20.92	-
		50	0	3	21.0	-	19.70	-
		50	24	3	21.0	-	19.76	-
		50	50	3	21.0	-	19.74	-
		100	0	3	21.0	-	19.73	-
256QAM	1	0	5	19.0	-	17.61	-	
	1	49	5	19.0	-	17.68	-	
	1	99	5	19.0	-	17.82	-	
	50	0	5	19.0	-	17.68	-	
	50	24	5	19.0	-	17.77	-	
	50	50	5	19.0	-	17.73	-	
	100	0	5	19.0	-	17.72	-	

Band						Meas. Pwr Avg (dBm)		
71						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	133197	133297	133397
						Freq(MHz)		
						670.5	680.5	690.5
15	QPSK	1	0	0	24.0	-	22.61	-
		1	37	0	24.0	-	22.48	-
		1	74	0	24.0	-	22.60	-
		36	0	1	23.0	-	21.69	-
		36	19	1	23.0	-	21.71	-
		36	39	1	23.0	-	21.68	-
		75	0	1	23.0	-	21.67	-
	16QAM	1	0	1	23.0	-	21.93	-
		1	37	1	23.0	-	21.84	-
		1	74	1	23.0	-	21.90	-
		36	0	2	22.0	-	20.71	-
		36	19	2	22.0	-	20.74	-
		36	39	2	22.0	-	20.72	-
		75	0	2	22.0	-	20.73	-
	64QAM	1	0	2	22.0	-	21.04	-
		1	37	2	22.0	-	21.03	-
		1	74	2	22.0	-	21.07	-
		36	0	3	21.0	-	19.68	-
		36	19	3	21.0	-	19.70	-
		36	39	3	21.0	-	19.69	-
		75	0	3	21.0	-	19.72	-
	256QAM	1	0	5	19.0	-	17.82	-
		1	37	5	19.0	-	17.81	-
		1	74	5	19.0	-	17.85	-
36		0	5	19.0	-	17.70	-	
36		19	5	19.0	-	17.71	-	
36		39	5	19.0	-	17.69	-	
75		0	5	19.0	-	17.72	-	

Band						Meas. Pwr Avg (dBm)		
71						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	133172	133297	133422
						Freq(MHz)		
						668	680.5	693
10	QPSK	1	0	0	24.0	22.70	22.57	22.65
		1	24	0	24.0	22.52	22.54	22.62
		1	49	0	24.0	22.53	22.55	22.58
		25	0	1	23.0	21.71	21.64	21.70
		25	12	1	23.0	21.68	21.70	21.72
		25	25	1	23.0	21.63	21.65	21.76
		50	0	1	23.0	21.70	21.62	21.73
	16QAM	1	0	1	23.0	22.03	21.93	21.99
		1	24	1	23.0	21.89	21.89	21.95
		1	49	1	23.0	21.86	21.92	21.87
		25	0	2	22.0	20.75	20.63	20.73
		25	12	2	22.0	20.72	20.74	20.75
		25	25	2	22.0	20.63	20.67	20.79
		50	0	2	22.0	20.66	20.68	20.69
	64QAM	1	0	2	22.0	21.16	21.03	21.11
		1	24	2	22.0	20.90	21.09	21.07
		1	49	2	22.0	21.06	21.16	21.20
		25	0	3	21.0	19.65	19.66	19.73
		25	12	3	21.0	19.49	19.76	19.78
		25	25	3	21.0	19.63	19.68	19.78
		50	0	3	21.0	19.65	19.67	19.75
	256QAM	1	0	5	19.0	18.03	17.88	17.96
		1	24	5	19.0	17.93	17.94	17.99
		1	49	5	19.0	17.92	18.00	18.04
		25	0	5	19.0	17.74	17.66	17.73
		25	12	5	19.0	17.66	17.67	17.72
		25	25	5	19.0	17.58	17.60	17.71
50		0	5	19.0	17.67	17.65	17.69	

Band						Meas. Pwr Avg (dBm)		
71						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	133147	133297	133447
						Freq(MHz)		
						665.5	680.5	695.5
5	QPSK	1	0	0	24.0	22.71	22.55	22.75
		1	12	0	24.0	22.62	22.51	22.74
		1	24	0	24.0	22.55	22.53	22.59
		12	0	1	23.0	21.78	21.65	21.78
		12	6	1	23.0	21.73	21.73	21.75
		12	13	1	23.0	21.62	21.61	21.77
		25	0	1	23.0	21.68	21.69	21.75
	16QAM	1	0	1	23.0	22.15	21.99	22.21
		1	12	1	23.0	22.03	21.89	22.14
		1	24	1	23.0	22.01	21.89	22.09
		12	0	2	22.0	20.82	20.75	20.87
		12	6	2	22.0	20.79	20.77	20.82
		12	13	2	22.0	20.74	20.67	20.80
		25	0	2	22.0	20.77	20.66	20.79
	64QAM	1	0	2	22.0	20.90	20.94	21.28
		1	12	2	22.0	21.00	20.90	21.27
		1	24	2	22.0	20.84	20.87	21.15
		12	0	3	21.0	19.55	19.74	19.76
		12	6	3	21.0	19.57	19.75	19.69
		12	13	3	21.0	19.47	19.75	19.70
		25	0	3	21.0	19.56	19.73	19.76
	256QAM	1	0	5	19.0	17.98	18.17	17.93
		1	12	5	19.0	17.80	18.07	17.91
		1	24	5	19.0	17.73	18.10	17.85
12		0	5	19.0	17.86	17.65	17.86	
12		6	5	19.0	17.82	17.70	17.83	
12		13	5	19.0	17.70	17.64	17.83	
25		0	5	19.0	17.76	17.68	17.76	

11.3.29 LTE band 71 DSI = 1, Reduction Power

Band						Meas. Pwr Avg (dBm)		
71						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	133222	133297	133372
						Freq(MHz)		
						673	680.5	688
20	QPSK	1	0	-	18.8	-	17.38	-
		1	49	-	18.8	-	17.35	-
		1	99	-	18.8	-	17.42	-
		50	0	-	18.8	-	17.45	-
		50	24	-	18.8	-	17.48	-
		50	50	-	18.8	-	17.47	-
		100	0	-	18.8	-	17.41	-
	16QAM	1	0	-	18.8	-	17.79	-
		1	49	-	18.8	-	17.78	-
		1	99	-	18.8	-	17.85	-
		50	0	-	18.8	-	17.46	-
		50	24	-	18.8	-	17.54	-
		50	50	-	18.8	-	17.51	-
		100	0	-	18.8	-	17.50	-
	64QAM	1	0	-	18.8	-	17.66	-
		1	49	-	18.8	-	17.64	-
		1	99	-	18.8	-	17.71	-
		50	0	-	18.8	-	17.49	-
		50	24	-	18.8	-	17.58	-
		50	50	-	18.8	-	17.52	-
		100	0	-	18.8	-	17.53	-
	256QAM	1	0	-	18.8	-	17.38	-
		1	49	-	18.8	-	17.48	-
		1	99	-	18.8	-	17.58	-
50		0	-	18.8	-	17.49	-	
50		24	-	18.8	-	17.56	-	
50		50	-	18.8	-	17.51	-	
100		0	-	18.8	-	17.52	-	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
71						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	133197	133297	133397
						Freq(MHz)		
						670.5	680.5	690.5
15	QPSK	1	0	-	18.8	-	17.39	-
		1	37	-	18.8	-	17.25	-
		1	74	-	18.8	-	17.32	-
		36	0	-	18.8	-	17.48	-
		36	19	-	18.8	-	17.49	-
		36	39	-	18.8	-	17.47	-
		75	0	-	18.8	-	17.38	-
	16QAM	1	0	-	18.8	-	17.70	-
		1	37	-	18.8	-	17.63	-
		1	74	-	18.8	-	17.70	-
		36	0	-	18.8	-	17.45	-
		36	19	-	18.8	-	17.50	-
		36	39	-	18.8	-	17.49	-
		75	0	-	18.8	-	17.51	-
	64QAM	1	0	-	18.8	-	17.64	-
		1	37	-	18.8	-	17.59	-
		1	74	-	18.8	-	17.72	-
		36	0	-	18.8	-	17.50	-
		36	19	-	18.8	-	17.51	-
		36	39	-	18.8	-	17.47	-
		75	0	-	18.8	-	17.48	-
	256QAM	1	0	-	18.8	-	17.59	-
		1	37	-	18.8	-	17.57	-
		1	74	-	18.8	-	17.69	-
36		0	-	18.8	-	17.48	-	
36		19	-	18.8	-	17.51	-	
36		39	-	18.8	-	17.46	-	
75		0	-	18.8	-	17.49	-	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
71						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	133172	133297	133422
						Freq(MHz)		
						668	680.5	693
10	QPSK	1	0	-	18.8	17.47	17.34	17.41
		1	24	-	18.8	17.34	17.30	17.38
		1	49	-	18.8	17.30	17.38	17.37
		25	0	-	18.8	17.49	17.41	17.52
		25	12	-	18.8	17.50	17.52	17.55
		25	25	-	18.8	17.44	17.51	17.57
		50	0	-	18.8	17.40	17.38	17.37
	16QAM	1	0	-	18.8	17.79	17.56	17.63
		1	24	-	18.8	17.64	17.58	17.60
		1	49	-	18.8	17.66	17.61	17.63
		25	0	-	18.8	17.52	17.46	17.51
		25	12	-	18.8	17.48	17.53	17.56
		25	25	-	18.8	17.45	17.51	17.63
		50	0	-	18.8	17.46	17.49	17.53
	64QAM	1	0	-	18.8	17.95	17.77	17.84
		1	24	-	18.8	17.77	17.78	17.80
		1	49	-	18.8	17.72	17.80	17.85
		25	0	-	18.8	17.54	17.47	17.52
		25	12	-	18.8	17.52	17.55	17.58
		25	25	-	18.8	17.48	17.51	17.61
		50	0	-	18.8	17.45	17.50	17.53
	256QAM	1	0	-	18.8	17.85	17.59	17.68
		1	24	-	18.8	17.72	17.60	17.68
		1	49	-	18.8	17.73	17.60	17.69
25		0	-	18.8	17.51	17.48	17.55	
25		12	-	18.8	17.45	17.52	17.54	
25		25	-	18.8	17.33	17.43	17.51	
50		0	-	18.8	17.45	17.45	17.50	

*MPR is disabled when power reduction is enabled.

Band						Meas. Pwr Avg (dBm)		
71						UL Ch #		
BW (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Tune-up Limit (dBm)	133147	133297	133447
						Freq(MHz)		
						665.5	680.5	695.5
5	QPSK	1	0	-	18.8	17.49	17.44	17.48
		1	12	-	18.8	17.40	17.36	17.44
		1	24	-	18.8	17.36	17.40	17.38
		12	0	-	18.8	17.54	17.45	17.54
		12	6	-	18.8	17.55	17.51	17.57
		12	13	-	18.8	17.43	17.42	17.53
		25	0	-	18.8	17.43	17.36	17.38
	16QAM	1	0	-	18.8	17.94	17.78	17.86
		1	12	-	18.8	17.80	17.71	17.82
		1	24	-	18.8	17.77	17.72	17.73
		12	0	-	18.8	17.62	17.52	17.61
		12	6	-	18.8	17.55	17.56	17.60
		12	13	-	18.8	17.50	17.52	17.59
		25	0	-	18.8	17.53	17.46	17.50
	64QAM	1	0	-	18.8	17.94	17.70	17.83
		1	12	-	18.8	17.84	17.65	17.78
		1	24	-	18.8	17.83	17.62	17.71
		12	0	-	18.8	17.46	17.51	17.63
		12	6	-	18.8	17.45	17.55	17.60
		12	13	-	18.8	17.42	17.48	17.59
		25	0	-	18.8	17.53	17.51	17.55
	256QAM	1	0	-	18.8	17.76	17.83	17.97
		1	12	-	18.8	17.57	17.77	17.90
		1	24	-	18.8	17.55	17.76	17.83
12		0	-	18.8	17.64	17.47	17.59	
12		6	-	18.8	17.61	17.51	17.56	
12		13	-	18.8	17.50	17.43	17.54	
25		0	-	18.8	17.55	17.47	17.54	

*MPR is disabled when power reduction is enabled.

11.4 LTE CA

11.4.1 SAR test exclusion for DL CA

The configurations that require power measurements as described in Section 15.1.4 "LTE DLCA Test Reduction Methodology" are highlighted in yellow in the table below. Only yellow highlighted cells need power measurement.

Index	2CC	Restriction	Completely Covered by Measurement Superset
2CC#1	CA_2C		3CC#12, 3CC#13, 3CC#14, 3CC#15, 3CC#45, 3CC#48, 4CC#7, 4CC#27, 4CC#30, 4CC#68, 4CC#99, 5CC#13, 5CC#44
2CC#2	CA_5B		3CC#5, 3CC#16, 3CC#27, 3CC#28, 4CC#7, 4CC#13, 4CC#14, 4CC#37, 4CC#42, 4CC#50, 4CC#69, 4CC#83, 5CC#19, 5CC#20, 5CC#36, 5CC#37, 5CC#57,
2CC#3	CA_7B		No
2CC#4	CA_7C		3CC#6, 3CC#17, 3CC#21, 3CC#31, 3CC#32, 3CC#33, 4CC#16, 4CC#43, 4CC#53, 4CC#54, 4CC#86, 4CC#87, 5CC#60, 5CC#61
2CC#5	CA_12B		3CC#18, 3CC#22, 3CC#29, 3CC#36, 3CC#7, 4CC#38, 4CC#44, 4CC#45, 4CC#51, 4CC#56, 4CC#70, 4CC#71, 4CC#85, 4CC#88, 5CC#53, 5CC#59, 5CC#62
2CC#6	CA_38C		No
2CC#7	CA_41C		3CC#41, 3CC#43, 3CC#44, 3CC#47, 4CC#26, 4CC#27, 4CC#96, 4CC#97, 4CC#98, 5CC#12
2CC#9	CA_48C		3CC#9, 3CC#20, 3CC#24, 3CC#38, 3CC#52, 3CC#55, 3CC#56, 4CC#33, 4CC#34, 4CC#35, 4CC#47, 4CC#58, 4CC#63, 4CC#64, 4CC#72, 4CC#74, 4CC#79, 4CC#80, 4CC#90, 4CC#93, 4CC#104, 4CC#105, 5CC#15, 5CC#28, 5CC#41, 5CC#47, 5CC#48, 5CC#50, 5CC#64, 5CC#65, 5CC#70
2CC#10	CA_66B		3CC#10, 3CC#25, 3CC#39, 3CC#53, 3CC#57, 4CC#13, 4CC#34, 4CC#40, 4CC#48, 4CC#59, 4CC#65, 4CC#75, 4CC#81, 4CC#91, 4CC#94, 4CC#102, 5CC#19, 5CC#36, 5CC#47, 5CC#51, 5CC#54, 5CC#66
2CC#11	CA_66C		3CC#11, 3CC#26, 3CC#35, 3CC#40, 3CC#49, 3CC#54, 3CC#58, 3CC#59, 4CC#14, 4CC#35, 4CC#41, 4CC#49, 4CC#55, 4CC#60, 4CC#66, 4CC#67, 4CC#76, 4CC#82, 4CC#92, 4CC#95, 4CC#103, 5CC#20, 5CC#37, 5CC#48, 5CC#52, 5CC#55, 5CC#67
2CC#12	CA_2A-2A		3CC#60, 3CC#61, 3CC#62, 3CC#63, 3CC#64, 3CC#65, 3CC#66, 3CC#67, 3CC#68, 3CC#69, 4CC#37, 4CC#38, 4CC#39, 4CC#40, 4CC#41, 4CC#106, 4CC#107, 4CC#108, 4CC#109, 4CC#110, 4CC#111, 4CC#112, 4CC#113, 4CC#114, 4CC#115, 4CC#116, 4CC#117, 4CC#118, 4CC#119, 4CC#120, 5CC#17, 5CC#51, 5CC#52, 5CC#53, 5CC#54, 5CC#55, 5CC#72, 5CC#73, 5CC#74, 5CC#75, 5CC#76
2CC#13	CA_2A-4A		3CC#60, 3CC#70, 3CC#71, 3CC#72, 3CC#73, 3CC#74, 3CC#75, 3CC#76, 4CC#42, 4CC#43, 4CC#44, 4CC#106, 4CC#107, 4CC#108, 4CC#109, 4CC#110, 4CC#121, 4CC#122, 4CC#123, 4CC#124, 4CC#125, 4CC#126
2CC#14	CA_2A-5A		3CC#61, 3CC#77, 3CC#78, 3CC#79, 3CC#80, 3CC#81, 4CC#45, 4CC#46, 4CC#47, 4CC#48, 4CC#49, 4CC#111, 4CC#112, 4CC#127, 4CC#128, 4CC#129, 4CC#130, 4CC#131, 5CC#18, 5CC#51, 5CC#52, 5CC#56, 5CC#72, 5CC#73, 5CC#77, 6CC#1, 6CC#8, 6CC#14, 7CC#1, 7CC#4
2CC#15	CA_2A-7A		3CC#62, 3CC#82, 3CC#83, 3CC#84, 3CC#85, 3CC#86, 3CC#87, 4CC#51, 4CC#52, 4CC#113, 4CC#114, 4CC#132, 4CC#133, 4CC#134, 4CC#135, 4CC#136, 4CC#137, 4CC#138, 4CC#139, 5CC#21, 5CC#58, 5CC#59, 5CC#74, 5CC#78, 5CC#79, 6CC#2,
2CC#16	CA_2A-12A		3CC#63, 3CC#88, 3CC#89, 3CC#110, 4CC#55, 4CC#115, 4CC#116, 4CC#126, 4CC#140, 4CC#153, 5CC#75, 6CC#1, 6CC#2, 6CC#3, 6CC#4, 6CC#5, 6CC#6, 6CC#7, 6CC#8, 6CC#9, 6CC#10, 6CC#11, 6CC#12, 6CC#13, 6CC#14, 6CC#15
2CC#17	CA_2A-13A		3CC#64, 3CC#90, 3CC#91, 3CC#92, 4CC#57, 4CC#58, 4CC#59, 4CC#60, 4CC#117, 4CC#141, 5CC#23, 5CC#24, 5CC#63, 5CC#64, 5CC#65, 5CC#66, 5CC#67, 5CC#80, 5CC#81, 6CC#10, 6CC#15, 7CC#5
2CC#18	CA_2A-14A		3CC#65, 3CC#93, 4CC#118, 4CC#145, 5CC#76, 5CC#82
2CC#19	CA_2A-17A		No
2CC#20	CA_2A-29A	B29 SCC only	3CC#66, 3CC#94

Index	2CC	Restriction	Completely Covered by Measurement Superset
2CC#21	CA_2A-46A	B46 SCC only	3CC#67, 3CC#95, 3CC#96, 4CC#61, 4CC#146, 4CC#147, 5CC#25, 5CC#68
2CC#22	CA_2A-48A		3CC#97, 3CC#98, 4CC#63, 4CC#148, 4CC#149, 5CC#27, 5CC#70
2CC#23	CA_2A-66A		3CC#68, 3CC#89, 3CC#99, 3CC#100, 3CC#117, 3CC#126, 3CC#130, 4CC#65, 4CC#66, 4CC#116, 4CC#119, 4CC#120, 4CC#127, 4CC#136, 4CC#140, 4CC#150, 4CC#151, 5CC#54, 5CC#55, 5CC#72, 5CC#74, 5CC#75
2CC#24	CA_2A-71A		3CC#69
2CC#25	CA_4A-4A		3CC#70, 3CC#101, 3CC#102, 3CC#103, 3CC#104, 3CC#105, 3CC#106, 4CC#69, 4CC#70, 4CC#106, 4CC#121, 4CC#122, 4CC#152, 4CC#153
2CC#26	CA_4A-5A		3CC#101, 3CC#107, 3CC#71, 4CC#107, 4CC#121, 4CC#123, 4CC#152, 4CC#71
2CC#27	CA_4A-7A		3CC#72, 3CC#102, 3CC#108, 3CC#109, 4CC#124, 4CC#125
2CC#28	CA_4A-12A		3CC#73, 3CC#103, 3CC#110, 4CC#108, 4CC#122, 4CC#126, 4CC#153
2CC#29	CA_4A-13A		3CC#74, 3CC#104, 3CC#111, 4CC#72, 4CC#109,
2CC#30	CA_4A-17A		No
2CC#31	CA_4A-29A	B29 SCC only	3CC#75, 3CC#105
2CC#32	CA_4A-46A	B46 SCC only	3CC#112, 4CC#73, 5CC#30
2CC#33	CA_4A-48A		3CC#113, 4CC#74
2CC#34	CA_4A-71A		3CC#76, 3CC#106, 4CC#110
2CC#35	CA_5A-5A		3CC#114, 4CC#75, 4CC#76, 4CC#154
2CC#36	CA_5A-7A		3CC#77, 3CC#115, 3CC#116, 4CC#77, 5CC#32
2CC#37	CA_5A-12A		3CC#78, 3CC#107, 3CC#117, 4CC#111, 4CC#123, 4CC#127, 4CC#152, 5CC#72
2CC#38	CA_5A-25A		No
2CC#39	CA_5A-38A		No
2CC#40	CA_5A-41A		No
2CC#41	CA_5A-46A	B46 SCC only	3CC#79, 3CC#116, 3CC#118, 4CC#128, 4CC#155, 5CC#77
2CC#42	CA_5A-48A		3CC#80, 3CC#119, 3CC#120, 4CC#79, 4CC#129, 4CC#130, 4CC#156, 5CC#34
2CC#43	CA_5A-66A		3CC#81, 3CC#114, 3CC#121, 4CC#81, 4CC#82, 4CC#112, 4CC#131, 4CC#154, 5CC#73
2CC#44	CA_7A-7A		3CC#82, 3CC#108, 3CC#115, 3CC#122, 3CC#123, 3CC#124, 3CC#125, 4CC#84, 4CC#124, 4CC#132, 4CC#133, 4CC#134, 4CC#135, 4CC#157, 4CC#158, 5CC#38, 5CC#58, 5CC#78, 5CC#79, 6CC#5, 6CC#9, 7CC#2
2CC#45	CA_7A-12A		3CC#83, 3CC#109, 3CC#126, 4CC#113, 4CC#125, 4CC#136, 5CC#74
2CC#46	CA_7A-13A		3CC#84, 3CC#122, 4CC#132
2CC#47	CA_7A-29A	B29 SCC only	3CC#85, 3CC#123, 3CC#127, 4CC#133, 4CC#137, 4CC#157, 5CC#78
2CC#49	CA_7A-46A	B46 SCC only	3CC#86, 3CC#116, 3CC#124, 3CC#128, 4CC#134, 4CC#138
2CC#50	CA_7A-66A		3CC#87, 3CC#125, 3CC#129, 4CC#114, 4CC#135, 4CC#139, 4CC#158, 5CC#79
2CC#51	CA_12A-12A		3CC#88, 3CC#110, 4CC#115, 4CC#126, 4CC#153
2CC#52	CA_12A-25A		No
2CC#53	CA_12A-46A	B46 SCC only	No
2CC#54	CA_12A-66A		3CC#89, 3CC#117, 3CC#126, 3CC#130, 4CC#116, 4CC#127, 4CC#136, 4CC#140, 5CC#72, 5CC#74, 5CC#75
2CC#55	CA_13A-46A	B46 SCC only	3CC#90, 3CC#131, 4CC#141, 4CC#159, 5CC#80
2CC#56	CA_13A-48A		3CC#90, 3CC#131, 4CC#141, 4CC#159, 5CC#80
2CC#57	CA_13A-66A		3CC#92, 3CC#134, 4CC#94, 4CC#95, 4CC#117, 4CC#144, 4CC#161, 5CC#66, 5CC#67
2CC#58	CA_14A-66A		3CC#93, 3CC#135, 4CC#118, 4CC#145, 4CC#162, 5CC#76, 5CC#82
2CC#59	CA_25A-25A		3CC#136, 3CC#137, 3CC#138, 4CC#96, 5CC#43
2CC#60	CA_25A-26A		3CC#137, 3CC#139, 4CC#97

Index	2CC	Restriction	Completely Covered by Measurement Superset
2CC#61	CA_25A-41A		3CC#138
2CC#62	CA_25A-46A	B46 SCC only	No
2CC#63	CA_26A-41A		3CC#139
2CC#64	CA_26A-46A	B46 SCC only	No
2CC#65	CA_29A-66A	B29 SCC only	3CC#94, 3CC#127, 3CC#140, 4CC#86, 4CC#137, 4CC#157, 5CC#60, 5CC#78
2CC#66	CA_41A-41A		3CC#141, 4CC#98
2CC#68	CA_41A-46A	B46 SCC only	No
2CC#69	CA_41A-48A		No
2CC#71	CA_46A-66A	B46 SCC only	3CC#96, 3CC#118, 3CC#128, 3CC#131, 3CC#143, 3CC#144, 4CC#128, 4CC#138, 4CC#141, 4CC#146, 4CC#147, 4CC#155, 4CC#159, 4CC#163, 5CC#77, 5CC#80
2CC#72	CA_46A-71A	B46 SCC only	No
2CC#73	CA_48A-48A		3CC#97, 3CC#113, 3CC#119, 3CC#132, 3CC#145, 3CC#146, 4CC#102, 4CC#103, 4CC#129, 4CC#142, 4CC#148, 4CC#156, 4CC#160, 4CC#164, 5CC#81
2CC#74	CA_48A-66A		3CC#98, 3CC#120, 3CC#133, 3CC#145, 3CC#147, 4CC#130, 4CC#143, 4CC#148, 4CC#149, 4CC#156, 4CC#160, 4CC#164, 4CC#165, 5CC#81
2CC#75	CA_48A-71A		3CC#146
2CC#76	CA_66A-66A		3CC#99, 3CC#121, 3CC#129, 3CC#130, 3CC#134, 3CC#135, 3CC#140, 3CC#144, 3CC#147, 3CC#148, 3CC#149, 4CC#68, 4CC#83, 4CC#87, 4CC#88, 4CC#101, 4CC#105, 4CC#119, 4CC#131, 4CC#139, 4CC#140, 4CC#144, 4CC#145, 4CC#147, 4CC#149, 4CC#150, 4CC#151, 4CC#154, 4CC#155, 4CC#158, 4CC#159, 4CC#161, 4CC#162, 4CC#163, 4CC#162, 4CC#163, 4CC#164, 4CC#165, 5CC#46, 5CC#57, 5CC#61, 5CC#62, 5CC#69, 5CC#71, 5CC#73, 5CC#75, 5CC#76, 5CC#77, 5CC#79, 5CC#80, 5CC#82, 6CC#7, 6CC#11, 6CC#12, 6CC#13, 6CC#14, 6CC#15, 7CC#3, 7CC#4, 7CC#5
2CC#77	CA_66A-71A		3CC#100, 3CC#149, 4CC#120, 4CC#151

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#1	CA_41D		4CC#120, 4CC#151
3CC#3	CA_48D		4CC#5, 4CC#9, 4CC#11, 4CC#19, 4CC#32, 4CC#36, 5CC#15, 5CC#23, 5CC#27, 5CC#29, 5CC#34, 5CC#35, 5CC#40, 5CC#42, 5CC#49
3CC#4	CA_66D		4CC#6, 4CC#12, 4CC#20, 5CC#24
3CC#5	CA_2A-5B		4CC#37, 4CC#50, 5CC#19, 5CC#20, 5CC#57
3CC#6	CA_2A-7C		4CC#53, 4CC#54, 5CC#60, 5CC#61
3CC#7	CA_2A-12B		4CC#38, 4CC#56, 5CC#53, 5CC#62
3CC#8	CA_2A-46C	B46 SCC only	4CC#39, 4CC#62, 4CC#62
3CC#9	CA_2A-48C		4CC#64, 5CC#28
3CC#10	CA_2A-66B		4CC#40
3CC#11	CA_2A-66C		4CC#41, 4CC#55, 4CC#67
3CC#12	CA_2C-5A		No
3CC#13	CA_2C-12A		No
3CC#14	CA_2C-29A	B29 SCC only	No
3CC#15	CA_2C-66A		4CC#68
3CC#16	CA_4A-5B		4CC#42, 4CC#69
3CC#17	CA_4A-7C		4CC#43
3CC#18	CA_4A-12B		4CC#44, 4CC#70
3CC#19	CA_4A-46C	B46 SCC only	5CC#31
3CC#20	CA_4A-48C		4CC#72, 4CC#74
3CC#21	CA_5A-7C		No
3CC#22	CA_5A-12B		4CC#45, 4CC#71
3CC#23	CA_5A-46C	B46 SCC only	4CC#46, 4CC#78, 5CC#56, 6CC#14
3CC#24	CA_5A-48C		4CC#47, 4CC#80
3CC#25	CA_5A-66B		4CC#48, 4CC#75, 5CC#51
3CC#26	CA_5A-66C		4CC#49, 4CC#76, 5CC#52
3CC#27	CA_5B-46A	B46 SCC only	No
3CC#28	CA_5B-66A		4CC#50, 4CC#83, 5CC#36, 5CC#37, 5CC#57
3CC#29	CA_7A-12B		4CC#51, 4CC#85, 5CC#59
3CC#30	CA_7A-46C	B46 SCC only	4CC#52, 4CC#77, 4CC#84, 5CC#58
3CC#31	CA_7C-29A	B29 SCC only	4CC#53, 4CC#86, 5CC#60
3CC#32	CA_7C-46A	B46 SCC only	No
3CC#33	CA_7C-66A		4CC#54, 4CC#87, 5CC#61
3CC#34	CA_12A-46C	B46 SCC only	No
3CC#35	CA_12A-66C		4CC#55
3CC#36	CA_12B-66A		4CC#56, 4CC#85, 4CC#88, 5CC#53, 5CC#59, 5CC#62
3CC#37	CA_13A-46C	B46 SCC only	4CC#57, 4CC#89, 5CC#63, 5CC#71, 6CC#15
3CC#38	CA_13A-48C		4CC#58, 4CC#72, 4CC#93, 5CC#41, 5CC#65
3CC#39	CA_13A-66B		4CC#59
3CC#40	CA_13A-66C		4CC#60
3CC#41	CA_25A-41C		4CC#96
3CC#42	CA_25A-46C	B46 SCC only	No
3CC#43	CA_26A-41C		4CC#97
3CC#44	CA_41A-41C		4CC#98
3CC#46	CA_41A-46C	B46 SCC only	No
3CC#49	CA_46A-66C	B46 SCC only	No
3CC#50	CA_46C-66A	B46 SCC only	4CC#62, 4CC#78, 4CC#89, 4CC#100, 4CC#101, 5CC#56, 5CC#63, 5CC#68, 5CC#69, 5CC#71, 6CC#14, 6CC#15

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#51	CA_46C-71A	B46 SCC only	No
3CC#52	CA_48A-48C		4CC#63, 4CC#74, 4CC#79, 4CC#90, 4CC#104, 5CC#47, 5CC#48, 5CC#64, 5CC#70
3CC#53	CA_48A-66B		4CC#91, 4CC#102
3CC#54	CA_48A-66C		4CC#92, 4CC#103
3CC#55	CA_48C-66A		4CC#64, 4CC#80, 4CC#93, 4CC#104, 4CC#105, 5CC#50, 5CC#65, 5CC#70
3CC#56	CA_48C-71A		No
3CC#57	CA_66A-66B		4CC#65, 4CC#81, 4CC#94, 5CC#36, 5CC#54, 5CC#66
3CC#58	CA_66A-66C		4CC#66, 4CC#82, 4CC#95, 5CC#37, 5CC#55, 5CC#67
3CC#59	CA_66C-71A		4CC#67
3CC#60	CA_2A-2A-4A		4CC#106, 4CC#107, 4CC#108, 4CC#109, 4CC#110
3CC#61	CA_2A-2A-5A		4CC#111, 4CC#112, 5CC#51, 5CC#52, 5CC#72, 5CC#73
3CC#62	CA_2A-2A-7A		4CC#113, 4CC#114, 5CC#74
3CC#63	CA_2A-2A-12A		4CC#115, 4CC#116, 5CC#75
3CC#64	CA_2A-2A-13A		4CC#117
3CC#65	CA_2A-2A-14A		4CC#118, 5CC#76
3CC#66	CA_2A-2A-29A	B29 SCC only	No
3CC#67	CA_2A-2A-46A	B46 SCC only	No
3CC#68	CA_2A-2A-66A		4CC#119, 4CC#120, 5CC#54, 5CC#55
3CC#69	CA_2A-2A-71A		4CC#110, 4CC#120
3CC#70	CA_2A-4A-4A		4CC#106, 4CC#121, 4CC#122
3CC#71	CA_2A-4A-5A		4CC#107, 4CC#123
3CC#72	CA_2A-4A-7A		4CC#124, 4CC#125
3CC#73	CA_2A-4A-12A		4CC#108, 4CC#126
3CC#74	CA_2A-4A-13A		4CC#109
3CC#75	CA_2A-4A-29A	B29 SCC only	No
3CC#76	CA_2A-4A-71A		4CC#110
3CC#77	CA_2A-5A-7A		No
3CC#78	CA_2A-5A-12A		4CC#111, 4CC#127, 5CC#72
3CC#79	CA_2A-5A-46A	B46 SCC only	4CC#128, 5CC#77
3CC#80	CA_2A-5A-48A		4CC#129, 4CC#130
3CC#81	CA_2A-5A-66A		4CC#112, 4CC#131, 5CC#73
3CC#82	CA_2A-7A-7A		4CC#132, 4CC#133, 4CC#134, 4CC#135, 5CC#58, 5CC#78, 5CC#79, 6CC#9, 7CC#2
3CC#83	CA_2A-7A-12A		4CC#113, 4CC#136, 5CC#74
3CC#84	CA_2A-7A-13A		4CC#132
3CC#85	CA_2A-7A-29A	B29 SCC only	4CC#137
3CC#86	CA_2A-7A-46A	B46 SCC only	4CC#138
3CC#87	CA_2A-7A-66A		4CC#114, 4CC#139
3CC#88	CA_2A-12A-12A		4CC#115
3CC#89	CA_2A-12A-66A		4CC#116, 4CC#140, 5CC#75
3CC#90	CA_2A-13A-46A	B46 SCC only	4CC#141, 5CC#80
3CC#91	CA_2A-13A-48A		4CC#142, 4CC#143, 5CC#64, 5CC#81
3CC#92	CA_2A-13A-66A		4CC#117, 4CC#144, 5CC#66, 5CC#67
3CC#93	CA_2A-14A-66A		4CC#118, 4CC#145, 5CC#76, 5CC#82
3CC#94	CA_2A-29A-66A	B29 SCC only	4CC#137, 5CC#60, 5CC#78
3CC#95	CA_2A-46A-46A	B46 SCC only	4CC#146
3CC#96	CA_2A-46A-66A	B46 SCC only	4CC#147
3CC#97	CA_2A-48A-48A		4CC#148
3CC#98	CA_2A-48A-66A		4CC#149
3CC#99	CA_2A-66A-66A		4CC#119, 4CC#140, 4CC#150, 4CC#151, 5CC#75
3CC#100	CA_2A-66A-71A		4CC#120

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3CC#101	CA_4A-4A-5A		4CC#121, 4CC#152
3CC#102	CA_4A-4A-7A		No
3CC#103	CA_4A-4A-12A		4CC#122, 4CC#153
3CC#104	CA_4A-4A-13A		No
3CC#105	CA_4A-4A-29A	B29 SCC only	No
3CC#106	CA_4A-4A-71A		No
3CC#107	CA_4A-5A-12A		4CC#123, 4CC#152
3CC#108	CA_4A-7A-7A		4CC#124
3CC#109	CA_4A-7A-12A		4CC#125
3CC#110	CA_4A-12A-12A		4CC#126, 4CC#153
3CC#111	CA_4A-13A-48A		No
3CC#112	CA_4A-46A-46A	B46 SCC only	No
3CC#113	CA_4A-48A-48A		No
3CC#114	CA_5A-5A-66A		4CC#154
3CC#115	CA_5A-7A-7A		No
3CC#116	CA_5A-7A-46A	B46 SCC only	No
3CC#117	CA_5A-12A-66A		4CC#127, 5CC#72
3CC#118	CA_5A-46A-66A	B46 SCC only	4CC#128, 4CC#155, 5CC#77
3CC#119	CA_5A-48A-48A		4CC#129, 4CC#156
3CC#120	CA_5A-48A-66A		4CC#130, 4CC#156
3CC#121	CA_5A-66A-66A		4CC#131, 4CC#154, 4CC#155, 5CC#73, 5CC#77, 6CC#12, 6CC#14, 7CC#3, 7CC#4
3CC#122	CA_7A-7A-13A		4CC#132
3CC#123	CA_7A-7A-29A	B29 SCC only	4CC#133, 4CC#157, 5CC#78
3CC#124	CA_7A-7A-46A	B46 SCC only	4CC#134
3CC#125	CA_7A-7A-66A		4CC#135, 4CC#157, 4CC#158, 5CC#78, 5CC#79
3CC#126	CA_7A-12A-66A		4CC#136, 5CC#74
3CC#127	CA_7A-29A-66A	B29 SCC only	4CC#137, 4CC#157, 5CC#78
3CC#128	CA_7A-46A-66A	B46 SCC only	4CC#138
3CC#129	CA_7A-66A-66A		4CC#139, 4CC#158, 5CC#79
3CC#130	CA_12A-66A-66A		4CC#140, 5CC#75
3CC#131	CA_13A-46A-66A	B46 SCC only	4CC#141, 4CC#159, 5CC#80
3CC#132	CA_13A-48A-48A		4CC#142, 4CC#160, 5CC#81
3CC#133	CA_13A-48A-66A		4CC#143, 4CC#160, 5CC#81
3CC#134	CA_13A-66A-66A		4CC#144, 4CC#159, 4CC#161, 5CC#71, 5CC#80, 6CC#13, 6CC#15, 7CC#5
3CC#135	CA_14A-66A-66A		4CC#145, 4CC#162, 5CC#76, 5CC#82
3CC#136	CA_25A-25A-25A		No
3CC#137	CA_25A-25A-26A		No
3CC#138	CA_25A-25A-41A		No
3CC#139	CA_25A-26A-41A		No
3CC#140	CA_29A-66A-66A	B29 SCC only	No
3CC#141	CA_41A-41A-41A		No
3CC#143	CA_46A-46A-66A	B46 SCC only	4CC#146
3CC#144	CA_46A-66A-66A	B46 SCC only	4CC#147, 4CC#155, 4CC#159, 4CC#163, 5CC#77, 5CC#80
3CC#145	CA_48A-48A-66A		4CC#148, 4CC#156, 4CC#160, 4CC#164, 5CC#81
3CC#146	CA_48A-48A-71A		No
3CC#147	CA_48A-66A-66A		4CC#149, 4CC#164, 4CC#165
3CC#148	CA_66A-66A-66A		4CC#150, 4CC#161, 4CC#162, 4CC#163, 4CC#165, 5CC#82
3CC#149	CA_66A-66A-71A		4CC#151

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4CC#1	CA_41E		No
4CC#3	CA_48E		5CC#3, 5CC#4, 5CC#10, 5CC#16, 6CC#6
4CC#4	CA_2A-46D	B46 SCC only	5CC#17, 5CC#18, 5CC#21, 5CC#22, 5CC#25, 5CC#26, 6CC#8, 6CC#9, 6CC#10, 6CC#11, 7CC#4, 7CC#5
4CC#5	CA_2A-48D		5CC#23, 5CC#27, 5CC#29
4CC#6	CA_2A-66D		5CC#24
4CC#7	CA_2C-5B		No
4CC#8	CA_4A-46D	B46 SCC only	5CC#30
4CC#9	CA_4A-48D		No
4CC#10	CA_5A-46D	B46 SCC only	5CC#18, 5CC#32, 5CC#33, 6CC#8, 6CC#12, 7CC#4
4CC#11	CA_5A-48D		5CC#34, 5CC#35
4CC#12	CA_5A-66D		No
4CC#13	CA_5B-66B		5CC#19, 5CC#36
4CC#14	CA_5B-66C		5CC#20, 5CC#37
4CC#15	CA_7A-46D	B46 SCC only	5CC#21, 5CC#32, 5CC#38, 6CC#9
4CC#16	CA_7C-46C	B46 SCC only	No
4CC#17	CA_12A-46D	B46 SCC only	No
4CC#18	CA_13A-46D	B46 SCC only	5CC#22, 5CC#39, 6CC#10, 6CC#13, 7CC#5
4CC#19	CA_13A-48D		5CC#23, 5CC#40, 5CC#42
4CC#20	CA_13A-66D		5CC#24
4CC#21	CA_25A-41D		5CC#43
4CC#22	CA_25A-46D	B46 SCC only	No
4CC#23	CA_41A-41D		No
4CC#25	CA_41A-46D	B46 SCC only	No
4CC#26	CA_41C-41C		No
4CC#31	CA_46D-66A	B46 SCC only	5CC#26, 5CC#33, 5CC#39, 5CC#45, 5CC#46, 6CC#8, 6CC#10, 6CC#11, 6CC#12, 6CC#13, 7CC#4, 7CC#5
4CC#32	CA_48A-48D		5CC#27, 5CC#34, 5CC#40, 5CC#49
4CC#33	CA_48C-48C		5CC#28, 5CC#41, 5CC#50
4CC#34	CA_48C-66B		5CC#47
4CC#35	CA_48C-66C		5CC#48
4CC#36	CA_48D-66A		5CC#29, 5CC#35, 5CC#42, 5CC#49
4CC#37	CA_2A-2A-5B		No
4CC#38	CA_2A-2A-12B		5CC#53
4CC#39	CA_2A-2A-46C	B46 SCC only	No
4CC#40	CA_2A-2A-66B		5CC#51, 5CC#54

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4CC#41	CA_2A-2A-66C		5CC#52, 5CC#55
4CC#42	CA_2A-4A-5B		No
4CC#43	CA_2A-4A-7C		No
4CC#44	CA_2A-4A-12B		No
4CC#45	CA_2A-5A-12B		No
4CC#46	CA_2A-5A-46C	B46 SCC only	5CC#56, 6CC#14
4CC#47	CA_2A-5A-48C		No
4CC#48	CA_2A-5A-66B		5CC#51
4CC#49	CA_2A-5A-66C		5CC#52
4CC#50	CA_2A-5B-66A		5CC#57
4CC#51	CA_2A-7A-12B		5CC#59
4CC#52	CA_2A-7A-46C	B46 SCC only	5CC#58
4CC#53	CA_2A-7C-29A	B29 SCC only	5CC#60
4CC#54	CA_2A-7C-66A		5CC#60
4CC#55	CA_2A-12A-66C		No
4CC#56	CA_2A-12B-66A		5CC#53, 5CC#59, 5CC#62
4CC#57	CA_2A-13A-46C	B46 SCC only	5CC#63, 6CC#15
4CC#58	CA_2A-13A-48C		5CC#64, 5CC#65
4CC#59	CA_2A-13A-66B		5CC#66
4CC#60	CA_2A-13A-66C		5CC#67
4CC#61	CA_2A-46A-46C	B46 SCC only	5CC#68
4CC#62	CA_2A-46C-66A	B46 SCC only	5CC#56, 5CC#63, 5CC#68, 5CC#69, 6CC#14, 6CC#15
4CC#63	CA_2A-48A-48C		5CC#64, 5CC#70
4CC#64	CA_2A-48C-66A		5CC#65, 5CC#70
4CC#65	CA_2A-66A-66B		5CC#54, 5CC#66
4CC#66	CA_2A-66A-66C		5CC#55, 5CC#67
4CC#67	CA_2A-66C-71A		No
4CC#68	CA_2C-66A-66A		No
4CC#69	CA_4A-4A-5B		No
4CC#70	CA_4A-4A-12B		No
4CC#71	CA_4A-5A-12B		No
4CC#72	CA_4A-13A-48C		No
4CC#73	CA_4A-46A-46C	B46 SCC only	No
4CC#74	CA_4A-48A-48C		No
4CC#75	CA_5A-5A-66B		No
4CC#76	CA_5A-5A-66C		No
4CC#77	CA_5A-7A-46C	B46 SCC only	No
4CC#78	CA_5A-46C-66A	B46 SCC only	5CC#56, 6CC#14
4CC#79	CA_5A-48A-48C		No
4CC#80	CA_5A-48C-66A		No

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4CC#81	CA_5A-66A-66B		No
4CC#82	CA_5A-66A-66C		No
4CC#83	CA_5B-66A-66A		5CC#57
4CC#84	CA_7A-7A-46C	B46 SCC only	5CC#58
4CC#85	CA_7A-12B-66A		5CC#59
4CC#86	CA_7C-29A-66A	B29 SCC only	5CC#60
4CC#87	CA_7C-66A-66A		5CC#61
4CC#88	CA_12B-66A-66A		5CC#62
4CC#89	CA_13A-46C-66A	B46 SCC only	5CC#63, 5CC#71, 6CC#15
4CC#90	CA_13A-48A-48C		5CC#64
4CC#91	CA_13A-48A-66B		No
4CC#92	CA_13A-48A-66C		No
4CC#93	CA_13A-48C-66A		5CC#65
4CC#94	CA_13A-66A-66B		5CC#65
4CC#95	CA_13A-66A-66C		5CC#67
4CC#96	CA_25A-25A-41C		No
4CC#97	CA_25A-26A-41C		No
4CC#98	CA_41A-41A-41C		No
4CC#100	CA_46A-46C-66A	B46 SCC only	5CC#68
4CC#101	CA_46C-66A-66A	B46 SCC only	5CC#69, 5CC#71, 6CC#14, 6CC#15
4CC#102	CA_48A-48A-66B		No
4CC#103	CA_48A-48A-66C		No
4CC#104	CA_48A-48C-66A		5CC#70
4CC#105	CA_48C-66A-66A		No
4CC#106	CA_2A-2A-4A-4A		No
4CC#107	CA_2A-2A-4A-5A		No
4CC#108	CA_2A-2A-4A-12A		No
4CC#109	CA_2A-2A-4A-13A		No
4CC#110	CA_2A-2A-4A-71A		No
4CC#111	CA_2A-2A-5A-12A		5CC#72
4CC#112	CA_2A-2A-5A-66A		5CC#72, 5CC#73
4CC#113	CA_2A-2A-7A-12A		5CC#74
4CC#114	CA_2A-2A-7A-66A		5CC#74
4CC#115	CA_2A-2A-12A-12A		No
4CC#116	CA_2A-2A-12A-66A		5CC#72, 5CC#74, 5CC#75
4CC#117	CA_2A-2A-13A-66A		No
4CC#118	CA_2A-2A-14A-66A		5CC#76
4CC#119	CA_2A-2A-66A-66A		5CC#73, 5CC#75, 5CC#76
4CC#120	CA_2A-2A-66A-71A		No

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#121	CA_2A-4A-4A-5A		No
4CC#122	CA_2A-4A-4A-12A		No
4CC#123	CA_2A-4A-5A-12A		No
4CC#124	CA_2A-4A-7A-7A		No
4CC#125	CA_2A-4A-7A-12A		No
4CC#126	CA_2A-4A-12A-12A		No
4CC#127	CA_2A-5A-12A-66A		5CC#72
4CC#128	CA_2A-5A-46A-66A	B46 SCC only	5CC#77
4CC#129	CA_2A-5A-48A-48A		No
4CC#130	CA_2A-5A-48A-66A		No
4CC#131	CA_2A-5A-66A-66A		5CC#73, 5CC#77, 6CC#14, 7CC#4
4CC#132	CA_2A-7A-7A-13A		No
4CC#133	CA_2A-7A-7A-29A	B29 SCC only	5CC#78
4CC#134	CA_2A-7A-7A-46A	B46 SCC only	No
4CC#135	CA_2A-7A-7A-66A		5CC#78, 5CC#79
4CC#136	CA_2A-7A-12A-66A		5CC#74
4CC#137	CA_2A-7A-29A-66A	B29 SCC only	5CC#78
4CC#138	CA_2A-7A-46A-66A	B46 SCC only	No
4CC#139	CA_2A-7A-66A-66A		5CC#79
4CC#140	CA_2A-12A-66A-66A		5CC#75
4CC#141	CA_2A-13A-46A-66A	B46 SCC only	5CC#80
4CC#142	CA_2A-13A-48A-48A		5CC#81
4CC#143	CA_2A-13A-48A-66A		5CC#81
4CC#144	CA_2A-13A-66A-66A		5CC#80, 6CC#15, 7CC#5
4CC#145	CA_2A-14A-66A-66A		5CC#76, 5CC#82
4CC#146	CA_2A-46A-46A-66A	B46 SCC only	No
4CC#147	CA_2A-46A-66A-66A	B46 SCC only	5CC#77, 5CC#80
4CC#148	CA_2A-48A-48A-66A		5CC#81
4CC#149	CA_2A-48A-66A-66A		No
4CC#150	CA_2A-66A-66A-66A		5CC#82
4CC#151	CA_2A-66A-66A-71A		No
4CC#152	CA_4A-4A-5A-12A		No
4CC#153	CA_4A-4A-12A-12A		No
4CC#154	CA_5A-5A-66A-66A		No
4CC#155	CA_5A-46A-66A-66A	B46 SCC only	5CC#77
4CC#156	CA_5A-48A-48A-66A		No
4CC#157	CA_7A-7A-29A-66A	B29 SCC only	5CC#78
4CC#158	CA_7A-7A-66A-66A		5CC#79
4CC#159	CA_13A-46A-66A-66A	B46 SCC only	5CC#80
4CC#160	CA_13A-48A-48A-66A		5CC#81
4CC#161	CA_13A-66A-66A-66A		No
4CC#162	CA_14A-66A-66A-66A		5CC#82
4CC#163	CA_46A-66A-66A-66A	B46 SCC only	No
4CC#164	CA_48A-48A-66A-66A		No
4CC#165	CA_48A-66A-66A-66A		No

Index	5CC	Restriction	Completely Covered by Measurement Superset
5CC#1	CA_48F		No
5CC#2	CA_2A-46E	B46 SCC only	6CC#1, 6CC#2, 6CC#3, 7CC#1, 7CC#2
5CC#3	CA_2A-48E		No
5CC#4	CA_4A-48E		No
5CC#5	CA_5A-46E	B46 SCC only	6CC#1, 6CC#4, 7CC#1, 7CC#3
5CC#6	CA_7A-46E	B46 SCC only	6CC#2, 6CC#5, 7CC#2
5CC#7	CA_7C-46D	B46 SCC only	No
5CC#8	CA_12A-46E	B46 SCC only	No
5CC#9	CA_13A-46E	B46 SCC only	No
5CC#10	CA_13A-48E		6CC#6
5CC#11	CA_41A-46E	B46 SCC only	No
5CC#12	CA_41C-41D		No
5CC#14	CA_46E-66A	B46 SCC only	6CC#3, 6CC#4, 6CC#7, 7CC#1, 7CC#3
5CC#15	CA_48C-48D		No
5CC#16	CA_48E-66A		6CC#6
5CC#17	CA_2A-2A-46D	B46 SCC only	No
5CC#18	CA_2A-5A-46D	B46 SCC only	6CC#8, 7CC#4
5CC#19	CA_2A-5B-66B		No
5CC#20	CA_2A-5B-66C		No
5CC#21	CA_2A-7A-46D	B46 SCC only	6CC#9
5CC#22	CA_2A-13A-46D	B46 SCC only	6CC#10, 7CC#5
5CC#23	CA_2A-13A-48D		No
5CC#24	CA_2A-13A-66D		No
5CC#25	CA_2A-46A-46D	B46 SCC only	No
5CC#26	CA_2A-46D-66A	B46 SCC only	6CC#8, 6CC#10, 6CC#11, 7CC#4, 7CC#5
5CC#27	CA_2A-48A-48D		No
5CC#28	CA_2A-48C-48C		No
5CC#29	CA_2A-48D-66A		No
5CC#30	CA_4A-46A-46D	B46 SCC only	No
5CC#31	CA_4A-46C-46C	B46 SCC only	No
5CC#32	CA_5A-7A-46D	B46 SCC only	No
5CC#33	CA_5A-46D-66A	B46 SCC only	6CC#8, 6CC#12, 7CC#4
5CC#34	CA_5A-48A-48D		No
5CC#35	CA_5A-48D-66A		No
5CC#36	CA_5B-66A-66B		No
5CC#37	CA_5B-66A-66C		No
5CC#38	CA_7A-7A-46D	B46 SCC only	6CC#9
5CC#39	CA_13A-46D-66A	B46 SCC only	6CC#10, 6CC#13, 7CC#5
5CC#40	CA_13A-48A-48D		No

Index	5CC	Restriction	Completely Covered by Measurement Superset
5CC#41	CA_13A-48C-48C		No
5CC#42	CA_13A-48D-66A		No
5CC#43	CA_25A-25A-41D		No
5CC#45	CA_46A-46D-66A	B46 SCC only	No
5CC#46	CA_46D-66A-66A	B46 SCC only	6CC#11, 6CC#12, 6CC#13, 7CC#4, 7CC#5
5CC#47	CA_48A-48C-66B		No
5CC#48	CA_48A-48C-66C		No
5CC#49	CA_48A-48D-66A		No
5CC#50	CA_48C-48C-66A		No
5CC#51	CA_2A-2A-5A-66B		No
5CC#52	CA_2A-2A-5A-66C		No
5CC#53	CA_2A-2A-12B-66A		No
5CC#54	CA_2A-2A-66A-66B		No
5CC#55	CA_2A-2A-66A-66C		No
5CC#56	CA_2A-5A-46C-66A	B46 SCC only	6CC#14
5CC#57	CA_2A-5B-66A-66A		No
5CC#58	CA_2A-7A-7A-46C	B46 SCC only	No
5CC#59	CA_2A-7A-12B-66A		No
5CC#60	CA_2A-7C-29A-66A	B29 SCC only	No
5CC#61	CA_2A-7C-66A-66A		No
5CC#62	CA_2A-12B-66A-66A		No
5CC#63	CA_2A-13A-46C-66A	B46 SCC only	6CC#15
5CC#64	CA_2A-13A-48A-48C		No
5CC#65	CA_2A-13A-48C-66A		No
5CC#66	CA_2A-13A-66A-66B		No
5CC#67	CA_2A-13A-66A-66C		No
5CC#68	CA_2A-46A-46C-66A	B46 SCC only	No
5CC#69	CA_2A-46C-66A-66A	B46 SCC only	6CC#14, 6CC#15
5CC#70	CA_2A-48A-48C-66A		No
5CC#71	CA_13A-46C-66A-66A	B46 SCC only	6CC#15
5CC#72	CA_2A-2A-5A-12A-66A		No
5CC#73	CA_2A-2A-5A-66A-66A		No
5CC#74	CA_2A-2A-7A-12A-66A		No
5CC#75	CA_2A-2A-12A-66A-66A		No
5CC#76	CA_2A-2A-14A-66A-66A		No
5CC#77	CA_2A-5A-46A-66A-66A	B46 SCC only	No
5CC#78	CA_2A-7A-7A-29A-66A	B29 SCC only	No
5CC#79	CA_2A-7A-7A-66A-66A		No
5CC#80	CA_2A-13A-46A-66A-66A	B46 SCC only	No

Index	5CC	Restriction	Completely Covered by Measurement Superset
5CC#81	CA_2A-13A-48A-48A-66A		No
5CC#82	CA_2A-14A-66A-66A-66A		No
5CC#83	CA_5A-46C-66A-66A	B46 SCC only	6CC#14

Index	6CC	Restriction	Completely Covered by Measurement Superset
6CC#1	CA_2A-5A-46E	B46 SCC only	7CC#1
6CC#2	CA_2A-7A-46E	B46 SCC only	7CC#2
6CC#3	CA_2A-46E-66A	B46 SCC only	7CC#1
6CC#4	CA_5A-46E-66A	B46 SCC only	7CC#1, 7CC#3
6CC#5	CA_7A-7A-46E	B46 SCC only	7CC#2
6CC#6	CA_13A-48E-66A		No
6CC#7	CA_46E-66A-66A	B46 SCC only	7CC#3
6CC#8	CA_2A-5A-46D-66A	B46 SCC only	7CC#4
6CC#9	CA_2A-7A-7A-46D	B46 SCC only	No
6CC#10	CA_2A-13A-46D-66A	B46 SCC only	7CC#5
6CC#11	CA_2A-46D-66A-66A	B46 SCC only	7CC#4, 7CC#5
6CC#12	CA_5A-46D-66A-66A	B46 SCC only	7CC#4
6CC#13	CA_13A-46D-66A-66A	B46 SCC only	7CC#5
6CC#14	CA_2A-5A-46C-66A-66A	B46 SCC only	No
6CC#15	CA_2A-13A-46C-66A-66A	B46 SCC only	No

Index	7CC	Restriction	Completely Covered by Measurement Superset
7CC#1	CA_2A-5A-46E-66A	B46 SCC only	
7CC#2	CA_2A-7A-7A-46E	B46 SCC only	
7CC#3	CA_5A-46E-66A-66A	B46 SCC only	
7CC#4	CA_2A-5A-46D-66A-66A	B46 SCC only	
7CC#5	CA_2A-13A-46D-66A-66A	B46 SCC only	

11.4.2 DL CA power measurement

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only.

All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

This device supports LAA with downlink carrier aggregation only. It uses carrier aggregation in the downlink to combine LTE in the unlicensed spectrum (i.e. LTE Band 46) with LTE in the licensed band (served as PCC). All uplink communications and acknowledgements on the PCC remain identical to specifications when downlink carrier aggregation is inactive.

Conducted power was evaluated as described in Sections 11.1.4 “General PCC and SCC configuration selection procedure:” and “Downlink CA with Downlink 4x4 MIMO RF Conducted Powers:”.

11.4.2.2 LTE Band 4 as PCC

Index	Combination	PCC										SCC 1			SCC 2			SCC 3			SCC 4			Power (dBm)		Delta (dB)				
		Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	UL FRB / Mod.	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	DL CA Enabled	PCC DL 4x4 MIMO	DL CA Enabled	PCC DL 4x4 MIMO	Carrier	Single Carrier
2CC30	CA-1A-17A	4	5	20375	17475	QPSK	1	24	2375	2352.5	17	10	5700	740	-	-	-	-	-	-	-	-	-	-	-	22.78	22.77	22.75	0.03	0.02
3CC475	CA-2A-4A-29A	4	15	20325	17475	QPSK	1	0	2325	2477.5	2	20	900	1960	29	10	9715	722.5	-	-	-	-	-	-	-	22.76	22.75	22.81	-0.05	-0.05
3CC476	CA-4A-4A-7A(1)	4	15	20325	17475	QPSK	1	0	2325	2477.5	4	20	2050	2120	7	20	3100	2655	-	-	-	-	-	-	22.71	22.72	22.81	-0.10	-0.09	
3CC477	CA-4A-4A-19A	4	15	20325	17475	QPSK	1	0	2325	2477.5	4	20	2050	2120	13	10	5820	751	-	-	-	-	-	-	22.80	22.79	22.81	-0.01	-0.02	
3CC478	CA-4A-4A-29A	4	15	20325	17475	QPSK	1	0	2325	2477.5	4	20	2050	2120	29	10	9715	722.5	-	-	-	-	-	-	22.82	22.82	22.81	0.01	0.01	
3CC479	CA-4A-4A-71A	4	15	20325	17475	QPSK	1	0	2325	2477.5	4	20	2050	2120	71	10	6961	634.5	-	-	-	-	-	-	22.85	22.85	22.81	0.04	0.04	
3CC480	CA-4A-4A-48A	4	15	20325	17475	QPSK	1	0	2325	2477.5	13	10	5300	751	48	20	5590	3625	-	-	-	-	-	-	22.81	22.82	22.81	0.00	0.01	
3CC481	CA-4A-6A-46A	4	15	20325	17475	QPSK	1	0	2325	2477.5	46	20	4890	5160	46	20	4890	5160	-	-	-	-	-	-	22.80	22.82	22.81	0.00	0.00	
3CC482	CA-4A-6A-48A	4	15	20325	17475	QPSK	1	0	2325	2477.5	48	20	5590	3625	48	20	5540	3580	-	-	-	-	-	-	22.80	22.82	22.81	-0.01	0.01	
4CC483	CA-2A-4A-5B	4	15	20325	17475	QPSK	1	0	2325	2477.5	48	20	5590	3625	48	20	5592	3662	48	20	56188	3644.8	-	-	22.81	22.85	22.81	0.00	0.02	
4CC484	CA-2A-4A-5B	4	15	20325	17475	QPSK	1	0	2325	2477.5	2	20	900	1960	5	10	2450	874	5	10	2549	883.9	-	-	22.85	22.86	22.81	0.04	0.05	
4CC485	CA-2A-4A-7C	4	15	20325	17475	QPSK	1	0	2325	2477.5	2	20	900	1960	7	20	3100	2655	7	20	2902	2635.2	-	-	22.78	22.79	22.81	-0.03	-0.02	
4CC486	CA-2A-4A-12B	4	15	20325	17475	QPSK	1	0	2325	2477.5	2	20	900	1960	12	10	5130	741	12	5	5058	738.8	-	-	22.73	22.78	22.81	-0.08	-0.03	
4CC487	CA-4A-4A-5B	4	15	20325	17475	QPSK	1	0	2325	2477.5	4	20	2050	2120	5	10	2450	874	5	10	2549	883.9	-	-	22.81	22.83	22.81	0.10	0.12	
4CC470	CA-4A-4A-12B	4	15	20325	17475	QPSK	1	0	2325	2477.5	4	20	2050	2120	12	10	5130	741	12	5	5058	738.8	-	-	22.86	22.87	22.81	0.05	0.06	
4CC471	CA-4A-5A-12B	4	15	20325	17475	QPSK	1	0	2325	2477.5	5	10	5300	751	12	10	5300	741	12	5	5058	738.8	-	-	22.86	22.87	22.81	0.05	0.06	
4CC472	CA-4A-13A-48C	4	15	20325	17475	QPSK	1	0	2325	2477.5	13	10	5200	751	48	20	5590	3625	48	20	55792	3605.2	-	-	22.80	22.81	22.81	-0.01	0.00	
4CC473	CA-4A-6A-46C	4	15	20325	17475	QPSK	1	0	2325	2477.5	46	20	50665	5537.5	46	20	4890	5160	46	20	47088	5179.8	-	-	22.80	22.72	22.81	-0.01	-0.09	
4CC474	CA-4A-6A-48C	4	15	20325	17475	QPSK	1	0	2325	2477.5	48	20	5590	3625	48	20	55340	3640	48	20	55538	3679.8	-	-	22.87	22.86	22.81	0.06	0.05	
4CC475	CA-2A-2A-4A-4A	4	15	20325	17475	QPSK	1	0	2325	2477.5	2	20	900	1960	2	20	700	1940	4	20	2050	2120	-	-	22.88	22.89	22.81	0.07	0.08	
4CC476	CA-2A-2A-4A-5A	4	15	20325	17475	QPSK	1	0	2325	2477.5	2	20	900	1960	2	20	700	1940	4	20	2050	2120	-	-	22.79	22.80	22.81	-0.02	-0.01	
4CC477	CA-2A-2A-4A-12A	4	15	20325	17475	QPSK	1	0	2325	2477.5	2	20	900	1960	2	20	700	1940	12	10	5095	737.5	-	-	22.80	22.81	22.81	-0.01	0.00	
4CC478	CA-2A-2A-4A-19A	4	15	20325	17475	QPSK	1	0	2325	2477.5	2	20	900	1960	2	20	700	1940	13	10	5200	751	-	-	22.83	22.85	22.81	0.02	0.04	
4CC479	CA-2A-2A-4A-71A	4	15	20325	17475	QPSK	1	0	2325	2477.5	2	20	900	1960	2	20	700	1940	71	20	68761	634.5	-	-	22.85	22.86	22.81	0.04	0.00	
4CC4121	CA-2A-4A-4A-5A	4	15	20325	17475	QPSK	1	0	2325	2477.5	2	20	900	1960	2	20	2050	2120	5	10	2525	861.5	-	-	22.88	22.89	22.81	0.07	0.08	
4CC4122	CA-2A-4A-4A-12A	4	15	20325	17475	QPSK	1	0	2325	2477.5	2	20	900	1960	2	20	2050	2120	12	10	5095	737.5	-	-	22.89	22.91	22.81	0.08	0.10	
4CC4123	CA-2A-4A-5A-12A	4	15	20325	17475	QPSK	1	0	2325	2477.5	2	20	900	1960	5	10	2525	861.5	12	10	2525	861.5	-	-	22.77	22.74	22.81	-0.04	-0.07	
4CC4124	CA-2A-4A-7A-1A	4	15	20325	17475	QPSK	1	0	2325	2477.5	2	20	900	1960	7	20	3100	2655	7	20	2850	2630	-	-	22.88	22.88	22.81	0.07	0.07	
4CC4125	CA-2A-4A-7A-12A	4	15	20325	17475	QPSK	1	0	2325	2477.5	2	20	900	1960	7	20	3100	2655	12	10	5095	737.5	-	-	22.71	22.73	22.81	-0.10	-0.08	
4CC4126	CA-2A-4A-12A-12A	4	15	20325	17475	QPSK	1	0	2325	2477.5	2	20	900	1960	12	5	5095	737.5	12	5	5095	737.5	-	-	22.79	22.82	22.81	-0.02	0.01	
4CC4127	CA-4A-4A-5A-12A	4	15	20325	17475	QPSK	1	0	2325	2477.5	4	20	2050	2120	5	10	2525	861.5	12	10	2525	861.5	-	-	22.89	22.92	22.81	0.08	0.11	
4CC4128	CA-4A-4A-12A-12A	4	15	20325	17475	QPSK	1	0	2325	2477.5	4	20	2050	2120	12	5	5095	737.5	12	5	5095	737.5	-	-	22.90	22.88	22.81	0.09	0.07	
5CC44	CA-4A-4A-48E	4	15	20325	17475	QPSK	1	0	2325	2477.5	48	20	5590	3625	48	20	5592	3662	48	20	56188	3644.8	-	-	22.90	22.87	22.81	0.09	0.06	
5CC430	CA-4A-6A-46D	4	15	20325	17475	QPSK	1	0	2325	2477.5	46	20	50665	5537.5	46	20	4890	5160	46	20	47088	5179.8	-	-	22.81	22.82	22.81	0.00	0.01	
5CC431	CA-4A-6A-46C	4	15	20325	17475	QPSK	1	0	2325	2477.5	46	20	50665	5537.5	46	20	50467	5517.7	46	20	46890	5160	-	-	22.89	22.90	22.81	0.08	0.09	

11.4.2.6 LTE Band 13 as PCC

Index	Combination	PCC				SCC1				SCC2				SCC3				SCC4				SCC5				SCC6				Power (dBm)				Delta (dB)	
		UL Freq. [MHz]	UL Ch.	UL FRB / Mod.	UL FRB / Offset	DL Freq. [MHz]	DL Ch.	Band	BW [MHz]	DL Freq. [MHz]	DL Ch.	Band	BW [MHz]	DL Freq. [MHz]	DL Ch.	Band	BW [MHz]	DL Freq. [MHz]	DL Ch.	Band	BW [MHz]	DL Freq. [MHz]	DL Ch.	Band	BW [MHz]	DL Freq. [MHz]	DL Ch.	Band	BW [MHz]	PCC DL SISO	PCC DL 4x4 MIMO	Single Carrier	PCC DL SISO	PCC DL 4x4 MIMO	
5CCP104	CA_2A-1A-13A	13	2320	792	QPSK	1	0	5205	748.5	4	20	2300	2120	4	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	22.40	22.40	22.45	22.45	-0.05	
5CCP111	CA_2A-1A-66A	13	2305	779.5	QPSK	1	0	5205	748.5	4	20	2175	2125	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	22.40	22.40	22.45	22.45	-0.05	
4CCP12	CA_1A-13A-6C	13	2305	779.5	QPSK	1	0	5205	748.5	4	20	2175	2125	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	22.40	22.40	22.45	22.45	-0.05	
4CCP21	CA_1A-66A-66C	13	2305	779.5	QPSK	1	0	5205	748.5	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	22.40	22.40	22.45	22.45	-0.05	
4CCP22	CA_1A-66A-66C	13	2305	779.5	QPSK	1	0	5205	748.5	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	22.40	22.40	22.45	22.45	-0.05	
4CCP23	CA_2A-1A-13A	13	2305	779.5	QPSK	1	0	5205	748.5	2	20	1100	1960	2	20	1100	1960	2	20	1100	1960	2	20	1100	1960	2	20	1100	1960	22.40	22.40	22.45	22.45	-0.05	
4CCP117	CA_2A-1A-66A	13	2305	779.5	QPSK	1	0	5205	748.5	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	22.40	22.40	22.45	22.45	-0.05	
4CCP122	CA_2A-1A-66A	13	2305	779.5	QPSK	1	0	5205	748.5	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	22.40	22.40	22.45	22.45	-0.05	
4CCP161	CA_13A-66A-66A-66A	13	2305	779.5	QPSK	1	0	5205	748.5	66	20	6736	2190	66	20	6736	2190	66	20	6736	2190	66	20	6736	2190	66	20	6736	2190	22.40	22.40	22.45	22.45	-0.05	
5CCP41	CA_13A-66C	13	2305	779.5	QPSK	1	0	5205	748.5	46	20	5065	537.5	46	20	5065	537.5	46	20	5065	537.5	46	20	5065	537.5	46	20	5065	537.5	22.40	22.40	22.45	22.45	-0.05	
5CCP42	CA_13A-66C	13	2305	779.5	QPSK	1	0	5205	748.5	46	20	5065	537.5	46	20	5065	537.5	46	20	5065	537.5	46	20	5065	537.5	46	20	5065	537.5	22.40	22.40	22.45	22.45	-0.05	
5CCP23	CA_2A-1A-40	13	2305	779.5	QPSK	1	0	5205	748.5	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	22.40	22.40	22.45	22.45	-0.05	
5CCP24	CA_2A-1A-60	13	2305	779.5	QPSK	1	0	5205	748.5	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	22.40	22.40	22.45	22.45	-0.05	
5CCP40	CA_13A-66A-66B	13	2305	779.5	QPSK	1	0	5205	748.5	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	22.40	22.40	22.45	22.45	-0.05	
5CCP41	CA_13A-66C	13	2305	779.5	QPSK	1	0	5205	748.5	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	22.40	22.40	22.45	22.45	-0.05	
5CCP42	CA_13A-66C	13	2305	779.5	QPSK	1	0	5205	748.5	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	22.40	22.40	22.45	22.45	-0.05	
5CCP44	CA_2A-1A-66A-66C	13	2305	779.5	QPSK	1	0	5205	748.5	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	22.40	22.40	22.45	22.45	-0.05	
5CCP45	CA_2A-1A-66A-66C	13	2305	779.5	QPSK	1	0	5205	748.5	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	22.40	22.40	22.45	22.45	-0.05	
5CCP46	CA_2A-1A-66A-66C	13	2305	779.5	QPSK	1	0	5205	748.5	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	22.40	22.40	22.45	22.45	-0.05	
5CCP47	CA_2A-1A-66A-66C	13	2305	779.5	QPSK	1	0	5205	748.5	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	22.40	22.40	22.45	22.45	-0.05	
5CCP48	CA_2A-1A-66A-66A	13	2305	779.5	QPSK	1	0	5205	748.5	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	22.40	22.40	22.45	22.45	-0.05	
5CCP49	CA_2A-1A-66A-66A	13	2305	779.5	QPSK	1	0	5205	748.5	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	22.40	22.40	22.45	22.45	-0.05	
5CCP51	CA_13A-66A-66A	13	2305	779.5	QPSK	1	0	5205	748.5	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	22.40	22.40	22.45	22.45	-0.05	
5CCP52	CA_13A-66A-66A	13	2305	779.5	QPSK	1	0	5205	748.5	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	48	20	5580	3625	22.40	22.40	22.45	22.45	-0.05	
5CCP53	CA_2A-1A-40-66A-66A	13	2305	779.5	QPSK	1	0	5205	748.5	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	22.40	22.40	22.45	22.45	-0.05	
5CCP54	CA_2A-1A-40-66A-66A	13	2305	779.5	QPSK	1	0	5205	748.5	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	22.40	22.40	22.45	22.45	-0.05	
5CCP55	CA_2A-1A-40-66A-66A	13	2305	779.5	QPSK	1	0	5205	748.5	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	22.40	22.40	22.45	22.45	-0.05	

11.4.2.7 LTE Band 14 as PCC

Index	Combination	PCC				SCC1				SCC2				SCC3				SCC4				Power (dBm)				Delta (dB)									
		UL Freq. [MHz]	UL Ch.	UL FRB / Mod.	UL FRB / Offset	DL Freq. [MHz]	DL Ch.	Band	BW [MHz]	DL Freq. [MHz]	DL Ch.	Band	BW [MHz]	DL Freq. [MHz]	DL Ch.	Band	BW [MHz]	DL Freq. [MHz]	DL Ch.	Band	BW [MHz]	DL Freq. [MHz]	DL Ch.	Band	BW [MHz]	DL Freq. [MHz]	DL Ch.	Band	BW [MHz]	PCC DL SISO	PCC DL 4x4 MIMO	Single Carrier	PCC DL SISO	PCC DL 4x4 MIMO	
5CCF76	CA_2A-2A-1A-66A-66A	14	5	2305	790.5	QPSK	1	12	5305	760.5	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	22.40	22.40	22.49	22.49	-0.01
5CCF82	CA_2A-1A-66A-66A-66A	14	5	2305	790.5	QPSK	1	12	5305	760.5	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	2	20	900	1960	22.40	22.40	22.49	22.49	-0.08

11.4.2.8 LTE Band 17 as PCC

Index	Combination		PCC									SCC 1			Power [dBm]			Delta [dB]	
			PCC			SCC 1			DL CA Enabled			Single Carrier	PCC DL SISO	PCC DL 4x4 MIMO	PCC DL SISO	PCC DL 4x4 MIMO			
			Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL#RB / Offset	DL Ch	DL Freq. [MHz]	Band						BW [MHz]	DL Freq. [MHz]	DL CA Enabled
2CC#19	CA_2A-17A		17	5	23790	710	QPSK	1	24	5790	740	2	10	1960	2132.5	22.89	22.90	-0.01	
2CC#30	CA_4A-17A		17	5	23790	710	QPSK	1	24	5790	740	4	10	2175	2132.5	22.87	22.90	-0.03	

11.4.2.9 LTE Band 25 as PCC

Index	Combination		PCC									SCC 1			SCC 2			SCC 3			SCC 4			Power [dBm]			Delta [dB]			
			PCC			SCC 1			SCC 2			SCC 3			SCC 4			DL CA Enabled	DL CA Enabled	Single Carrier	PCC DL SISO	PCC DL 4x4 MIMO	PCC DL SISO	PCC DL 4x4 MIMO						
			Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL#RB / Offset	DL Ch	DL Freq. [MHz]	Band	BW [MHz]	DL Freq. [MHz]	Band	BW [MHz]	DL Freq. [MHz]	Band								BW [MHz]	DL Freq. [MHz]	DL CA Enabled	DL CA Enabled		
2CC#38	CA_5A-25A		25	20	26140	1860	QPSK	1	0	8140	1940	881.5	5	10	2525	881.5	-	-	-	-	-	-	-	-	22.75	22.43	22.78	-0.08	-0.35	
2CC#42	CA_12A-25A		25	20	26140	1860	QPSK	1	0	8140	1940	557.5	12	10	5095	557.5	-	-	-	-	-	-	-	-	22.98	23.01	22.78	0.20	0.23	
2CC#46	CA_35A-46A		25	20	26140	1860	QPSK	1	0	8140	1940	46	20	50665	46	20	50665	46	20	50467	46	20	50467	46	20	22.76	22.77	22.78	-0.02	-0.01
3CC#136	CA_25A-25A-25A		25	20	26140	1860	QPSK	1	0	8140	1940	25	20	8385	1962.5	25	20	8590	1985	25	20	8590	1985	25	20	22.75	22.75	22.78	-0.03	-0.29
3CC#137	CA_25A-25A-26A		25	20	26140	1860	QPSK	1	0	8140	1940	25	20	8590	1985	25	20	8590	1985	25	20	8590	1985	25	20	22.79	22.64	22.78	0.01	-0.14
3CC#138	CA_25A-25A-41A		25	20	26140	1860	QPSK	1	0	8140	1940	26	15	8865	876.5	41	20	40620	2593	41	20	40620	2593	41	20	22.79	22.81	22.78	0.01	0.03
3CC#139	CA_25A-26A-41A		25	20	26140	1860	QPSK	1	0	8140	1940	26	15	8865	876.5	41	20	40620	2593	41	20	40620	2593	41	20	22.73	22.50	22.78	-0.05	-0.28
4CC#22	CA_35A-46D		25	20	26140	1860	QPSK	1	0	8140	1940	46	20	50665	46	20	50467	46	20	50467	46	20	50467	46	20	22.78	23.01	22.78	0.00	0.23
4CC#96	CA_25A-25A-41C		25	20	26140	1860	QPSK	1	0	8140	1940	26	15	8865	876.5	41	20	40620	2593	41	20	40620	2593	41	20	22.76	22.01	22.78	-0.02	-0.77
4CC#97	CA_25A-26A-41C		25	20	26140	1860	QPSK	1	0	8140	1940	26	15	8865	876.5	41	20	40620	2593	41	20	40620	2593	41	20	22.79	22.76	22.78	0.01	-0.02
5CC#48	CA_25A-25A-41D		25	20	26140	1860	QPSK	1	0	8140	1940	26	15	8865	876.5	41	20	40620	2593	41	20	40620	2593	41	20	22.82	22.58	22.78	0.04	-0.20

11.4.2.10 LTE Band 26 as PCC

Index	Combination	PCC										SCC 1						SCC 2						SCC 3						Power [dBm]			Delta [dB]					
		Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL#RB / Offset	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	DL CA Enabled			Single Carrier	Delta [dB]								
																										PCC DL	SISO	4x4 MIMO		PCC DL	SISO	4x4 MIMO	PCC DL	SISO	4x4 MIMO	PCC DL	SISO	4x4 MIMO
																										26	5	26715		816.5	QPSK	1	12	8715	861.5	46	20	50665
2CC#64	CA_26A-46A	26	5	26715	816.5	QPSK	1	12	8715	861.5	46	20	50665	5537.5	-	-	-	22.92	22.86	22.90	22.88	22.92	22.86	22.90	22.88	22.92	0.00	-0.06	-0.02	-0.04								
3CC#137	CA_25A-25A-26A	26	5	26715	816.5	QPSK	1	12	8715	861.5	25	20	8365	1962.5	25	20	8140	1940	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
3CC#139	CA_25A-26A-41A	26	5	26715	816.5	QPSK	1	12	8715	861.5	25	20	8365	1962.5	41	20	40620	2593	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
4CC#97	CA_25A-26A-41C	26	5	26715	816.5	QPSK	1	12	8715	861.5	25	20	8365	1962.5	41	20	40620	2593	41	20	40422	2573.2	41	20	40422	2573.2	41	20	40422	2573.2	41	20	40422	2573.2	41	20	40422	2573.2

11.4.2.11 LTE Band 38 as PCC

Index	Combination	PCC										SCC 1						Power [dBm]			Delta [dB]										
		Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL#RB / Offset	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	DL Ch.	DL Freq. [MHz]	DL CA Enabled			Single Carrier	Delta [dB]					
																						PCC DL	SISO	4x4 MIMO		PCC DL	SISO	4x4 MIMO	PCC DL	SISO	4x4 MIMO
																						38	15	38175		2612.5	QPSK	1	0	38175	2612.5 <td>38</td> <td>15</td> <td>38025</td> <td>2597.5</td> <td>22.96</td> <td>22.94</td> <td>22.83</td> <td>0.13</td> <td>0.11</td>
2CC#6	CA_38C	38	15	38175	2612.5	QPSK	1	0	38175	2612.5	38	15	38025	2597.5	22.96	22.94	22.83	0.13	0.11												

11.4.3 UL CA power measurement

This device supports LTE Carrier Aggregation (CA) for LTE B7, B41, B42 and B48 with two component carriers in the uplink. Conducted power was evaluated as described in Sections 11.1.4 “Uplink CA Conducted Powers:” and “Downlink CA with Uplink CA Enabled:”

Full Power Mode

Combination	PCC								SCC1								Power [dBm]			Delta [dB]			
	Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL#RB / Offset	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL#RB / Offset	DL Ch.	DL Freq. [MHz]	UL CA Enabled		Single Carrier	PCC & SCC1 DLCA SISO *1	PCC & SCC1 DLCA 4x4 MIMO *2		
																	PCC & SCC1 DLCA SISO	PCC & SCC1 DLCA 4x4 MIMO					
CA_7C	7	20	21100	2535	QPSK	1	0	3100	2655	7	20	20902	2515.2	QPSK	1	99	2902	2635.2	23.40	23.30	22.96	0.44	-0.10
CA_41C	41	20	40620	2593	QPSK	1	0	40620	2593	41	20	40422	2573.2	QPSK	1	99	40422	2573.2	23.45	23.63	22.78	0.67	0.18

*1 : Compared to Single Carrier

*2 : Compared to PCC & SCC1 DLCA SISO

Reduction Power Mode

Combination	PCC								SCC1								Power [dBm]			Delta [dB]			
	Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL#RB / Offset	DL Ch.	DL Freq. [MHz]	Band	BW [MHz]	UL Ch.	UL Freq. [MHz]	Mod.	UL#RB / Offset	DL Ch.	DL Freq. [MHz]	UL CA Enabled		Single Carrier	PCC & SCC1 DLCA SISO *1	PCC & SCC1 DLCA 4x4 MIMO *2		
																	PCC & SCC1 DLCA SISO	PCC & SCC1 DLCA 4x4 MIMO					
CA_7C	7	20	21100	2535	QPSK	1	99	3100	2655	7	20	21298	2554.8	QPSK	1	0	3298	2674.8	16.73	16.71	16.53	0.20	-0.02
CA_41C	41	20	40185	2549.5	QPSK	50	50	40185	2549.5	41	20	40383	2569.3	QPSK	50	0	40383	2569.3	19.57	19.72	19.74	-0.17	0.15
CA_48C	48	20	55340	3560	QPSK	50	50	55340	3560	48	20	55538	3579.8	QPSK	50	0	55538	3579.8	10.07	10.08	9.83	0.24	0.01

*1 : Compared to Single Carrier

*2 : Compared to PCC & SCC1 DLCA SISO

Note(s):

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.
Band 48 has same power between full and reduction, result is listed as reduction power.

11.5 NR(new radio)

11.5.1 NR band n2 DSI=0, full power

OFDM	Modulation	BW 20 MHz					ch/MHz			
		SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	372000 / 1860 [dBm]	376000 / 1880 [dBm]	380000 / 1900 [dBm]	
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.46	23.47	23.28	
			0	53	1	24.5	23.42	23.44	23.22	
			0	104	1	24.5	23.36	23.39	23.18	
			0.5	0	50	24.0	22.85	22.88	22.65	
			0	28	50	24.5	23.34	23.36	23.14	
			0.5	56	50	24.0	22.81	22.87	22.61	
			0.5	0	100	24.0	22.82	22.87	22.64	
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.38	23.45	23.24	
			0	53	1	24.5	23.43	23.44	23.20	
			0	104	1	24.5	23.34	23.39	23.15	
			1	0	50	23.5	22.37	22.41	22.21	
			0	28	50	24.5	23.35	23.38	23.15	
			1	56	50	23.5	22.39	22.40	22.19	
			1	0	100	23.5	22.36	22.42	22.21	
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.49	22.52	22.34	
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	21.14	21.17	21.06	
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	19.17	19.23	19.03	
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.97	22.01	21.80	

OFDM	Modulation	BW 15 MHz					ch/MHz			
		SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	371500 / 1857.5 [dBm]	376000 / 1880 [dBm]	380500 / 1902.5 [dBm]	
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.47	23.34	23.23	
			0	40	1	24.5	23.48	23.35	23.20	
			0	77	1	24.5	23.49	23.37	23.21	
			0.5	0	36	24.0	22.89	22.75	22.62	
			0	22	36	24.5	23.33	23.20	23.06	
			0.5	43	36	24.0	22.91	22.80	22.65	
			0.5	0	75	24.0	22.87	22.77	22.62	
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.46	23.34	23.22	
			0	40	1	24.5	23.45	23.36	23.20	
			0	77	1	24.5	23.44	23.35	23.19	
			1	0	36	23.5	22.39	22.25	22.13	
			0	22	36	24.5	23.30	23.18	23.06	
			1	43	36	23.5	22.40	22.29	22.15	
			1	0	75	23.5	22.41	22.34	22.18	
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.57	22.42	22.32	
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	21.22	21.13	21.01	
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	19.21	19.11	18.98	
CP-OFDM	QPSK	15	1.5	1	1	23.0	22.02	21.92	21.79	

BW		10 MHz					ch/MHz		
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	371000 / 1855	376000 / 1880	381000 / 1905
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.37	23.24	23.11
			0	26	1	24.5	23.39	23.25	23.09
			0	50	1	24.5	23.36	23.23	23.08
			0.5	0	25	24.0	22.76	22.64	22.49
			0	14	25	24.5	23.24	23.12	22.96
			0.5	27	25	24.0	22.77	22.62	22.51
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.29	23.18	23.04
			0	26	1	24.5	23.34	23.20	23.06
			0	50	1	24.5	23.33	23.21	23.05
			1	0	25	23.5	22.31	22.18	22.05
			0	14	25	24.5	23.24	23.13	22.99
			1	27	25	23.5	22.32	22.20	22.04
			1	0	50	23.5	22.30	22.21	22.06
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.43	22.31	22.20
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	21.06	20.99	20.84
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	19.15	19.00	18.88
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.84	21.73	21.61

BW		5 MHz					ch/MHz		
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	370500 / 1852.5	376000 / 1880	381500 / 1907.5
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.36	23.23	23.04
			0	13	1	24.5	23.42	23.28	23.11
			0	23	1	24.5	23.44	23.30	23.12
			0.5	0	12	24.0	22.82	22.69	22.52
			0	7	12	24.5	23.34	23.21	23.04
			0.5	13	12	24.0	22.84	22.71	22.51
			0.5	0	25	24.0	22.75	22.61	22.44
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.33	23.21	23.03
			0	13	1	24.5	23.39	23.26	23.09
			0	23	1	24.5	23.36	23.24	23.05
			1	0	12	23.5	22.37	22.23	22.07
			0	7	12	24.5	23.35	23.20	23.04
			1	13	12	23.5	22.41	22.25	22.11
			1	0	25	23.5	22.33	22.17	22.03
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.43	22.30	22.14
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.97	20.86	20.70
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	19.12	18.96	18.87
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.88	21.73	21.60

11.5.2 NR band n2 DSI=1, reduction power

OFDM	Modulation	20 MHz		ch/MHz					
		SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	372000 / 1860 [dBm]	376000 / 1880 [dBm]	380000 / 1900 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	17.4	16.28	16.13	16.03
			0	53	1	17.4	16.25	16.10	15.94
			0	104	1	17.4	16.14	16.06	15.91
			0	0	50	17.4	16.15	16.05	15.88
			0	28	50	17.4	16.16	16.04	15.92
			0	56	50	17.4	16.18	16.03	15.87
			0	0	100	17.4	16.16	16.03	15.89
DFTS-OFDM	QPSK	15	0	1	1	17.4	16.24	16.13	16.00
			0	53	1	17.4	16.20	16.12	15.96
			0	104	1	17.4	16.13	16.06	15.93
			0	0	50	17.4	16.20	16.09	15.88
			0	28	50	17.4	16.16	16.05	15.90
			0	56	50	17.4	16.17	16.07	15.89
			0	0	100	17.4	16.15	16.02	15.89
DFTS-OFDM	16QAM	15	0	1	1	17.4	16.51	16.39	16.29
			0	53	1	17.4	16.43	16.29	16.08
			0	104	1	17.4	16.33	16.25	16.12
			0	0	50	17.4	16.23	16.12	16.03
			0	28	50	17.4	16.27	16.15	15.99
			0	56	50	17.4	16.23	16.13	16.00
			0	0	100	17.4	16.20	16.10	15.96
DFTS-OFDM	64QAM	15	0	1	1	17.4	16.48	16.31	16.24
			0	53	1	17.4	16.50	16.38	16.28
			0	104	1	17.4	16.50	16.33	16.22
			0	0	50	17.4	16.27	16.14	16.02
			0	28	50	17.4	16.26	16.12	16.04
			0	56	50	17.4	16.28	16.14	15.99
			0	0	100	17.4	16.16	16.06	15.95
DFTS-OFDM	256QAM	15	0	1	1	17.4	16.33	16.26	16.14
			0	53	1	17.4	16.15	15.99	15.86
			0	104	1	17.4	16.30	15.96	15.76
			0	0	50	17.4	16.24	16.07	15.97
			0	28	50	17.4	16.23	16.10	15.95
			0	56	50	17.4	16.20	16.09	15.93
			0	0	100	17.4	16.19	16.06	15.93
CP-OFDM	QPSK	15	0	1	1	17.4	16.23	16.05	15.92
			0	53	1	17.4	16.29	16.12	15.97
			0	104	1	17.4	16.16	16.01	15.92
			0	0	50	17.4	16.20	16.06	15.94
			0	28	50	17.4	16.18	16.06	15.95
			0	56	50	17.4	16.17	16.07	15.95
			0	0	100	17.4	16.10	15.99	15.86

OFDM	Modulation	15 MHz		ch/MHz					
		SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	371500 / 1857.5 [dBm]	376000 / 1880 [dBm]	380500 / 1902.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	17.4	16.26	16.19	16.06
			0	40	1	17.4	16.34	16.20	16.05
			0	77	1	17.4	16.32	16.14	15.99
			0	0	36	17.4	16.16	16.09	15.89
			0	22	36	17.4	16.17	16.04	15.85
			0	43	36	17.4	16.23	16.07	15.96
			0	0	75	17.4	16.17	16.04	15.85
DFTS-OFDM	QPSK	15	0	1	1	17.4	16.20	16.10	15.92
			0	40	1	17.4	16.19	16.05	15.90
			0	77	1	17.4	16.18	16.04	15.87
			0	0	36	17.4	16.17	16.07	15.89
			0	22	36	17.4	16.14	16.04	15.90
			0	43	36	17.4	16.17	16.10	15.87
			0	0	75	17.4	16.21	16.07	15.92
DFTS-OFDM	16QAM	15	0	1	1	17.4	16.43	16.27	16.15
			0	40	1	17.4	16.39	16.20	16.09
			0	77	1	17.4	16.37	16.27	16.08
			0	0	36	17.4	16.25	16.09	15.94
			0	22	36	17.4	16.23	16.08	15.89
			0	43	36	17.4	16.27	16.09	15.98
			0	0	75	17.4	16.25	16.06	15.96
DFTS-OFDM	64QAM	15	0	1	1	17.4	16.50	16.37	16.27
			0	40	1	17.4	16.49	16.27	16.19
			0	77	1	17.4	16.58	16.38	16.28
			0	0	36	17.4	16.16	16.03	15.86
			0	22	36	17.4	16.14	16.01	15.85
			0	43	36	17.4	16.18	16.05	15.90
			0	0	75	17.4	16.21	16.06	16.01
DFTS-OFDM	256QAM	15	0	1	1	17.4	16.13	16.01	15.87
			0	40	1	17.4	16.14	16.00	15.81
			0	77	1	17.4	16.10	16.01	15.85
			0	0	36	17.4	16.23	16.09	15.93
			0	22	36	17.4	16.22	16.08	15.95
			0	43	36	17.4	16.25	16.10	15.98
			0	0	75	17.4	16.25	16.15	16.00
CP-OFDM	QPSK	15	0	1	1	17.4	16.41	16.13	16.01
			0	40	1	17.4	16.28	16.15	15.92
			0	77	1	17.4	16.33	16.16	16.03
			0	0	36	17.4	16.23	16.06	15.95
			0	22	36	17.4	16.18	16.05	15.93
			0	43	36	17.4	16.23	16.10	15.90
			0	0	75	17.4	16.17	16.03	15.87

OFDM	Modulation	10 MHz					ch/MHz		
		SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	371000 / 1855 [dBm]	376000 / 1880 [dBm]	381000 / 1905 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	17.4	16.22	16.18	15.94
			0	26	1	17.4	16.27	16.19	15.92
			0	50	1	17.4	16.23	16.08	15.91
			0	0	25	17.4	16.12	16.05	15.80
			0	14	25	17.4	16.10	15.94	15.77
			0	27	25	17.4	16.16	15.99	15.85
			0	0	50	17.4	16.13	16.03	15.79
DFTS-OFDM	QPSK	15	0	1	1	17.4	16.12	16.05	15.83
			0	26	1	17.4	16.09	16.04	15.80
			0	50	1	17.4	16.10	16.04	15.41
			0	0	25	17.4	16.10	15.99	15.78
			0	14	25	17.4	16.11	15.94	15.77
			0	27	25	17.4	16.12	15.93	15.80
			0	0	50	17.4	16.16	16.05	15.83
DFTS-OFDM	16QAM	15	0	1	1	17.4	16.29	16.20	15.97
			0	26	1	17.4	16.37	16.18	16.01
			0	50	1	17.4	16.31	16.15	15.97
			0	0	25	17.4	16.22	16.05	15.86
			0	14	25	17.4	16.18	16.03	15.85
			0	27	25	17.4	16.24	16.01	15.86
			0	0	50	17.4	16.17	16.00	15.87
DFTS-OFDM	64QAM	15	0	1	1	17.4	16.38	16.27	16.07
			0	26	1	17.4	16.37	16.14	15.98
			0	50	1	17.4	16.31	16.05	16.01
			0	0	25	17.4	16.09	15.83	15.81
			0	14	25	17.4	16.08	15.82	15.83
			0	27	25	17.4	16.15	15.94	15.81
			0	0	50	17.4	16.16	15.95	15.83
DFTS-OFDM	256QAM	15	0	1	1	17.4	16.03	15.87	15.68
			0	26	1	17.4	16.02	15.93	15.81
			0	50	1	17.4	16.02	15.83	15.79
			0	0	25	17.4	16.05	15.90	15.74
			0	14	25	17.4	16.06	15.81	15.80
			0	27	25	17.4	16.16	15.83	15.82
			0	0	50	17.4	16.14	15.90	15.86
CP-OFDM	QPSK	15	0	1	1	17.4	16.16	16.00	15.83
			0	26	1	17.4	16.18	15.96	15.78
			0	50	1	17.4	16.15	15.87	15.72
			0	0	25	17.4	16.11	16.03	15.85
			0	14	25	17.4	16.16	15.95	15.90
			0	27	25	17.4	16.17	16.03	15.91
			0	0	50	17.4	16.14	15.94	15.81

OFDM	Modulation	5 MHz		ch/MHz					
		SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	370500 / 1852.5 [dBm]	376000 / 1880 [dBm]	381500 / 1907.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	17.4	16.29	16.24	15.95
			0	13	1	17.4	16.33	16.19	15.99
			0	23	1	17.4	16.32	16.20	15.97
			0	0	12	17.4	16.29	16.00	15.94
			0	7	12	17.4	16.33	16.17	15.98
			0	13	12	17.4	16.30	16.15	15.98
			0	0	25	17.4	16.15	16.05	15.84
DFTS-OFDM	QPSK	15	0	1	1	17.4	16.14	16.09	15.82
			0	13	1	17.4	16.16	16.08	15.83
			0	23	1	17.4	16.15	16.12	15.86
			0	0	12	17.4	16.10	16.04	15.80
			0	7	12	17.4	16.16	16.11	15.78
			0	13	12	17.4	16.13	16.10	15.84
			0	0	25	17.4	16.22	16.09	15.87
DFTS-OFDM	16QAM	15	0	1	1	17.4	16.30	16.25	16.00
			0	13	1	17.4	16.47	16.34	16.03
			0	23	1	17.4	16.46	16.45	16.11
			0	0	12	17.4	16.10	15.95	15.74
			0	7	12	17.4	16.13	16.07	15.77
			0	13	12	17.4	16.11	16.06	15.80
			0	0	25	17.4	16.06	15.90	15.75
DFTS-OFDM	64QAM	15	0	1	1	17.4	16.34	16.36	16.02
			0	13	1	17.4	16.36	16.29	16.00
			0	23	1	17.4	16.35	16.31	16.01
			0	0	12	17.4	16.12	16.03	15.73
			0	7	12	17.4	16.11	16.05	15.76
			0	13	12	17.4	16.13	16.08	15.79
			0	0	25	17.4	16.09	16.04	15.76
DFTS-OFDM	256QAM	15	0	1	1	17.4	16.15	16.02	15.77
			0	13	1	17.4	15.98	15.88	15.62
			0	23	1	17.4	15.95	15.89	15.59
			0	0	12	17.4	16.09	16.03	15.78
			0	7	12	17.4	16.14	16.05	15.77
			0	13	12	17.4	16.13	15.99	15.78
			0	0	25	17.4	16.02	15.93	15.66
CP-OFDM	QPSK	15	0	1	1	17.4	16.19	16.13	15.84
			0	13	1	17.4	16.20	16.10	15.78
			0	23	1	17.4	16.13	16.07	15.76
			0	0	12	17.4	16.03	15.95	15.66
			0	7	12	17.4	16.01	15.94	15.64
			0	13	12	17.4	16.03	15.98	15.72
			0	0	25	17.4	16.06	15.99	15.70

11.5.3 NR band n5 DSI=0, full power

BW		20 MHz					ch/MHz	
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	167300 / 836.5 [dBm]	
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.21	
			0	53	1	24.5	23.08	
			0	104	1	24.5	22.94	
			0.5	0	50	24.0	22.60	
			0	28	50	24.5	23.01	
			0.5	56	50	24.0	22.39	
			0.5	0	100	24.0	22.50	
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.20	
			0	53	1	24.5	23.08	
			0	104	1	24.5	22.90	
			1	0	50	23.5	22.06	
			0	28	50	24.5	23.01	
			1	56	50	23.5	21.94	
			1	0	100	23.5	22.02	
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.30	
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.89	
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.60	
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.70	

BW		15 MHz					ch/MHz	
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	167300 / 836.5 [dBm]	
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.16	
			0	40	1	24.5	23.09	
			0	77	1	24.5	23.00	
			0.5	0	36	24.0	22.55	
			0	22	36	24.5	22.92	
			0.5	43	36	24.0	22.39	
			0.5	0	75	24.0	22.47	
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.19	
			0	40	1	24.5	23.12	
			0	77	1	24.5	22.99	
			1	0	36	23.5	22.02	
			0	22	36	24.5	22.91	
			1	43	36	23.5	21.88	
			1	0	75	23.5	22.02	
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.30	
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.97	
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.62	
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.71	

BW		10 MHz					ch/MHz	
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	167300 / 836.5 [dBm]	
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.15	
			0	26	1	24.5	23.10	
			0	50	1	24.5	23.01	
			0.5	0	25	24.0	22.54	
			0	14	25	24.5	22.96	
			0.5	27	25	24.0	22.35	
			0.5	0	50	24.0	22.52	
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.08	
			0	26	1	24.5	23.03	
			0	50	1	24.5	23.00	
			1	0	25	23.5	22.04	
			0	14	25	24.5	22.97	
			1	27	25	23.5	21.89	
			1	0	50	23.5	22.01	
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.22	
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.80	
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.56	
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.59	

BW		5 MHz					ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	165300 / 826.5 [dBm]	167300 / 836.5 [dBm]	169300 / 846.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	24.5	23.35	23.19	23.00
			0	13	1	24.5	23.29	23.10	22.87
			0	23	1	24.5	23.23	23.06	22.83
			0.5	0	12	24.0	22.75	22.56	22.26
			0	7	12	24.5	23.20	23.00	22.78
			0.5	13	12	24.0	22.62	22.43	22.12
			0.5	0	25	24.0	22.59	22.41	22.20
DFTS-OFDM	QPSK	15	0	1	1	24.5	23.34	23.16	22.96
			0	13	1	24.5	23.26	23.08	22.87
			0	23	1	24.5	23.17	22.96	22.77
			1	0	12	23.5	22.27	22.06	21.87
			0	7	12	24.5	23.21	23.04	22.83
			1	13	12	23.5	22.14	21.97	21.74
			1	0	25	23.5	22.15	21.97	21.76
DFTS-OFDM	16QAM	15	1	1	1	23.5	22.38	22.26	22.01
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.87	20.76	20.35
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.80	18.58	18.41
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.81	21.64	21.42

11.5.4 NR band n5 DSI=1, reduction power

OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	ch/MHz		
							167300 / 836.5 20MBW [dBm]	167300 / 836.5 15MBW [dBm]	167300 / 836.5 10MBW [dBm]
DFTS-OFDM	BPSK	15	0	1	1	17.3	16.17	16.17	16.10
				53	1	17.3	16.06	16.06	16.04
				104	1	17.3	15.88	15.93	15.91
				0	50	17.3	16.08	15.95	16.02
				28	50	17.3	16.00	15.92	15.95
				56	50	17.3	15.87	15.86	15.88
				0	100	17.3	15.97	15.94	15.93
DFTS-OFDM	QPSK	15	0	1	1	17.3	16.05	16.20	16.12
				53	1	17.3	15.94	16.09	16.09
				104	1	17.3	15.79	16.00	15.92
				0	50	17.3	16.03	15.97	15.97
				28	50	17.3	16.01	15.85	15.94
				56	50	17.3	15.88	15.81	15.89
				0	100	17.3	15.97	15.97	15.91
DFTS-OFDM	16QAM	15	0	1	1	17.3	16.33	16.33	16.20
				53	1	17.3	16.20	16.17	16.08
				104	1	17.3	16.03	16.03	15.97
				0	50	17.3	16.11	16.07	16.08
				28	50	17.3	16.03	15.96	15.97
				56	50	17.3	15.93	15.98	15.93
				0	100	17.3	16.00	16.01	15.99
DFTS-OFDM	64QAM	15	0	1	1	17.3	16.29	16.22	16.17
				53	1	17.3	16.14	16.13	16.18
				104	1	17.3	16.13	16.04	16.03
				0	50	17.3	16.11	15.96	15.99
				28	50	17.3	16.03	15.90	15.92
				56	50	17.3	15.95	15.85	15.90
				0	100	17.3	16.00	15.90	16.00
DFTS-OFDM	256QAM	15	0	1	1	17.3	16.03	15.94	15.92
				53	1	17.3	15.90	15.85	15.85
				104	1	17.3	15.67	15.75	15.77
				0	50	17.3	15.99	16.12	15.94
				28	50	17.3	15.95	16.02	15.88
				56	50	17.3	15.89	15.94	15.80
				0	100	17.3	15.98	16.00	15.98
CP-OFDM	QPSK	15	0	1	1	17.3	16.14	16.01	15.98
				53	1	17.3	16.03	15.93	15.92
				104	1	17.3	15.79	15.76	15.75
				0	53	17.3	15.99	16.07	16.07
				28	53	17.3	15.96	16.00	15.96
				53	53	17.3	15.87	15.96	15.90
				0	106	17.3	15.88	15.95	15.91

BW		5 MHz					ch/MHz		
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	165300 / 826.5 [dBm]	167300 / 836.5 [dBm]	169300 / 846.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	17.3	16.20	15.98	15.70
			0	13	1	17.3	16.08	15.88	15.62
			0	23	1	17.3	16.01	15.84	15.51
			0	0	12	17.3	16.15	15.96	15.66
			0	7	12	17.3	16.11	15.89	15.62
			0	13	12	17.3	16.02	15.85	15.50
			0	0	25	17.3	16.01	15.82	15.48
DFTS-OFDM	QPSK	15	0	1	1	17.3	16.17	15.99	15.67
			0	13	1	17.3	16.00	15.88	15.56
			0	23	1	17.3	15.96	15.77	15.47
			0	0	12	17.3	16.16	15.95	15.67
			0	7	12	17.3	16.17	15.97	15.65
			0	13	12	17.3	16.02	15.87	15.55
			0	0	25	17.3	16.05	15.83	15.58
DFTS-OFDM	16QAM	15	0	1	1	17.3	16.41	16.29	15.93
			0	13	1	17.3	16.37	16.21	15.83
			0	23	1	17.3	16.30	16.03	15.75
			0	0	12	17.3	16.11	15.89	15.62
			0	7	12	17.3	16.01	15.82	15.49
			0	13	12	17.3	15.99	15.80	15.47
			0	0	25	17.3	16.07	15.89	15.60
DFTS-OFDM	64QAM	15	0	1	1	17.3	16.35	16.22	15.90
			0	13	1	17.3	16.26	16.11	15.81
			0	23	1	17.3	16.22	16.02	15.73
			0	0	12	17.3	16.14	15.96	15.64
			0	7	12	17.3	16.04	15.82	15.56
			0	13	12	17.3	15.98	15.81	15.54
			0	0	25	17.3	16.06	15.85	15.55
DFTS-OFDM	256QAM	15	0	1	1	17.3	15.93	15.75	15.50
			0	13	1	17.3	15.85	15.63	15.39
			0	23	1	17.3	15.81	15.53	15.31
			0	0	12	17.3	16.15	15.96	15.66
			0	7	12	17.3	16.07	15.89	15.58
			0	13	12	17.3	16.05	15.86	15.52
			0	0	25	17.3	16.03	15.83	15.53
CP-OFDM	QPSK	15	0	1	1	17.3	16.07	15.91	15.63
			0	13	1	17.3	15.97	15.74	15.43
			0	23	1	17.3	15.95	15.75	15.49
			0	0	12	17.3	16.02	15.81	15.52
			0	7	12	17.3	15.86	15.67	15.38
			0	13	12	17.3	15.88	15.69	15.39
			0	0	25	17.3	16.02	15.83	15.53

11.5.5 NR band n41 DSI=0, full power (FCC)

BW		100 MHz					ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	509200 / 2546	513900 / 2569.5	518600 / 2593	523300 / 2616.5	528000 / 2640
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	21.5			20.56		
			0	137	1	21.5			20.73		
			0	271	1	21.5			20.52		
			0	0	135	21.5			20.63		
			0	69	135	21.5			20.70		
			0	138	135	21.5			20.52		
			0	0	270	21.5			20.60		
DFTS-OFDM	QPSK	30	0	1	1	21.5			20.70		
			0	137	1	21.5			20.55		
			0	271	1	21.5			20.52		
			0	0	135	21.5			20.55		
			0	69	135	21.5			20.70		
			0	138	135	21.5			20.54		
			0	0	270	21.5			20.59		
DFTS-OFDM	16QAM	30	0	1	1	21.5			20.56		
DFTS-OFDM	64QAM	30	0	1	1	21.5			20.52		
DFTS-OFDM	256QAM	30	4.5	1	1	17.0			16.48		
CP-OFDM	QPSK	30	0	1	1	21.5			20.49		

BW		90 MHz					ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	508200 / 2541	513400 / 2567	518600 / 2593	523800 / 2619	529000 / 2645
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	21.5			20.40		
			0	123	1	21.5			20.64		
			0	243	1	21.5			20.60		
			0	0	120	21.5			20.56		
			0	63	120	21.5			20.42		
			0	125	120	21.5			20.54		
			0	0	243	21.5			20.40		
DFTS-OFDM	QPSK	30	0	1	1	21.5			20.61		
			0	123	1	21.5			20.63		
			0	243	1	21.5			20.60		
			0	0	120	21.5			20.40		
			0	63	120	21.5			20.46		
			0	125	120	21.5			20.56		
			0	0	243	21.5			20.40		
DFTS-OFDM	16QAM	30	0	1	1	21.5			20.50		
DFTS-OFDM	64QAM	30	0	1	1	21.5			20.52		
DFTS-OFDM	256QAM	30	4.5	1	1	17.0			16.11		
CP-OFDM	QPSK	30	0	1	1	21.5			20.52		

BW		80 MHz					ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	507200 / 2536	512900 / 2564.5	518600 / 2593	524300 / 2621.5	530000 / 2650
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	21.5			20.02		
			0	109	1	21.5			20.12		
			0	215	1	21.5			20.06		
			0	0	108	21.5			19.88		
			0	55	108	21.5			19.94		
			0	109	108	21.5			20.06		
			0	0	216	21.5			19.88		
DFTS-OFDM	QPSK	30	0	1	1	21.5			20.03		
			0	109	1	21.5			20.10		
			0	215	1	21.5			19.98		
			0	0	108	21.5			19.89		
			0	55	108	21.5			19.91		
			0	109	108	21.5			19.88		
			0	0	216	21.5			19.90		
DFTS-OFDM	16QAM	30	0	1	1	21.5			19.92		
DFTS-OFDM	64QAM	30	0	1	1	21.5			20.02		
DFTS-OFDM	256QAM	30	4.5	1	1	17.0			15.55		
CP-OFDM	QPSK	30	0	1	1	21.5			20.01		

BW		60 MHz					ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	505200 / 2526	511900 / 2559.5	518600 / 2593	525300 / 2626.5	532000 / 2660
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	21.5	20.30		19.95		19.89
			0	81	1	21.5	20.32		20.08		19.92
			0	160	1	21.5	20.50		20.02		19.97
			0	0	81	21.5	20.37		20.00		19.97
			0	40	81	21.5	20.48		20.05		20.06
			0	81	81	21.5	20.39		20.03		19.89
			0	0	162	21.5	20.34		20.02		20.00
DFTS-OFDM	QPSK	30	0	1	1	21.5	20.41		20.04		20.05
			0	81	1	21.5	20.54		20.17		20.13
			0	160	1	21.5	20.50		20.07		19.93
			0	0	81	21.5	20.37		19.97		20.05
			0	40	81	21.5	20.36		19.99		20.11
			0	81	81	21.5	20.46		19.96		20.08
			0	0	162	21.5	20.31		19.93		20.01
DFTS-OFDM	16QAM	30	0	1	1	21.5	20.33		20.02		20.08
DFTS-OFDM	64QAM	30	0	1	1	21.5	20.34		20.01		19.89
DFTS-OFDM	256QAM	30	4.5	1	1	17.0	16.02		15.58		15.58
CP-OFDM	QPSK	30	0	1	1	21.5	20.30		20.03		20.11

BW		50 MHz					ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	504200 / 2521	511400 / 2557	518600 / 2593	525800 / 2629	533000 / 2665
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	21.5	20.43		19.98		20.52
			0	67	1	21.5	20.57		20.16		20.55
			0	131	1	21.5	20.49		20.07		20.58
			0	0	64	21.5	20.43		20.04		20.48
			0	35	64	21.5	20.49		20.07		20.55
			0	69	64	21.5	20.45		20.00		20.46
			0	0	128	21.5	20.44		20.05		20.50
DFTS-OFDM	QPSK	30	0	1	1	21.5	20.46		19.99		20.57
			0	67	1	21.5	20.67		20.21		20.60
			0	131	1	21.5	20.53		20.10		20.56
			0	0	64	21.5	20.52		20.04		20.50
			0	35	64	21.5	20.56		20.18		20.58
			0	69	64	21.5	20.49		20.15		20.57
			0	0	128	21.5	20.55		20.14		20.54
DFTS-OFDM	16QAM	30	0	1	1	21.5	20.49		20.11		20.48
DFTS-OFDM	64QAM	30	0	1	1	21.5	20.52		20.05		20.46
DFTS-OFDM	256QAM	30	4.5	1	1	17.0	16.12		15.66		16.13
CP-OFDM	QPSK	30	0	1	1	21.5	20.53		20.04		20.39

BW		40 MHz					ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	503200 / 2516	510900 / 2554.5	518600 / 2593	526300 / 2631.5	534000 / 2670
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	21.5	20.34		20.06		20.08
			0	53	1	21.5	20.38		20.10		19.92
			0	104	1	21.5	20.37		20.03		20.02
			0	0	50	21.5	20.36		20.00		19.92
			0	28	50	21.5	20.31		20.06		19.90
			0	56	50	21.5	20.34		19.89		19.95
			0	0	100	21.5	20.33		19.90		19.92
DFTS-OFDM	QPSK	30	0	1	1	21.5	20.23		20.01		20.05
			0	53	1	21.5	20.46		20.12		20.14
			0	104	1	21.5	20.40		20.02		19.95
			0	0	50	21.5	20.31		20.04		19.99
			0	28	50	21.5	20.40		20.11		19.92
			0	56	50	21.5	20.27		20.03		19.90
			0	0	100	21.5	20.25		20.11		19.91
DFTS-OFDM	16QAM	30	0	1	1	21.5	20.31		20.03		19.99
DFTS-OFDM	64QAM	30	0	1	1	21.5	20.22		19.92		20.06
DFTS-OFDM	256QAM	30	4.5	1	1	17.0	16.12		15.52		15.58
CP-OFDM	QPSK	30	0	1	1	21.5	20.24		20.04		20.02

OFDM	Modulation	20 MHz				ch/MHz					
		SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	501200 / 2506 [dBm]	509900 / 2549.5 [dBm]	518600 / 2593 [dBm]	527300 / 2636.5 [dBm]	536000 / 2680 [dBm]
DFTS-OFDM	BPSK	30	0	1	1	21.5	20.47	20.22	20.00	19.68	19.88
			0	26	1	21.5	20.48	20.24	20.03	19.74	20.08
			0	49	1	21.5	20.35	20.11	19.98	19.66	19.92
			0	0	25	21.5	20.33	20.20	19.90	19.64	19.87
			0	13	25	21.5	20.34	20.21	20.02	19.71	19.89
			0	26	25	21.5	20.29	20.19	20.01	19.63	19.86
			0	0	50	21.5	20.30	20.20	19.85	19.66	19.88
DFTS-OFDM	QPSK	30	0	1	1	21.5	20.42	20.15	19.83	19.66	19.90
			0	26	1	21.5	20.53	20.32	20.05	19.87	20.10
			0	49	1	21.5	20.34	20.28	19.92	19.67	19.92
			0	0	25	21.5	20.33	20.25	19.95	19.76	19.89
			0	13	25	21.5	20.45	20.27	20.01	19.65	19.88
			0	26	25	21.5	20.31	20.30	19.88	19.66	19.90
			0	0	50	21.5	20.30	20.19	19.92	19.63	19.87
DFTS-OFDM	16QAM	30	0	1	1	21.5	20.33	20.30	19.89	19.68	20.02
DFTS-OFDM	64QAM	30	0	1	1	21.5	20.47	20.28	19.87	19.77	20.05
DFTS-OFDM	256QAM	30	4.5	1	1	17.0	15.99	15.66	15.48	15.42	15.46
CP-OFDM	QPSK	30	0	1	1	21.5	20.41	20.27	19.82	19.80	19.89

11.5.6 NR band n41 DSI=1, reduction power (FCC)

BW		100 MHz					ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	509200 / 2546	513900 / 2569.5	518600 / 2593	523300 / 2616.5	528000 / 2640
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	14.1			13.55		
			0	137	1	14.1			13.72		
			0	271	1	14.1			13.57		
			0	0	135	14.1			13.56		
			0	69	135	14.1			13.66		
			0	138	135	14.1			13.52		
			0	0	270	14.1			13.65		
DFTS-OFDM	QPSK	30	0	1	1	14.1			13.54		
			0	137	1	14.1			13.65		
			0	271	1	14.1			13.62		
			0	0	135	14.1			13.51		
			0	69	135	14.1			13.66		
			0	138	135	14.1			13.50		
			0	0	270	14.1			13.62		
DFTS-OFDM	16QAM	30	0	1	1	14.1			13.67		
DFTS-OFDM	64QAM	30	0	1	1	14.1			13.55		
DFTS-OFDM	256QAM	30	0	1	1	14.1			13.70		
CP-OFDM	QPSK	30	0	1	1	14.1			13.49		

BW		90 MHz					ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	508200 / 2541	513400 / 2567	518600 / 2593	523800 / 2619	529000 / 2645
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	14.1			13.40		
			0	123	1	14.1			13.56		
			0	243	1	14.1			13.44		
			0	0	120	14.1			13.49		
			0	63	120	14.1			13.53		
			0	125	120	14.1			13.50		
			0	0	243	14.1			13.33		
DFTS-OFDM	QPSK	30	0	1	1	14.1			13.34		
			0	123	1	14.1			13.39		
			0	243	1	14.1			13.32		
			0	0	120	14.1			13.46		
			0	63	120	14.1			13.50		
			0	125	120	14.1			13.47		
			0	0	243	14.1			13.42		
DFTS-OFDM	16QAM	30	0	1	1	14.1			13.33		
DFTS-OFDM	64QAM	30	0	1	1	14.1			13.49		
DFTS-OFDM	256QAM	30	0	1	1	14.1			13.46		
CP-OFDM	QPSK	30	0	1	1	14.1			13.42		

BW		80 MHz					ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	507200 / 2536	512900 / 2564.5	518600 / 2593	524300 / 2621.5	530000 / 2650
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	14.1			13.38		
			0	109	1	14.1			13.62		
			0	215	1	14.1			13.40		
			0	0	108	14.1			13.38		
			0	55	108	14.1			13.57		
			0	109	108	14.1			13.46		
			0	0	216	14.1			13.52		
DFTS-OFDM	QPSK	30	0	1	1	14.1			13.39		
			0	109	1	14.1			13.52		
			0	215	1	14.1			13.40		
			0	0	108	14.1			13.46		
			0	55	108	14.1			13.52		
			0	109	108	14.1			13.50		
			0	0	216	14.1			13.39		
DFTS-OFDM	16QAM	30	0	1	1	14.1			13.48		
DFTS-OFDM	64QAM	30	0	1	1	14.1			13.40		
DFTS-OFDM	256QAM	30	0	1	1	14.1			13.46		
CP-OFDM	QPSK	30	0	1	1	14.1			13.44		

BW		60 MHz					ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	505200 / 2526	511900 / 2559.5	518600 / 2593	525300 / 2626.5	532000 / 2660
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	14.1	13.42		13.52		13.12
			0	81	1	14.1	13.59		13.64		13.15
			0	160	1	14.1	13.50		13.54		13.11
			0	0	81	14.1	13.44		13.50		12.96
			0	40	81	14.1	13.52		13.60		13.00
			0	81	81	14.1	13.42		13.45		12.92
			0	0	162	14.1	13.36		13.42		12.99
DFTS-OFDM	QPSK	30	0	1	1	14.1	13.50		13.42		13.00
			0	81	1	14.1	13.51		13.48		13.06
			0	160	1	14.1	13.40		13.44		13.10
			0	0	81	14.1	13.48		13.46		13.05
			0	40	81	14.1	13.50		13.50		12.97
			0	81	81	14.1	13.46		13.41		13.10
			0	0	162	14.1	13.35		13.50		13.05
DFTS-OFDM	16QAM	30	0	1	1	14.1	13.38		13.40		13.02
DFTS-OFDM	64QAM	30	0	1	1	14.1	13.50		13.42		12.91
DFTS-OFDM	256QAM	30	0	1	1	14.1	13.52		13.48		13.02
CP-OFDM	QPSK	30	0	1	1	14.1	13.56		13.53		13.11

BW		50 MHz					ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	504200 / 2521	511400 / 2557	518600 / 2593	525800 / 2629	533000 / 2665
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	14.1	13.40		13.42		13.26
			0	67	1	14.1	13.43		13.50		13.31
			0	131	1	14.1	13.19		13.35		13.24
			0	0	64	14.1	13.32		13.42		13.15
			0	35	64	14.1	13.39		13.28		13.12
			0	69	64	14.1	13.29		13.30		13.09
			0	0	128	14.1	13.22		13.40		13.11
DFTS-OFDM	QPSK	30	0	1	1	14.1	13.35		13.37		13.09
			0	67	1	14.1	13.37		13.42		13.10
			0	131	1	14.1	13.34		13.40		13.08
			0	0	64	14.1	13.27		13.45		13.08
			0	35	64	14.1	13.19		13.28		13.28
			0	69	64	14.1	13.24		13.36		13.16
			0	0	128	14.1	13.33		13.44		13.11
DFTS-OFDM	16QAM	30	0	1	1	14.1	13.37		13.47		13.12
DFTS-OFDM	64QAM	30	0	1	1	14.1	13.27		13.32		13.14
DFTS-OFDM	256QAM	30	0	1	1	14.1	13.30		13.27		13.22
CP-OFDM	QPSK	30	0	1	1	14.1	13.32		13.34		13.30

BW		40 MHz					ch/MHz				
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	503200 / 2516	510900 / 2554.5	518600 / 2593	526300 / 2631.5	534000 / 2670
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
DFTS-OFDM	BPSK	30	0	1	1	14.1	13.12		13.37		13.21
			0	53	1	14.1	13.26		13.51		13.38
			0	104	1	14.1	13.10		13.42		13.25
			0	0	50	14.1	13.06		13.28		13.27
			0	28	50	14.1	13.17		13.33		13.33
			0	56	50	14.1	13.03		13.34		13.28
			0	0	100	14.1	13.15		13.29		13.24
DFTS-OFDM	QPSK	30	0	1	1	14.1	13.10		13.27		13.30
			0	53	1	14.1	13.15		13.41		13.34
			0	104	1	14.1	13.09		13.34		13.29
			0	0	50	14.1	13.03		13.27		13.19
			0	28	50	14.1	13.11		13.35		13.14
			0	56	50	14.1	13.10		13.33		13.22
			0	0	100	14.1	13.09		13.30		13.20
DFTS-OFDM	16QAM	30	0	1	1	14.1	13.15		13.29		13.23
DFTS-OFDM	64QAM	30	0	1	1	14.1	13.09		13.32		13.32
DFTS-OFDM	256QAM	30	0	1	1	14.1	13.04		13.36		13.14
CP-OFDM	QPSK	30	0	1	1	14.1	13.17		13.40		13.16

OFDM	Modulation	20 MHz				ch/MHz					
		SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	501200 / 2506 [dBm]	509900 / 2549.5 [dBm]	518600 / 2593 [dBm]	527300 / 2636.5 [dBm]	536000 / 2680 [dBm]
DFTS-OFDM	BPSK	30	0	1	1	14.1	12.88	12.76	13.46	12.66	12.50
			0	26	1	14.1	13.01	12.88	13.58	12.89	12.59
			0	49	1	14.1	12.92	12.66	13.45	12.71	12.45
			0	0	25	14.1	12.89	12.64	13.36	12.81	12.52
			0	13	25	14.1	12.97	12.66	13.39	12.85	12.58
			0	26	25	14.1	12.92	12.72	13.42	12.70	12.47
			0	0	50	14.1	12.86	12.64	13.40	12.79	12.51
DFTS-OFDM	QPSK	30	0	1	1	14.1	12.83	12.68	13.50	12.68	12.45
			0	26	1	14.1	12.95	12.84	13.44	12.88	12.56
			0	49	1	14.1	12.88	12.65	13.52	12.69	12.53
			0	0	25	14.1	12.78	12.71	13.41	12.72	12.46
			0	13	25	14.1	12.82	12.67	13.44	12.67	12.55
			0	26	25	14.1	12.77	12.73	13.42	12.68	12.48
			0	0	50	14.1	12.80	12.65	13.40	12.66	12.50
DFTS-OFDM	16QAM	30	0	1	1	14.1	12.83	12.64	13.42	12.67	12.52
DFTS-OFDM	64QAM	30	0	1	1	14.1	12.89	12.66	13.39	12.76	12.38
DFTS-OFDM	256QAM	30	0	1	1	14.1	12.92	12.70	13.53	12.73	12.50
CP-OFDM	QPSK	30	0	1	1	14.1	12.93	12.76	13.52	12.78	12.55

11.5.7 NR band n66 DSI=0, full power

OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	ch/MHz		
							344000 / 1720 [dBm]	349000 / 1745 [dBm]	354000 / 1770 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	23.5	22.84	22.83	22.80
				53	1	23.5	22.77	22.78	22.75
				104	1	23.5	22.89	22.90	22.89
				0	50	23.0	22.38	22.31	22.28
				28	50	23.5	22.80	22.82	22.74
				56	50	23.0	22.29	22.35	22.27
				0	100	23.0	22.34	22.29	22.25
DFTS-OFDM	QPSK	15	0	1	1	23.5	22.84	22.81	22.88
				53	1	23.5	22.68	22.80	22.79
				104	1	23.5	22.85	22.87	22.80
				0	50	22.5	21.79	21.73	21.76
				28	50	23.5	22.76	22.72	22.73
				56	50	22.5	21.73	21.78	21.74
				0	100	22.5	21.77	21.81	21.77
DFTS-OFDM	16QAM	15	1	1	1	22.5	21.84	21.89	21.85
DFTS-OFDM	64QAM	15	2.5	1	1	21.0	20.25	20.39	20.31
DFTS-OFDM	256QAM	15	4.5	1	1	19.0	18.24	18.16	18.17
CP-OFDM	QPSK	15	1.5	1	1	22.0	21.15	21.30	21.36

OFDM	Modulation	15 MHz		ch/MHz					
		SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	343500 / 1717.5 [dBm]	349000 / 1745 [dBm]	354500 / 1772.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	23.5	22.92	22.91	22.82
			0	40	1	23.5	22.87	22.86	22.77
			0	77	1	23.5	22.96	23.01	22.89
			0.5	0	36	23.0	22.38	22.32	22.25
			0	22	36	23.5	22.78	22.85	22.76
			0.5	43	36	23.0	22.40	22.41	22.21
			0.5	0	75	23.0	22.34	22.39	22.29
DFTS-OFDM	QPSK	15	0	1	1	23.5	22.84	22.84	22.76
			0	40	1	23.5	22.78	22.82	22.65
			0	77	1	23.5	22.88	22.94	22.78
			1	0	36	22.5	21.81	21.82	21.66
			0	22	36	23.5	22.80	22.87	22.68
			1	43	36	22.5	21.83	21.85	21.76
			1	0	75	22.5	21.86	21.88	21.76
DFTS-OFDM	16QAM	15	1	1	1	22.5	21.75	21.73	21.76
DFTS-OFDM	64QAM	15	2.5	1	1	21.0	20.43	20.37	20.35
DFTS-OFDM	256QAM	15	4.5	1	1	19.0	18.31	18.31	18.22
CP-OFDM	QPSK	15	1.5	1	1	22.0	21.19	21.25	21.20

OFDM	Modulation	10 MHz					ch/MHz		
		SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	343000 / 1715 [dBm]	349000 / 1745 [dBm]	355000 / 1775 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	23.5	22.87	22.88	22.91
			0	26	1	23.5	22.90	22.87	22.89
			0	50	1	23.5	22.92	22.95	22.92
			0.5	0	25	23.0	22.30	22.34	22.34
			0	14	25	23.5	22.81	22.85	22.91
			0.5	27	25	23.0	22.33	22.36	22.35
			0.5	0	50	23.0	22.34	22.38	22.34
DFTS-OFDM	QPSK	15	0	1	1	23.5	22.81	22.86	22.90
			0	26	1	23.5	22.82	22.79	22.79
			0	50	1	23.5	22.77	22.74	22.85
			1	0	25	22.5	21.82	21.81	21.83
			0	14	25	23.5	22.81	22.84	22.84
			1	27	25	22.5	21.76	21.78	21.81
			1	0	50	22.5	21.86	21.83	21.87
DFTS-OFDM	16QAM	15	1	1	1	22.5	21.73	21.78	21.83
DFTS-OFDM	64QAM	15	2.5	1	1	21.0	20.40	20.42	20.34
DFTS-OFDM	256QAM	15	4.5	1	1	19.0	18.30	18.31	18.31
CP-OFDM	QPSK	15	1.5	1	1	22.0	21.26	21.23	21.22

OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	ch/MHz		
							342500 / 1712.5 [dBm]	349000 / 1745 [dBm]	355500 / 1777.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	23.5	22.82	22.84	22.84
			0	13	1	23.5	22.86	22.93	22.90
			0	23	1	23.5	22.87	22.96	22.93
			0.5	0	12	23.0	22.31	22.35	22.36
			0	7	12	23.5	22.77	22.86	22.84
			0.5	13	12	23.0	22.28	22.37	22.39
			0.5	0	25	23.0	22.29	22.29	22.32
DFTS-OFDM	QPSK	15	0	1	1	23.5	22.81	22.83	22.76
			0	13	1	23.5	22.80	22.80	22.83
			0	23	1	23.5	22.74	22.86	22.85
			1	0	12	22.5	21.80	21.79	21.82
			0	7	12	23.5	22.78	22.85	22.83
			1	13	12	22.5	21.77	21.84	21.80
			1	0	25	22.5	21.78	21.82	21.80
DFTS-OFDM	16QAM	15	1	1	1	22.5	21.72	21.80	21.75
DFTS-OFDM	64QAM	15	2.5	1	1	21.0	20.28	20.32	20.39
DFTS-OFDM	256QAM	15	4.5	1	1	19.0	18.25	18.28	18.32
CP-OFDM	QPSK	15	1.5	1	1	22.0	21.15	21.30	21.19

11.5.8 NR band n66 DSI=1, reduction power

BW

20 MHz

ch/MHz

OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	344000 /	349000 /	354000 /
							1720 [dBm]	1745 [dBm]	1770 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	18.1	17.26	17.28	17.22
				53	1	18.1	17.16	17.20	17.16
				104	1	18.1	17.25	17.25	17.24
				0	50	18.1	17.21	17.18	17.25
				28	50	18.1	17.22	17.26	17.27
				56	50	18.1	17.19	17.25	17.21
				0	100	18.1	17.16	17.27	17.26
DFTS-OFDM	QPSK	15	0	1	1	18.1	17.25	17.25	17.24
				53	1	18.1	17.11	17.15	17.19
				104	1	18.1	17.24	17.23	17.18
				0	50	18.1	17.21	17.27	17.29
				28	50	18.1	17.20	17.26	17.23
				56	50	18.1	17.17	17.24	17.22
				0	100	18.1	17.19	17.27	17.27
DFTS-OFDM	16QAM	15	0	1	1	18.1	17.11	16.98	17.04
DFTS-OFDM	64QAM	15	0	1	1	18.1	17.29	17.30	17.34
				53	1	18.1	17.22	17.27	17.27
				104	1	18.1	17.32	17.34	17.38
				0	50	18.1	17.18	17.25	17.17
				28	50	18.1	17.12	17.23	17.28
				56	50	18.1	17.16	17.24	17.21
				0	100	18.1	17.19	17.25	17.21
DFTS-OFDM	256QAM	15	0	1	1	18.1	17.36	17.35	17.39
				53	1	18.1	17.19	17.31	17.32
				104	1	18.1	17.41	17.34	17.35
				0	50	18.1	17.25	17.33	17.35
				28	50	18.1	17.22	17.29	17.27
				56	50	18.1	17.19	17.30	17.25
				0	100	18.1	17.23	17.26	17.26
CP-OFDM	QPSK	15	0	1	1	18.1	17.55	17.57	17.56
				53	1	18.1	17.48	17.56	17.60
				104	1	18.1	17.54	17.48	17.51
				0	50	18.1	17.26	17.30	17.31
				28	50	18.1	17.24	17.26	17.29
				56	50	18.1	17.22	17.23	17.30
				0	100	18.1	17.20	17.25	17.31

OFDM	Modulation	15 MHz		ch/MHz					
		SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	343500 / 1717.5 [dBm]	349000 / 1745 [dBm]	354500 / 1772.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	18.1	17.17	17.28	17.27
			0	40	1	18.1	17.11	17.21	17.14
			0	77	1	18.1	17.23	17.25	17.22
			0	0	36	18.1	17.21	17.29	17.24
			0	22	36	18.1	17.13	17.16	17.16
			0	43	36	18.1	17.18	17.22	17.19
			0	0	75	18.1	17.17	17.22	17.22
DFTS-OFDM	QPSK	15	0	1	1	18.1	17.26	17.30	17.26
			0	40	1	18.1	17.23	17.14	17.11
			0	77	1	18.1	17.24	17.26	17.23
			0	0	36	18.1	17.23	17.25	17.21
			0	22	36	18.1	17.16	17.19	17.15
			0	43	36	18.1	17.21	17.23	17.20
			0	0	75	18.1	17.21	17.27	17.23
DFTS-OFDM	16QAM	15	0	1	1	18.1	17.04	17.07	17.04
DFTS-OFDM	64QAM	15	0	1	1	18.1	17.35	17.38	17.31
			0	40	1	18.1	17.28	17.34	17.26
			0	77	1	18.1	17.36	17.40	17.29
			0	0	36	18.1	17.27	17.32	17.27
			0	22	36	18.1	17.21	17.24	17.18
			0	43	36	18.1	17.22	17.23	17.19
			0	0	75	18.1	17.27	17.22	17.17
DFTS-OFDM	256QAM	15	0	1	1	18.1	17.24	17.45	17.39
			0	40	1	18.1	17.11	17.21	17.23
			0	77	1	18.1	17.34	17.37	17.32
			0	0	36	18.1	17.25	17.33	17.28
			0	22	36	18.1	17.20	17.26	17.18
			0	43	36	18.1	17.23	17.25	17.21
			0	0	75	18.1	17.23	17.26	17.23
CP-OFDM	QPSK	15	0	1	1	18.1	17.56	17.62	17.60
			0	40	1	18.1	17.52	17.63	17.57
			0	77	1	18.1	17.51	17.58	17.54
			0	0	36	18.1	17.20	17.27	17.23
			0	22	36	18.1	17.11	17.19	17.16
			0	43	36	18.1	17.15	17.24	17.20
			0	0	75	18.1	17.21	17.29	17.24

OFDM	Modulation	10 MHz				ch/MHz			
		SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	343000 / 1715 [dBm]	349000 / 1745 [dBm]	355000 / 1775 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	18.1	17.17	17.21	17.30
			0	26	1	18.1	17.15	17.27	17.28
			0	50	1	18.1	17.14	17.29	17.27
			0	0	25	18.1	17.15	17.17	17.24
			0	14	25	18.1	17.13	17.13	17.22
			0	27	25	18.1	17.12	17.26	17.21
			0	0	50	18.1	17.15	17.17	17.23
DFTS-OFDM	QPSK	15	0	1	1	18.1	17.20	17.22	17.38
			0	26	1	18.1	17.19	17.36	17.40
			0	50	1	18.1	17.12	17.29	17.35
			0	0	25	18.1	17.19	17.11	17.25
			0	14	25	18.1	17.15	17.15	17.23
			0	27	25	18.1	17.14	17.17	17.22
			0	0	50	18.1	17.18	17.21	17.26
DFTS-OFDM	16QAM	15	0	1	1	18.1	17.01	17.11	17.25
DFTS-OFDM	64QAM	15	0	1	1	18.1	17.28	17.16	17.32
			0	26	1	18.1	17.15	17.23	17.26
			0	50	1	18.1	17.25	17.24	17.25
			0	0	25	18.1	17.15	17.07	17.24
			0	14	25	18.1	17.14	17.16	17.22
			0	27	25	18.1	17.12	17.17	17.18
			0	0	50	18.1	17.14	17.24	17.24
DFTS-OFDM	256QAM	15	0	1	1	18.1	17.26	17.08	17.24
			0	26	1	18.1	17.23	17.18	17.22
			0	50	1	18.1	17.15	17.19	17.19
			0	0	25	18.1	17.06	17.07	17.23
			0	14	25	18.1	17.09	17.18	17.25
			0	27	25	18.1	17.03	17.16	17.21
			0	0	50	18.1	17.16	17.19	17.27
CP-OFDM	QPSK	15	0	1	1	18.1	17.55	17.19	17.27
			0	26	1	18.1	17.57	17.26	17.34
			0	50	1	18.1	17.39	17.25	17.29
			0	0	25	18.1	17.14	17.20	17.31
			0	14	25	18.1	17.16	17.24	17.28
			0	27	25	18.1	17.15	17.28	17.32
			0	0	50	18.1	17.13	17.26	17.30

OFDM	Modulation	5 MHz					ch/MHz		
		SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	342500 / 1712.5 [dBm]	349000 / 1745 [dBm]	355500 / 1777.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	18.1	17.25	17.26	17.28
			0	13	1	18.1	17.28	17.35	17.29
			0	23	1	18.1	17.23	17.34	17.25
			0	0	12	18.1	17.22	17.22	17.25
			0	7	12	18.1	17.21	17.23	17.24
			0	13	12	18.1	17.19	17.20	17.23
			0	0	25	18.1	17.15	17.17	17.22
DFTS-OFDM	QPSK	15	0	1	1	18.1	17.35	17.34	17.40
			0	13	1	18.1	17.37	17.40	17.42
			0	23	1	18.1	17.33	17.42	17.34
			0	0	12	18.1	17.24	17.26	17.26
			0	7	12	18.1	17.26	17.27	17.29
			0	13	12	18.1	17.23	17.22	17.25
			0	0	25	18.1	17.21	17.20	17.23
DFTS-OFDM	16QAM	15	0	1	1	18.1	17.22	17.20	17.25
DFTS-OFDM	64QAM	15	0	1	1	18.1	17.20	17.20	17.22
DFTS-OFDM	256QAM	15	0	1	1	18.1	17.13	17.13	17.17
CP-OFDM	QPSK	15	0	1	1	18.1	17.22	17.20	17.23

11.5.9 NR band n71 DSI=0, full power

BW		20 MHz		ch/MHz			
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	136100 / 680.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	24.5	22.75
			0	53	1	24.5	22.55
			0	104	1	24.5	22.54
			0.5	0	50	24.0	22.14
			0	28	50	24.5	22.53
			0.5	56	50	24.0	22.04
DFTS-OFDM	QPSK	15	0	1	1	24.5	22.72
			0	53	1	24.5	22.56
			0	104	1	24.5	22.51
			1	0	50	23.5	21.64
			0	28	50	24.5	22.60
			1	56	50	23.5	21.53
			1	0	100	23.5	21.62
DFTS-OFDM	16QAM	15	1	1	1	23.5	21.74
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.24
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.24
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.20

BW		15 MHz		ch/MHz			
OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	136100 / 680.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	24.5	22.73
			0	40	1	24.5	22.54
			0	77	1	24.5	22.60
			0.5	0	36	24.0	22.17
			0	22	36	24.5	22.51
			0.5	43	36	24.0	22.03
			0.5	0	75	24.0	22.07
DFTS-OFDM	QPSK	15	0	1	1	24.5	22.82
			0	40	1	24.5	22.75
			0	77	1	24.5	22.71
			1	0	36	23.5	21.66
			0	22	36	24.5	22.67
			1	43	36	23.5	21.51
			1	0	75	23.5	21.56
DFTS-OFDM	16QAM	15	1	1	1	23.5	21.51
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.30
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.28
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.31

BW		10 MHz					ch/MHz			
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	133600 / 668	136100 / 680.5	138600 / 693	
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	
DFTS-OFDM	BPSK	15	0	1	1	24.5	22.83	22.64	22.59	
			0	26	1	24.5	22.68	22.51	22.51	
			0	50	1	24.5	22.73	22.52	22.53	
			0.5	0	25	24.0	22.22	22.06	22.05	
			0	14	25	24.5	22.68	22.53	22.52	
			0.5	27	25	24.0	22.23	22.02	22.03	
DFTS-OFDM	QPSK	15	0	1	1	24.5	22.92	22.75	22.71	
			0	26	1	24.5	22.84	22.73	22.69	
			0	50	1	24.5	22.70	22.74	22.68	
			1	0	25	23.5	21.73	21.58	21.57	
			0	14	25	24.5	22.77	22.54	22.56	
			1	27	25	23.5	21.69	21.53	21.52	
			1	0	50	23.5	21.69	21.52	21.56	
DFTS-OFDM	16QAM	15	1	1	1	23.5	21.70	21.58	21.54	
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.40	20.14	20.07	
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.35	18.11	18.18	
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.41	21.23	21.20	

BW		5 MHz					ch/MHz			
OFDM	Modulation	SCS	Max. MPR	RB offset	RB size	Tune-up limit	133100 / 665.5	136100 / 680.5	139100 / 695.5	
		[kHz]	[dB]			[dBm]	[dBm]	[dBm]	[dBm]	
DFTS-OFDM	BPSK	15	0	1	1	24.5	22.83	22.62	22.58	
			0	13	1	24.5	22.78	22.60	22.54	
			0	23	1	24.5	22.75	22.56	22.52	
			0.5	0	12	24.0	22.30	22.12	22.05	
			0	7	12	24.5	22.83	22.57	22.54	
			0.5	13	12	24.0	22.26	22.08	22.03	
			0.5	0	25	24.0	22.30	22.07	22.08	
DFTS-OFDM	QPSK	15	0	1	1	24.5	22.97	22.80	22.63	
			0	13	1	24.5	22.91	22.78	22.59	
			0	23	1	24.5	22.79	22.63	22.57	
			1	0	12	23.5	21.81	21.64	21.56	
			0	7	12	24.5	22.80	22.62	22.53	
			1	13	12	23.5	21.75	21.59	21.52	
			1	0	25	23.5	21.76	21.56	21.59	
DFTS-OFDM	16QAM	15	1	1	1	23.5	21.74	21.62	21.57	
DFTS-OFDM	64QAM	15	2.5	1	1	22.0	20.28	20.14	20.03	
DFTS-OFDM	256QAM	15	4.5	1	1	20.0	18.44	18.20	18.11	
CP-OFDM	QPSK	15	1.5	1	1	23.0	21.25	21.24	21.12	

11.5.10 NR band n71 DSI=1, reduction power

OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	ch/MHz	
							136100 / 680.5 20MBW [dBm]	136100 / 680.5 15MBW [dBm]
DFTS-OFDM	BPSK	15	0	1	1	19.7	18.58	18.38
				53	1	19.7	18.46	18.27
				104	1	19.7	18.39	18.23
				0	50	19.7	18.49	18.26
				28	50	19.7	18.52	18.23
				56	50	19.7	18.40	18.22
				0	100	19.7	18.48	18.24
DFTS-OFDM	QPSK	15	0	1	1	19.7	18.49	18.46
				53	1	19.7	18.43	18.41
				104	1	19.7	18.38	18.34
				0	50	19.7	18.48	18.26
				28	50	19.7	18.45	18.22
				56	50	19.7	18.39	18.12
				0	100	19.7	18.50	18.26
DFTS-OFDM	16QAM	15	0	1	1	19.7	18.54	18.24
DFTS-OFDM	64QAM	15	0	1	1	19.7	18.51	18.35
DFTS-OFDM	256QAM	15	0	1	1	19.7	18.42	18.14
CP-OFDM	QPSK	15	0	1	1	19.7	18.42	18.13

OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	ch/MHz		
							133600 / 668 [dBm]	136100 / 680.5 [dBm]	138600 / 693 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	19.7	18.44	18.19	18.27
				26	1	19.7	18.30	18.22	18.14
				50	1	19.7	18.27	18.23	18.01
				0	25	19.7	18.35	18.15	18.10
				14	25	19.7	18.23	18.18	18.09
				27	25	19.7	18.19	18.13	18.06
				0	50	19.7	18.29	18.23	18.17
DFTS-OFDM	QPSK	15	0	1	1	19.7	18.50	18.30	18.19
				26	1	19.7	18.36	18.37	18.13
				50	1	19.7	18.22	18.29	18.00
				0	25	19.7	18.36	18.17	18.14
				14	25	19.7	18.28	18.18	18.09
				27	25	19.7	18.26	18.16	18.07
				0	50	19.7	18.33	18.20	18.11
DFTS-OFDM	16QAM	15	0	1	1	19.7	18.19	18.09	18.21
DFTS-OFDM	64QAM	15	0	1	1	19.7	18.23	18.12	18.00
DFTS-OFDM	256QAM	15	0	1	1	19.7	18.19	18.06	18.09
CP-OFDM	QPSK	15	0	1	1	19.7	18.53	18.12	17.98
				26	1	19.7	18.63	18.14	17.83
				50	1	19.7	18.57	18.15	17.82
				0	25	19.7	18.21	18.14	18.18
				14	25	19.7	18.19	18.15	18.12
				27	25	19.7	18.23	18.12	18.04
				0	50	19.7	18.20	18.22	18.08

OFDM	Modulation	SCS [kHz]	Max. MPR [dB]	RB offset	RB size	Tune-up limit [dBm]	ch/MHz		
							133100 / 665.5 [dBm]	136100 / 680.5 [dBm]	139100 / 695.5 [dBm]
DFTS-OFDM	BPSK	15	0	1	1	19.7	18.56	18.22	18.16
				13	1	19.7	18.42	18.12	17.94
				23	1	19.7	18.33	18.07	17.90
				0	12	19.7	18.32	18.13	17.99
				7	12	19.7	18.35	18.11	17.94
				13	12	19.7	18.25	18.08	17.90
				0	25	19.7	18.27	18.07	17.88
DFTS-OFDM	QPSK	15	0	1	1	19.7	18.32	18.09	18.05
				13	1	19.7	18.28	17.98	17.82
				23	1	19.7	18.19	17.99	17.83
				0	12	19.7	18.41	18.11	18.02
				7	12	19.7	18.40	18.14	17.99
				13	12	19.7	18.28	18.06	17.90
				0	25	19.7	18.31	18.11	17.92
DFTS-OFDM	16QAM	15	0	1	1	19.7	18.45	18.28	18.26
				13	1	19.7	18.44	18.28	18.16
				23	1	19.7	18.31	18.13	18.04
				0	12	19.7	18.33	18.07	18.06
				7	12	19.7	18.25	18.06	17.92
				13	12	19.7	18.19	18.00	17.91
				0	25	19.7	18.27	18.10	17.99
DFTS-OFDM	64QAM	15	0	1	1	19.7	18.52	18.35	18.22
				13	1	19.7	18.46	18.31	18.14
				23	1	19.7	18.43	18.22	18.07
				0	12	19.7	18.31	18.02	18.00
				7	12	19.7	18.27	18.06	17.90
				13	12	19.7	18.18	18.04	17.87
				0	25	19.7	18.22	18.08	17.94
DFTS-OFDM	256QAM	15	0	1	1	19.7	18.38	18.05	18.05
CP-OFDM	QPSK	15	0	1	1	19.7	18.20	18.08	18.01

11.6 Measurement configuration for SAR and PD

11.6.1 SAR evaluation procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the E-field at a fixed location above the ear point or central position of flat phantom was used as a reference value for assessing the power drop.

Step 2: The SAR distribution at the exposed side of head or body position was measured at a distance of each device from the inner surface of the shell. The area covered the entire dimension of the antenna of EUT and the horizontal grid spacing was 15 mm x 15 mm, 12 mm x 12 mm or 10mm x 10mm. Based on these data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Around this point found in the Step 2 (area scan), a volume of 30mm x 30mm x 30mm or more was assessed by measuring 7 x 7 x 7 points at least for below 3GHz and a volume of 28 mm x 28mm x 22.5mm or more was assessed by measuring 8 x 8 x 6(ratio step method (*1)) points at least for 5GHz band.

And for any secondary peaks found in the Step2 which are within 2dB of maximum peak and not with this Step3 (Zoom scan) is repeated. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

(1). The data at the surface were extrapolated, since the center of the dipoles is 1mm(EX3DV4) away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm [4]. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.

(2). The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one-dimensional splines with the "Not a knot"-condition (in x, y and z-directions) [4], [5]. The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.

(3). All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

***1. Ratio step method parameters used;**

The first measurement point: 2mm from the phantom surface, the initial grid separation: 2mm, subsequent graded grid ratio: 1.5 These parameters comply with the requirement of the KDB 865664D01.

Step 4: Re-measurement of the E-field at the same location as in Step 1.

Confirmation after SAR testing

It was checked that the power drift [W] is within +/-5%.The verification of power drift during the SAR test is that DASY5 system calculates the power drift by measuring the e-filed at the same location at beginning and the end of the scan measurement for each test position.

DASY5/6 system calculation Power drift value[dB] =20log(Ea)/(Eb)

Before SAR testing : Eb[V/m]

After SAR testing : Ea[V/m]

Limit of power drift[W] =+/-5%

X[dB]=10log[P]=10log(1.05/1)=10log(1.05)-10log(1)=0.212dB

from E-filed relations with power.

$p=E^2/\eta=E^2/$

Therefore, The correlation of power and the E-filed

$XdB=10log(P)=10log(E)^2=20log(E)$

Therefore,

The calculated power drift of DASY5 System must be the less than +/-0.212dB.

Step size.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 mm ± 1 mm	1/2 · δ · ln(2) mm ± 0.5 mm
Maximum probe angle from probe axis to phantomsurface normal at the measurement location	30° ± 1°	30° ± 1°
Maximum area scan spatial resolution: Δx _{Area} , Δy _{Area}	≤ 2 GHz: ≤ 15 mm 2 - 3 GHz: ≤ 12 mm	3 - 4 GHz: ≤ 12 mm 4 - 6 GHz: ≤ 10 mm
Maximum zoom scan spatial resolution: Δx _{Zoom} , Δy _{Zoom}	≤ 2 GHz: ≤ 8 mm 2 - 3 GHz: ≤ 5 mm	3 - 4 GHz: ≤ 5 mm [†] 4 - 6 GHz: ≤ 4 mm [†]
Maximum zoom scan spatial resolution, normal tophantom surface	uniform grid: Δz _{Zoom} (n)	3 - 4 GHz: ≤ 4 mm 4 - 5 GHz: ≤ 3 mm 5 - 6 GHz: ≤ 2 mm
	gradedgrid	3 - 4 GHz: ≤ 3 mm 4 - 5 GHz: ≤ 2.5 mm 5 - 6 GHz: ≤ 2 mm
	Δz _{Zoom} (1): between 1 st two points closestto phantom surface	≤ 4 mm
	Δz _{Zoom} (n>1): between subsequentpoints	≤ 1.5 · Δz _{Zoom} (n-1) mm
Minimum zoomscan volume	x, y, z	≥ 30 mm 3 - 4 GHz: ≥ 28 mm 4 - 5 GHz: ≥ 25 mm 5 - 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std1528-2013 for details.
[†] When zoom scan is required and the *repeated* SAR from the *area scan based 1-g SAR estimation* procedures ofKDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

11.6.2 KDB 447498 D01 (General RF Exposure Guidance):

Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

- ◇ ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- ◇ ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- ◇ ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

11.6.3 KDB 941225 D01 (SAR test for 3G device):

When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ration of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

11.6.4 KDB 941225 D01 (SAR for LTE Devices):

SAR test reduction is applied using the following criteria:

- Beginning with QPSK modulation at the largest channel bandwidth, testing for 1 RB allocation configurations is initially performed for the channel/RB offset combination with the highest output power among 1 RB allocation configurations.
 - o When the reported SAR for the initial measurement is < 0.8 W/kg, no further assessment is required for 1 RB allocation configurations.
 - o When the reported SAR for the initial measurement is > 0.8 W/kg, the remaining channels are evaluated using the RB offset with the highest output power within the respective channels.
 - o For all reported SAR that is > 1.45 W/kg, SAR, SAR is required for the remaining RB offset configurations of the same channel.
- The same procedures apply to QPSK 50% RB allocation configurations at the largest channel bandwidth.
- Testing for 100% RB allocation configurations at the largest channel bandwidth is performed for the channel, across low, mid and high, with the highest output power, when the highest reported SAR for either 1 RB or 50% RB is ≥ 0.8 W/kg, or when the maximum output power among 100% RB allocation configurations is greater than the maximum output power among either 1 RB or 50% RB allocation configurations.
 - o Testing for the remaining channels in 100% RB allocation configurations is required only when reported SAR for the initial 100% RB allocation configuration is > 1.45 W/kg.
- Testing for higher order modulations (16-QAM or 64-QAM) is required only when the highest reported SAR for QPSK is > 1.45 W/Kg or if its output power is more than 0.5 dB higher than that of QPSK.
- Testing for the other channel bandwidths is required only when the highest reported SAR for the highest channel bandwidth is > 1.45 W/Kg or if its output power is more than 0.5 dB higher than that of the highest channel bandwidth.

11.6.5 KDB 248227 D01 (SAR Guidance for 802.11(Wi-Fi) Transmitters):

SAR test reduction for 802.11 WLAN transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions. An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements. For 2.4 GHz DSSS, either the initial test position or DSSS procedure is applied to reduce the number of SAR tests; these are mutually exclusive. For OFDM, an initial test position is only applicable to next to the ear, UMPC mini-tablet and hotspot mode configurations, which is tested using the initial test configuration to facilitate test reduction. For other exposure conditions with a fixed test position, SAR test reduction is determined using only the initial test configuration.

The multiple test positions require SAR measurements in head, hotspot mode or UMPC mini-tablet configurations may be reduced according to the highest reported SAR determined using the *initial test position(s)* by applying the DSSS or OFDM SAR measurement procedures in the required wireless mode test configuration(s). The *initial test position(s)* is measured using the highest measured maximum output power channel in the required wireless mode test configuration(s). When the *reported* SAR for the *initial test position* is:

- ◇ ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.
- ◇ > 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the *initial test position* to measure the subsequent next closest/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the *reported* SAR is ≤ 0.8 W/kg or all required test positions are tested.
 - For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
 - When it is unclear, all equivalent conditions must be tested.
- ◇ For all positions/configurations tested using the *initial test position* and subsequent test positions, when the *reported* SAR is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the *reported* SAR is ≤ 1.2 W/kg or all required test channels are considered.
 - The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.
- ◇ When the specified maximum output power is the same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the reported SAR for UNII 2A is ≤ 1.2 W/kg, SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.
- ◇ When the specified maximum output power is different between UNII 1 and UNII 2A, begin SAR with the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is ≤ 1.2 W/kg, testing for the band with the lower specified output power is not required; otherwise test the remaining bands independently for SAR.

To determine the *initial test position*, Area Scans were performed to determine the position with the *Maximum Value of SAR (measured)*. The position that produced the highest *Maximum Value of SAR* is considered the worst case position; thus used as the *initial test position*.

11.6.6 KDB 447498 D01 (General RF Exposure Guidance):

Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

- ◇ ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- ◇ ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- ◇ ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

- According to Notice 2016-DRS001 based on the IEEE1528 and IEC 62209 requirements, the low, mid and high frequency channels for the configuration with the highest SAR value must be tested regardless of the SAR value measured.
- When reported SAR value is exceed 1.2W/kg(if any), device holder perturbation verification is required; however, since distance between device holder and antenna of EUT is enough, it was not conducted.
- Reported SAR= Measured SAR [W/kg] · Scaled factor
* Scaled factor = Maximum tune-up tolerance limit [mW] / Measured power [mW]
- Maximum tune-up tolerance limit is by the specification from a customer.

Note: Measured value is rounded round off to three decimal places

11.7 SAR result(FCC)

11.7.1 W-CDMA band 2 DSI=0, full power

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.	Note
					Tune-up limit	Meas.	Meas.	Scaled		
Edge1	0	Rel 99 RMC 12.2 kbps	9262	1852.4	24.5	23.57				
			9400	1880.0	24.5	23.43	0.174	0.223		
			9538	1907.6	24.5	23.30				
Edge3	0	Rel 99 RMC 12.2 kbps	9262	1852.4	24.5	23.57				
			9400	1880.0	24.5	23.43	0.184	0.235		
			9538	1907.6	24.5	23.30				
Edge4	19	Rel 99 RMC 12.2 kbps	9262	1852.4	24.5	23.57				
			9400	1880	24.5	23.43	0.264	0.338		
			9538	1907.6	24.5	23.3				
Rear	9	Rel 99 RMC 12.2 kbps	9262	1852.4	24.5	23.57				
			9400	1880.0	24.5	23.43	0.427	0.546		
			9538	1907.6	24.5	23.30				
Rear tilt (Edge4 side)	9	Rel 99 RMC 12.2 kbps	9262	1852.4	24.5	23.57	0.361	0.447		
			9400	1880.0	24.5	23.43	0.641	0.820		
			9538	1907.6	24.5	23.30	0.350	0.461		
Rear tilt (Edge1 side)	0	Rel 99 RMC 12.2 kbps	9262	1852.4	24.5	23.57	0.670	0.830		
			9400	1880.0	24.5	23.43	0.722	0.924	W2.1	
			9538	1907.6	24.5	23.30	0.637	0.840		

11.7.2 W-CDMA band 2 DSI=1, reduction power

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.	Note
					Tune-up limit	Meas.	Meas.	Scaled		
Edge4	0	Rel 99 RMC 12.2 kbps	9262	1852.4	17.4	16.43	0.615	0.769		
			9400	1880.0	17.4	16.33	0.664	0.850		
			9538	1907.6	17.4	16.14	0.685	0.916	W2.2	
Rear tilt (Edge4 side)	0	Rel 99 RMC 12.2 kbps	9262	1852.4	17.4	16.43				
			9400	1880.0	17.4	16.33	0.459	0.587		
			9538	1907.6	17.4	16.14				
Rear	0	Rel 99 RMC 12.2 kbps	9262	1852.4	17.4	16.43				
			9400	1880.0	17.4	16.33	0.268	0.343		
			9538	1907.6	17.4	16.14				

11.7.3 W-CDMA band 4 DSI=0, full power

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.	Note
					Tune-up limit	Meas.	Meas.	Scaled		
Edge1	0	Rel 99 RMC 12.2 kbps	1312	1712.4	23.7	23.03				
			1413	1732.6	23.7	23.22	0.233	0.260		
			1513	1752.6	23.7	23.35				
Edge3	0	Rel 99 RMC 12.2 kbps	1312	1712.4	23.7	23.03				
			1413	1732.6	23.7	23.22	0.187	0.209		
			1513	1752.6	23.7	23.35				
Edge4	19	Rel 99 RMC 12.2 kbps	1312	1712.4	23.7	23.03	0.877	1.023		
			1413	1732.6	23.7	23.22	0.851	0.950		
			1513	1752.6	23.7	23.35	0.788	0.854		
Rear	9	Rel 99 RMC 12.2 kbps	1312	1712.4	23.7	23.03				
			1413	1732.6	23.7	23.22	0.531	0.593		
			1513	1752.6	23.7	23.35				
Rear tilt (Edge4 side)	9	Rel 99 RMC 12.2 kbps	1312	1712.4	23.7	23.03	1.000	1.167	W4.1	
			1413	1732.6	23.7	23.22	0.951	1.062		
			1513	1752.6	23.7	23.35	0.921	0.998		
Rear tilt (Edge1 side)	0	Rel 99 RMC 12.2 kbps	1312	1712.4	23.7	23.03				
			1413	1732.6	23.7	23.22	0.570	0.637		
			1513	1752.6	23.7	23.35				

11.7.4 W-CDMA band 4 DSI=1, reduction power

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.	Note
					Tune-up limit	Meas.	Meas.	Scaled		
Edge4	0	Rel 99 RMC 12.2 kbps	1312	1712.4	17.7	16.47				
			1413	1732.6	17.7	16.70	0.551	0.694	W4.2	
			1513	1752.6	17.7	16.78				
Rear tilt (Edge4 side)	0	Rel 99 RMC 12.2 kbps	1312	1712.4	17.7	16.47				
			1413	1732.6	17.7	16.70	0.537	0.676		
			1513	1752.6	17.7	16.78				
Rear	0	Rel 99 RMC 12.2 kbps	1312	1712.4	17.7	16.47				
			1413	1732.6	17.7	16.70	0.284	0.358		
			1513	1752.6	17.7	16.78				

11.7.5 W-CDMA band 5 DSI=0, full power

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.	Note
					Tune-up limit	Meas.	Meas.	Scaled		
Edge1	0	Rel 99	4132	826.4	24.5	23.59				
		RMC	4183	836.6	24.5	23.38	0.124	0.160		
		12.2 kbps	4233	846.6	24.5	23.15				
Edge3	0	Rel 99	4132	826.4	24.5	23.59				
		RMC	4183	836.6	24.5	23.38	0.062	0.080		
		12.2 kbps	4233	846.6	24.5	23.15				
Edge4	19	Rel 99	4132	826.4	24.5	23.59				
		RMC	4183	836.6	24.5	23.38	0.500	0.647		
		12.2 kbps	4233	846.6	24.5	23.15				
Rear	9	Rel 99	4132	826.4	24.5	23.59				
		RMC	4183	836.6	24.5	23.38	0.499	0.646		
		12.2 kbps	4233	846.6	24.5	23.15				
Rear tilt (Edge4 side)	9	Rel 99	4132	826.4	24.5	23.59	0.311	0.383		
		RMC	4183	836.6	24.5	23.38	0.674	0.872	W5.1	
		12.2 kbps	4233	846.6	24.5	23.15	0.617	0.842		
Rear tilt (Edge1 side)	0	Rel 99	4132	826.4	24.5	23.59	0.493	0.608		
		RMC	4183	836.6	24.5	23.38	0.656	0.849		
		12.2 kbps	4233	846.6	24.5	23.15	0.597	0.815		

11.7.6 W-CDMA band 5 DSI=1, reduction power

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.	Note
					Tune-up limit	Meas.	Meas.	Scaled		
Edge4	0	Rel 99	4132	826.4	17.1	16.19	0.671	0.827		
		RMC	4183	836.6	17.1	15.98	0.668	0.865		
		12.2 kbps	4233	846.6	17.1	15.77	0.647	0.879	W5.2	
Rear tilt (Edge4 side)	0	Rel 99	4132	826.4	17.1	16.19				
		RMC	4183	836.6	17.1	15.98	0.311	0.402		
		12.2 kbps	4233	846.6	17.1	15.77				
Rear	0	Rel 99	4132	826.4	17.1	16.19				
		RMC	4183	836.6	17.1	15.98	0.213	0.276		
		12.2 kbps	4233	846.6	17.1	15.77				

11.7.7 LTE band 2 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	18700	1860	1	0	24.0	22.76	0.611	0.813	L2.1
			18900	1880	1	0	24.0	22.67	0.597	0.811	
			19100	1900	1	0	24.0	22.66	0.585	0.796	
			18700	1860	50	0	23.0	21.90	0.495	0.638	
			18900	1880	50	50	23.0	21.75			
			19100	1900	50	24	23.0	21.68			
			18700	1860	100	0	23.0	21.89	0.491	0.634	
Edge 4	19	QPSK	18700	1860	1	0	24.0	22.76	0.460	0.612	
			18900	1880	1	0	24.0	22.67			
			19100	1900	1	0	24.0	22.66			
			18700	1860	50	0	23.0	21.90	0.370	0.477	
			18900	1880	50	50	23.0	21.75			
			19100	1900	50	24	23.0	21.68			
			18700	1860	100	0	23.0	21.89			
Rear tilt(Edge4 side)	9	QPSK	18700	1860	1	0	24.0	22.76	0.494	0.657	
			18900	1880	1	0	24.0	22.67			
			19100	1900	1	0	24.0	22.66			
			18700	1860	50	0	23.0	21.90	0.421	0.542	
			18900	1880	50	50	23.0	21.75			
			19100	1900	50	24	23.0	21.68			
			18700	1860	100	0	23.0	21.89			
Rear	9	QPSK	18700	1860	1	0	24.0	22.76	0.328	0.436	
			18900	1880	1	0	24.0	22.67			
			19100	1900	1	0	24.0	22.66			
			18700	1860	50	0	23.0	21.90	0.269	0.347	
			18900	1880	50	50	23.0	21.75			
			19100	1900	50	24	23.0	21.68			
			18700	1860	100	0	23.0	21.89			
Edge1	0	QPSK	18700	1860	1	0	24.0	22.76	0.222	0.295	
			18900	1880	1	0	24.0	22.67			
			19100	1900	1	0	24.0	22.66			
			18700	1860	50	0	23.0	21.90	0.171	0.220	
			18900	1880	50	50	23.0	21.75			
			19100	1900	50	24	23.0	21.68			
			18700	1860	100	0	23.0	21.89			
Edge3	0	QPSK	18700	1860	1	0	24.0	22.76	0.232	0.309	
			18900	1880	1	0	24.0	22.67			
			19100	1900	1	0	24.0	22.66			
			18700	1860	50	0	23.0	21.90	0.186	0.240	
			18900	1880	50	50	23.0	21.75			
			19100	1900	50	24	23.0	21.68			
			18700	1860	100	0	23.0	21.89			

11.7.8 LTE band 2 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	18700	1860	1	0	17.6	16.42	0.668	0.877	
			18900	1880	1	0	17.6	16.32	0.660	0.886	
			19100	1900	1	0	17.6	16.31	0.656	0.883	
			18700	1860	50	24	17.6	16.52	0.690	0.885	
			18900	1880	50	50	17.6	16.38	0.684	0.906	
			19100	1900	50	24	17.6	16.32	0.657	0.882	
Rear tilt(Edge4 side)	0	QPSK	18700	1860	100	0	17.6	16.41	0.692	0.910	L2.2
			18900	1880	1	0	17.6	16.42	0.437	0.573	
			18900	1880	1	0	17.6	16.32			
			19100	1900	1	0	17.6	16.31			
			18700	1860	50	24	17.6	16.52	0.451	0.578	
			18900	1880	50	50	17.6	16.38			
Rear	0	QPSK	19100	1900	50	24	17.6	16.32			
			18700	1860	100	0	17.6	16.41			
			18700	1860	1	0	17.6	16.42	0.262	0.344	
			18900	1880	1	0	17.6	16.32			
			19100	1900	1	0	17.6	16.31			
			18700	1860	50	24	17.6	16.52	0.272	0.349	
18900	1880	50	50	17.6	16.38						
19100	1900	50	24	17.6	16.32						
18700	1860	100	0	17.6	16.41						

11.7.9 LTE band 4 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	20050	1720	-	-	24.0	-	-	-	-
			20175	1732.5	1	99	24.0	22.73	0.714	0.957	-
			20300	1745	-	-	24.0	-	-	-	-
			20050	1720	-	-	23.0	-	-	-	-
			20175	1732.5	50	50	23.0	21.85	0.580	0.756	-
			20300	1745	-	-	23.0	-	-	-	-
Edge 4	19	QPSK	20050	1720	-	-	24.0	-	-	-	-
			20175	1732.5	1	99	24.0	22.73	0.776	1.040	-
			20300	1745	-	-	24.0	-	-	-	-
			20050	1720	-	-	23.0	-	-	-	-
			20175	1732.5	50	50	23.0	21.85	0.649	0.846	-
			20300	1745	-	-	23.0	-	-	-	-
Rear tilt(Edge4 side)	9	QPSK	20050	1720	-	-	24.0	-	-	-	-
			20175	1732.5	1	99	24.0	22.73	0.823	1.103	L4.1
			20300	1745	-	-	24.0	-	-	-	-
			20050	1720	-	-	23.0	-	-	-	-
			20175	1732.5	50	50	23.0	21.85	0.696	0.907	-
			20300	1745	-	-	23.0	-	-	-	-
Rear	9	QPSK	20050	1720	-	-	24.0	-	-	-	-
			20175	1732.5	1	99	24.0	22.73	0.505	0.677	-
			20300	1745	-	-	24.0	-	-	-	-
			20050	1720	-	-	23.0	-	-	-	-
			20175	1732.5	50	50	23.0	21.85	0.414	0.540	-
			20300	1745	-	-	23.0	-	-	-	-
Edge1	0	QPSK	20050	1720	-	-	24.0	-	-	-	-
			20175	1732.5	1	99	24.0	22.73	0.115	0.154	-
			20300	1745	-	-	24.0	-	-	-	-
			20050	1720	-	-	23.0	-	-	-	-
			20175	1732.5	50	50	23.0	21.85	0.121	0.158	-
			20300	1745	-	-	23.0	-	-	-	-
Edge3	0	QPSK	20050	1720	-	-	24.0	-	-	-	-
			20175	1732.5	1	99	24.0	22.73	0.090	0.121	-
			20300	1745	-	-	24.0	-	-	-	-
			20050	1720	-	-	23.0	-	-	-	-
			20175	1732.5	50	50	23.0	21.85	0.084	0.109	-
			20300	1745	-	-	23.0	-	-	-	-
Edge3	0	QPSK	20050	1720	-	-	24.0	-	-	-	-
			20175	1732.5	1	99	24.0	22.73	0.090	0.121	-
			20300	1745	-	-	24.0	-	-	-	-
			20050	1720	-	-	23.0	-	-	-	-
			20175	1732.5	50	50	23.0	21.85	0.084	0.109	-
			20300	1745	-	-	23.0	-	-	-	-

11.7.10 LTE band 4 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	20050	1720	-	-	18.2	-			
			20175	1732.5	1	99	18.2	16.91	0.677	0.911	
			20300	1745	-	-	18.2	-			
			20050	1720	-	-	18.2	-			
			20175	1732.5	50	50	18.2	17.06	0.691	0.898	
			20300	1745	-	-	18.2	-			
Rear tilt(Edge4 side)	0	QPSK	20175	1732.5	100	0	18.2	16.90	0.686	0.925	L4.2
			20050	1720	-	-	18.2	-			
			20175	1732.5	1	99	18.2	16.91	0.620	0.834	
			20300	1745	-	-	18.2	-			
			20050	1720	-	-	18.2	-			
			20175	1732.5	50	50	18.2	17.06	0.631	0.820	
Rear	0	QPSK	20300	1745	-	-	18.2	-			
			20175	1732.5	100	0	18.2	16.90	0.643	0.867	
			20050	1720	-	-	18.2	-			
			20175	1732.5	1	99	18.2	16.91	0.342	0.460	
			20300	1745	-	-	18.2	-			
			20050	1720	-	-	18.2	-			
			20175	1732.5	50	50	18.2	17.06	0.346	0.450	
			20300	1745	-	-	18.2	-			
			20175	1732.5	100	0	18.2	16.90			
			20175	1732.5	100	0	18.2	16.90			

11.7.11 LTE band 5 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	-	-	-	-	24.0	-	-	-	-
			20525	836.5	1	0	24.0	22.79	0.650	0.859	L5.1
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			20525	836.5	25	0	23.0	21.80	0.515	0.679	-
			-	-	-	-	23.0	-	-	-	-
Edge 4	19	QPSK	-	-	-	-	24.0	-	-	-	-
			20525	836.5	1	0	24.0	22.79	0.413	0.546	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			20525	836.5	25	0	23.0	21.80	0.311	0.410	-
			-	-	-	-	23.0	-	-	-	-
Rear tilt(Edge4 side)	9	QPSK	-	-	-	-	24.0	-	-	-	-
			20525	836.5	1	0	24.0	22.79	0.629	0.831	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			20525	836.5	25	0	23.0	21.80	0.493	0.650	-
			-	-	-	-	23.0	-	-	-	-
Rear	9	QPSK	-	-	-	-	24.0	-	-	-	-
			20525	836.5	1	0	24.0	22.79	0.456	0.603	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			20525	836.5	25	0	23.0	21.80	0.364	0.480	-
			-	-	-	-	23.0	-	-	-	-
Edge1	0	QPSK	-	-	-	-	24.0	-	-	-	-
			20525	836.5	1	0	24.0	22.79	0.129	0.170	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			20525	836.5	25	0	23.0	21.80	0.097	0.128	-
			-	-	-	-	23.0	-	-	-	-
Edge3	0	QPSK	-	-	-	-	24.0	-	-	-	-
			20525	836.5	1	0	24.0	22.79	0.072	0.095	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			20525	836.5	25	0	23.0	21.80	0.053	0.069	-
			-	-	-	-	23.0	-	-	-	-
Edge3	0	QPSK	-	-	-	-	24.0	-	-	-	-
			20525	836.5	1	0	24.0	22.79	0.072	0.095	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			20525	836.5	25	0	23.0	21.80	0.053	0.069	-
			-	-	-	-	23.0	-	-	-	-
Edge3	0	QPSK	-	-	-	-	24.0	-	-	-	-
			20525	836.5	1	0	24.0	22.79	0.072	0.095	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			20525	836.5	25	0	23.0	21.80	0.053	0.069	-
			-	-	-	-	23.0	-	-	-	-

11.7.12 LTE band 5 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	-	-	-	-	17.1	-	-	-	-
			20525	836.5	1	0	17.1	15.96	0.645	0.839	-
			-	-	-	-	17.1	-	-	-	-
			-	-	-	-	17.1	-	-	-	-
			20525	836.5	25	0	17.1	15.96	0.669	0.870	-
			-	-	-	-	17.1	-	-	-	-
Rear tilt(Edge4 side)	0	QPSK	20525	836.5	50	0	17.1	15.91	0.671	0.883	L5.2
			-	-	-	-	17.1	-	-	-	-
			20525	836.5	1	0	17.1	15.96	0.333	0.433	-
			-	-	-	-	17.1	-	-	-	-
			-	-	-	-	17.1	-	-	-	-
			20525	836.5	25	0	17.1	15.96	0.344	0.447	-
Rear	0	QPSK	-	-	-	-	17.1	-	-	-	-
			20525	836.5	1	0	17.1	15.96	0.236	0.307	-
			-	-	-	-	17.1	-	-	-	-
			-	-	-	-	17.1	-	-	-	-
			20525	836.5	25	0	17.1	15.96	0.240	0.312	-
			-	-	-	-	17.1	-	-	-	-
20525	836.5	50	0	17.1	15.91	-	-	-			

11.7.13 LTE band 7 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	20850	2510	1	49	24.0	22.79	0.748	0.988	L7.1
			21100	2535	1	0	24.0	22.96	0.848	1.077	
			21350	2560	1	0	24.0	22.94	0.830	1.059	
			20850	2510	50	24	23.0	21.94	0.621	0.793	
			21100	2535	50	50	23.0	21.99	0.694	0.876	
			21350	2560	50	0	23.0	21.98	0.676	0.855	
Edge 4	19	QPSK	20850	2510	1	49	24.0	22.79			
			21100	2535	1	0	24.0	22.96	0.534	0.678	
			21350	2560	1	0	24.0	22.94			
			20850	2510	50	24	23.0	21.94			
			21100	2535	50	50	23.0	21.99	0.498	0.628	
			21350	2560	50	0	23.0	21.98			
Rear tilt(Edge4 side)	9	QPSK	20850	2510	1	49	24.0	22.79	0.637	0.842	
			21100	2535	1	0	24.0	22.96	0.704	0.894	
			21350	2560	1	0	24.0	22.94	0.745	0.951	
			20850	2510	50	24	23.0	21.94			
			21100	2535	50	50	23.0	21.99	0.590	0.744	
			21350	2560	50	0	23.0	21.98			
Rear	9	QPSK	20850	2510	1	49	24.0	22.79			
			21100	2535	1	0	24.0	22.96	0.561	0.713	
			21350	2560	1	0	24.0	22.94			
			20850	2510	50	24	23.0	21.94			
			21100	2535	50	50	23.0	21.99	0.477	0.602	
			21350	2560	50	0	23.0	21.98			
Edge1	0	QPSK	20850	2510	1	49	24.0	22.79			
			21100	2535	1	0	24.0	22.96	0.216	0.274	
			21350	2560	1	0	24.0	22.94			
			20850	2510	50	24	23.0	21.94			
			21100	2535	50	50	23.0	21.99	0.163	0.206	
			21350	2560	50	0	23.0	21.98			
Edge3	0	QPSK	20850	2510	1	49	24.0	22.79			
			21100	2535	1	0	24.0	22.96	0.110	0.140	
			21350	2560	1	0	24.0	22.94			
			20850	2510	50	24	23.0	21.94			
			21100	2535	50	50	23.0	21.99	0.074	0.093	
			21350	2560	50	0	23.0	21.98			
			21350	2560	100	0	23.0	21.98			

11.7.14 LTE band 7 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	20850	2510	1	99	17.6	16.48	0.707	0.915	
			21100	2535	1	99	17.6	16.53	0.749	0.958	L7.2
			21350	2560	1	0	17.6	16.57	0.724	0.918	
			20850	2510	50	50	17.6	16.57	0.738	0.936	
			21100	2535	50	50	17.6	16.59	0.753	0.950	
			21350	2560	50	0	17.6	16.63	0.720	0.900	
Rear tilt(Edge4 side)	0	QPSK	20850	2510	1	99	17.6	16.48			
			21100	2535	1	99	17.6	16.53			
			21350	2560	1	0	17.6	16.57	0.471	0.597	
			20850	2510	50	50	17.6	16.57			
			21100	2535	50	50	17.6	16.59			
			21350	2560	50	0	17.6	16.63	0.472	0.590	
Rear	0	QPSK	20850	2510	1	99	17.6	16.48			
			21100	2535	1	99	17.6	16.53			
			21350	2560	1	0	17.6	16.57	0.341	0.432	
			20850	2510	50	50	17.6	16.57			
			21100	2535	50	50	17.6	16.59			
			21350	2560	50	0	17.6	16.63	0.331	0.414	
			21350	2560	100	0	17.6	16.52			

11.7.15 LTE band 12 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	-	-	-	-	24.0	-	-	-	-
			23095	707.5	1	49	24.0	22.71	0.325	0.437	L12.1
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23095	707.5	25	12	23.0	21.86	0.246	0.320	-
			-	-	-	-	23.0	-	-	-	-
Edge 4	19	QPSK	-	-	-	-	24.0	-	-	-	-
			23095	707.5	1	49	24.0	22.71	0.092	0.124	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23095	707.5	25	12	23.0	21.86	0.071	0.093	-
			-	-	-	-	23.0	-	-	-	-
Rear tilt(Edge4 side)	9	QPSK	-	-	-	-	24.0	-	-	-	-
			23095	707.5	1	49	24.0	22.71	0.310	0.417	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23095	707.5	25	12	23.0	21.86	0.241	0.313	-
			-	-	-	-	23.0	-	-	-	-
Rear	9	QPSK	-	-	-	-	24.0	-	-	-	-
			23095	707.5	1	49	24.0	22.71	0.235	0.316	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23095	707.5	25	12	23.0	21.86	0.188	0.244	-
			-	-	-	-	23.0	-	-	-	-
Edge1	0	QPSK	-	-	-	-	24.0	-	-	-	-
			23095	707.5	1	49	24.0	22.71	0.168	0.226	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23095	707.5	25	12	23.0	21.86	0.108	0.140	-
			-	-	-	-	23.0	-	-	-	-
Edge3	0	QPSK	-	-	-	-	24.0	-	-	-	-
			23095	707.5	1	49	24.0	22.71	0.017	0.022	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23095	707.5	25	12	23.0	21.86	0.021	0.027	-
			-	-	-	-	23.0	-	-	-	-
Edge3	0	QPSK	-	-	-	-	24.0	-	-	-	-
			23095	707.5	1	49	24.0	22.71	0.017	0.022	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23095	707.5	25	12	23.0	21.86	0.021	0.027	-
			-	-	-	-	23.0	-	-	-	-
Edge3	0	QPSK	-	-	-	-	24.0	-	-	-	-
			23095	707.5	1	49	24.0	22.71	0.017	0.022	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23095	707.5	25	12	23.0	21.86	0.021	0.027	-
			-	-	-	-	23.0	-	-	-	-

11.7.16 LTE band 12 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	-	-	-	-	19.4	-			
			23095	707.5	1	49	19.4	18.33	0.802	1.026	L12.2
			-	-	-	-	19.4	-			
			-	-	-	-	19.4	-			
			23095	707.5	25	12	19.4	18.32	0.763	0.978	
			-	-	-	-	19.4	-			
Rear tilt(Edge4 side)	0	QPSK	23095	707.5	50	0	19.4	18.31	0.762	0.979	
			-	-	-	-	19.4	-			
			23095	707.5	1	49	19.4	18.33	0.309	0.395	
			-	-	-	-	19.4	-			
			-	-	-	-	19.4	-			
			23095	707.5	25	12	19.4	18.32	0.353	0.453	
Rear	0	QPSK	-	-	-	-	19.4	-			
			23095	707.5	1	49	19.4	18.33	0.207	0.265	
			-	-	-	-	19.4	-			
			-	-	-	-	19.4	-			
			23095	707.5	25	12	19.4	18.32	0.206	0.264	
			-	-	-	-	19.4	-			
23095	707.5	50	0	19.4	18.31						

11.7.17 LTE band 13 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	-	-	-	-	24.0	-			
			23230	782	1	0	24.0	22.45	0.463	0.662	L13.1
			-	-	-	-	24.0	-			
			-	-	-	-	23.0	-			
			23230	782	25	25	23.0	21.55	0.413	0.577	
			-	-	-	-	23.0	-			
Edge 4	19	QPSK	-	-	-	-	24.0	-			
			23230	782	1	0	24.0	22.45	0.178	0.254	
			-	-	-	-	24.0	-			
			-	-	-	-	23.0	-			
			23230	782	25	25	23.0	21.55	0.187	0.261	
			-	-	-	-	23.0	-			
Rear tilt(Edge4 side)	9	QPSK	-	-	-	-	24.0	-			
			23230	782	1	0	24.0	22.45	0.463	0.662	
			-	-	-	-	24.0	-			
			-	-	-	-	23.0	-			
			23230	782	25	25	23.0	21.55	0.390	0.545	
			-	-	-	-	23.0	-			
Rear	9	QPSK	-	-	-	-	24.0	-			
			23230	782	1	0	24.0	22.45	0.341	0.487	
			-	-	-	-	24.0	-			
			-	-	-	-	23.0	-			
			23230	782	25	25	23.0	21.55	0.297	0.415	
			-	-	-	-	23.0	-			
Edge1	0	QPSK	-	-	-	-	24.0	-			
			23230	782	1	0	24.0	22.45	0.183	0.261	
			-	-	-	-	24.0	-			
			-	-	-	-	23.0	-			
			23230	782	25	25	23.0	21.55	0.134	0.187	
			-	-	-	-	23.0	-			
Edge3	0	QPSK	-	-	-	-	24.0	-			
			23230	782	1	0	24.0	22.45	0.036	0.051	
			-	-	-	-	24.0	-			
			-	-	-	-	23.0	-			
			23230	782	25	25	23.0	21.55	0.025	0.034	
			-	-	-	-	23.0	-			
Edge3	0	QPSK	23230	782	50	0	23.0	21.52			
			-	-	-	-	23.0	-			

11.7.18 LTE band 13 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	-	-	-	-	18.0	-	-	-	-
			23230	782	1	0	18.0	16.57	0.663	0.922	-
			-	-	-	-	18.0	-	-	-	-
			-	-	-	-	18.0	-	-	-	-
			23230	782	25	12	18.0	16.58	0.688	0.954	-
			23230	782	50	0	18.0	16.56	0.688	0.958	L13.2
Rear tilt(Edge4 side)	0	QPSK	-	-	-	-	18.0	-	-	-	-
			23230	782	1	0	18.0	16.57	0.342	0.475	-
			-	-	-	-	18.0	-	-	-	-
			-	-	-	-	18.0	-	-	-	-
			23230	782	25	12	18.0	16.58	0.366	0.508	-
			23230	782	50	0	18.0	16.56	-	-	-
Rear	0	QPSK	-	-	-	-	18.0	-	-	-	-
			23230	782	1	0	18.0	16.57	0.225	0.313	-
			-	-	-	-	18.0	-	-	-	-
			-	-	-	-	18.0	-	-	-	-
			23230	782	25	12	18.0	16.58	0.239	0.331	-
			23230	782	50	0	18.0	16.56	-	-	-

11.7.19 LTE band 14 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	-	-	-	-	24.0	-	-	-	-
			23330	793	1	0	24.0	22.40	0.544	0.786	L14.1
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23330	793	25	12	23.0	21.48	0.447	0.634	-
			-	-	-	-	23.0	-	-	-	-
Edge 4	19	QPSK	-	-	-	-	24.0	-	-	-	-
			23330	793	1	0	24.0	22.40	0.174	0.252	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23330	793	25	12	23.0	21.48	0.192	0.272	-
			-	-	-	-	23.0	-	-	-	-
Rear tilt(Edge4 side)	9	QPSK	-	-	-	-	24.0	-	-	-	-
			23330	793	1	0	24.0	22.40	0.523	0.756	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23330	793	25	12	23.0	21.48	0.409	0.580	-
			-	-	-	-	23.0	-	-	-	-
Rear	9	QPSK	-	-	-	-	24.0	-	-	-	-
			23330	793	1	0	24.0	22.40	0.393	0.568	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23330	793	25	12	23.0	21.48	0.311	0.441	-
			-	-	-	-	23.0	-	-	-	-
Edge1	0	QPSK	-	-	-	-	24.0	-	-	-	-
			23330	793	1	0	24.0	22.40	0.173	0.250	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23330	793	25	12	23.0	21.48	0.142	0.202	-
			-	-	-	-	23.0	-	-	-	-
Edge3	0	QPSK	-	-	-	-	24.0	-	-	-	-
			23330	793	1	0	24.0	22.40	0.036	0.052	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23330	793	25	12	23.0	21.48	0.030	0.043	-
			-	-	-	-	23.0	-	-	-	-
Edge3	0	QPSK	-	-	-	-	24.0	-	-	-	-
			23330	793	1	0	24.0	22.40	0.036	0.052	-
			-	-	-	-	24.0	-	-	-	-
			23330	793	25	12	23.0	21.48	0.030	0.043	-

11.7.20 LTE band 14 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	-	-	-	-	18.0	-	-	-	-
			23330	793	1	0	18.0	16.43	0.620	0.890	-
			-	-	-	-	18.0	-	-	-	-
			-	-	-	-	18.0	-	-	-	-
			23330	793	25	12	18.0	16.48	0.651	0.924	-
			-	-	-	-	18.0	-	-	-	-
Rear tilt(Edge4 side)	0	QPSK	23330	793	50	0	18.0	16.38	0.642	0.932	L14.2
			-	-	-	-	18.0	-	-	-	-
			23330	793	1	0	18.0	16.43	0.364	0.523	-
			-	-	-	-	18.0	-	-	-	-
			-	-	-	-	18.0	-	-	-	-
			23330	793	25	12	18.0	16.48	0.373	0.529	-
Rear	0	QPSK	-	-	-	-	18.0	-	-	-	-
			23330	793	50	0	18.0	16.38	-	-	-
			-	-	-	-	18.0	-	-	-	-
			-	-	-	-	18.0	-	-	-	-
			23330	793	1	0	18.0	16.43	0.253	0.363	-
			-	-	-	-	18.0	-	-	-	-
			23330	793	25	12	18.0	16.48	0.225	0.319	-
			-	-	-	-	18.0	-	-	-	-
			-	-	-	-	18.0	-	-	-	-
			23330	793	50	0	18.0	16.38	-	-	-

11.7.21 LTE band 17 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	-	-	-	-	24.0	-	-	-	-
			23790	710	1	49	24.0	22.85	0.328	0.427	L17.1
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23790	710	25	25	23.0	21.88	0.265	0.343	-
			-	-	-	-	23.0	-	-	-	-
Edge 4	19	QPSK	-	-	-	-	24.0	-	-	-	-
			23790	710	1	49	24.0	22.85	0.100	0.130	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23790	710	25	25	23.0	21.88	0.081	0.105	-
			23790	710	50	0	23.0	21.80	-	-	-
Rear tilt(Edge4 side)	9	QPSK	-	-	-	-	24.0	-	-	-	-
			23790	710	1	49	24.0	22.85	0.314	0.409	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23790	710	25	25	23.0	21.88	0.250	0.324	-
			23790	710	50	0	23.0	21.80	-	-	-
Rear	9	QPSK	-	-	-	-	24.0	-	-	-	-
			23790	710	1	49	24.0	22.85	0.250	0.326	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23790	710	25	25	23.0	21.88	0.194	0.251	-
			23790	710	50	0	23.0	21.80	-	-	-
Edge1	0	QPSK	-	-	-	-	24.0	-	-	-	-
			23790	710	1	49	24.0	22.85	0.142	0.185	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23790	710	25	25	23.0	21.88	0.133	0.172	-
			23790	710	50	0	23.0	21.80	-	-	-
Edge3	0	QPSK	-	-	-	-	24.0	-	-	-	-
			23790	710	1	49	24.0	22.85	0.014	0.018	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			23790	710	25	25	23.0	21.88	0.015	0.019	-
			23790	710	50	0	23.0	21.80	-	-	-

11.7.22 LTE band 17 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	-	-	-	-	18.8	-	-	-	-
			23790	710	1	49	18.8	17.71	0.633	0.814	-
			-	-	-	-	18.8	-	-	-	-
			-	-	-	-	18.8	-	-	-	-
			23790	710	25	25	18.8	17.69	0.636	0.821	L17.2
			-	-	-	-	18.8	-	-	-	-
Rear tilt(Edge4 side)	0	QPSK	23790	710	50	0	18.8	17.67	0.616	0.799	-
			-	-	-	-	18.8	-	-	-	-
			23790	710	1	49	18.8	17.71	0.315	0.405	-
			-	-	-	-	18.8	-	-	-	-
			23790	710	25	25	18.8	17.69	0.309	0.399	-
			-	-	-	-	18.8	-	-	-	-
Rear	0	QPSK	23790	710	50	0	18.8	17.67	-	-	-
			-	-	-	-	18.8	-	-	-	-
			23790	710	1	49	18.8	17.71	0.189	0.243	-
			-	-	-	-	18.8	-	-	-	-
			23790	710	25	25	18.8	17.69	0.186	0.240	-
			-	-	-	-	18.8	-	-	-	-
23790	710	50	0	18.8	17.67	-	-	-			

11.7.23 LTE band 25 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	26140	1860	1	0	24.0	22.78	0.594	0.787	L25.1
			26365	1882.5	1	0	24.0	22.70			
			26590	1905	1	0	24.0	22.68			
			26140	1860	50	24	23.0	21.90	0.490	0.631	
			26365	1882.5	50	24	23.0	21.85			
			26590	1905	50	50	23.0	21.72			
Edge 4	19	QPSK	26140	1860	1	0	24.0	22.78	0.456	0.604	
			26365	1882.5	1	0	24.0	22.70			
			26590	1905	1	0	24.0	22.68			
			26140	1860	50	24	23.0	21.90	0.368	0.474	
			26365	1882.5	50	24	23.0	21.85			
			26590	1905	50	50	23.0	21.72			
Rear tilt(Edge4 side)	9	QPSK	26140	1860	1	0	24.0	22.78	0.492	0.652	
			26365	1882.5	1	0	24.0	22.70			
			26590	1905	1	0	24.0	22.68			
			26140	1860	50	24	23.0	21.90	0.416	0.536	
			26365	1882.5	50	24	23.0	21.85			
			26590	1905	50	50	23.0	21.72			
Rear	9	QPSK	26140	1860	1	0	24.0	22.78	0.420	0.556	
			26365	1882.5	1	0	24.0	22.70			
			26590	1905	1	0	24.0	22.68			
			26140	1860	50	24	23.0	21.90	0.370	0.477	
			26365	1882.5	50	24	23.0	21.85			
			26590	1905	50	50	23.0	21.72			
Edge1	0	QPSK	26140	1860	1	0	24.0	22.78	0.221	0.293	
			26365	1882.5	1	0	24.0	22.70			
			26590	1905	1	0	24.0	22.68			
			26140	1860	50	24	23.0	21.90	0.165	0.213	
			26365	1882.5	50	24	23.0	21.85			
			26590	1905	50	50	23.0	21.72			
Edge3	0	QPSK	26140	1860	1	0	24.0	22.78	0.230	0.305	
			26365	1882.5	1	0	24.0	22.70			
			26590	1905	1	0	24.0	22.68			
			26140	1860	50	24	23.0	21.90	0.178	0.229	
			26365	1882.5	50	24	23.0	21.85			
			26590	1905	50	50	23.0	21.72			
			26140	1860	100	0	23.0	21.87			

11.7.24 LTE band 25 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	26140	1860	1	0	17.5	16.33	0.659	0.863	
			26365	1882.5	1	0	17.5	16.26	0.640	0.851	
			26590	1905	1	0	17.5	16.21	0.641	0.863	
			26140	1860	50	0	17.5	16.42	0.678	0.869	
			26365	1882.5	50	24	17.5	16.29	0.673	0.889	
			26590	1905	50	50	17.5	16.27	0.669	0.888	
Rear tilt(Edge4 side)	0	QPSK	26140	1860	100	0	17.5	16.32	0.679	0.891	L25.2
			26140	1860	1	0	17.5	16.33	0.454	0.594	
			26365	1882.5	1	0	17.5	16.26			
			26590	1905	1	0	17.5	16.21			
			26140	1860	50	0	17.5	16.42	0.471	0.604	
			26365	1882.5	50	24	17.5	16.29			
Rear	0	QPSK	26590	1905	50	50	17.5	16.27			
			26140	1860	100	0	17.5	16.32			
			26140	1860	1	0	17.5	16.33	0.255	0.334	
			26365	1882.5	1	0	17.5	16.26			
			26590	1905	1	0	17.5	16.21			
			26140	1860	50	0	17.5	16.42	0.267	0.342	
			26365	1882.5	50	24	17.5	16.29			
			26590	1905	50	50	17.5	16.27			
			26140	1860	100	0	17.5	16.32			

11.7.25 LTE band 26 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	-	-	-	-	24.0	-	-	-	-
			26865	831.5	1	0	24.0	22.75	0.639	0.852	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			26865	831.5	36	0	23.0	21.86	0.521	0.677	-
			-	-	-	-	23.0	-	-	-	-
Edge 4	19	QPSK	26865	831.5	75	0	23.0	21.79	0.509	0.673	-
			-	-	-	-	24.0	-	-	-	-
			26865	831.5	1	0	24.0	22.75	0.382	0.509	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			26865	831.5	36	0	23.0	21.86	0.319	0.415	-
Rear tilt(Edge4 side)	9	QPSK	-	-	-	-	23.0	21.79	-	-	-
			-	-	-	-	24.0	-	-	-	-
			26865	831.5	1	0	24.0	22.75	0.649	0.865	L26.1
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			26865	831.5	36	0	23.0	21.86	0.523	0.680	-
Rear	9	QPSK	-	-	-	-	23.0	-	-	-	-
			-	-	-	-	24.0	-	-	-	-
			26865	831.5	1	0	24.0	22.75	0.462	0.616	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			26865	831.5	36	0	23.0	21.86	0.382	0.497	-
Edge1	0	QPSK	-	-	-	-	23.0	-	-	-	-
			-	-	-	-	24.0	-	-	-	-
			26865	831.5	1	0	24.0	22.75	0.129	0.172	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			26865	831.5	36	0	23.0	21.86	0.097	0.127	-
Edge3	0	QPSK	-	-	-	-	23.0	-	-	-	-
			-	-	-	-	24.0	-	-	-	-
			26865	831.5	1	0	24.0	22.75	0.057	0.076	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			26865	831.5	36	0	23.0	21.86	0.045	0.058	-
Edge3	0	QPSK	-	-	-	-	23.0	-	-	-	-
			26865	831.5	75	0	23.0	21.79	-	-	-

11.7.26 LTE band 26 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	-	-	-	-	17.3	-	-	-	-
			26865	831.5	1	0	17.3	16.13	0.633	0.829	-
			-	-	-	-	17.3	-	-	-	-
			-	-	-	-	17.3	-	-	-	-
			26865	831.5	36	0	17.3	16.23	0.661	0.846	-
			26865	831.5	75	0	17.3	16.12	0.657	0.862	L26.2
Rear tilt(Edge4 side)	0	QPSK	-	-	-	-	17.3	-	-	-	-
			26865	831.5	1	0	17.3	16.13	0.352	0.461	-
			-	-	-	-	17.3	-	-	-	-
			-	-	-	-	17.3	-	-	-	-
			26865	831.5	36	0	17.3	16.23	0.359	0.459	-
			26865	831.5	75	0	17.3	16.12	-	-	-
Rear	0	QPSK	-	-	-	-	17.3	-	-	-	-
			26865	831.5	1	0	17.3	16.13	0.245	0.321	-
			-	-	-	-	17.3	-	-	-	-
			-	-	-	-	17.3	-	-	-	-
			26865	831.5	36	0	17.3	16.23	0.255	0.326	-
			26865	831.5	75	0	17.3	16.12	-	-	-

11.7.27 LTE band 38 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	-	-	-	-	24.0	-	-	-	-
			38000	2595	1	49	24.0	22.58	0.420	0.582	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			38000	2595	50	50	23.0	21.76	0.355	0.472	-
			-	-	-	-	23.0	-	-	-	-
Edge 4	19	QPSK	-	-	-	-	24.0	-	-	-	-
			38000	2595	1	49	24.0	22.58	0.433	0.600	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			38000	2595	50	50	23.0	21.76	0.368	0.490	-
			-	-	-	-	23.0	-	-	-	-
Rear tilt(Edge4 side)	9	QPSK	-	-	-	-	24.0	-	-	-	-
			38000	2595	1	49	24.0	22.58	0.434	0.602	L38.1
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			38000	2595	50	50	23.0	21.76	0.363	0.483	-
			-	-	-	-	23.0	-	-	-	-
Rear	9	QPSK	-	-	-	-	24.0	-	-	-	-
			38000	2595	1	49	24.0	22.58	0.331	0.459	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			38000	2595	50	50	23.0	21.76	0.274	0.365	-
			-	-	-	-	23.0	-	-	-	-
Edge1	0	QPSK	-	-	-	-	24.0	-	-	-	-
			38000	2595	1	49	24.0	22.58	0.059	0.082	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			38000	2595	50	50	23.0	21.76	0.046	0.061	-
			-	-	-	-	23.0	-	-	-	-
Edge3	0	QPSK	-	-	-	-	24.0	-	-	-	-
			38000	2595	1	49	24.0	22.58	0.077	0.107	-
			-	-	-	-	24.0	-	-	-	-
			-	-	-	-	23.0	-	-	-	-
			38000	2595	50	50	23.0	21.76	0.051	0.067	-
			-	-	-	-	23.0	-	-	-	-
Edge3	0	QPSK	38000	2595	100	0	23.0	21.70	-	-	-
			-	-	-	-	23.0	-	-	-	-

11.7.28 LTE band 38 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	-	-	-	-	19.8	-	-	-	-
			38000	2595	1	99	19.8	18.79	0.708	0.893	-
			-	-	-	-	19.8	-	-	-	-
			-	-	-	-	19.8	-	-	-	-
			38000	2595	50	50	19.8	18.93	0.750	0.916	-
			-	-	-	-	19.8	-	-	-	-
Rear tilt(Edge4 side)	0	QPSK	-	-	-	-	19.8	-	-	-	-
			38000	2595	1	99	19.8	18.79	0.429	0.541	-
			-	-	-	-	19.8	-	-	-	-
			-	-	-	-	19.8	-	-	-	-
			38000	2595	50	50	19.8	18.93	0.459	0.561	-
			-	-	-	-	19.8	-	-	-	-
Rear	0	QPSK	-	-	-	-	19.8	-	-	-	-
			38000	2595	1	99	19.8	18.79	0.299	0.377	-
			-	-	-	-	19.8	-	-	-	-
			-	-	-	-	19.8	-	-	-	-
			38000	2595	50	50	19.8	18.93	0.324	0.396	-
			-	-	-	-	19.8	-	-	-	-
			38000	2595	100	0	19.8	18.79	-	-	-

11.7.29 LTE band 41 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	39750	2506	1	99	24.0	22.59			
			40185	2549.5	1	99	24.0	22.54			
			40620	2593	1	0	24.0	22.78	0.462	0.612	L41.1
			41055	2636.5	1	0	24.0	22.74			
			41490	2680	1	0	24.0	22.66			
			39750	2506	50	24	23.0	21.82			
			40185	2549.5	50	50	23.0	21.78			
			40620	2593	50	24	23.0	21.80			
			41055	2636.5	50	0	23.0	21.83	0.319	0.418	
			41490	2680	50	50	23.0	21.75			
39750	2506	100	0	23.0	21.82						
Edge 4	19	QPSK	39750	2506	1	99	24.0	22.59			
			40185	2549.5	1	99	24.0	22.54			
			40620	2593	1	0	24.0	22.78	0.432	0.572	
			41055	2636.5	1	0	24.0	22.74			
			41490	2680	1	0	24.0	22.66			
			39750	2506	50	24	23.0	21.82			
			40185	2549.5	50	50	23.0	21.78			
			40620	2593	50	24	23.0	21.80			
			41055	2636.5	50	0	23.0	21.83	0.335	0.439	
			41490	2680	50	50	23.0	21.75			
39750	2506	100	0	23.0	21.82						
Rear tilt(Edge4 side)	9	QPSK	39750	2506	1	99	24.0	22.59			
			40185	2549.5	1	99	24.0	22.54			
			40620	2593	1	0	24.0	22.78	0.444	0.588	
			41055	2636.5	1	0	24.0	22.74			
			41490	2680	1	0	24.0	22.66			
			39750	2506	50	24	23.0	21.82			
			40185	2549.5	50	50	23.0	21.78			
			40620	2593	50	24	23.0	21.80			
			41055	2636.5	50	0	23.0	21.83	0.345	0.452	
			41490	2680	50	50	23.0	21.75			
39750	2506	100	0	23.0	21.82						
Rear	9	BPSK	39750	2506	1	99	24.0	22.59			
			40185	2549.5	1	99	24.0	22.54			
			40620	2593	1	0	24.0	22.78	0.347	0.460	
			41055	2636.5	1	0	24.0	22.74			
			41490	2680	1	0	24.0	22.66			
			39750	2506	50	24	23.0	21.82			
			40185	2549.5	50	50	23.0	21.78			
			40620	2593	50	24	23.0	21.80			
			41055	2636.5	50	0	23.0	21.83	0.255	0.334	
			41490	2680	50	50	23.0	21.75			
39750	2506	100	0	23.0	21.82						
Edge1	0	QPSK	39750	2506	1	99	24.0	22.59			
			40185	2549.5	1	99	24.0	22.54			
			40620	2593	1	0	24.0	22.78	0.083	0.110	
			41055	2636.5	1	0	24.0	22.74			
			41490	2680	1	0	24.0	22.66			
			39750	2506	50	24	23.0	21.82			
			40185	2549.5	50	50	23.0	21.78			
			40620	2593	50	24	23.0	21.80			
			41055	2636.5	50	0	23.0	21.83	0.034	0.045	
			41490	2680	50	50	23.0	21.75			
39750	2506	100	0	23.0	21.82						
Edge3	0	QPSK	39750	2506	1	99	24.0	22.59			
			40185	2549.5	1	99	24.0	22.54			
			40620	2593	1	0	24.0	22.78	0.070	0.092	
			41055	2636.5	1	0	24.0	22.74			
			41490	2680	1	0	24.0	22.66			
			39750	2506	50	24	23.0	21.82			
			40185	2549.5	50	50	23.0	21.78			
			40620	2593	50	24	23.0	21.80			
			41055	2636.5	50	0	23.0	21.83	0.031	0.041	
			41490	2680	50	50	23.0	21.75			
39750	2506	100	0	23.0	21.82						

11.7.30 LTE band 41 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)	
							Tune-up limit	Meas. Avg	Meas.	Scaled
Edge 4	0	QPSK	39750	2506	1	99	20.7	19.48	0.860	1.139
			40185	2549.5	1	99	20.7	19.46	0.879	1.169
			40620	2593	1	0	20.7	19.71	0.854	1.073
			41055	2636.5	1	0	20.7	19.70	0.823	1.036
			41490	2680	1	0	20.7	19.57	0.778	1.009
			39750	2506	50	50	20.7	19.77	0.904	1.120
			40185	2549.5	50	50	20.7	19.74	0.940	1.173
			40620	2593	50	50	20.7	19.77	0.884	1.095
			41055	2636.5	50	0	20.7	19.75	0.879	1.094
			41490	2680	50	0	20.7	19.64	0.860	1.098
Rear tilt(Edge4 side)	0	QPSK	40620	2593	100	0	20.7	19.67	0.866	1.098
			39750	2506	1	99	20.7	19.48		
			40185	2549.5	1	99	20.7	19.46		
			40620	2593	1	0	20.7	19.71	0.558	0.701
			41055	2636.5	1	0	20.7	19.70		
			41490	2680	1	0	20.7	19.57		
			39750	2506	50	50	20.7	19.77	0.567	0.702
			40185	2549.5	50	50	20.7	19.74		
			40620	2593	50	50	20.7	19.77	0.544	0.674
			41055	2636.5	50	0	20.7	19.75		
Rear	0	QPSK	41490	2680	50	0	20.7	19.64		
			40620	2593	100	0	20.7	19.67		
			39750	2506	1	99	20.7	19.48		
			40185	2549.5	1	99	20.7	19.46		
			40620	2593	1	0	20.7	19.71	0.413	0.519
			41055	2636.5	1	0	20.7	19.70		
			41490	2680	1	0	20.7	19.57		
			39750	2506	50	50	20.7	19.77	0.429	0.531
			40185	2549.5	50	50	20.7	19.74		
			40620	2593	50	50	20.7	19.77	0.390	0.483
			41055	2636.5	50	0	20.7	19.75		
			41490	2680	50	0	20.7	19.64		
			40620	2593	100	0	20.7	19.67		

11.7.31 LTE band 48 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	55340	3560	1	99	10.9	9.80	0.020	0.026	
			55773	3603.3	1	0	10.9	9.62			
			56207	3646.7	1	0	10.9	9.62			
			56640	3690	1	0	10.9	9.63			
			55340	3560	50	50	10.9	9.83	0.020	0.026	
			55773	3603.3	50	0	10.9	9.64			
			56207	3646.7	50	0	10.9	9.67			
			56640	3690	50	0	10.9	9.63			
Edge 4	19	QPSK	55340	3560	1	99	10.9	9.80	0.042	0.054	
			55773	3603.3	1	0	10.9	9.62			
			56207	3646.7	1	0	10.9	9.62			
			56640	3690	1	0	10.9	9.63			
			55340	3560	50	50	10.9	9.83	0.042	0.054	L48.1
			55773	3603.3	50	0	10.9	9.64			
			56207	3646.7	50	0	10.9	9.67			
			56640	3690	50	0	10.9	9.63			
Rear tilt(Edge4 side)	9	QPSK	55340	3560	1	99	10.9	9.80	0.034	0.044	
			55773	3603.3	1	0	10.9	9.62			
			56207	3646.7	1	0	10.9	9.62			
			56640	3690	1	0	10.9	9.63			
			55340	3560	50	50	10.9	9.83	0.034	0.044	
			55773	3603.3	50	0	10.9	9.64			
			56207	3646.7	50	0	10.9	9.67			
			56640	3690	50	0	10.9	9.63			
Rear	9	QPSK	55340	3560	1	99	10.9	9.80	0.016	0.021	
			55773	3603.3	1	0	10.9	9.62			
			56207	3646.7	1	0	10.9	9.62			
			56640	3690	1	0	10.9	9.63			
			55340	3560	50	50	10.9	9.83	0.016	0.021	
			55773	3603.3	50	0	10.9	9.64			
			56207	3646.7	50	0	10.9	9.67			
			56640	3690	50	0	10.9	9.63			
Edge1	0	QPSK	55340	3560	1	99	10.9	9.80	0.001	0.001	
			55773	3603.3	1	0	10.9	9.62			
			56207	3646.7	1	0	10.9	9.62			
			56640	3690	1	0	10.9	9.63			
			55340	3560	50	50	10.9	9.83	0.001	0.002	
			55773	3603.3	50	0	10.9	9.64			
			56207	3646.7	50	0	10.9	9.67			
			56640	3690	50	0	10.9	9.63			
Edge3	0	QPSK	55340	3560	1	99	10.9	9.80	0.028	0.035	
			55773	3603.3	1	0	10.9	9.62			
			56207	3646.7	1	0	10.9	9.62			
			56640	3690	1	0	10.9	9.63			
			55340	3560	50	50	10.9	9.83	0.022	0.029	
			55773	3603.3	50	0	10.9	9.64			
			56207	3646.7	50	0	10.9	9.67			
			56640	3690	50	0	10.9	9.63			
55340	3560	100	0	10.9	9.77						

11.7.32 LTE band 48 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	55340	3560	1	99	10.9	9.80	0.508	0.654	
			55773	3603.3	1	0	10.9	9.62			
			-	-	-	-	10.9	-			
			56207	3646.7	1	0	10.9	9.62			
			56640	3690	1	0	10.9	9.63			
			55340	3560	50	50	10.9	9.83	0.525	0.672	L48.2
			55773	3603.3	50	0	10.9	9.64			
			-	-	-	-	10.9	-			
			56207	3646.7	50	0	10.9	9.67			
			56640	3690	50	0	10.9	9.63			
55340	3560	100	0	10.9	9.77						
Rear tilt(Edge4 side)	0	QPSK	55340	3560	1	99	10.9	9.80	0.097	0.125	
			55773	3603.3	1	0	10.9	9.62			
			-	-	-	-	10.9	-			
			56207	3646.7	1	0	10.9	9.62			
			56640	3690	1	0	10.9	9.63			
			55340	3560	50	50	10.9	9.83	0.096	0.122	
			55773	3603.3	50	0	10.9	9.64			
			-	-	-	-	10.9	-			
			56207	3646.7	50	0	10.9	9.67			
			56640	3690	50	0	10.9	9.63			
55340	3560	100	0	10.9	9.77						
Rear	0	QPSK	55340	3560	1	99	10.9	9.80	0.044	0.057	
			55773	3603.3	1	0	10.9	9.62			
			-	-	-	-	10.9	-			
			56207	3646.7	1	0	10.9	9.62			
			56640	3690	1	0	10.9	9.63			
			55340	3560	50	50	10.9	9.83	0.044	0.056	
			55773	3603.3	50	0	10.9	9.64			
			-	-	-	-	10.9	-			
			56207	3646.7	50	0	10.9	9.67			
			56640	3690	50	0	10.9	9.63			
55340	3560	100	0	10.9	9.77						

11.7.33 LTE band 66 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	132072	1720	1	99	24.0	22.73	0.718	0.962	
			132322	1745	1	99	24.0	22.84	0.716	0.935	
			132572	1770	1	0	24.0	22.95	0.739	0.941	
			132072	1720	50	50	23.0	21.80			
			132322	1745	50	50	23.0	21.92			
			132572	1770	50	50	23.0	22.01	0.616	0.774	
Edge 4	19	QPSK	132072	1720	1	99	24.0	22.73	0.849	1.137	
			132322	1745	1	99	24.0	22.84	0.757	0.989	
			132572	1770	1	0	24.0	22.95	0.795	1.012	
			132072	1720	50	50	23.0	21.80			
			132322	1745	50	50	23.0	21.92			
			132572	1770	50	50	23.0	22.01	0.581	0.730	
Rear tilt(Edge4 side)	9	QPSK	132072	1720	1	99	24.0	22.73	0.888	1.190	L66.1
			132322	1745	1	99	24.0	22.84	0.824	1.076	
			132572	1770	1	0	24.0	22.95	0.845	1.076	
			132072	1720	50	50	23.0	21.80	0.719	0.948	
			132322	1745	50	50	23.0	21.92	0.682	0.875	
			132572	1770	50	50	23.0	22.01	0.672	0.844	
Rear	9	QPSK	132072	1720	1	99	24.0	22.73			
			132322	1745	1	99	24.0	22.84			
			132572	1770	1	0	24.0	22.95	0.532	0.678	
			132072	1720	50	50	23.0	21.80			
			132322	1745	50	50	23.0	21.92			
			132572	1770	50	50	23.0	22.01	0.429	0.539	
Edge1	0	QPSK	132072	1720	1	99	24.0	22.73			
			132322	1745	1	99	24.0	22.84			
			132572	1770	1	0	24.0	22.95	0.166	0.211	
			132072	1720	50	50	23.0	21.80			
			132322	1745	50	50	23.0	21.92			
			132572	1770	50	50	23.0	22.01	0.146	0.183	
Edge3	0	QPSK	132072	1720	1	99	24.0	22.73			
			132322	1745	1	99	24.0	22.84			
			132572	1770	1	0	24.0	22.95	0.094	0.120	
			132072	1720	50	50	23.0	21.80			
			132322	1745	50	50	23.0	21.92			
			132572	1770	50	50	23.0	22.01	0.109	0.137	
Edge3	0	QPSK	132072	1720	1	99	24.0	22.73			
			132322	1745	1	99	24.0	22.84			
			132572	1770	1	0	24.0	22.95	0.094	0.120	
			132072	1720	50	50	23.0	21.80			
			132322	1745	50	50	23.0	21.92			
			132572	1770	50	50	23.0	22.01	0.109	0.137	

11.7.34 LTE band 66 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	132072	1720	1	99	18.2	17.01	0.651	0.856	
			132322	1745	1	0	18.2	17.04	0.699	0.913	
			132572	1770	1	0	18.2	17.18	0.731	0.925	
			132072	1720	50	24	18.2	16.99	0.671	0.887	
			132322	1745	50	50	18.2	17.10	0.732	0.943	
			132572	1770	50	24	18.2	17.25	0.754	0.938	
Rear tilt(Edge4 side)	0	QPSK	132572	1770	100	0	18.2	17.15	0.744	0.947	L66.2
			132072	1720	1	99	18.2	17.01	0.625	0.822	
			132322	1745	1	0	18.2	17.04	0.629	0.822	
			132572	1770	1	0	18.2	17.18	0.644	0.814	
			132072	1720	50	24	18.2	16.99	0.653	0.863	
			132322	1745	50	50	18.2	17.10	0.645	0.831	
Rear	0	QPSK	132572	1770	50	24	18.2	17.25	0.667	0.830	
			132572	1770	100	0	18.2	17.15	0.662	0.843	
			132072	1720	1	99	18.2	17.01			
			132322	1745	1	0	18.2	17.04			
			132572	1770	1	0	18.2	17.18	0.362	0.458	
			132072	1720	50	24	18.2	16.99			
			132322	1745	50	50	18.2	17.10			
			132572	1770	50	24	18.2	17.25	0.372	0.463	
			132572	1770	100	0	18.2	17.15			

11.7.35 LTE band 71 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	133222	673	-	-	24.0	-			
			133297	680.5	1	99	24.0	22.62	0.420	0.577	
			133372	688	-	-	24.0	-			
			133222	673	-	-	23.0	-			
			133297	680.5	50	24	23.0	21.73	0.324	0.434	
			133372	688	-	-	23.0	-			
Edge 4	19	QPSK	133222	673	-	-	24.0	-			
			133297	680.5	1	99	24.0	22.62	0.225	0.309	
			133372	688	-	-	24.0	-			
			133222	673	-	-	23.0	-			
			133297	680.5	50	24	23.0	21.73	0.108	0.145	
			133372	688	-	-	23.0	-			
Rear tilt(Edge4 side)	9	QPSK	133222	673	-	-	24.0	-			
			133297	680.5	1	99	24.0	22.62	0.525	0.721	L71.1
			133372	688	-	-	24.0	-			
			133222	673	-	-	23.0	-			
			133297	680.5	50	24	23.0	21.73	0.389	0.521	
			133372	688	-	-	23.0	-			
Rear	9	QPSK	133222	673	-	-	24.0	-			
			133297	680.5	1	99	24.0	22.62	0.343	0.471	
			133372	688	-	-	24.0	-			
			133222	673	-	-	23.0	-			
			133297	680.5	50	24	23.0	21.73	0.263	0.352	
			133372	688	-	-	23.0	-			
Edge1	0	QPSK	133222	673	-	-	24.0	-			
			133297	680.5	1	99	24.0	22.62	0.180	0.247	
			133372	688	-	-	24.0	-			
			133222	673	-	-	23.0	-			
			133297	680.5	50	24	23.0	21.73	0.140	0.188	
			133372	688	-	-	23.0	-			
Edge3	0	QPSK	133222	673	-	-	24.0	-			
			133297	680.5	1	99	24.0	22.62	0.003	0.005	
			133372	688	-	-	24.0	-			
			133222	673	-	-	23.0	-			
			133297	680.5	50	24	23.0	21.73	0.006	0.008	
			133372	688	-	-	23.0	-			
Edge3	0	QPSK	133297	680.5	100	0	23.0	21.72			

11.7.36 LTE band 71 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	-	-	-	-	18.8	-			
			133297	680.5	1	99	18.8	17.42	0.718	0.987	L71.2
			-	-	-	-	18.8	-			
			-	-	-	-	18.8	-			
			133297	680.5	50	24	18.8	17.48	0.663	0.898	
Rear tilt(Edge4 side)	0	QPSK	-	-	-	-	18.8	-			
			133297	680.5	1	99	18.8	17.42	0.354	0.486	
			-	-	-	-	18.8	-			
			-	-	-	-	18.8	-			
			133297	680.5	50	24	18.8	17.48	0.333	0.451	
Rear	0	QPSK	-	-	-	-	18.8	-			
			133297	680.5	1	99	18.8	17.42	0.220	0.302	
			-	-	-	-	18.8	-			
			-	-	-	-	18.8	-			
			133297	680.5	50	24	18.8	17.48	0.221	0.299	
			-	-	-	-	18.8	-			
			133297	680.5	100	0	18.8	17.41			

11.7.37 LTE Up-Link Carrier Aggregation(Intra-Band Contiguous)

UL CA shall be tested based on the worst-case SAR configuration determined from non-CA SAR testing result. The channel BW, channel number, RB allocation, etc. would be selected to allow contiguous CA of PCC and SCC. Uplink output power for UL CA is the total power measured across the PCC and SCC.

UL CA power measurements were performed for each antennas at with QPSK modulation based on the worst-case standalone SAR.

The UL CA mode power measurements represent the total power across both carriers. Measurements were made for all supported PCC bandwidths using the channel/RB combination resulting in the highest standalone output power at the least MPR (0 dB). SCCs were set to use configurations similar to the PCC to establish conservative or worst case equivalent SAR test conditions (highest maximum power with MPR of 0 dB).

The standalone power measurement is the power for the PCC in the non-CA mode (i.e. single carrier power). In all cases the UL CA power is less than or equal to the standalone power, which is in accordance with the tune-up limits in table below.

According to November 2017 TCB workshop, Uplink CA SAR Test Guidance as follows:

- a) When the maximum output for UL CA is \leq standalone LTE mode (without CA)
 - PCC is configured according to the highest standalone SAR configuration tested
 - SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC
- b) When the Reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels(PCC based)
- c) UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level

Measured Results

Full Power Mode

Intra-band UL CA Combination	Antenna	RF Exposure Conditions	Modulation	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power(dBm)		1-g SAR(W/kg)		Plot No.
							Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	
7C	#1	Body	QPSK	Mode A	0	Rear tilt Edge 1	21100	2535	1	99	20902	2515.2	1	99	24.00	23.40	0.833	0.956	ULCA7-1
41C	#1	Body	QPSK	Mode A	0	Rear tilt Edge 1	40620	2593	1	0	40422	2573.2	1	99	24.00	23.45	0.468	0.531	ULCA41-1
48C	#1	Body	QPSK	Mode A	19	Edge 4	55340	3560	50	50	55538	3579.8	50	0	10.90	10.07	0.0381	0.046	ULCA48-1

Reduction Power Mode

Intra-band UL CA Combination	Antenna	RF Exposure Conditions	Modulation	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power(dBm)		1-g SAR(W/kg)		Plot No.
							Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	
7C	#1	Body	QPSK	Mode B	0	Edge 4	21100	2535	1	99	21298	2554.8	1	0	17.60	16.73	0.742	0.907	ULCA7-2
41C	#1	Body	QPSK	Mode B	0	Edge 4	40185	2549.5	50	50	40383	2569.3	50	0	20.70	19.57	0.902	1.170	ULCA41-2
48C	#1	Body	QPSK	Mode B	0	Edge 4	55340	3560	50	50	55538	3579.8	50	0	10.90	10.07	0.483	0.585	ULCA48-2

Note(s):

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power. Band 48 has same power between full and reduction, result is listed as reduction power.

11.7.38 NR band n2 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	BPSK	372000	1860	1	1	24.5	23.46	0.685	0.870	
			376000	1880	1	1	24.5	23.47	0.677	0.858	
			380000	1900	1	1	24.5	23.28	0.665	0.881	
			372000	1860	50	28	24.5	23.34	0.679	0.887	N2.1
			376000	1880	50	28	24.5	23.36	0.664	0.863	
			380000	1900	50	28	24.5	23.14	0.643	0.879	
Edge 4	19	BPSK	376000	1880	100	0	24.0	22.87	0.594	0.771	
			372000	1860	1	1	24.5	23.46			
			376000	1880	1	1	24.5	23.47	0.452	0.573	
			380000	1900	1	1	24.5	23.28			
			372000	1860	50	28	24.5	23.34			
			376000	1880	50	28	24.5	23.36	0.445	0.579	
Rear tilt(Edge4 side)	9	BPSK	380000	1900	50	28	24.5	23.14			
			376000	1880	100	0	24.0	22.87			
			372000	1860	1	1	24.5	23.46			
			376000	1880	1	1	24.5	23.47	0.522	0.662	
			380000	1900	1	1	24.5	23.28			
			372000	1860	50	28	24.5	23.34			
Rear	9	BPSK	376000	1880	50	28	24.5	23.36	0.503	0.654	
			380000	1900	50	28	24.5	23.14			
			376000	1880	100	0	24.0	22.87			
			372000	1860	1	1	24.5	23.46			
			376000	1880	1	1	24.5	23.47	0.352	0.446	
			380000	1900	1	1	24.5	23.28			
Edge1	0	BPSK	372000	1860	50	28	24.5	23.34			
			376000	1880	50	28	24.5	23.36	0.342	0.445	
			380000	1900	50	28	24.5	23.14			
			376000	1880	100	0	24.0	22.87			
			372000	1860	1	1	24.5	23.46			
			376000	1880	1	1	24.5	23.47	0.167	0.212	
Edge3	0	BPSK	380000	1900	1	1	24.5	23.28			
			372000	1860	50	28	24.5	23.34			
			376000	1880	50	28	24.5	23.36	0.159	0.207	
			380000	1900	50	28	24.5	23.14			
			376000	1880	100	0	24.0	22.87			
			372000	1860	1	1	24.5	23.46			

11.7.39 NR band n2 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	BPSK	372000	1860	1	1	17.4	16.28	0.625	0.809	
			376000	1880	1	1	17.4	16.13	0.629	0.843	
			380000	1900	1	1	17.4	16.03	0.640	0.877	
			372000	1860	50	56	17.4	16.18	0.626	0.829	
			376000	1880	50	0	17.4	16.05	0.631	0.861	
			380000	1900	50	28	17.4	15.92	0.634	0.891	N2.2
Rear tilt(Edge4 side)	0	BPSK	372000	1860	1	1	17.4	16.28	0.449	0.581	
			376000	1880	1	1	17.4	16.13			
			380000	1900	1	1	17.4	16.03			
			372000	1860	50	56	17.4	16.18	0.430	0.569	
			376000	1880	50	0	17.4	16.05			
			380000	1900	50	28	17.4	15.92			
Rear	0	BPSK	372000	1860	1	1	17.4	16.28	0.269	0.348	
			376000	1880	1	1	17.4	16.13			
			380000	1900	1	1	17.4	16.03			
			372000	1860	50	56	17.4	16.18	0.267	0.354	
			376000	1880	50	0	17.4	16.05			
			380000	1900	50	28	17.4	15.92			
			372000	1860	100	0	17.4	16.16			

11.7.40 NR band n5 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	BPSK	167300	836.5	1	1	24.5	23.21	0.732	0.985	
			167300	836.5	50	28	24.5	23.01	0.769	1.084	
			167300	836.5	100	0	24.0	22.50	0.692	0.977	
Edge 4	19	BPSK	167300	836.5	1	1	24.5	23.21	0.304	0.409	
			167300	836.5	50	28	24.5	23.01	0.292	0.412	
			167300	836.5	100	0	24.0	22.50			
Rear tilt(Edge4 side)	9	BPSK	167300	836.5	1	1	24.5	23.21	0.749	1.008	
			167300	836.5	50	28	24.5	23.01	0.807	1.137	N5.1
			167300	836.5	100	0	24.0	22.50	0.713	1.007	
Rear	9	BPSK	167300	836.5	1	1	24.5	23.21	0.411	0.553	
			167300	836.5	50	28	24.5	23.01	0.395	0.557	
			167300	836.5	100	0	24.0	22.50			
Edge1	0	BPSK	167300	836.5	1	1	24.5	23.21	0.139	0.187	
			167300	836.5	50	28	24.5	23.01	0.134	0.189	
			167300	836.5	100	0	24.0	22.50			
Edge3	0	BPSK	167300	836.5	1	1	24.5	23.21	0.030	0.040	
			167300	836.5	50	28	24.5	23.01	0.029	0.041	
			167300	836.5	100	0	24.0	22.50			

11.7.41 NR band n5 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	BPSK	167300	836.5	1	1	17.3	16.17	0.732	0.950	
			167300	836.5	50	0	17.3	16.08	0.714	0.946	
			167300	836.5	100	0	17.3	15.97	0.718	0.975	N5.2
Rear tilt(Edge4 side)	0	BPSK	167300	836.5	1	1	17.3	16.17	0.380	0.493	
			167300	836.5	50	0	17.3	16.08	0.372	0.493	
			167300	836.5	100	0	17.3	15.97			
Rear	0	BPSK	167300	836.5	1	1	17.3	16.17	0.267	0.346	
			167300	836.5	50	0	17.3	16.08	0.259	0.343	
			167300	836.5	100	0	17.3	15.97			

11.7.42 NR band n41 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	QPSK	-	-	-	-	21.5	-	-	-	-
			518600	2593	1	137	21.5	20.73	0.725	0.866	
			-	-	-	-	21.5	-	-	-	-
			-	-	-	-	21.5	-	-	-	-
			518600	2593	135	69	21.5	20.70	0.707	0.850	
			-	-	-	-	21.5	-	-	-	-
Edge 2	15	QPSK	518600	2593	270	0	21.5	20.60	0.638	0.785	
			-	-	-	-	21.5	-	-	-	-
			-	-	-	-	21.5	-	-	-	-
			-	-	-	-	21.5	-	-	-	-
			518600	2593	135	69	21.5	20.70	0.388	0.466	
			-	-	-	-	21.5	-	-	-	-
Rear tilt(Edge2 side)	9	QPSK	518600	2593	270	0	21.5	20.60	-	-	
			-	-	-	-	21.5	-	-	-	-
			-	-	-	-	21.5	-	-	-	-
			518600	2593	135	69	21.5	20.70	0.734	0.882	N41.1
			-	-	-	-	21.5	-	-	-	-
			518600	2593	270	0	21.5	20.60	0.614	0.755	
Rear	9	QPSK	-	-	-	-	21.5	-	-	-	-
			518600	2593	1	137	21.5	20.73	0.258	0.308	
			-	-	-	-	21.5	-	-	-	-
			-	-	-	-	21.5	-	-	-	-
			518600	2593	135	69	21.5	20.70	0.253	0.304	
			-	-	-	-	21.5	-	-	-	-
Edge1	0	QPSK	518600	2593	270	0	21.5	20.60	-	-	
			-	-	-	-	21.5	-	-	-	-
			-	-	-	-	21.5	-	-	-	-
			518600	2593	135	69	21.5	20.70	0.228	0.274	
			-	-	-	-	21.5	-	-	-	-
			518600	2593	270	0	21.5	20.60	-	-	
Edge3	0	QPSK	-	-	-	-	21.5	-	-	-	-
			518600	2593	1	137	21.5	20.73	0.062	0.074	
			-	-	-	-	21.5	-	-	-	-
			-	-	-	-	21.5	-	-	-	-
			518600	2593	135	69	21.5	20.70	0.060	0.072	
			-	-	-	-	21.5	-	-	-	-
518600	2593	270	0	21.5	20.60	-	-				

11.7.43 NR band n41 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 2	0	QPSK	-	-	-	-	14.1	-			
			518600	2593	1	137	14.1	13.72	0.949	1.036	
			-	-	-	-	14.1	-			
			518600	2593	135	69	14.1	13.66	1.020	1.129	N41.2
			-	-	-	-	14.1	-			
Rear tilt(Edge2 side)	0	QPSK	518600	2593	270	0	14.1	13.65	0.877	0.973	
			-	-	-	-	14.1	-			
			518600	2593	1	137	14.1	13.72	0.571	0.623	
			-	-	-	-	14.1	-			
			518600	2593	135	69	14.1	13.66	0.596	0.660	
Rear	0	QPSK	-	-	-	-	14.1	-			
			518600	2593	270	0	14.1	13.65			
			-	-	-	-	14.1	-			
			518600	2593	1	137	14.1	13.72	0.232	0.253	
			-	-	-	-	14.1	-			
518600	2593	135	69	14.1	13.66	0.222	0.246				
518600	2593	270	0	14.1	13.65						

11.7.44 NR band n66 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	BPSK	344000	1720	1	104	23.5	22.89	0.629	0.724	
			349000	1745	1	104	23.5	22.90	0.618	0.710	
			354000	1770	1	104	23.5	22.89	0.587	0.676	
			344000	1720	50	28	23.5	22.80	0.633	0.744	
			349000	1745	50	28	23.5	22.82	0.619	0.724	
			354000	1770	50	28	23.5	22.74	0.591	0.704	
Edge 4	19	BPSK	344000	1720	100	0	23.0	22.34	0.559	0.651	
			344000	1720	1	104	23.5	22.89	0.873	1.005	
			349000	1745	1	104	23.5	22.90	0.731	0.839	
			354000	1770	1	104	23.5	22.89	0.651	0.749	
			344000	1720	50	28	23.5	22.80	0.884	1.039	
			349000	1745	50	28	23.5	22.82	0.801	0.937	
Rear tilt(Edge4 side)	9	BPSK	344000	1720	50	28	23.5	22.80	0.971	1.141	N66.1
			349000	1745	50	28	23.5	22.82	0.891	1.042	
			354000	1770	50	28	23.5	22.74	0.821	0.978	
			344000	1720	100	0	23.0	22.34	0.855	0.995	
			344000	1720	1	104	23.5	22.89	0.938	1.079	
			349000	1745	1	104	23.5	22.90	0.854	0.981	
Rear	9	BPSK	344000	1720	1	104	23.5	22.89	0.907	1.044	
			349000	1745	1	104	23.5	22.90	0.869	0.998	
			354000	1770	1	104	23.5	22.89	0.871	1.002	
			344000	1720	50	28	23.5	22.80	0.921	1.082	
			349000	1745	50	28	23.5	22.82	0.870	1.017	
			354000	1770	50	28	23.5	22.74	0.875	1.042	
Edge1	0	BPSK	344000	1720	100	0	23.0	22.34	0.818	0.952	
			344000	1720	1	104	23.5	22.89			
			349000	1745	1	104	23.5	22.90	0.177	0.203	
			354000	1770	1	104	23.5	22.89			
			344000	1720	50	28	23.0	22.80			
			349000	1745	50	28	23.5	22.82	0.147	0.172	
Edge3	0	BPSK	344000	1720	100	0	23.0	22.34			
			344000	1720	1	104	23.5	22.89			
			349000	1745	1	104	23.5	22.90	0.207	0.238	
			354000	1770	1	104	23.5	22.89			
			344000	1720	50	28	23.5	22.80			
			349000	1745	50	28	23.5	22.82	0.181	0.212	

11.7.45 NR band n66 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	BPSK	344000	1720	1	1	18.1	17.26			
			349000	1745	1	1	18.1	17.28	0.630	0.761	
			354000	1770	1	104	18.1	17.24			
			344000	1720	50	28	18.1	17.22			
			349000	1745	50	28	18.1	17.26			
			354000	1770	50	28	18.1	17.27	0.648	0.785	N66.2
Rear tilt(Edge4 side)	0	BPSK	344000	1720	1	1	18.1	17.26			
			349000	1745	1	1	18.1	17.28	0.581	0.702	
			354000	1770	1	104	18.1	17.24			
			344000	1720	50	28	18.1	17.22			
			349000	1745	50	28	18.1	17.26			
			354000	1770	50	28	18.1	17.27	0.584	0.708	
Rear	0	BPSK	344000	1720	1	1	18.1	17.26			
			349000	1745	1	1	18.1	17.28	0.312	0.377	
			354000	1770	1	104	18.1	17.24			
			344000	1720	50	28	18.1	17.22			
			349000	1745	50	28	18.1	17.26			
			354000	1770	50	28	18.1	17.27	0.312	0.378	
349000	1745	100	0	18.1	17.27						

11.7.46 NR band n71 DSI=0, full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Rear tilt(Edge1 side)	0	BPSK	-	-	-	-	24.5	-	-	-	-
			136100	680.5	1	1	24.5	22.75	0.411	0.615	-
			-	-	-	-	24.5	-	-	-	-
			-	-	-	-	23.5	-	-	-	-
			136100	680.5	50	28	24.5	22.53	0.420	0.661	N71.1
			-	-	-	-	23.5	-	-	-	-
Edge 4	19	BPSK	-	-	-	-	24.5	-	-	-	-
			136100	680.5	1	1	24.5	22.75	0.209	0.313	-
			-	-	-	-	24.5	-	-	-	-
			-	-	-	-	23.5	-	-	-	-
			136100	680.5	50	28	24.5	22.53	0.235	0.370	-
			-	-	-	-	23.5	-	-	-	-
Rear tilt(Edge4 side)	9	BPSK	-	-	-	-	24.5	-	-	-	-
			136100	680.5	1	1	24.5	22.75	0.394	0.590	-
			-	-	-	-	24.5	-	-	-	-
			-	-	-	-	23.5	-	-	-	-
			136100	680.5	50	28	24.5	22.53	0.406	0.639	-
			-	-	-	-	23.5	-	-	-	-
Rear	9	BPSK	-	-	-	-	24.5	-	-	-	-
			136100	680.5	1	1	24.5	22.75	0.347	0.519	-
			-	-	-	-	24.5	-	-	-	-
			-	-	-	-	23.5	-	-	-	-
			136100	680.5	50	28	24.5	22.53	0.367	0.578	-
			-	-	-	-	23.5	-	-	-	-
Edge1	0	BPSK	-	-	-	-	24.5	-	-	-	-
			136100	680.5	1	1	24.5	22.75	0.156	0.233	-
			-	-	-	-	24.5	-	-	-	-
			-	-	-	-	23.5	-	-	-	-
			136100	680.5	50	28	24.5	22.53	0.190	0.299	-
			-	-	-	-	23.5	-	-	-	-
Edge3	0	BPSK	-	-	-	-	24.5	-	-	-	-
			136100	680.5	1	1	24.5	22.75	0.011	0.016	-
			-	-	-	-	24.5	-	-	-	-
			-	-	-	-	23.5	-	-	-	-
			136100	680.5	50	28	24.5	22.53	0.007	0.011	-
			-	-	-	-	23.5	-	-	-	-
Edge3	0	BPSK	-	-	-	-	24.5	-	-	-	-
			136100	680.5	1	1	24.5	22.75	0.011	0.016	-
			-	-	-	-	24.5	-	-	-	-
			-	-	-	-	23.5	-	-	-	-
			136100	680.5	50	28	24.5	22.53	0.007	0.011	-
			-	-	-	-	23.5	-	-	-	-
Edge3	0	BPSK	-	-	-	-	24.5	-	-	-	-
			136100	680.5	1	1	24.5	22.75	0.011	0.016	-
			-	-	-	-	24.5	-	-	-	-
			-	-	-	-	23.5	-	-	-	-
			136100	680.5	50	28	24.5	22.53	0.007	0.011	-
			-	-	-	-	23.5	-	-	-	-
Edge3	0	BPSK	-	-	-	-	24.5	-	-	-	-
			136100	680.5	1	1	24.5	22.75	0.011	0.016	-
			-	-	-	-	24.5	-	-	-	-
			-	-	-	-	23.5	-	-	-	-
			136100	680.5	50	28	24.5	22.53	0.007	0.011	-
			-	-	-	-	23.5	-	-	-	-

11.7.47 NR band n71 DSI=1, reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up	Meas. Avg	Meas.	Scaled	
Edge 4	0	BPSK	-	-	-	-	19.7	-	-	-	-
			136100	680.5	1	1	19.7	18.58	0.759	0.982	-
			-	-	-	-	19.7	-	-	-	-
			-	-	-	-	19.7	-	-	-	-
			136100	680.5	50	28	19.7	18.52	0.859	1.127	N71.2
			-	-	-	-	19.7	-	-	-	-
Rear tilt(Edge4 side)	0	BPSK	-	-	-	-	19.7	-	-	-	-
			136100	680.5	1	1	19.7	18.58	0.383	0.496	-
			-	-	-	-	19.7	-	-	-	-
			-	-	-	-	19.7	-	-	-	-
			136100	680.5	50	28	19.7	18.52	0.400	0.525	-
			-	-	-	-	19.7	-	-	-	-
Rear	0	BPSK	-	-	-	-	19.7	-	-	-	-
			136100	680.5	1	1	19.7	18.58	0.273	0.353	-
			-	-	-	-	19.7	-	-	-	-
			-	-	-	-	19.7	-	-	-	-
			136100	680.5	50	28	19.7	18.52	0.290	0.381	-
			-	-	-	-	19.7	-	-	-	-
			136100	680.5	100	0	19.7	18.48	-	-	-

11.8 WLAN and Bluetooth additional testing for simultaneous measurement

11.8.1 Ant1 WLAN2.4GHz

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		Power Scaled factor	Duty (%)	Duty Scaled factor	1-g SAR (W/kg)		Note	Plot No.
					Tune-up limit	Meas.				Meas.	Scaled		
Edge 2	0	11b	1	2412.0	15.00	14.58	1.10	100.0	1.00				
			7	2442.0	15.00	14.51	1.12	100.0	1.00				
			13	2472.0	15.00	14.70	1.07	100.0	1.00	0.015	0.016		
Edge 3	0	11b	1	2412.0	15.00	14.58	1.10	100.0	1.00				
			7	2442.0	15.00	14.51	1.12	100.0	1.00				
			13	2472.0	15.00	14.70	1.07	100.0	1.00	0.001	0.001		
Rear tilt (Edge 2 side)	0	11b	1	2412.0	15.00	14.58	1.10	100.0	1.00				
			7	2442.0	15.00	14.51	1.12	100.0	1.00				
			13	2472.0	15.00	14.70	1.07	100.0	1.00	0.009	0.010		

11.8.2 Ant2 WLAN2.4GHz

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		Power Scaled factor	Duty (%)	Duty Scaled factor	1-g SAR (W/kg)		Note	Plot No.
					Tune-up limit	Meas.				Meas.	Scaled		
Edge 2	0	11b	1	2412.0	15.00	14.57	1.10	100.0	1.00	0.014	0.015		
			7	2442.0	15.00	14.31	1.17	100.0	1.00				
			13	2472.0	15.00	14.27	1.18	100.0	1.00				
Edge 3	0	11b	1	2412.0	15.00	14.57	1.10	100.0	1.00	0.016	0.018		
			7	2442.0	15.00	14.31	1.17	100.0	1.00				
			13	2472.0	15.00	14.27	1.18	100.0	1.00				
Rear tilt (Edge 2 side)	0	11b	1	2412.0	15.00	14.57	1.10	100.0	1.00	0.174	0.192		W2.4.1
			7	2442.0	15.00	14.31	1.17	100.0	1.00				
			13	2472.0	15.00	14.27	1.18	100.0	1.00				

11.8.3 Ant1 WLAN5.3GHz

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		Power Scaled factor	Duty (%)	Duty Scaled factor	1-g SAR (W/kg)		Note	Plot No.
					Tune-up limit	Meas.				Meas.	Scaled		
Edge 2	0	11ac80	58	5290.0	13.50	13.20	1.07	100.0	1.00	0.000	0.000		
Edge 3	0	11ac80	58	5290.0	13.50	13.20	1.07	100.0	1.00	0.000	0.000		
Rear tilt (Edge 2 side)	0	11ac80	58	5290.0	13.50	13.20	1.07	100.0	1.00	0.009	0.010		

11.8.4 Ant2 WLAN5.3GHz

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		Power Scaled factor	Duty (%)	Duty Scaled factor	1-g SAR (W/kg)		Note	Plot No.
					Tune-up limit	Meas.				Meas.	Scaled		
Edge 2	0	11ac80	58	5290.0	11.00	10.51	1.12	100.0	1.00	0.005	0.006		
Edge 3	0	11ac80	58	5290.0	11.00	10.51	1.12	100.0	1.00	Not detect	-		
Rear tilt (Edge 2 side)	0	11ac80	58	5290.0	11.00	10.51	1.12	100.0	1.00	0.105	0.118		W5.3.1

Not detect: not found SAR peak.

11.8.5 Ant1 WLAN5.5GHz

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		Power Scaled factor	Duty (%)	Duty Scaled factor	1-g SAR (W/kg)		Note	Plot No.
					Tune-up limit	Meas.				Meas.	Scaled		
Edge 2	0	11ac80	106	5530.0	13.50	13.28	1.05	100.0	1.00				
			122	5610.0	13.50	13.17	1.08	100.0	1.00				
			138	5690.0	13.50	13.31	1.04	100.0	1.00	0.000	0.000		
Edge 3	0	11ac80	106	5530.0	13.50	13.28	1.05	100.0	1.00				
			122	5610.0	13.50	13.17	1.08	100.0	1.00				
			138	5690.0	13.50	13.31	1.04	100.0	1.00	0.001	0.001		
Rear tilt (Edge 2 side)	0	11ac80	106	5530.0	13.50	13.28	1.05	100.0	1.00				
			122	5610.0	13.50	13.17	1.08	100.0	1.00				
			138	5690.0	13.50	13.31	1.04	100.0	1.00	0.009	0.010		

11.8.6 Ant2 WLAN5.5GHz

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		Power Scaled factor	Duty (%)	Duty Scaled factor	1-g SAR (W/kg)		Note	Plot No.
					Tune-up limit	Meas.				Meas.	Scaled		
Edge 2	0	11ac80	106	5530.0	11.00	10.49	1.12	100.0	1.00				
			122	5610.0	11.00	10.67	1.08	100.0	1.00				
			138	5690.0	11.00	10.78	1.05	100.0	1.00	0.008	0.008		
Edge 3	0	11ac80	106	5530.0	11.00	10.49	1.12	100.0	1.00				
			122	5610.0	11.00	10.67	1.08	100.0	1.00				
			138	5690.0	11.00	10.78	1.05	100.0	1.00	0.000	0.000		
Rear tilt (Edge 2 side)	0	11ac80	106	5530.0	11.00	10.49	1.12	100.0	1.00				
			122	5610.0	11.00	10.67	1.08	100.0	1.00				
			138	5690.0	11.00	10.78	1.05	100.0	1.00	0.147	0.155		W5.5.1

11.8.7 Ant1 WLAN5.8GHz

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		Power Scaled factor	Duty (%)	Duty Scaled factor	1-g SAR (W/kg)		Note	Plot No.
					Tune-up limit	Meas.				Meas.	Scaled		
Edge 2	0	11ac80	155	5775.0	13.50	13.31	1.04	100.0	1.00	0.002	0.002		
Edge 3	0	11ac80	155	5775.0	13.50	13.31	1.04	100.0	1.00	0.001	0.001		
Rear tilt (Edge 2 side)	0	11ac80	155	5775.0	13.50	13.31	1.04	100.0	1.00	0.010	0.010		

11.8.8 Ant2 WLAN5.8GHz

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		Power Scaled factor	Duty (%)	Duty Scaled factor	1-g SAR (W/kg)		Note	Plot No.
					Tune-up limit	Meas.				Meas.	Scaled		
Edge 2	0	11ac80	155	5775.0	10.50	10.19	1.07	100.0	1.00	0.006	0.007		
Edge 3	0	11ac80	155	5775.0	10.50	10.19	1.07	100.0	1.00	0.002	0.002		
Rear tilt (Edge 2 side)	0	11ac80	155	5775.0	10.50	10.19	1.07	100.0	1.00	0.172	0.185		W5.8.1

11.8.9 Ant2 Bluetooth

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		Power Scaled factor	Duty (%)	Duty Scaled factor	1-g SAR (W/kg)		Note	Plot No.
					Tune-up limit	Meas.				Meas.	Scaled		
Edge 2	0	DH5	0	2402.0	10.50	9.65	1.22	100.0	1.00				
			39	2441.0	10.50	10.12	1.09	100.0	1.00				
			78	2480.0	10.50	10.35	1.04	100.0	1.00	0.004	0.004		
Edge 3	0	DH5	0	2402.0	10.50	9.65	1.22	100.0	1.00				
			39	2441.0	10.50	10.12	1.09	100.0	1.00				
			78	2480.0	10.50	10.35	1.04	100.0	1.00	0.002	0.002		
Rear tilt (Edge 2 side)	0	DH5	0	2402.0	10.50	9.65	1.22	100.0	1.00				
			39	2441.0	10.50	10.12	1.09	100.0	1.00				
			78	2480.0	10.50	10.35	1.04	100.0	1.00	0.064	0.066		BT1

11.9 Repeat measurement

According to KDB865664 D1.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

RAT	Ant#	Band	Position	Mode	Dist. [mm]	Ch#	Freq. [MHz]	Meas.SAR		Largest to Smallest SAR Ratio	
								Original [W/kg]	Repeat [W/kg]		
WCDMA	1	B4	Rear tilt(Edge4 side)	R el 99 RMC		9	1312	1712.4	1.000	1.000	1.000
LTE	1	B4	Rear tilt(Edge4 side)	QPSK		9	20175	1732.5	0.823	0.813	1.012
LTE	1	B7	Rear tilt(Edge 1 side)	QPSK		0	21100	2535	0.848	0.814	1.042
LTE	1	B12	Edge 4(red)	QPSK		0	23095	707.5	0.802	0.751	1.068
LTE	1	B41	Edge 4(red)	QPSK		0	40620	2549.5	0.940	0.930	1.011
LTE	1	B66	Rear tilt(Edge4 side)	QPSK		9	132072	1720	0.888	0.858	1.035
NR	1	N5	Rear tilt(Edge4 side)	BPSK		9	167300	836.5	0.807	0.797	1.013
NR	2	N41	Edge 2(red)	BPSK		0	518600	2593	1.020	0.978	1.043
NR	1	N66	Rear tilt(Edge4 side)	BPSK		9	344000	1720	0.971	0.965	1.006

Note(s):

Repeated Measurement is not required when the original highest measured SAR for all band is < 0.80 W/kg.

12 Simultaneous Transmission Conditions

RF Exposure Condition	Item	Capable Transmit Configurations
Standalone	1	W-CDMA + WLAN2.4GHz(SISO)
	2	W-CDMA + WLAN5GHz(SISO)
	3	W-CDMA + WLAN2.4GHz(MIMO)
	4	W-CDMA + WLAN5GHz(MIMO)
	5	W-CDMA + BT
	6	W-CDMA + WLAN2.4GHz(SISO) + BT
	7	W-CDMA + WLAN5GHz(SISO) + BT
	8	LTE + WLAN2.4GHz(SISO)
	9	LTE + WLAN5GHz(SISO)
	10	LTE + WLAN2.4GHz(MIMO)
	11	LTE + WLAN5GHz(MIMO)
	12	LTE + BT
	13	LTE + WLAN2.4GHz(SISO) + BT
	14	LTE + WLAN5GHz(SISO) + BT

Notes:
All WLAN 1-g SAR values were taken from results recorded in SAR report for WLAN (FCC ID ACJ9TGWL20B or ISED certification Number 216H-CFWL20B).

12.1 Simultaneous transmission SAR test exclusion considerations

KDB 447498 D01 General RF Exposure Guidance provides two procedures for determining simultaneous transmission SAR test exclusion: Sum of SAR and SAR to Peak Location Ratio (SPLSR)

Sum of SAR

To qualify for simultaneous transmission SAR test exclusion based upon Sum of SAR the sum of the reported standalone SARs for all simultaneously transmitting antennas shall be below the applicable standalone SAR limit. If the sum of the SARs is above the applicable limit then simultaneous transmission SAR test exclusion may still apply if the requirements of the SAR to Peak Location Ratio (SPLSR) evaluation are met.

SAR to Peak Location Ratio (SPLSR) is performed In order for a pair of simultaneous transmitting antennas with sum of 1-gSAR 1.58 W/kg.

Simultaneous transmission for ENDC mode is treated on part2 test report.

SAR to Peak Location Ratio (SPLSR)

KDB 447498 D01 General RF Exposure Guidance explains how to calculate the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR = (SAR_1 + SAR_2)^{1.5} / Ri$$

Where:

SAR₁ is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR₂ is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

Ri is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of

$$[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$$

In order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(SAR_1 + SAR_2)^{1.5} / Ri \leq 0.04$$

When an individual antenna transmits at on two bands simultaneously, the sum of the highest *reported* SAR for the frequency bands should be used to determine **SAR₁**, or **SAR₂**. When SPLSR is necessary, the smallest distance between the peak SAR locations for the antenna pair with respect to the peaks from each antenna should be used.

The antennas in all antenna pairs that do not qualify for simultaneous transmission SAR test exclusion must be tested for SAR compliance, according to the enlarged zoom scan and volume scan post-processing procedures in KDB Publication 865664 D01

Simultaneous transmission SAR measurement

When simultaneous transmission SAR measurements are required in different frequency bands not covered by a single probe calibration point then separate tests for each frequency band are performed. The tests are performed using enlarged zoom scans which are processed, by means of superposition, using the DASY5 volume scan post-processing procedures to determine the 1-g SAR for the aggregate SAR distribution.

The spatial resolution used for all enlarged zoom scans is the same as used for the most stringent zoom scans. I.E. the scan parameters required for the highest frequency assessed are used for all enlarged zoom scans. The scans cover the complete area of the device to ensure all transmitting antennas and radiating structures are assessed.

DASY5 provides the ability to perform Multiband Evaluations according to the latest standards using the Volume Scan job as well as appropriate routines for the Post-processing.

In order to extract and process measurements within different frequency bands, the SEMCAD X Post-processor performs the combination and subsequent superposition of these measurement data via DASY5= Combined MultiBand Averaged SAR.

Combined Multi Band Averaged SAR allows - in addition to the data extraction - an evaluation of the 1 g, 10 g and/or arbitrary averaged mass SAR.

Power Scaling Factor is used to allow the volume scans to be scaled by a value other than "1", this is important when the results need to be scaled to different maximum power levels. The Power Scaling Factor is applied to each individual point of the scan. When power scaling is used in multi-band combinations the scaling factor is applied to each individual point of the first scan, the second factor is then applied to each individual point of the second scan and so on. The scans are then combined.

12.2 Sum of the SAR for WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Sum of the SAR for WCDMA B2 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	WCDMA B2	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.223	0.462	0.344		1.029	
	0.223	0.462		0.079	0.764	
Edge3	0.235	0.001	0.018		0.254	
	0.235	0.001		0.002	0.238	
Edge4	0.338	0.084	0.010		0.432	
	0.338	0.084		0.004	0.426	
Edge4 Reduction	0.916	0.084	0.010		1.010	
	0.916	0.084		0.004	1.004	
Rear	0.546	0.120	0.852		1.518	
	0.546	0.120		0.244	0.910	
Rear Reduction	0.343	0.120	0.852		1.315	
	0.343	0.120		0.244	0.707	
Rear tilt (Edge 4 side)	0.820	0.055	0.005		0.880	
	0.820	0.055		0.002	0.877	
Rear tilt (Edge 4 side) Reduction	0.587	0.055	0.005		0.647	
	0.587	0.055		0.002	0.644	
Rear tilt (Edge 1 side)	0.924	0.240	0.938		2.102	See next Section
	0.924	0.240		0.266	1.430	

Sum of the SAR for WCDMA B4 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	WCDMA B4	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.260	0.462	0.344		1.066	
	0.260	0.462		0.079	0.801	
Edge3	0.209	0.001	0.018		0.228	
	0.209	0.001		0.002	0.212	
Edge4	1.023	0.084	0.010		1.117	
	1.023	0.084		0.004	1.111	
Edge4 Reduction	0.694	0.084	0.010		0.788	
	0.694	0.084		0.004	0.782	
Rear	0.593	0.120	0.852		1.565	
	0.593	0.120		0.244	0.957	
Rear Reduction	0.358	0.120	0.852		1.330	
	0.358	0.120		0.244	0.722	
Rear tilt (Edge 4 side)	1.167	0.055	0.005		1.227	
	1.167	0.055		0.002	1.224	
Rear tilt (Edge 4 side) Reduction	0.676	0.055	0.005		0.736	
	0.676	0.055		0.002	0.733	
Rear tilt (Edge 1 side)	0.637	0.240	0.938		1.815	See next Section
	0.637	0.240		0.266	1.143	

Sum of the SAR for WCDMA B5 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	WCDMA B5	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.160	0.462	0.344		0.966	
	0.160	0.462		0.079	0.701	
Edge3	0.080	0.001	0.018		0.099	
	0.080	0.001		0.002	0.083	
Edge4	0.647	0.084	0.010		0.741	
	0.647	0.084		0.004	0.735	
Edge4 Reduction	0.879	0.084	0.010		0.973	
	0.879	0.084		0.004	0.967	
Rear	0.646	0.120	0.852		1.618	See next Section
	0.646	0.120		0.244	1.010	
Rear Reduction	0.276	0.120	0.852		1.248	
	0.276	0.120		0.244	0.640	
Rear tilt (Edge 4 side)	0.872	0.055	0.005		0.932	
	0.872	0.055		0.002	0.929	
Rear tilt (Edge 4 side) Reduction	0.402	0.055	0.005		0.462	
	0.402	0.055		0.002	0.459	
Rear tilt (Edge 1 side)	0.849	0.240	0.938		2.027	See next Section
	0.849	0.240		0.266	1.355	

Sum of the SAR for LTE B2 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B2	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.295	0.462	0.344		1.101	
	0.295	0.462		0.079	0.836	
Edge3	0.309	0.001	0.018		0.328	
	0.309	0.001		0.002	0.312	
Edge4	0.612	0.084	0.010		0.706	
	0.612	0.084		0.004	0.700	
Edge4 Reduction	0.910	0.084	0.010		1.004	
	0.910	0.084		0.004	0.998	
Rear	0.436	0.120	0.852		1.408	
	0.436	0.120		0.244	0.800	
Rear Reduction	0.349	0.120	0.852		1.321	
	0.349	0.120		0.244	0.713	
Rear tilt (Edge 4 side)	0.657	0.055	0.005		0.717	
	0.657	0.055		0.002	0.714	
Rear tilt (Edge 4 side) Reduction	0.578	0.055	0.005		0.638	
	0.578	0.055		0.002	0.635	
Rear tilt (Edge 1 side)	0.813	0.240	0.938		1.991	See next Section
	0.813	0.240		0.266	1.319	

Sum of the SAR for LTE B4 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B4	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.158	0.462	0.344		0.964	
	0.158	0.462		0.079	0.699	
Edge3	0.121	0.001	0.018		0.140	
	0.121	0.001		0.002	0.124	
Edge4	1.040	0.084	0.010		1.134	
	1.040	0.084		0.004	1.128	
Edge4 Reduction	0.925	0.084	0.010		1.019	
	0.925	0.084		0.004	1.013	
Rear	0.677	0.120	0.852		1.649	See next Section
	0.677	0.120		0.244	1.041	
Rear Reduction	0.460	0.120	0.852		1.432	
	0.460	0.120		0.244	0.824	
Rear tilt (Edge 4 side)	1.103	0.055	0.005		1.163	
	1.103	0.055		0.002	1.160	
Rear tilt (Edge 4 side) Reduction	0.867	0.055	0.005		0.927	
	0.867	0.055		0.002	0.924	
Rear tilt (Edge 1 side)	0.957	0.240	0.938		2.135	See next Section
	0.957	0.240		0.266	1.463	

Sum of the SAR for LTE B5 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B5	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.170	0.462	0.344		0.976	
	0.170	0.462		0.079	0.711	
Edge3	0.095	0.001	0.018		0.114	
	0.095	0.001		0.002	0.098	
Edge4	0.546	0.084	0.010		0.640	
	0.546	0.084		0.004	0.634	
Edge4 Reduction	0.883	0.084	0.010		0.977	
	0.883	0.084		0.004	0.971	
Rear	0.603	0.120	0.852		1.575	
	0.603	0.120		0.244	0.967	
Rear Reduction	0.312	0.120	0.852		1.284	
	0.312	0.120		0.244	0.676	
Rear tilt (Edge 4 side)	0.831	0.055	0.005		0.891	
	0.831	0.055		0.002	0.888	
Rear tilt (Edge 4 side) Reduction	0.447	0.055	0.005		0.507	
	0.447	0.055		0.002	0.504	
Rear tilt (Edge 1 side)	0.859	0.240	0.938		2.037	See next Section
	0.859	0.240		0.266	1.365	

Sum of the SAR for LTE B7 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B7	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.274	0.462	0.344		1.080	
	0.274	0.462		0.079	0.815	
Edge3	0.140	0.001	0.018		0.159	
	0.140	0.001		0.002	0.143	
Edge4	0.678	0.084	0.010		0.772	
	0.678	0.084		0.004	0.766	
Edge4 Reduction	0.958	0.084	0.010		1.052	
	0.958	0.084		0.004	1.046	
Rear	0.713	0.120	0.852		1.685	See next Section
	0.713	0.120		0.244	1.077	
Rear Reduction	0.432	0.120	0.852		1.404	
	0.432	0.120		0.244	0.796	
Rear tilt (Edge 4 side)	0.951	0.055	0.005		1.011	
	0.951	0.055		0.002	1.008	
Rear tilt (Edge 4 side) Reduction	0.597	0.055	0.005		0.657	
	0.597	0.055		0.002	0.654	
Rear tilt (Edge 1 side)	1.077	0.240	0.938		2.255	See next Section
	1.077	0.240		0.266	1.583	See next Section

Sum of the SAR for LTE B12 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B12	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.226	0.462	0.344		1.032	
	0.226	0.462		0.079	0.767	
Edge3	0.027	0.001	0.018		0.046	
	0.027	0.001		0.002	0.030	
Edge4	0.124	0.084	0.010		0.218	
	0.124	0.084		0.004	0.212	
Edge4 Reduction	1.026	0.084	0.010		1.120	
	1.026	0.084		0.004	1.114	
Rear	0.316	0.120	0.852		1.288	
	0.316	0.120		0.244	0.680	
Rear Reduction	0.265	0.120	0.852		1.237	
	0.265	0.120		0.244	0.629	
Rear tilt (Edge 4 side)	0.417	0.055	0.005		0.477	
	0.417	0.055		0.002	0.474	
Rear tilt (Edge 4 side) Reduction	0.453	0.055	0.005		0.513	
	0.453	0.055		0.002	0.510	
Rear tilt (Edge 1 side)	0.437	0.240	0.938		1.615	See next Section
	0.437	0.240		0.266	0.943	

Sum of the SAR for LTE B13 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B13	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.261	0.462	0.344		1.067	
	0.261	0.462		0.079	0.802	
Edge3	0.051	0.001	0.018		0.070	
	0.051	0.001		0.002	0.054	
Edge4	0.261	0.084	0.010		0.355	
	0.261	0.084		0.004	0.349	
Edge4 Reduction	0.958	0.084	0.010		1.052	
	0.958	0.084		0.004	1.046	
Rear	0.487	0.120	0.852		1.459	
	0.487	0.120		0.244	0.851	
Rear Reduction	0.331	0.120	0.852		1.303	
	0.331	0.120		0.244	0.695	
Rear tilt (Edge 4 side)	0.662	0.055	0.005		0.722	
	0.662	0.055		0.002	0.719	
Rear tilt (Edge 4 side) Reduction	0.508	0.055	0.005		0.568	
	0.508	0.055		0.002	0.565	
Rear tilt (Edge 1 side)	0.662	0.240	0.938		1.840	See next Section
	0.662	0.240		0.266	1.168	

Sum of the SAR for LTE B14 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B14	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.250	0.462	0.344		1.056	
	0.250	0.462		0.079	0.791	
Edge3	0.052	0.001	0.018		0.071	
	0.052	0.001		0.002	0.055	
Edge4	0.272	0.084	0.010		0.366	
	0.272	0.084		0.004	0.360	
Edge4 Reduction	0.932	0.084	0.010		1.026	
	0.932	0.084		0.004	1.020	
Rear	0.568	0.120	0.852		1.540	
	0.568	0.120		0.244	0.932	
Rear Reduction	0.363	0.120	0.852		1.335	
	0.363	0.120		0.244	0.727	
Rear tilt (Edge 4 side)	0.756	0.055	0.005		0.816	
	0.756	0.055		0.002	0.813	
Rear tilt (Edge 4 side) Reduction	0.529	0.055	0.005		0.589	
	0.529	0.055		0.002	0.586	
Rear tilt (Edge 1 side)	0.786	0.240	0.938		1.964	See next Section
	0.786	0.240		0.266	1.292	

Sum of the SAR for LTE B17 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B17	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.185	0.462	0.344		0.991	
	0.185	0.462		0.079	0.726	
Edge3	0.019	0.001	0.018		0.038	
	0.019	0.001		0.002	0.022	
Edge4	0.130	0.084	0.010		0.224	
	0.130	0.084		0.004	0.218	
Edge4 Reduction	0.821	0.084	0.010		0.915	
	0.821	0.084		0.004	0.909	
Rear	0.326	0.120	0.852		1.298	
	0.326	0.120		0.244	0.690	
Rear Reduction	0.243	0.120	0.852		1.215	
	0.243	0.120		0.244	0.607	
Rear tilt (Edge 4 side)	0.409	0.055	0.005		0.469	
	0.409	0.055		0.002	0.466	
Rear tilt (Edge 4 side) Reduction	0.405	0.055	0.005		0.465	
	0.405	0.055		0.002	0.462	
Rear tilt (Edge 1 side)	0.427	0.240	0.938		1.605	See next Section
	0.427	0.240		0.266	0.933	

Sum of the SAR for LTE B25 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B25	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.293	0.462	0.344		1.099	
	0.293	0.462		0.079	0.834	
Edge3	0.305	0.001	0.018		0.324	
	0.305	0.001		0.002	0.308	
Edge4	0.604	0.084	0.010		0.698	
	0.604	0.084		0.004	0.692	
Edge4 Reduction	0.891	0.084	0.010		0.985	
	0.891	0.084		0.004	0.979	
Rear	0.556	0.120	0.852		1.528	
	0.556	0.120		0.244	0.920	
Rear Reduction	0.342	0.120	0.852		1.314	
	0.342	0.120		0.244	0.706	
Rear tilt (Edge 4 side)	0.652	0.055	0.005		0.712	
	0.652	0.055		0.002	0.709	
Rear tilt (Edge 4 side) Reduction	0.604	0.055	0.005		0.664	
	0.604	0.055		0.002	0.661	
Rear tilt (Edge 1 side)	0.787	0.240	0.938		1.965	See next Section
	0.787	0.240		0.266	1.293	

Sum of the SAR for LTE B26 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B26	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.172	0.462	0.344		0.978	
	0.172	0.462		0.079	0.713	
Edge3	0.076	0.001	0.018		0.095	
	0.076	0.001		0.002	0.079	
Edge4	0.509	0.084	0.010		0.603	
	0.509	0.084		0.004	0.597	
Edge4 Reduction	0.862	0.084	0.010		0.956	
	0.862	0.084		0.004	0.950	
Rear	0.616	0.120	0.852		1.588	See next Section
	0.616	0.120		0.244	0.980	
Rear Reduction	0.326	0.120	0.852		1.298	
	0.326	0.120		0.244	0.690	
Rear tilt (Edge 4 side)	0.865	0.055	0.005		0.925	
	0.865	0.055		0.002	0.922	
Rear tilt (Edge 4 side) Reduction	0.461	0.055	0.005		0.521	
	0.461	0.055		0.002	0.518	
Rear tilt (Edge 1 side)	0.852	0.240	0.938		2.030	See next Section
	0.852	0.240		0.266	1.358	

Sum of the SAR for LTE B38 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B38	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.082	0.462	0.344		0.888	
	0.082	0.462		0.079	0.623	
Edge3	0.107	0.001	0.018		0.126	
	0.107	0.001		0.002	0.110	
Edge4	0.600	0.084	0.010		0.694	
	0.600	0.084		0.004	0.688	
Edge4 Reduction	0.944	0.084	0.010		1.038	
	0.944	0.084		0.004	1.032	
Rear	0.459	0.120	0.852		1.431	
	0.459	0.120		0.244	0.823	
Rear Reduction	0.396	0.120	0.852		1.368	
	0.396	0.120		0.244	0.760	
Rear tilt (Edge 4 side)	0.602	0.055	0.005		0.662	
	0.602	0.055		0.002	0.659	
Rear tilt (Edge 4 side) Reduction	0.561	0.055	0.005		0.621	
	0.561	0.055		0.002	0.618	
Rear tilt (Edge 1 side)	0.582	0.240	0.938		1.760	See next Section
	0.582	0.240		0.266	1.088	

Sum of the SAR for LTE B41 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B41	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.110	0.462	0.344		0.916	
	0.110	0.462		0.079	0.651	
Edge3	0.092	0.001	0.018		0.111	
	0.092	0.001		0.002	0.095	
Edge4	0.572	0.084	0.010		0.666	
	0.572	0.084		0.004	0.660	
Edge4 Reduction	1.173	0.084	0.010		1.267	
	1.173	0.084		0.004	1.261	
Rear	0.460	0.120	0.852		1.432	
	0.460	0.120		0.244	0.824	
Rear Reduction	0.531	0.120	0.852		1.503	
	0.531	0.120		0.244	0.895	
Rear tilt (Edge 4 side)	0.588	0.055	0.005		0.648	
	0.588	0.055		0.002	0.645	
Rear tilt (Edge 4 side) Reduction	0.702	0.055	0.005		0.762	
	0.702	0.055		0.002	0.759	
Rear tilt (Edge 1 side)	0.612	0.240	0.938		1.790	See next Section
	0.612	0.240		0.266	1.118	

Sum of the SAR for LTE B48 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B48	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.002	0.462	0.344		0.808	
	0.002	0.462		0.079	0.543	
Edge3	0.035	0.001	0.018		0.054	
	0.035	0.001		0.002	0.038	
Edge4	0.054	0.084	0.010		0.148	
	0.054	0.084		0.004	0.142	
Edge4 Reduction	0.672	0.084	0.010		0.766	
	0.672	0.084		0.004	0.760	
Rear	0.021	0.120	0.852		0.993	
	0.021	0.120		0.244	0.385	
Rear Reduction	0.057	0.120	0.852		1.029	
	0.057	0.120		0.244	0.421	
Rear tilt (Edge 4 side)	0.044	0.055	0.005		0.104	
	0.044	0.055		0.002	0.101	
Rear tilt (Edge 4 side) Reduction	0.125	0.055	0.005		0.185	
	0.125	0.055		0.002	0.182	
Rear tilt (Edge 1 side)	0.026	0.240	0.938		1.204	
	0.026	0.240		0.266	0.532	

Sum of the SAR for LTE B66 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B66	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.211	0.462	0.344		1.017	
	0.211	0.462		0.079	0.752	
Edge3	0.137	0.001	0.018		0.156	
	0.137	0.001		0.002	0.140	
Edge4	1.137	0.084	0.010		1.231	
	1.137	0.084		0.004	1.225	
Edge4 Reduction	0.947	0.084	0.010		1.041	
	0.947	0.084		0.004	1.035	
Rear	0.678	0.120	0.852		1.650	See next Section
	0.678	0.120		0.244	1.042	
Rear Reduction	0.463	0.120	0.852		1.435	
	0.463	0.120		0.244	0.827	
Rear tilt (Edge 4 side)	1.190	0.055	0.005		1.250	
	1.190	0.055		0.002	1.247	
Rear tilt (Edge 4 side) Reduction	0.863	0.055	0.005		0.923	
	0.863	0.055		0.002	0.920	
Rear tilt (Edge 1 side)	0.962	0.240	0.938		2.140	See next Section
	0.962	0.240		0.266	1.468	

Sum of the SAR for LTE B71 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B71	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.247	0.462	0.344		1.053	
	0.247	0.462		0.079	0.788	
Edge3	0.008	0.001	0.018		0.027	
	0.008	0.001		0.002	0.011	
Edge4	0.309	0.084	0.010		0.403	
	0.309	0.084		0.004	0.397	
Edge4 Reduction	0.987	0.084	0.010		1.081	
	0.987	0.084		0.004	1.075	
Rear	0.471	0.120	0.852		1.443	
	0.471	0.120		0.244	0.835	
Rear Reduction	0.302	0.120	0.852		1.274	
	0.302	0.120		0.244	0.666	
Rear tilt (Edge 4 side)	0.721	0.055	0.005		0.781	
	0.721	0.055		0.002	0.778	
Rear tilt (Edge 4 side) Reduction	0.486	0.055	0.005		0.546	
	0.486	0.055		0.002	0.543	
Rear tilt (Edge 1 side)	0.577	0.240	0.938		1.755	See next Section
	0.577	0.240		0.266	1.083	

Sum of the SAR for NR Bn2 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn2	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.212	0.462	0.344		1.018	
	0.212	0.462		0.079	0.753	
Edge3	0.271	0.001	0.018		0.290	
	0.271	0.001		0.002	0.274	
Edge4	0.579	0.084	0.010		0.673	
	0.579	0.084		0.004	0.667	
Edge4 Reduction	0.891	0.084	0.010		0.985	
	0.891	0.084		0.004	0.979	
Rear	0.446	0.120	0.852		1.418	
	0.446	0.120		0.244	0.810	
Rear Reduction	0.354	0.120	0.852		1.326	
	0.354	0.120		0.244	0.718	
Rear tilt (Edge 4 side)	0.662	0.055	0.005		0.722	
	0.662	0.055		0.002	0.719	
Rear tilt (Edge 4 side) Reduction	0.581	0.055	0.005		0.641	
	0.581	0.055		0.002	0.638	
Rear tilt (Edge 1 side)	0.887	0.240	0.938		2.065	See next Section
	0.887	0.240		0.266	1.393	

Sum of the SAR for NR Bn5 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn5	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.189	0.462	0.344		0.995	
	0.189	0.462		0.079	0.730	
Edge3	0.041	0.001	0.018		0.060	
	0.041	0.001		0.002	0.044	
Edge4	0.412	0.084	0.010		0.506	
	0.412	0.084		0.004	0.500	
Edge4 Reduction	0.975	0.084	0.010		1.069	
	0.975	0.084		0.004	1.063	
Rear	0.557	0.120	0.852		1.529	
	0.557	0.120		0.244	0.921	
Rear Reduction	0.346	0.120	0.852		1.318	
	0.346	0.120		0.244	0.710	
Rear tilt (Edge 4 side)	1.137	0.055	0.005		1.197	
	1.137	0.055		0.002	1.194	
Rear tilt (Edge 4 side) Reduction	0.493	0.055	0.005		0.553	
	0.493	0.055		0.002	0.550	
Rear tilt (Edge 1 side)	1.084	0.240	0.938		2.262	See next Section
	1.084	0.240		0.266	1.590	See next Section

Sum of the SAR for NR Bn41 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn41	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.274	0.462	0.344		1.080	
	0.274	0.462		0.079	0.815	
Edge2	0.504	0.016	0.015		0.535	
	0.504	0.016		0.004	0.524	
Edge2 Reduction	1.129	0.016	0.015		1.160	
	1.129	0.016		0.004	1.149	
Edge3	0.074	0.001	0.018		0.093	
	0.074	0.001		0.002	0.077	
Rear	0.308	0.120	0.852		1.280	
	0.308	0.120		0.244	0.672	
Rear Reduction	0.253	0.120	0.852		1.225	
	0.253	0.120		0.244	0.617	
Rear tilt (Edge 2 side)	0.882	0.010	0.192		1.084	
	0.882	0.010		0.066	0.958	
Rear tilt (Edge 2 side) Reduction	0.660	0.010	0.192		0.862	
	0.660	0.010		0.066	0.736	
Rear tilt (Edge 1 side)	0.866	0.240	0.938		2.044	See next Section
	0.866	0.240		0.266	1.372	

Sum of the SAR for NR Bn66 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn66	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.203	0.462	0.344		1.009	
	0.203	0.462		0.079	0.744	
Edge3	0.238	0.001	0.018		0.257	
	0.238	0.001		0.002	0.241	
Edge4	1.039	0.084	0.010		1.133	
	1.039	0.084		0.004	1.127	
Edge4 Reduction	0.785	0.084	0.010		0.879	
	0.785	0.084		0.004	0.873	
Rear	1.082	0.120	0.852		2.054	See next Section
	1.082	0.120		0.244	1.446	
Rear Reduction	0.378	0.120	0.852		1.350	
	0.378	0.120		0.244	0.742	
Rear tilt (Edge 4 side)	1.141	0.055	0.005		1.201	
	1.141	0.055		0.002	1.198	
Rear tilt (Edge 4 side) Reduction	0.708	0.055	0.005		0.768	
	0.708	0.055		0.002	0.765	
Rear tilt (Edge 1 side)	0.744	0.240	0.938		1.922	See next Section
	0.744	0.240		0.266	1.250	

Sum of the SAR for NR Bn71 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn71	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.299	0.462	0.344		1.105	
	0.299	0.462		0.079	0.840	
Edge3	0.016	0.001	0.018		0.035	
	0.016	0.001		0.002	0.019	
Edge4	0.370	0.084	0.010		0.464	
	0.370	0.084		0.004	0.458	
Edge4 Reduction	1.127	0.084	0.010		1.221	
	1.127	0.084		0.004	1.215	
Rear	0.578	0.120	0.852		1.550	
	0.578	0.120		0.244	0.942	
Rear Reduction	0.381	0.120	0.852		1.353	
	0.381	0.120		0.244	0.745	
Rear tilt (Edge 4 side)	0.639	0.055	0.005		0.699	
	0.639	0.055		0.002	0.696	
Rear tilt (Edge 4 side) Reduction	0.525	0.055	0.005		0.585	
	0.525	0.055		0.002	0.582	
Rear tilt (Edge 1 side)	0.661	0.240	0.938		1.839	See next Section
	0.661	0.240		0.266	1.167	

12.3 Sum of the SAR for WLAN Ant 1 5.3GHz / WLAN Ant 2 5.3GHz / BT

Sum of the SAR for WCDMA B2 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	WCDMA B2	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.223	0.439	0.121		0.783	
	0.223	0.439		0.079	0.741	
Edge3	0.235	0.000	0.000		0.235	
	0.235	0.000		0.002	0.237	
Edge4	0.338	0.029	0.000		0.367	
	0.338	0.029		0.004	0.371	
Edge4 Reduction	0.916	0.029	0.000		0.945	
	0.916	0.029		0.004	0.949	
Rear	0.546	0.122	0.546		1.214	
	0.546	0.122		0.244	0.912	
Rear Reduction	0.343	0.122	0.546		1.011	
	0.343	0.122		0.244	0.709	
Rear tilt (Edge 4 side)	0.820	0.054	0.019		0.893	
	0.820	0.054		0.002	0.876	
Rear tilt (Edge 4 side) Reduction	0.587	0.054	0.019		0.660	
	0.587	0.054		0.002	0.643	
Rear tilt (Edge 1 side)	0.924	0.238	0.830		1.992	See next Section
	0.924	0.238		0.266	1.428	

Sum of the SAR for WCDMA B4 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	WCDMA B4	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.260	0.439	0.121		0.820	
	0.260	0.439		0.079	0.778	
Edge3	0.209	0.000	0.000		0.209	
	0.209	0.000		0.002	0.211	
Edge4	1.023	0.029	0.000		1.052	
	1.023	0.029		0.004	1.056	
Edge4 Reduction	0.694	0.029	0.000		0.723	
	0.694	0.029		0.004	0.727	
Rear	0.593	0.122	0.546		1.261	
	0.593	0.122		0.244	0.959	
Rear Reduction	0.358	0.122	0.546		1.026	
	0.358	0.122		0.244	0.724	
Rear tilt (Edge 4 side)	1.167	0.054	0.019		1.240	
	1.167	0.054		0.002	1.223	
Rear tilt (Edge 4 side) Reduction	0.676	0.054	0.019		0.749	
	0.676	0.054		0.002	0.732	
Rear tilt (Edge 1 side)	0.637	0.238	0.830		1.705	See next Section
	0.637	0.238		0.266	1.141	

Sum of the SAR for WCDMA B5 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	WCDMA B5	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.160	0.439	0.121		0.720	
	0.160	0.439		0.079	0.678	
Edge3	0.080	0.000	0.000		0.080	
	0.080	0.000		0.002	0.082	
Edge4	0.647	0.029	0.000		0.676	
	0.647	0.029		0.004	0.680	
Edge4 Reduction	0.879	0.029	0.000		0.908	
	0.879	0.029		0.004	0.912	
Rear	0.646	0.122	0.546		1.314	
	0.646	0.122		0.244	1.012	
Rear Reduction	0.276	0.122	0.546		0.944	
	0.276	0.122		0.244	0.642	
Rear tilt (Edge 4 side)	0.872	0.054	0.019		0.945	
	0.872	0.054		0.002	0.928	
Rear tilt (Edge 4 side) Reduction	0.402	0.054	0.019		0.475	
	0.402	0.054		0.002	0.458	
Rear tilt (Edge 1 side)	0.849	0.238	0.830		1.917	See next Section
	0.849	0.238		0.266	1.353	

Sum of the SAR for LTE B2 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B2	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.295	0.439	0.121		0.855	
	0.295	0.439		0.079	0.813	
Edge3	0.309	0.000	0.000		0.309	
	0.309	0.000		0.002	0.311	
Edge4	0.612	0.029	0.000		0.641	
	0.612	0.029		0.004	0.645	
Edge4 Reduction	0.910	0.029	0.000		0.939	
	0.910	0.029		0.004	0.943	
Rear	0.436	0.122	0.546		1.104	
	0.436	0.122		0.244	0.802	
Rear Reduction	0.349	0.122	0.546		1.017	
	0.349	0.122		0.244	0.715	
Rear tilt (Edge 4 side)	0.657	0.054	0.019		0.730	
	0.657	0.054		0.002	0.713	
Rear tilt (Edge 4 side) Reduction	0.578	0.054	0.019		0.651	
	0.578	0.054		0.002	0.634	
Rear tilt (Edge 1 side)	0.813	0.238	0.830		1.881	See next Section
	0.813	0.238		0.266	1.317	

Sum of the SAR for LTE B4 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B4	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.158	0.439	0.121		0.718	
	0.158	0.439		0.079	0.676	
Edge3	0.121	0.000	0.000		0.121	
	0.121	0.000		0.002	0.123	
Edge4	1.040	0.029	0.000		1.069	
	1.040	0.029		0.004	1.073	
Edge4 Reduction	0.925	0.029	0.000		0.954	
	0.925	0.029		0.004	0.958	
Rear	0.677	0.122	0.546		1.345	
	0.677	0.122		0.244	1.043	
Rear Reduction	0.460	0.122	0.546		1.128	
	0.460	0.122		0.244	0.826	
Rear tilt (Edge 4 side)	1.103	0.054	0.019		1.176	
	1.103	0.054		0.002	1.159	
Rear tilt (Edge 4 side) Reduction	0.867	0.054	0.019		0.940	
	0.867	0.054		0.002	0.923	
Rear tilt (Edge 1 side)	0.957	0.238	0.830		2.025	See next Section
	0.957	0.238		0.266	1.461	

Sum of the SAR for LTE B5 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B5	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.170	0.439	0.121		0.730	
	0.170	0.439		0.079	0.688	
Edge3	0.095	0.000	0.000		0.095	
	0.095	0.000		0.002	0.097	
Edge4	0.546	0.029	0.000		0.575	
	0.546	0.029		0.004	0.579	
Edge4 Reduction	0.883	0.029	0.000		0.912	
	0.883	0.029		0.004	0.916	
Rear	0.603	0.122	0.546		1.271	
	0.603	0.122		0.244	0.969	
Rear Reduction	0.312	0.122	0.546		0.980	
	0.312	0.122		0.244	0.678	
Rear tilt (Edge 4 side)	0.831	0.054	0.019		0.904	
	0.831	0.054		0.002	0.887	
Rear tilt (Edge 4 side) Reduction	0.447	0.054	0.019		0.520	
	0.447	0.054		0.002	0.503	
Rear tilt (Edge 1 side)	0.859	0.238	0.830		1.927	See next Section
	0.859	0.238		0.266	1.363	

Sum of the SAR for LTE B7 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B7	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.274	0.439	0.121		0.834	
	0.274	0.439		0.079	0.792	
Edge3	0.140	0.000	0.000		0.140	
	0.140	0.000		0.002	0.142	
Edge4	0.678	0.029	0.000		0.707	
	0.678	0.029		0.004	0.711	
Edge4 Reduction	0.958	0.029	0.000		0.987	
	0.958	0.029		0.004	0.991	
Rear	0.713	0.122	0.546		1.381	
	0.713	0.122		0.244	1.079	
Rear Reduction	0.432	0.122	0.546		1.100	
	0.432	0.122		0.244	0.798	
Rear tilt (Edge 4 side)	0.951	0.054	0.019		1.024	
	0.951	0.054		0.002	1.007	
Rear tilt (Edge 4 side) Reduction	0.597	0.054	0.019		0.670	
	0.597	0.054		0.002	0.653	
Rear tilt (Edge 1 side)	1.077	0.238	0.830		2.145	See next Section
	1.077	0.238		0.266	1.581	See next Section

Sum of the SAR for LTE B12 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B12	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.226	0.439	0.121		0.786	
	0.226	0.439		0.079	0.744	
Edge3	0.027	0.000	0.000		0.027	
	0.027	0.000		0.002	0.029	
Edge4	0.124	0.029	0.000		0.153	
	0.124	0.029		0.004	0.157	
Edge4 Reduction	1.026	0.029	0.000		1.055	
	1.026	0.029		0.004	1.059	
Rear	0.316	0.122	0.546		0.984	
	0.316	0.122		0.244	0.682	
Rear Reduction	0.265	0.122	0.546		0.933	
	0.265	0.122		0.244	0.631	
Rear tilt (Edge 4 side)	0.417	0.054	0.019		0.490	
	0.417	0.054		0.002	0.473	
Rear tilt (Edge 4 side) Reduction	0.453	0.054	0.019		0.526	
	0.453	0.054		0.002	0.509	
Rear tilt (Edge 1 side)	0.437	0.238	0.830		1.505	
	0.437	0.238		0.266	0.941	

Sum of the SAR for LTE B13 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B13	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.261	0.439	0.121		0.821	
	0.261	0.439		0.079	0.779	
Edge3	0.051	0.000	0.000		0.051	
	0.051	0.000		0.002	0.053	
Edge4	0.261	0.029	0.000		0.290	
	0.261	0.029		0.004	0.294	
Edge4 Reduction	0.958	0.029	0.000		0.987	
	0.958	0.029		0.004	0.991	
Rear	0.487	0.122	0.546		1.155	
	0.487	0.122		0.244	0.853	
Rear Reduction	0.331	0.122	0.546		0.999	
	0.331	0.122		0.244	0.697	
Rear tilt (Edge 4 side)	0.662	0.054	0.019		0.735	
	0.662	0.054		0.002	0.718	
Rear tilt (Edge 4 side) Reduction	0.508	0.054	0.019		0.581	
	0.508	0.054		0.002	0.564	
Rear tilt (Edge 1 side)	0.662	0.238	0.830		1.730	See next Section
	0.662	0.238		0.266	1.166	

Sum of the SAR for LTE B14 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B14	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.250	0.439	0.121		0.810	
	0.250	0.439		0.079	0.768	
Edge3	0.052	0.000	0.000		0.052	
	0.052	0.000		0.002	0.054	
Edge4	0.272	0.029	0.000		0.301	
	0.272	0.029		0.004	0.305	
Edge4 Reduction	0.932	0.029	0.000		0.961	
	0.932	0.029		0.004	0.965	
Rear	0.568	0.122	0.546		1.236	
	0.568	0.122		0.244	0.934	
Rear Reduction	0.363	0.122	0.546		1.031	
	0.363	0.122		0.244	0.729	
Rear tilt (Edge 4 side)	0.756	0.054	0.019		0.829	
	0.756	0.054		0.002	0.812	
Rear tilt (Edge 4 side) Reduction	0.529	0.054	0.019		0.602	
	0.529	0.054		0.002	0.585	
Rear tilt (Edge 1 side)	0.786	0.238	0.830		1.854	See next Section
	0.786	0.238		0.266	1.290	

Sum of the SAR for LTE B17 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B17	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.185	0.439	0.121		0.745	
	0.185	0.439		0.079	0.703	
Edge3	0.019	0.000	0.000		0.019	
	0.019	0.000		0.002	0.021	
Edge4	0.130	0.029	0.000		0.159	
	0.130	0.029		0.004	0.163	
Edge4 Reduction	0.821	0.029	0.000		0.850	
	0.821	0.029		0.004	0.854	
Rear	0.326	0.122	0.546		0.994	
	0.326	0.122		0.244	0.692	
Rear Reduction	0.243	0.122	0.546		0.911	
	0.243	0.122		0.244	0.609	
Rear tilt (Edge 4 side)	0.409	0.054	0.019		0.482	
	0.409	0.054		0.002	0.465	
Rear tilt (Edge 4 side) Reduction	0.405	0.054	0.019		0.478	
	0.405	0.054		0.002	0.461	
Rear tilt (Edge 1 side)	0.427	0.238	0.830		1.495	
	0.427	0.238		0.266	0.931	

Sum of the SAR for LTE B25 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B25	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.293	0.439	0.121		0.853	
	0.293	0.439		0.079	0.811	
Edge3	0.305	0.000	0.000		0.305	
	0.305	0.000		0.002	0.307	
Edge4	0.604	0.029	0.000		0.633	
	0.604	0.029		0.004	0.637	
Edge4 Reduction	0.891	0.029	0.000		0.920	
	0.891	0.029		0.004	0.924	
Rear	0.556	0.122	0.546		1.224	
	0.556	0.122		0.244	0.922	
Rear Reduction	0.342	0.122	0.546		1.010	
	0.342	0.122		0.244	0.708	
Rear tilt (Edge 4 side)	0.652	0.054	0.019		0.725	
	0.652	0.054		0.002	0.708	
Rear tilt (Edge 4 side) Reduction	0.604	0.054	0.019		0.677	
	0.604	0.054		0.002	0.660	
Rear tilt (Edge 1 side)	0.787	0.238	0.830		1.855	See next Section
	0.787	0.238		0.266	1.291	

Sum of the SAR for LTE B26 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B26	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.172	0.439	0.121		0.732	
	0.172	0.439		0.079	0.690	
Edge3	0.076	0.000	0.000		0.076	
	0.076	0.000		0.002	0.078	
Edge4	0.509	0.029	0.000		0.538	
	0.509	0.029		0.004	0.542	
Edge4 Reduction	0.862	0.029	0.000		0.891	
	0.862	0.029		0.004	0.895	
Rear	0.616	0.122	0.546		1.284	
	0.616	0.122		0.244	0.982	
Rear Reduction	0.326	0.122	0.546		0.994	
	0.326	0.122		0.244	0.692	
Rear tilt (Edge 4 side)	0.865	0.054	0.019		0.938	
	0.865	0.054		0.002	0.921	
Rear tilt (Edge 4 side) Reduction	0.461	0.054	0.019		0.534	
	0.461	0.054		0.002	0.517	
Rear tilt (Edge 1 side)	0.852	0.238	0.830		1.920	See next Section
	0.852	0.238		0.266	1.356	

Sum of the SAR for LTE B38 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B38	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.082	0.439	0.121		0.642	
	0.082	0.439		0.079	0.600	
Edge3	0.107	0.000	0.000		0.107	
	0.107	0.000		0.002	0.109	
Edge4	0.600	0.029	0.000		0.629	
	0.600	0.029		0.004	0.633	
Edge4 Reduction	0.944	0.029	0.000		0.973	
	0.944	0.029		0.004	0.977	
Rear	0.459	0.122	0.546		1.127	
	0.459	0.122		0.244	0.825	
Rear Reduction	0.396	0.122	0.546		1.064	
	0.396	0.122		0.244	0.762	
Rear tilt (Edge 4 side)	0.602	0.054	0.019		0.675	
	0.602	0.054		0.002	0.658	
Rear tilt (Edge 4 side) Reduction	0.561	0.054	0.019		0.634	
	0.561	0.054		0.002	0.617	
Rear tilt (Edge 1 side)	0.582	0.238	0.830		1.650	See next Section
	0.582	0.238		0.266	1.086	

Sum of the SAR for LTE B41 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B41	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.110	0.439	0.121		0.670	
	0.110	0.439		0.079	0.628	
Edge3	0.092	0.000	0.000		0.092	
	0.092	0.000		0.002	0.094	
Edge4	0.572	0.029	0.000		0.601	
	0.572	0.029		0.004	0.605	
Edge4 Reduction	1.173	0.029	0.000		1.202	
	1.173	0.029		0.004	1.206	
Rear	0.460	0.122	0.546		1.128	
	0.460	0.122		0.244	0.826	
Rear Reduction	0.531	0.122	0.546		1.199	
	0.531	0.122		0.244	0.897	
Rear tilt (Edge 4 side)	0.588	0.054	0.019		0.661	
	0.588	0.054		0.002	0.644	
Rear tilt (Edge 4 side) Reduction	0.702	0.054	0.019		0.775	
	0.702	0.054		0.002	0.758	
Rear tilt (Edge 1 side)	0.612	0.238	0.830		1.680	See next Section
	0.612	0.238		0.266	1.116	

Sum of the SAR for LTE B48 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B48	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.002	0.439	0.121		0.562	
	0.002	0.439		0.079	0.520	
Edge3	0.035	0.000	0.000		0.035	
	0.035	0.000		0.002	0.037	
Edge4	0.054	0.029	0.000		0.083	
	0.054	0.029		0.004	0.087	
Edge4 Reduction	0.672	0.029	0.000		0.701	
	0.672	0.029		0.004	0.705	
Rear	0.021	0.122	0.546		0.689	
	0.021	0.122		0.244	0.387	
Rear Reduction	0.057	0.122	0.546		0.725	
	0.057	0.122		0.244	0.423	
Rear tilt (Edge 4 side)	0.044	0.054	0.019		0.117	
	0.044	0.054		0.002	0.100	
Rear tilt (Edge 4 side) Reduction	0.125	0.054	0.019		0.198	
	0.125	0.054		0.002	0.181	
Rear tilt (Edge 1 side)	0.026	0.238	0.830		1.094	
	0.026	0.238		0.266	0.530	

Sum of the SAR for LTE B66 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B66	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.211	0.439	0.121		0.771	
	0.211	0.439		0.079	0.729	
Edge3	0.137	0.000	0.000		0.137	
	0.137	0.000		0.002	0.139	
Edge4	1.137	0.029	0.000		1.166	
	1.137	0.029		0.004	1.170	
Edge4 Reduction	0.947	0.029	0.000		0.976	
	0.947	0.029		0.004	0.980	
Rear	0.678	0.122	0.546		1.346	
	0.678	0.122		0.244	1.044	
Rear Reduction	0.463	0.122	0.546		1.131	
	0.463	0.122		0.244	0.829	
Rear tilt (Edge 4 side)	1.190	0.054	0.019		1.263	
	1.190	0.054		0.002	1.246	
Rear tilt (Edge 4 side) Reduction	0.863	0.054	0.019		0.936	
	0.863	0.054		0.002	0.919	
Rear tilt (Edge 1 side)	0.962	0.238	0.830		2.030	See next Section
	0.962	0.238		0.266	1.466	

Sum of the SAR for LTE B71 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B71	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.247	0.439	0.121		0.807	
	0.247	0.439		0.079	0.765	
Edge3	0.008	0.000	0.000		0.008	
	0.008	0.000		0.002	0.010	
Edge4	0.309	0.029	0.000		0.338	
	0.309	0.029		0.004	0.342	
Edge4 Reduction	0.987	0.029	0.000		1.016	
	0.987	0.029		0.004	1.020	
Rear	0.471	0.122	0.546		1.139	
	0.471	0.122		0.244	0.837	
Rear Reduction	0.302	0.122	0.546		0.970	
	0.302	0.122		0.244	0.668	
Rear tilt (Edge 4 side)	0.721	0.054	0.019		0.794	
	0.721	0.054		0.002	0.777	
Rear tilt (Edge 4 side) Reduction	0.486	0.054	0.019		0.559	
	0.486	0.054		0.002	0.542	
Rear tilt (Edge 1 side)	0.577	0.238	0.830		1.645	See next Section
	0.577	0.238		0.266	1.081	

Sum of the SAR for NR Bn2 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn2	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.212	0.439	0.121		0.772	
	0.212	0.439		0.079	0.730	
Edge3	0.271	0.000	0.000		0.271	
	0.271	0.000		0.002	0.273	
Edge4	0.579	0.029	0.000		0.608	
	0.579	0.029		0.004	0.612	
Edge4 Reduction	0.891	0.029	0.000		0.920	
	0.891	0.029		0.004	0.924	
Rear	0.446	0.122	0.546		1.114	
	0.446	0.122		0.244	0.812	
Rear Reduction	0.354	0.122	0.546		1.022	
	0.354	0.122		0.244	0.720	
Rear tilt (Edge 4 side)	0.662	0.054	0.019		0.735	
	0.662	0.054		0.002	0.718	
Rear tilt (Edge 4 side) Reduction	0.581	0.054	0.019		0.654	
	0.581	0.054		0.002	0.637	
Rear tilt (Edge 1 side)	0.887	0.238	0.830		1.955	See next Section
	0.887	0.238		0.266	1.391	

Sum of the SAR for NR Bn5 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn5	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.189	0.439	0.121		0.749	
	0.189	0.439		0.079	0.707	
Edge3	0.041	0.000	0.000		0.041	
	0.041	0.000		0.002	0.043	
Edge4	0.412	0.029	0.000		0.441	
	0.412	0.029		0.004	0.445	
Edge4 Reduction	0.975	0.029	0.000		1.004	
	0.975	0.029		0.004	1.008	
Rear	0.557	0.122	0.546		1.225	
	0.557	0.122		0.244	0.923	
Rear Reduction	0.346	0.122	0.546		1.014	
	0.346	0.122		0.244	0.712	
Rear tilt (Edge 4 side)	1.137	0.054	0.019		1.210	
	1.137	0.054		0.002	1.193	
Rear tilt (Edge 4 side) Reduction	0.493	0.054	0.019		0.566	
	0.493	0.054		0.002	0.549	
Rear tilt (Edge 1 side)	1.084	0.238	0.830		2.152	See next Section
	1.084	0.238		0.266	1.588	See next Section

Sum of the SAR for NR Bn41 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn41	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.274	0.439	0.121		0.834	
	0.274	0.439		0.079	0.792	
Edge2	0.504	0.000	0.006		0.510	
	0.504	0.000		0.004	0.508	
Edge2 Reduction	1.129	0.000	0.006		1.135	
	1.129	0.000		0.004	1.133	
Edge3	0.074	0.000	0.000		0.074	
	0.074	0.000		0.002	0.076	
Rear	0.308	0.122	0.546		0.976	
	0.308	0.122		0.244	0.674	
Rear Reduction	0.253	0.122	0.546		0.921	
	0.253	0.122		0.244	0.619	
Rear tilt (Edge 2 side)	0.882	0.010	0.118		1.010	
	0.882	0.010		0.066	0.958	
Rear tilt (Edge 2 side) Reduction	0.660	0.010	0.118		0.788	
	0.660	0.010		0.066	0.736	
Rear tilt (Edge 1 side)	0.866	0.238	0.830		1.934	See next Section
	0.866	0.238		0.266	1.370	

Sum of the SAR for NR Bn66 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn66	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.203	0.439	0.121		0.763	
	0.203	0.439		0.079	0.721	
Edge3	0.238	0.000	0.000		0.238	
	0.238	0.000		0.002	0.240	
Edge4	1.039	0.029	0.000		1.068	
	1.039	0.029		0.004	1.072	
Edge4 Reduction	0.785	0.029	0.000		0.814	
	0.785	0.029		0.004	0.818	
Rear	1.082	0.122	0.546		1.750	See next Section
	1.082	0.122		0.244	1.448	
Rear Reduction	0.378	0.122	0.546		1.046	
	0.378	0.122		0.244	0.744	
Rear tilt (Edge 4 side)	1.141	0.054	0.019		1.214	
	1.141	0.054		0.002	1.197	
Rear tilt (Edge 4 side) Reduction	0.708	0.054	0.019		0.781	
	0.708	0.054		0.002	0.764	
Rear tilt (Edge 1 side)	0.744	0.238	0.830		1.812	See next Section
	0.744	0.238		0.266	1.248	

Sum of the SAR for NR Bn71 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn71	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.299	0.439	0.121		0.859	
	0.299	0.439		0.079	0.817	
Edge3	0.016	0.000	0.000		0.016	
	0.016	0.000		0.002	0.018	
Edge4	0.370	0.029	0.000		0.399	
	0.370	0.029		0.004	0.403	
Edge4 Reduction	1.127	0.029	0.000		1.156	
	1.127	0.029		0.004	1.160	
Rear	0.578	0.122	0.546		1.246	
	0.578	0.122		0.244	0.944	
Rear Reduction	0.381	0.122	0.546		1.049	
	0.381	0.122		0.244	0.747	
Rear tilt (Edge 4 side)	0.639	0.054	0.019		0.712	
	0.639	0.054		0.002	0.695	
Rear tilt (Edge 4 side) Reduction	0.525	0.054	0.019		0.598	
	0.525	0.054		0.002	0.581	
Rear tilt (Edge 1 side)	0.661	0.238	0.830		1.729	See next Section
	0.661	0.238		0.266	1.165	

12.4 Sum of the SAR for WLAN Ant 1 5.5GHz / WLAN Ant 2 5.5GHz / BT

Sum of the SAR for WCDMA B2 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	WCDMA B2	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.223	0.452	0.167		0.842	
	0.223	0.452		0.079	0.754	
Edge3	0.235	0.001	0.000		0.236	
	0.235	0.001		0.002	0.238	
Edge4	0.338	0.018	0.000		0.356	
	0.338	0.018		0.004	0.360	
Edge4 Reduction	0.916	0.018	0.000		0.934	
	0.916	0.018		0.004	0.938	
Rear	0.546	0.198	0.582		1.326	
	0.546	0.198		0.244	0.988	
Rear Reduction	0.343	0.198	0.582		1.123	
	0.343	0.198		0.244	0.785	
Rear tilt (Edge 4 side)	0.820	0.078	0.025		0.923	
	0.820	0.078		0.002	0.900	
Rear tilt (Edge 4 side) Reduction	0.587	0.078	0.025		0.690	
	0.587	0.078		0.002	0.667	
Rear tilt (Edge 1 side)	0.924	0.313	0.808		2.045	See next Section
	0.924	0.313		0.266	1.503	

Sum of the SAR for WCDMA B4 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	WCDMA B4	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.260	0.452	0.167		0.879	
	0.260	0.452		0.079	0.791	
Edge3	0.209	0.001	0.000		0.210	
	0.209	0.001		0.002	0.212	
Edge4	1.023	0.018	0.000		1.041	
	1.023	0.018		0.004	1.045	
Edge4 Reduction	0.694	0.018	0.000		0.712	
	0.694	0.018		0.004	0.716	
Rear	0.593	0.198	0.582		1.373	
	0.593	0.198		0.244	1.035	
Rear Reduction	0.358	0.198	0.582		1.138	
	0.358	0.198		0.244	0.800	
Rear tilt (Edge 4 side)	1.167	0.078	0.025		1.270	
	1.167	0.078		0.002	1.247	
Rear tilt (Edge 4 side) Reduction	0.676	0.078	0.025		0.779	
	0.676	0.078		0.002	0.756	
Rear tilt (Edge 1 side)	0.637	0.313	0.808		1.758	See next Section
	0.637	0.313		0.266	1.216	

Sum of the SAR for WCDMA B5 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	WCDMA B5	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.160	0.452	0.167		0.779	
	0.160	0.452		0.079	0.691	
Edge3	0.080	0.001	0.000		0.081	
	0.080	0.001		0.002	0.083	
Edge4	0.647	0.018	0.000		0.665	
	0.647	0.018		0.004	0.669	
Edge4 Reduction	0.879	0.018	0.000		0.897	
	0.879	0.018		0.004	0.901	
Rear	0.646	0.198	0.582		1.426	
	0.646	0.198		0.244	1.088	
Rear Reduction	0.276	0.198	0.582		1.056	
	0.276	0.198		0.244	0.718	
Rear tilt (Edge 4 side)	0.872	0.078	0.025		0.975	
	0.872	0.078		0.002	0.952	
Rear tilt (Edge 4 side) Reduction	0.402	0.078	0.025		0.505	
	0.402	0.078		0.002	0.482	
Rear tilt (Edge 1 side)	0.849	0.313	0.808		1.970	See next Section
	0.849	0.313		0.266	1.428	

Sum of the SAR for LTE B2 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B2	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.295	0.452	0.167		0.914	
	0.295	0.452		0.079	0.826	
Edge3	0.309	0.001	0.000		0.310	
	0.309	0.001		0.002	0.312	
Edge4	0.612	0.018	0.000		0.630	
	0.612	0.018		0.004	0.634	
Edge4 Reduction	0.910	0.018	0.000		0.928	
	0.910	0.018		0.004	0.932	
Rear	0.436	0.198	0.582		1.216	
	0.436	0.198		0.244	0.878	
Rear Reduction	0.349	0.198	0.582		1.129	
	0.349	0.198		0.244	0.791	
Rear tilt (Edge 4 side)	0.657	0.078	0.025		0.760	
	0.657	0.078		0.002	0.737	
Rear tilt (Edge 4 side) Reduction	0.578	0.078	0.025		0.681	
	0.578	0.078		0.002	0.658	
Rear tilt (Edge 1 side)	0.813	0.313	0.808		1.934	See next Section
	0.813	0.313		0.266	1.392	

Sum of the SAR for LTE B4 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B4	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.158	0.452	0.167		0.777	
	0.158	0.452		0.079	0.689	
Edge3	0.121	0.001	0.000		0.122	
	0.121	0.001		0.002	0.124	
Edge4	1.040	0.018	0.000		1.058	
	1.040	0.018		0.004	1.062	
Edge4 Reduction	0.925	0.018	0.000		0.943	
	0.925	0.018		0.004	0.947	
Rear	0.677	0.198	0.582		1.457	
	0.677	0.198		0.244	1.119	
Rear Reduction	0.460	0.198	0.582		1.240	
	0.460	0.198		0.244	0.902	
Rear tilt (Edge 4 side)	1.103	0.078	0.025		1.206	
	1.103	0.078		0.002	1.183	
Rear tilt (Edge 4 side) Reduction	0.867	0.078	0.025		0.970	
	0.867	0.078		0.002	0.947	
Rear tilt (Edge 1 side)	0.957	0.313	0.808		2.078	See next Section
	0.957	0.313		0.266	1.536	

Sum of the SAR for LTE B5 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B5	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.170	0.452	0.167		0.789	
	0.170	0.452		0.079	0.701	
Edge3	0.095	0.001	0.000		0.096	
	0.095	0.001		0.002	0.098	
Edge4	0.546	0.018	0.000		0.564	
	0.546	0.018		0.004	0.568	
Edge4 Reduction	0.883	0.018	0.000		0.901	
	0.883	0.018		0.004	0.905	
Rear	0.603	0.198	0.582		1.383	
	0.603	0.198		0.244	1.045	
Rear Reduction	0.312	0.198	0.582		1.092	
	0.312	0.198		0.244	0.754	
Rear tilt (Edge 4 side)	0.831	0.078	0.025		0.934	
	0.831	0.078		0.002	0.911	
Rear tilt (Edge 4 side) Reduction	0.447	0.078	0.025		0.550	
	0.447	0.078		0.002	0.527	
Rear tilt (Edge 1 side)	0.859	0.313	0.808		1.980	See next Section
	0.859	0.313		0.266	1.438	

Sum of the SAR for LTE B7 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B7	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.274	0.452	0.167		0.893	
	0.274	0.452		0.079	0.805	
Edge3	0.140	0.001	0.000		0.141	
	0.140	0.001		0.002	0.143	
Edge4	0.678	0.018	0.000		0.696	
	0.678	0.018		0.004	0.700	
Edge4 Reduction	0.958	0.018	0.000		0.976	
	0.958	0.018		0.004	0.980	
Rear	0.713	0.198	0.582		1.493	
	0.713	0.198		0.244	1.155	
Rear Reduction	0.432	0.198	0.582		1.212	
	0.432	0.198		0.244	0.874	
Rear tilt (Edge 4 side)	0.951	0.078	0.025		1.054	
	0.951	0.078		0.002	1.031	
Rear tilt (Edge 4 side) Reduction	0.597	0.078	0.025		0.700	
	0.597	0.078		0.002	0.677	
Rear tilt (Edge 1 side)	1.077	0.313	0.808		2.198	See next Section
	1.077	0.313		0.266	1.656	See next Section

Sum of the SAR for LTE B12 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B12	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.226	0.452	0.167		0.845	
	0.226	0.452		0.079	0.757	
Edge3	0.027	0.001	0.000		0.028	
	0.027	0.001		0.002	0.030	
Edge4	0.124	0.018	0.000		0.142	
	0.124	0.018		0.004	0.146	
Edge4 Reduction	1.026	0.018	0.000		1.044	
	1.026	0.018		0.004	1.048	
Rear	0.316	0.198	0.582		1.096	
	0.316	0.198		0.244	0.758	
Rear Reduction	0.265	0.198	0.582		1.045	
	0.265	0.198		0.244	0.707	
Rear tilt (Edge 4 side)	0.417	0.078	0.025		0.520	
	0.417	0.078		0.002	0.497	
Rear tilt (Edge 4 side) Reduction	0.453	0.078	0.025		0.556	
	0.453	0.078		0.002	0.533	
Rear tilt (Edge 1 side)	0.437	0.313	0.808		1.558	
	0.437	0.313		0.266	1.016	

Sum of the SAR for LTE B13 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B13	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.261	0.452	0.167		0.880	
	0.261	0.452		0.079	0.792	
Edge3	0.051	0.001	0.000		0.052	
	0.051	0.001		0.002	0.054	
Edge4	0.261	0.018	0.000		0.279	
	0.261	0.018		0.004	0.283	
Edge4 Reduction	0.958	0.018	0.000		0.976	
	0.958	0.018		0.004	0.980	
Rear	0.487	0.198	0.582		1.267	
	0.487	0.198		0.244	0.929	
Rear Reduction	0.331	0.198	0.582		1.111	
	0.331	0.198		0.244	0.773	
Rear tilt (Edge 4 side)	0.662	0.078	0.025		0.765	
	0.662	0.078		0.002	0.742	
Rear tilt (Edge 4 side) Reduction	0.508	0.078	0.025		0.611	
	0.508	0.078		0.002	0.588	
Rear tilt (Edge 1 side)	0.662	0.313	0.808		1.783	See next Section
	0.662	0.313		0.266	1.241	

Sum of the SAR for LTE B14 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B14	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.250	0.452	0.167		0.869	
	0.250	0.452		0.079	0.781	
Edge3	0.052	0.001	0.000		0.053	
	0.052	0.001		0.002	0.055	
Edge4	0.272	0.018	0.000		0.290	
	0.272	0.018		0.004	0.294	
Edge4 Reduction	0.932	0.018	0.000		0.950	
	0.932	0.018		0.004	0.954	
Rear	0.568	0.198	0.582		1.348	
	0.568	0.198		0.244	1.010	
Rear Reduction	0.363	0.198	0.582		1.143	
	0.363	0.198		0.244	0.805	
Rear tilt (Edge 4 side)	0.756	0.078	0.025		0.859	
	0.756	0.078		0.002	0.836	
Rear tilt (Edge 4 side) Reduction	0.529	0.078	0.025		0.632	
	0.529	0.078		0.002	0.609	
Rear tilt (Edge 1 side)	0.786	0.313	0.808		1.907	See next Section
	0.786	0.313		0.266	1.365	

Sum of the SAR for LTE B17 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B17	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.185	0.452	0.167		0.804	
	0.185	0.452		0.079	0.716	
Edge3	0.019	0.001	0.000		0.020	
	0.019	0.001		0.002	0.022	
Edge4	0.130	0.018	0.000		0.148	
	0.130	0.018		0.004	0.152	
Edge4 Reduction	0.821	0.018	0.000		0.839	
	0.821	0.018		0.004	0.843	
Rear	0.326	0.198	0.582		1.106	
	0.326	0.198		0.244	0.768	
Rear Reduction	0.243	0.198	0.582		1.023	
	0.243	0.198		0.244	0.685	
Rear tilt (Edge 4 side)	0.409	0.078	0.025		0.512	
	0.409	0.078		0.002	0.489	
Rear tilt (Edge 4 side) Reduction	0.405	0.078	0.025		0.508	
	0.405	0.078		0.002	0.485	
Rear tilt (Edge 1 side)	0.427	0.313	0.808		1.548	
	0.427	0.313		0.266	1.006	

Sum of the SAR for LTE B25 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B25	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.293	0.452	0.167		0.912	
	0.293	0.452		0.079	0.824	
Edge3	0.305	0.001	0.000		0.306	
	0.305	0.001		0.002	0.308	
Edge4	0.604	0.018	0.000		0.622	
	0.604	0.018		0.004	0.626	
Edge4 Reduction	0.891	0.018	0.000		0.909	
	0.891	0.018		0.004	0.913	
Rear	0.556	0.198	0.582		1.336	
	0.556	0.198		0.244	0.998	
Rear Reduction	0.342	0.198	0.582		1.122	
	0.342	0.198		0.244	0.784	
Rear tilt (Edge 4 side)	0.652	0.078	0.025		0.755	
	0.652	0.078		0.002	0.732	
Rear tilt (Edge 4 side) Reduction	0.604	0.078	0.025		0.707	
	0.604	0.078		0.002	0.684	
Rear tilt (Edge 1 side)	0.787	0.313	0.808		1.908	See next Section
	0.787	0.313		0.266	1.366	

Sum of the SAR for LTE B26 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B26	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.172	0.452	0.167		0.791	
	0.172	0.452		0.079	0.703	
Edge3	0.076	0.001	0.000		0.077	
	0.076	0.001		0.002	0.079	
Edge4	0.509	0.018	0.000		0.527	
	0.509	0.018		0.004	0.531	
Edge4 Reduction	0.862	0.018	0.000		0.880	
	0.862	0.018		0.004	0.884	
Rear	0.616	0.198	0.582		1.396	
	0.616	0.198		0.244	1.058	
Rear Reduction	0.326	0.198	0.582		1.106	
	0.326	0.198		0.244	0.768	
Rear tilt (Edge 4 side)	0.865	0.078	0.025		0.968	
	0.865	0.078		0.002	0.945	
Rear tilt (Edge 4 side) Reduction	0.461	0.078	0.025		0.564	
	0.461	0.078		0.002	0.541	
Rear tilt (Edge 1 side)	0.852	0.313	0.808		1.973	See next Section
	0.852	0.313		0.266	1.431	

Sum of the SAR for LTE B38 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B38	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.082	0.452	0.167		0.701	
	0.082	0.452		0.079	0.613	
Edge3	0.107	0.001	0.000		0.108	
	0.107	0.001		0.002	0.110	
Edge4	0.600	0.018	0.000		0.618	
	0.600	0.018		0.004	0.622	
Edge4 Reduction	0.944	0.018	0.000		0.962	
	0.944	0.018		0.004	0.966	
Rear	0.459	0.198	0.582		1.239	
	0.459	0.198		0.244	0.901	
Rear Reduction	0.396	0.198	0.582		1.176	
	0.396	0.198		0.244	0.838	
Rear tilt (Edge 4 side)	0.602	0.078	0.025		0.705	
	0.602	0.078		0.002	0.682	
Rear tilt (Edge 4 side) Reduction	0.561	0.078	0.025		0.664	
	0.561	0.078		0.002	0.641	
Rear tilt (Edge 1 side)	0.582	0.313	0.808		1.703	See next Section
	0.582	0.313		0.266	1.161	

Sum of the SAR for LTE B41 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B41	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.110	0.452	0.167		0.729	
	0.110	0.452		0.079	0.641	
Edge3	0.092	0.001	0.000		0.093	
	0.092	0.001		0.002	0.095	
Edge4	0.572	0.018	0.000		0.590	
	0.572	0.018		0.004	0.594	
Edge4 Reduction	1.173	0.018	0.000		1.191	
	1.173	0.018		0.004	1.195	
Rear	0.460	0.198	0.582		1.240	
	0.460	0.198		0.244	0.902	
Rear Reduction	0.531	0.198	0.582		1.311	
	0.531	0.198		0.244	0.973	
Rear tilt (Edge 4 side)	0.588	0.078	0.025		0.691	
	0.588	0.078		0.002	0.668	
Rear tilt (Edge 4 side) Reduction	0.702	0.078	0.025		0.805	
	0.702	0.078		0.002	0.782	
Rear tilt (Edge 1 side)	0.612	0.313	0.808		1.733	See next Section
	0.612	0.313		0.266	1.191	

Sum of the SAR for LTE B48 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B48	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.002	0.452	0.167		0.621	
	0.002	0.452		0.079	0.533	
Edge3	0.035	0.001	0.000		0.036	
	0.035	0.001		0.002	0.038	
Edge4	0.054	0.018	0.000		0.072	
	0.054	0.018		0.004	0.076	
Edge4 Reduction	0.672	0.018	0.000		0.690	
	0.672	0.018		0.004	0.694	
Rear	0.021	0.198	0.582		0.801	
	0.021	0.198		0.244	0.463	
Rear Reduction	0.057	0.198	0.582		0.837	
	0.057	0.198		0.244	0.499	
Rear tilt (Edge 4 side)	0.044	0.078	0.025		0.147	
	0.044	0.078		0.002	0.124	
Rear tilt (Edge 4 side) Reduction	0.125	0.078	0.025		0.228	
	0.125	0.078		0.002	0.205	
Rear tilt (Edge 1 side)	0.026	0.313	0.808		1.147	
	0.026	0.313		0.266	0.605	

Sum of the SAR for LTE B66 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B66	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.211	0.452	0.167		0.830	
	0.211	0.452		0.079	0.742	
Edge3	0.137	0.001	0.000		0.138	
	0.137	0.001		0.002	0.140	
Edge4	1.137	0.018	0.000		1.155	
	1.137	0.018		0.004	1.159	
Edge4 Reduction	0.947	0.018	0.000		0.965	
	0.947	0.018		0.004	0.969	
Rear	0.678	0.198	0.582		1.458	
	0.678	0.198		0.244	1.120	
Rear Reduction	0.463	0.198	0.582		1.243	
	0.463	0.198		0.244	0.905	
Rear tilt (Edge 4 side)	1.190	0.078	0.025		1.293	
	1.190	0.078		0.002	1.270	
Rear tilt (Edge 4 side) Reduction	0.863	0.078	0.025		0.966	
	0.863	0.078		0.002	0.943	
Rear tilt (Edge 1 side)	0.962	0.313	0.808		2.083	See next Section
	0.962	0.313		0.266	1.541	

Sum of the SAR for LTE B71 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B71	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.247	0.452	0.167		0.866	
	0.247	0.452		0.079	0.778	
Edge3	0.008	0.001	0.000		0.009	
	0.008	0.001		0.002	0.011	
Edge4	0.309	0.018	0.000		0.327	
	0.309	0.018		0.004	0.331	
Edge4 Reduction	0.987	0.018	0.000		1.005	
	0.987	0.018		0.004	1.009	
Rear	0.471	0.198	0.582		1.251	
	0.471	0.198		0.244	0.913	
Rear Reduction	0.302	0.198	0.582		1.082	
	0.302	0.198		0.244	0.744	
Rear tilt (Edge 4 side)	0.721	0.078	0.025		0.824	
	0.721	0.078		0.002	0.801	
Rear tilt (Edge 4 side) Reduction	0.486	0.078	0.025		0.589	
	0.486	0.078		0.002	0.566	
Rear tilt (Edge 1 side)	0.577	0.313	0.808		1.698	See next Section
	0.577	0.313		0.266	1.156	

Sum of the SAR for NR Bn2 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn2	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.212	0.452	0.167		0.831	
	0.212	0.452		0.079	0.743	
Edge3	0.271	0.001	0.000		0.272	
	0.271	0.001		0.002	0.274	
Edge4	0.579	0.018	0.000		0.597	
	0.579	0.018		0.004	0.601	
Edge4 Reduction	0.891	0.018	0.000		0.909	
	0.891	0.018		0.004	0.913	
Rear	0.446	0.198	0.582		1.226	
	0.446	0.198		0.244	0.888	
Rear Reduction	0.354	0.198	0.582		1.134	
	0.354	0.198		0.244	0.796	
Rear tilt (Edge 4 side)	0.662	0.078	0.025		0.765	
	0.662	0.078		0.002	0.742	
Rear tilt (Edge 4 side) Reduction	0.581	0.078	0.025		0.684	
	0.581	0.078		0.002	0.661	
Rear tilt (Edge 1 side)	0.887	0.313	0.808		2.008	See next Section
	0.887	0.313		0.266	1.466	

Sum of the SAR for NR Bn5 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn5	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.189	0.452	0.167		0.808	
	0.189	0.452		0.079	0.720	
Edge3	0.041	0.001	0.000		0.042	
	0.041	0.001		0.002	0.044	
Edge4	0.412	0.018	0.000		0.430	
	0.412	0.018		0.004	0.434	
Edge4 Reduction	0.975	0.018	0.000		0.993	
	0.975	0.018		0.004	0.997	
Rear	0.557	0.198	0.582		1.337	
	0.557	0.198		0.244	0.999	
Rear Reduction	0.346	0.198	0.582		1.126	
	0.346	0.198		0.244	0.788	
Rear tilt (Edge 4 side)	1.137	0.078	0.025		1.240	
	1.137	0.078		0.002	1.217	
Rear tilt (Edge 4 side) Reduction	0.493	0.078	0.025		0.596	
	0.493	0.078		0.002	0.573	
Rear tilt (Edge 1 side)	1.084	0.313	0.808		2.205	See next Section
	1.084	0.313		0.266	1.663	See next Section

Sum of the SAR for NR Bn41 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn41	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.274	0.452	0.167		0.893	
	0.274	0.452		0.079	0.805	
Edge2	0.504	0.000	0.008		0.512	
	0.504	0.000		0.004	0.508	
Edge2 Reduction	1.129	0.000	0.008		1.137	
	1.129	0.000		0.004	1.133	
Edge3	0.074	0.001	0.000		0.075	
	0.074	0.001		0.002	0.077	
Rear	0.308	0.198	0.582		1.088	
	0.308	0.198		0.244	0.750	
Rear Reduction	0.253	0.198	0.582		1.033	
	0.253	0.198		0.244	0.695	
Rear tilt (Edge 2 side)	0.882	0.010	0.155		1.047	
	0.882	0.010		0.066	0.958	
Rear tilt (Edge 2 side) Reduction	0.660	0.010	0.155		0.825	
	0.660	0.010		0.066	0.736	
Rear tilt (Edge 1 side)	0.866	0.313	0.808		1.987	See next Section
	0.866	0.313		0.266	1.445	

Sum of the SAR for NR Bn66 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn66	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.203	0.452	0.167		0.822	
	0.203	0.452		0.079	0.734	
Edge3	0.238	0.001	0.000		0.239	
	0.238	0.001		0.002	0.241	
Edge4	1.039	0.018	0.000		1.057	
	1.039	0.018		0.004	1.061	
Edge4 Reduction	0.785	0.018	0.000		0.803	
	0.785	0.018		0.004	0.807	
Rear	1.082	0.198	0.582		1.862	See next Section
	1.082	0.198		0.244	1.524	
Rear Reduction	0.378	0.198	0.582		1.158	
	0.378	0.198		0.244	0.820	
Rear tilt (Edge 4 side)	1.141	0.078	0.025		1.244	
	1.141	0.078		0.002	1.221	
Rear tilt (Edge 4 side) Reduction	0.708	0.078	0.025		0.811	
	0.708	0.078		0.002	0.788	
Rear tilt (Edge 1 side)	0.744	0.313	0.808		1.865	See next Section
	0.744	0.313		0.266	1.323	

Sum of the SAR for NR Bn71 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn71	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.299	0.452	0.167		0.918	
	0.299	0.452		0.079	0.830	
Edge3	0.016	0.001	0.000		0.017	
	0.016	0.001		0.002	0.019	
Edge4	0.370	0.018	0.000		0.388	
	0.370	0.018		0.004	0.392	
Edge4 Reduction	1.127	0.018	0.000		1.145	
	1.127	0.018		0.004	1.149	
Rear	0.578	0.198	0.582		1.358	
	0.578	0.198		0.244	1.020	
Rear Reduction	0.381	0.198	0.582		1.161	
	0.381	0.198		0.244	0.823	
Rear tilt (Edge 4 side)	0.639	0.078	0.025		0.742	
	0.639	0.078		0.002	0.719	
Rear tilt (Edge 4 side) Reduction	0.525	0.078	0.025		0.628	
	0.525	0.078		0.002	0.605	
Rear tilt (Edge 1 side)	0.661	0.313	0.808		1.782	See next Section
	0.661	0.313		0.266	1.240	

12.5 Sum of the SAR for WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Sum of the SAR for WCDMA B2 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	WCDMA B2	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.223	0.530	0.204		0.957	
	0.223	0.530		0.079	0.832	
Edge3	0.235	0.001	0.002		0.238	
	0.235	0.001		0.002	0.238	
Edge4	0.338	0.023	0.000		0.361	
	0.338	0.023		0.004	0.365	
Edge4 Reduction	0.916	0.023	0.000		0.939	
	0.916	0.023		0.004	0.943	
Rear	0.546	0.244	0.585		1.375	
	0.546	0.244		0.244	1.034	
Rear Reduction	0.343	0.244	0.585		1.172	
	0.343	0.244		0.244	0.831	
Rear tilt (Edge 4 side)	0.820	0.098	0.021		0.939	
	0.820	0.098		0.002	0.920	
Rear tilt (Edge 4 side) Reduction	0.587	0.098	0.021		0.706	
	0.587	0.098		0.002	0.687	
Rear tilt (Edge 1 side)	0.924	0.336	0.729		1.989	See next Section
	0.924	0.336		0.266	1.526	

Sum of the SAR for WCDMA B4 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	WCDMA B4	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.260	0.530	0.204		0.994	
	0.260	0.530		0.079	0.869	
Edge3	0.209	0.001	0.002		0.212	
	0.209	0.001		0.002	0.212	
Edge4	1.023	0.023	0.000		1.046	
	1.023	0.023		0.004	1.050	
Edge4 Reduction	0.694	0.023	0.000		0.717	
	0.694	0.023		0.004	0.721	
Rear	0.593	0.244	0.585		1.422	
	0.593	0.244		0.244	1.081	
Rear Reduction	0.358	0.244	0.585		1.187	
	0.358	0.244		0.244	0.846	
Rear tilt (Edge 4 side)	1.167	0.098	0.021		1.286	
	1.167	0.098		0.002	1.267	
Rear tilt (Edge 4 side) Reduction	0.676	0.098	0.021		0.795	
	0.676	0.098		0.002	0.776	
Rear tilt (Edge 1 side)	0.637	0.336	0.729		1.702	See next Section
	0.637	0.336		0.266	1.239	

Sum of the SAR for WCDMA B5 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	WCDMA B5	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.160	0.530	0.204		0.894	
	0.160	0.530		0.079	0.769	
Edge3	0.080	0.001	0.002		0.083	
	0.080	0.001		0.002	0.083	
Edge4	0.647	0.023	0.000		0.670	
	0.647	0.023		0.004	0.674	
Edge4 Reduction	0.879	0.023	0.000		0.902	
	0.879	0.023		0.004	0.906	
Rear	0.646	0.244	0.585		1.475	
	0.646	0.244		0.244	1.134	
Rear Reduction	0.276	0.244	0.585		1.105	
	0.276	0.244		0.244	0.764	
Rear tilt (Edge 4 side)	0.872	0.098	0.021		0.991	
	0.872	0.098		0.002	0.972	
Rear tilt (Edge 4 side) Reduction	0.402	0.098	0.021		0.521	
	0.402	0.098		0.002	0.502	
Rear tilt (Edge 1 side)	0.849	0.336	0.729		1.914	See next Section
	0.849	0.336		0.266	1.451	

Sum of the SAR for LTE B2 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B2	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.295	0.530	0.204		1.029	
	0.295	0.530		0.079	0.904	
Edge3	0.309	0.001	0.002		0.312	
	0.309	0.001		0.002	0.312	
Edge4	0.612	0.023	0.000		0.635	
	0.612	0.023		0.004	0.639	
Edge4 Reduction	0.910	0.023	0.000		0.933	
	0.910	0.023		0.004	0.937	
Rear	0.436	0.244	0.585		1.265	
	0.436	0.244		0.244	0.924	
Rear Reduction	0.349	0.244	0.585		1.178	
	0.349	0.244		0.244	0.837	
Rear tilt (Edge 4 side)	0.657	0.098	0.021		0.776	
	0.657	0.098		0.002	0.757	
Rear tilt (Edge 4 side) Reduction	0.578	0.098	0.021		0.697	
	0.578	0.098		0.002	0.678	
Rear tilt (Edge 1 side)	0.813	0.336	0.729		1.878	See next Section
	0.813	0.336		0.266	1.415	

Sum of the SAR for LTE B4 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B4	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.158	0.530	0.204		0.892	
	0.158	0.530		0.079	0.767	
Edge3	0.121	0.001	0.002		0.124	
	0.121	0.001		0.002	0.124	
Edge4	1.040	0.023	0.000		1.063	
	1.040	0.023		0.004	1.067	
Edge4 Reduction	0.925	0.023	0.000		0.948	
	0.925	0.023		0.004	0.952	
Rear	0.677	0.244	0.585		1.506	
	0.677	0.244		0.244	1.165	
Rear Reduction	0.460	0.244	0.585		1.289	
	0.460	0.244		0.244	0.948	
Rear tilt (Edge 4 side)	1.103	0.098	0.021		1.222	
	1.103	0.098		0.002	1.203	
Rear tilt (Edge 4 side) Reduction	0.867	0.098	0.021		0.986	
	0.867	0.098		0.002	0.967	
Rear tilt (Edge 1 side)	0.957	0.336	0.729		2.022	See next Section
	0.957	0.336		0.266	1.559	

Sum of the SAR for LTE B5 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B5	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.170	0.530	0.204		0.904	
	0.170	0.530		0.079	0.779	
Edge3	0.095	0.001	0.002		0.098	
	0.095	0.001		0.002	0.098	
Edge4	0.546	0.023	0.000		0.569	
	0.546	0.023		0.004	0.573	
Edge4 Reduction	0.883	0.023	0.000		0.906	
	0.883	0.023		0.004	0.910	
Rear	0.603	0.244	0.585		1.432	
	0.603	0.244		0.244	1.091	
Rear Reduction	0.312	0.244	0.585		1.141	
	0.312	0.244		0.244	0.800	
Rear tilt (Edge 4 side)	0.831	0.098	0.021		0.950	
	0.831	0.098		0.002	0.931	
Rear tilt (Edge 4 side) Reduction	0.447	0.098	0.021		0.566	
	0.447	0.098		0.002	0.547	
Rear tilt (Edge 1 side)	0.859	0.336	0.729		1.924	See next Section
	0.859	0.336		0.266	1.461	

Sum of the SAR for LTE B7 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B7	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.274	0.530	0.204		1.008	
	0.274	0.530		0.079	0.883	
Edge3	0.140	0.001	0.002		0.143	
	0.140	0.001		0.002	0.143	
Edge4	0.678	0.023	0.000		0.701	
	0.678	0.023		0.004	0.705	
Edge4 Reduction	0.958	0.023	0.000		0.981	
	0.958	0.023		0.004	0.985	
Rear	0.713	0.244	0.585		1.542	
	0.713	0.244		0.244	1.201	
Rear Reduction	0.432	0.244	0.585		1.261	
	0.432	0.244		0.244	0.920	
Rear tilt (Edge 4 side)	0.951	0.098	0.021		1.070	
	0.951	0.098		0.002	1.051	
Rear tilt (Edge 4 side) Reduction	0.597	0.098	0.021		0.716	
	0.597	0.098		0.002	0.697	
Rear tilt (Edge 1 side)	1.077	0.336	0.729		2.142	See next Section
	1.077	0.336		0.266	1.679	See next Section

Sum of the SAR for LTE B12 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B12	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.226	0.530	0.204		0.960	
	0.226	0.530		0.079	0.835	
Edge3	0.027	0.001	0.002		0.030	
	0.027	0.001		0.002	0.030	
Edge4	0.124	0.023	0.000		0.147	
	0.124	0.023		0.004	0.151	
Edge4 Reduction	1.026	0.023	0.000		1.049	
	1.026	0.023		0.004	1.053	
Rear	0.316	0.244	0.585		1.145	
	0.316	0.244		0.244	0.804	
Rear Reduction	0.265	0.244	0.585		1.094	
	0.265	0.244		0.244	0.753	
Rear tilt (Edge 4 side)	0.417	0.098	0.021		0.536	
	0.417	0.098		0.002	0.517	
Rear tilt (Edge 4 side) Reduction	0.453	0.098	0.021		0.572	
	0.453	0.098		0.002	0.553	
Rear tilt (Edge 1 side)	0.437	0.336	0.729		1.502	
	0.437	0.336		0.266	1.039	

Sum of the SAR for LTE B13 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B13	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.261	0.530	0.204		0.995	
	0.261	0.530		0.079	0.870	
Edge3	0.051	0.001	0.002		0.054	
	0.051	0.001		0.002	0.054	
Edge4	0.261	0.023	0.000		0.284	
	0.261	0.023		0.004	0.288	
Edge4 Reduction	0.958	0.023	0.000		0.981	
	0.958	0.023		0.004	0.985	
Rear	0.487	0.244	0.585		1.316	
	0.487	0.244		0.244	0.975	
Rear Reduction	0.331	0.244	0.585		1.160	
	0.331	0.244		0.244	0.819	
Rear tilt (Edge 4 side)	0.662	0.098	0.021		0.781	
	0.662	0.098		0.002	0.762	
Rear tilt (Edge 4 side) Reduction	0.508	0.098	0.021		0.627	
	0.508	0.098		0.002	0.608	
Rear tilt (Edge 1 side)	0.662	0.336	0.729		1.727	See next Section
	0.662	0.336		0.266	1.264	

Sum of the SAR for LTE B14 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B14	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.250	0.530	0.204		0.984	
	0.250	0.530		0.079	0.859	
Edge3	0.052	0.001	0.002		0.055	
	0.052	0.001		0.002	0.055	
Edge4	0.272	0.023	0.000		0.295	
	0.272	0.023		0.004	0.299	
Edge4 Reduction	0.932	0.023	0.000		0.955	
	0.932	0.023		0.004	0.959	
Rear	0.568	0.244	0.585		1.397	
	0.568	0.244		0.244	1.056	
Rear Reduction	0.363	0.244	0.585		1.192	
	0.363	0.244		0.244	0.851	
Rear tilt (Edge 4 side)	0.756	0.098	0.021		0.875	
	0.756	0.098		0.002	0.856	
Rear tilt (Edge 4 side) Reduction	0.529	0.098	0.021		0.648	
	0.529	0.098		0.002	0.629	
Rear tilt (Edge 1 side)	0.786	0.336	0.729		1.851	See next Section
	0.786	0.336		0.266	1.388	

Sum of the SAR for LTE B17 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B17	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.185	0.530	0.204		0.919	
	0.185	0.530		0.079	0.794	
Edge3	0.019	0.001	0.002		0.022	
	0.019	0.001		0.002	0.022	
Edge4	0.130	0.023	0.000		0.153	
	0.130	0.023		0.004	0.157	
Edge4 Reduction	0.821	0.023	0.000		0.844	
	0.821	0.023		0.004	0.848	
Rear	0.326	0.244	0.585		1.155	
	0.326	0.244		0.244	0.814	
Rear Reduction	0.243	0.244	0.585		1.072	
	0.243	0.244		0.244	0.731	
Rear tilt (Edge 4 side)	0.409	0.098	0.021		0.528	
	0.409	0.098		0.002	0.509	
Rear tilt (Edge 4 side) Reduction	0.405	0.098	0.021		0.524	
	0.405	0.098		0.002	0.505	
Rear tilt (Edge 1 side)	0.427	0.336	0.729		1.492	
	0.427	0.336		0.266	1.029	

Sum of the SAR for LTE B25 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B25	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.293	0.530	0.204		1.027	
	0.293	0.530		0.079	0.902	
Edge3	0.305	0.001	0.002		0.308	
	0.305	0.001		0.002	0.308	
Edge4	0.604	0.023	0.000		0.627	
	0.604	0.023		0.004	0.631	
Edge4 Reduction	0.891	0.023	0.000		0.914	
	0.891	0.023		0.004	0.918	
Rear	0.556	0.244	0.585		1.385	
	0.556	0.244		0.244	1.044	
Rear Reduction	0.342	0.244	0.585		1.171	
	0.342	0.244		0.244	0.830	
Rear tilt (Edge 4 side)	0.652	0.098	0.021		0.771	
	0.652	0.098		0.002	0.752	
Rear tilt (Edge 4 side) Reduction	0.604	0.098	0.021		0.723	
	0.604	0.098		0.002	0.704	
Rear tilt (Edge 1 side)	0.787	0.336	0.729		1.852	See next Section
	0.787	0.336		0.266	1.389	

Sum of the SAR for LTE B26 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B26	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.172	0.530	0.204		0.906	
	0.172	0.530		0.079	0.781	
Edge3	0.076	0.001	0.002		0.079	
	0.076	0.001		0.002	0.079	
Edge4	0.509	0.023	0.000		0.532	
	0.509	0.023		0.004	0.536	
Edge4 Reduction	0.862	0.023	0.000		0.885	
	0.862	0.023		0.004	0.889	
Rear	0.616	0.244	0.585		1.445	
	0.616	0.244		0.244	1.104	
Rear Reduction	0.326	0.244	0.585		1.155	
	0.326	0.244		0.244	0.814	
Rear tilt (Edge 4 side)	0.865	0.098	0.021		0.984	
	0.865	0.098		0.002	0.965	
Rear tilt (Edge 4 side) Reduction	0.461	0.098	0.021		0.580	
	0.461	0.098		0.002	0.561	
Rear tilt (Edge 1 side)	0.852	0.336	0.729		1.917	See next Section
	0.852	0.336		0.266	1.454	

Sum of the SAR for LTE B38 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B38	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.082	0.530	0.204		0.816	
	0.082	0.530		0.079	0.691	
Edge3	0.107	0.001	0.002		0.110	
	0.107	0.001		0.002	0.110	
Edge4	0.600	0.023	0.000		0.623	
	0.600	0.023		0.004	0.627	
Edge4 Reduction	0.944	0.023	0.000		0.967	
	0.944	0.023		0.004	0.971	
Rear	0.459	0.244	0.585		1.288	
	0.459	0.244		0.244	0.947	
Rear Reduction	0.396	0.244	0.585		1.225	
	0.396	0.244		0.244	0.884	
Rear tilt (Edge 4 side)	0.602	0.098	0.021		0.721	
	0.602	0.098		0.002	0.702	
Rear tilt (Edge 4 side) Reduction	0.561	0.098	0.021		0.680	
	0.561	0.098		0.002	0.661	
Rear tilt (Edge 1 side)	0.582	0.336	0.729		1.647	See next Section
	0.582	0.336		0.266	1.184	

Sum of the SAR for LTE B41 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B41	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.110	0.530	0.204		0.844	
	0.110	0.530		0.079	0.719	
Edge3	0.092	0.001	0.002		0.095	
	0.092	0.001		0.002	0.095	
Edge4	0.572	0.023	0.000		0.595	
	0.572	0.023		0.004	0.599	
Edge4 Reduction	1.173	0.023	0.000		1.196	
	1.173	0.023		0.004	1.200	
Rear	0.460	0.244	0.585		1.289	
	0.460	0.244		0.244	0.948	
Rear Reduction	0.531	0.244	0.585		1.360	
	0.531	0.244		0.244	1.019	
Rear tilt (Edge 4 side)	0.588	0.098	0.021		0.707	
	0.588	0.098		0.002	0.688	
Rear tilt (Edge 4 side) Reduction	0.702	0.098	0.021		0.821	
	0.702	0.098		0.002	0.802	
Rear tilt (Edge 1 side)	0.612	0.336	0.729		1.677	See next Section
	0.612	0.336		0.266	1.214	

Sum of the SAR for LTE B48 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B48	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.002	0.530	0.204		0.736	
	0.002	0.530		0.079	0.611	
Edge3	0.035	0.001	0.002		0.038	
	0.035	0.001		0.002	0.038	
Edge4	0.054	0.023	0.000		0.077	
	0.054	0.023		0.004	0.081	
Edge4 Reduction	0.672	0.023	0.000		0.695	
	0.672	0.023		0.004	0.699	
Rear	0.021	0.244	0.585		0.850	
	0.021	0.244		0.244	0.509	
Rear Reduction	0.057	0.244	0.585		0.886	
	0.057	0.244		0.244	0.545	
Rear tilt (Edge 4 side)	0.044	0.098	0.021		0.163	
	0.044	0.098		0.002	0.144	
Rear tilt (Edge 4 side) Reduction	0.125	0.098	0.021		0.244	
	0.125	0.098		0.002	0.225	
Rear tilt (Edge 1 side)	0.026	0.336	0.729		1.091	
	0.026	0.336		0.266	0.628	

Sum of the SAR for LTE B66 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B66	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.211	0.530	0.204		0.945	
	0.211	0.530		0.079	0.820	
Edge3	0.137	0.001	0.002		0.140	
	0.137	0.001		0.002	0.140	
Edge4	1.137	0.023	0.000		1.160	
	1.137	0.023		0.004	1.164	
Edge4 Reduction	0.947	0.023	0.000		0.970	
	0.947	0.023		0.004	0.974	
Rear	0.678	0.244	0.585		1.507	
	0.678	0.244		0.244	1.166	
Rear Reduction	0.463	0.244	0.585		1.292	
	0.463	0.244		0.244	0.951	
Rear tilt (Edge 4 side)	1.190	0.098	0.021		1.309	
	1.190	0.098		0.002	1.290	
Rear tilt (Edge 4 side) Reduction	0.863	0.098	0.021		0.982	
	0.863	0.098		0.002	0.963	
Rear tilt (Edge 1 side)	0.962	0.336	0.729		2.027	See next Section
	0.962	0.336		0.266	1.564	

Sum of the SAR for LTE B71 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	LTE B71	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.247	0.530	0.204		0.981	
	0.247	0.530		0.079	0.856	
Edge3	0.008	0.001	0.002		0.011	
	0.008	0.001		0.002	0.011	
Edge4	0.309	0.023	0.000		0.332	
	0.309	0.023		0.004	0.336	
Edge4 Reduction	0.987	0.023	0.000		1.010	
	0.987	0.023		0.004	1.014	
Rear	0.471	0.244	0.585		1.300	
	0.471	0.244		0.244	0.959	
Rear Reduction	0.302	0.244	0.585		1.131	
	0.302	0.244		0.244	0.790	
Rear tilt (Edge 4 side)	0.721	0.098	0.021		0.840	
	0.721	0.098		0.002	0.821	
Rear tilt (Edge 4 side) Reduction	0.486	0.098	0.021		0.605	
	0.486	0.098		0.002	0.586	
Rear tilt (Edge 1 side)	0.577	0.336	0.729		1.642	See next Section
	0.577	0.336		0.266	1.179	

Sum of the SAR for NR Bn2 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn2	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.212	0.530	0.204		0.946	
	0.212	0.530		0.079	0.821	
Edge3	0.271	0.001	0.002		0.274	
	0.271	0.001		0.002	0.274	
Edge4	0.579	0.023	0.000		0.602	
	0.579	0.023		0.004	0.606	
Edge4 Reduction	0.891	0.023	0.000		0.914	
	0.891	0.023		0.004	0.918	
Rear	0.446	0.244	0.585		1.275	
	0.446	0.244		0.244	0.934	
Rear Reduction	0.354	0.244	0.585		1.183	
	0.354	0.244		0.244	0.842	
Rear tilt (Edge 4 side)	0.662	0.098	0.021		0.781	
	0.662	0.098		0.002	0.762	
Rear tilt (Edge 4 side) Reduction	0.581	0.098	0.021		0.700	
	0.581	0.098		0.002	0.681	
Rear tilt (Edge 1 side)	0.887	0.336	0.729		1.952	See next Section
	0.887	0.336		0.266	1.489	

Sum of the SAR for NR Bn5 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn5	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.189	0.530	0.204		0.923	
	0.189	0.530		0.079	0.798	
Edge3	0.041	0.001	0.002		0.044	
	0.041	0.001		0.002	0.044	
Edge4	0.412	0.023	0.000		0.435	
	0.412	0.023		0.004	0.439	
Edge4 Reduction	0.975	0.023	0.000		0.998	
	0.975	0.023		0.004	1.002	
Rear	0.557	0.244	0.585		1.386	
	0.557	0.244		0.244	1.045	
Rear Reduction	0.346	0.244	0.585		1.175	
	0.346	0.244		0.244	0.834	
Rear tilt (Edge 4 side)	1.137	0.098	0.021		1.256	
	1.137	0.098		0.002	1.237	
Rear tilt (Edge 4 side) Reduction	0.493	0.098	0.021		0.612	
	0.493	0.098		0.002	0.593	
Rear tilt (Edge 1 side)	1.084	0.336	0.729		2.149	See next Section
	1.084	0.336		0.266	1.686	See next Section

Sum of the SAR for NR Bn41 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn41	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.274	0.530	0.204		1.008	
	0.274	0.530		0.079	0.883	
Edge2	0.504	0.002	0.007		0.513	
	0.504	0.002		0.004	0.510	
Edge2 Reduction	1.129	0.002	0.007		1.138	
	1.129	0.002		0.004	1.135	
Edge3	0.074	0.001	0.002		0.077	
	0.074	0.001		0.002	0.077	
Rear	0.308	0.244	0.585		1.137	
	0.308	0.244		0.244	0.796	
Rear Reduction	0.253	0.244	0.585		1.082	
	0.253	0.244		0.244	0.741	
Rear tilt (Edge 2 side)	0.882	0.010	0.185		1.077	
	0.882	0.010		0.066	0.958	
Rear tilt (Edge 2 side) Reduction	0.660	0.010	0.185		0.855	
	0.660	0.010		0.066	0.736	
Rear tilt (Edge 1 side)	0.866	0.336	0.729		1.931	See next Section
	0.866	0.336		0.266	1.468	

Sum of the SAR for NR Bn66 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn66	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.203	0.530	0.204		0.937	
	0.203	0.530		0.079	0.812	
Edge3	0.238	0.001	0.002		0.241	
	0.238	0.001		0.002	0.241	
Edge4	1.039	0.023	0.000		1.062	
	1.039	0.023		0.004	1.066	
Edge4 Reduction	0.785	0.023	0.000		0.808	
	0.785	0.023		0.004	0.812	
Rear	1.082	0.244	0.585		1.911	See next Section
	1.082	0.244		0.244	1.570	
Rear Reduction	0.378	0.244	0.585		1.207	
	0.378	0.244		0.244	0.866	
Rear tilt (Edge 4 side)	1.141	0.098	0.021		1.260	
	1.141	0.098		0.002	1.241	
Rear tilt (Edge 4 side) Reduction	0.708	0.098	0.021		0.827	
	0.708	0.098		0.002	0.808	
Rear tilt (Edge 1 side)	0.744	0.336	0.729		1.809	See next Section
	0.744	0.336		0.266	1.346	

Sum of the SAR for NR Bn71 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

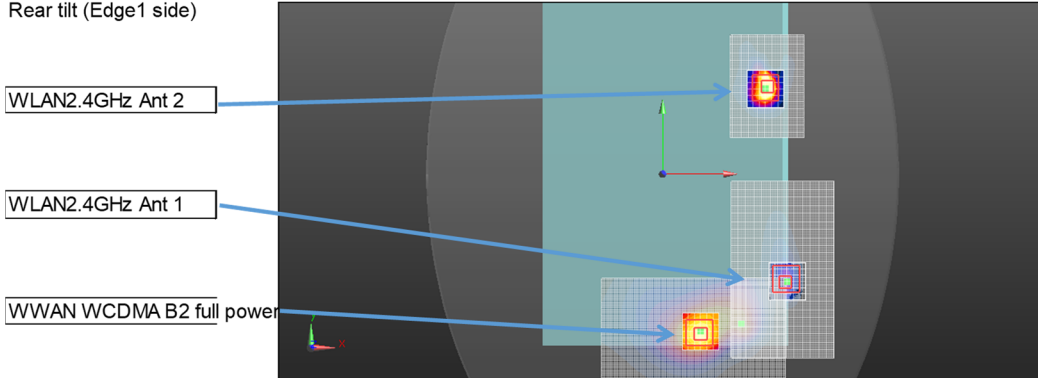
Test Position	Mode				Sum of SAR [W/kg](1g)	Remarks
	NR Bn71	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.299	0.530	0.204		1.033	
	0.299	0.530		0.079	0.908	
Edge3	0.016	0.001	0.002		0.019	
	0.016	0.001		0.002	0.019	
Edge4	0.370	0.023	0.000		0.393	
	0.370	0.023		0.004	0.397	
Edge4 Reduction	1.127	0.023	0.000		1.150	
	1.127	0.023		0.004	1.154	
Rear	0.578	0.244	0.585		1.407	
	0.578	0.244		0.244	1.066	
Rear Reduction	0.381	0.244	0.585		1.210	
	0.381	0.244		0.244	0.869	
Rear tilt (Edge 4 side)	0.639	0.098	0.021		0.758	
	0.639	0.098		0.002	0.739	
Rear tilt (Edge 4 side) Reduction	0.525	0.098	0.021		0.644	
	0.525	0.098		0.002	0.625	
Rear tilt (Edge 1 side)	0.661	0.336	0.729		1.726	See next Section
	0.661	0.336		0.266	1.263	

13 SPLSR FCC

13.1 WCDMA band 2

13.1.1 Rear tilt (Edge1 side):WWAN WCDMA B2 full power + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2

Rear tilt (Edge1 side)



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WWAN WCDMA B2 full	#1	1	32.00	-130.50	-3.54		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	79.18
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	209.19

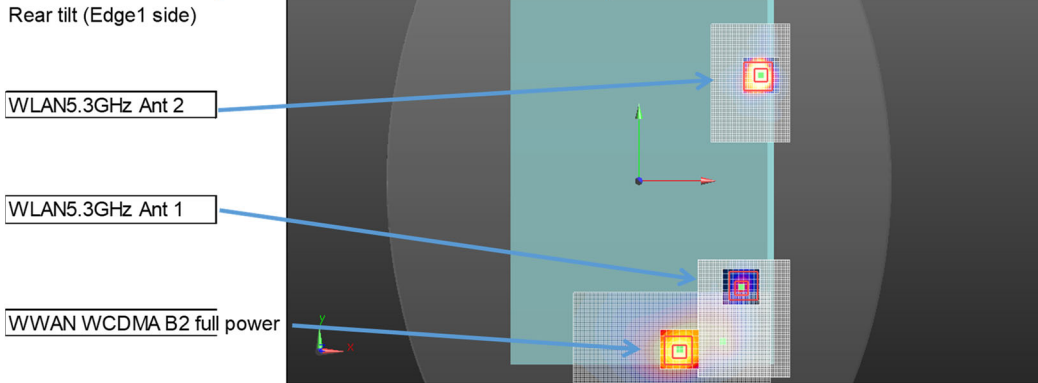
The Peak Location Separation Distance is computed by using the formula below:

$$\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$$

Test Position	No.1 WWAN #1	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (W/kg)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.924	0.240		No.1 + No.2	1.164	79.18	0.016	No
Rear tilt(Edge 1 side)	0.924		0.938	No.1 + No.3	1.862	209.19	0.012	No

13.1.2 Rear tilt (Edge1 side):WWAN WCDMA B2 full power + WLAN5.3GHz Ant 1 + WLAN5.3GHz Ant 2

Rear tilt (Edge1 side)



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WWAN WCDMA B2 full	#1	1	32.00	-130.50	-3.54		
WLAN5.3GHz	Ant 1	2	78.40	-82.20	0.95	No1+No2	67.13
WLAN5.3GHz	Ant 2	3	94.20	79.80	1.49	No1+No3	219.36

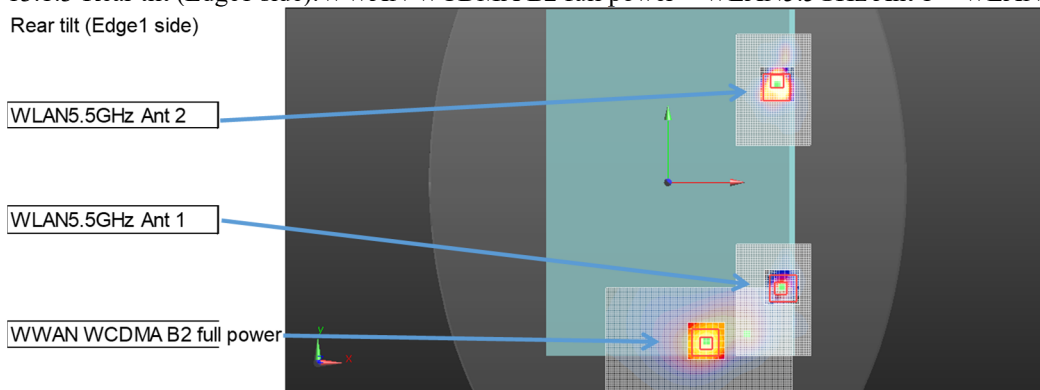
The Peak Location Separation Distance is computed by using the formula below:

$$\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$$

Test Position	No.1 WWAN #1	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (W/kg)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.924	0.238		No.1 + No.2	1.162	67.13	0.019	No
Rear tilt(Edge 1 side)	0.924		0.830	No.1 + No.3	1.754	219.36	0.011	No

13.1.3 Rear tilt (Edge1 side): WWAN WCDMA B2 full power + WLAN5.5GHz Ant 1 + WLAN5.5GHz Ant 2

Rear tilt (Edge1 side)



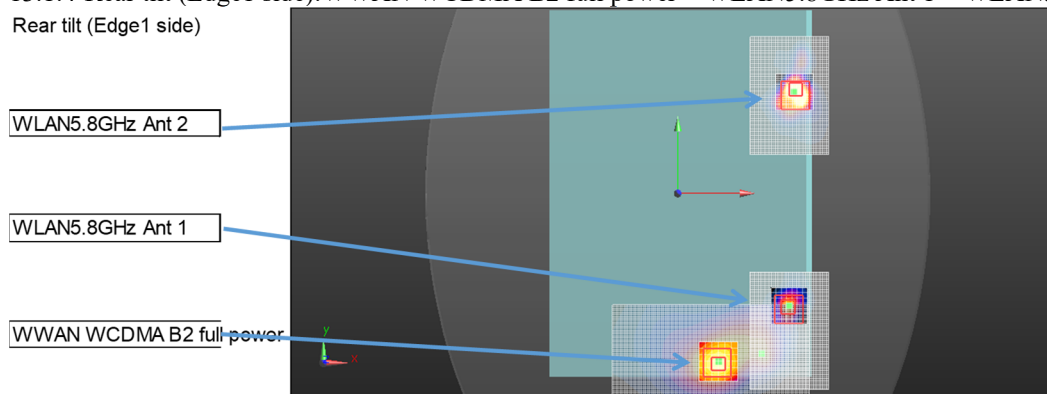
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
			mm	mm	mm		
WWAN WCDMA B2 full	#1	1	32.00	-130.50	-3.54		
WLAN5.5GHz	Ant 1	2	90.80	-86.20	1.28	No1+No2	73.78
WLAN5.5GHz	Ant 2	3	87.60	82.60	1.32	No1+No3	220.29

The Peak Location Separation Distance is computed by using the formula below:

$$\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$$

Test Position	No.1 WWAN #1	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (W/kg)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.924	0.313		No.1 + No.2	1.237	73.78	0.019	No
Rear tilt(Edge 1 side)	0.924		0.808	No.1 + No.3	1.732	220.29	0.010	No

13.1.4 Rear tilt (Edge1 side):WWAN WCDMA B2 full power + WLAN5.8GHz Ant 1 + WLAN5.8GHz Ant 2
Rear tilt (Edge1 side)



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WWAN WCDMA B2 full	#1	1	32.00	-130.50	-3.54		
WLAN5.8GHz	Ant 1	2	83.80	-85.60	1.29	No1+No2	68.72
WLAN5.8GHz	Ant 2	3	88.60	81.60	1.51	No1+No3	219.58

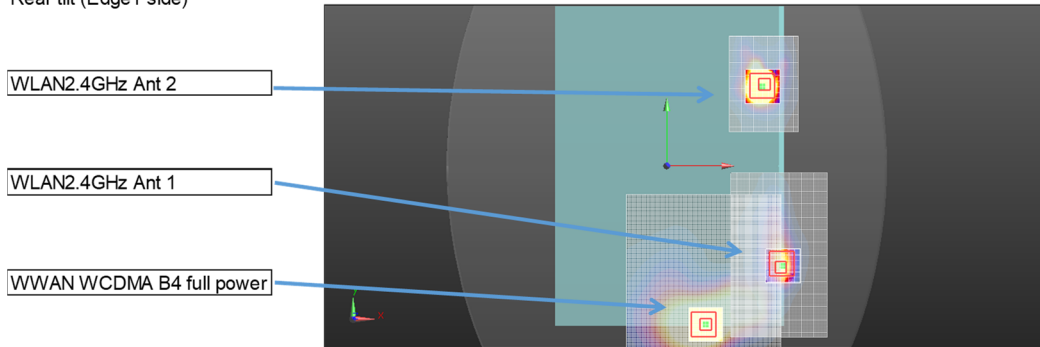
The Peak Location Separation Distance is computed by using the formula below:
 $SQRT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN #1	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (W/kg)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.924	0.336		No.1 + No.2	1.260	68.72	0.021	No
Rear tilt(Edge 1 side)	0.924		0.729	No.1 + No.3	1.653	219.58	0.010	No

13.2 WCDMA band 4

13.2.1 Rear tilt (Edge1 side):WWAN WCDMA4 full power + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2

Rear tilt (Edge1 side)



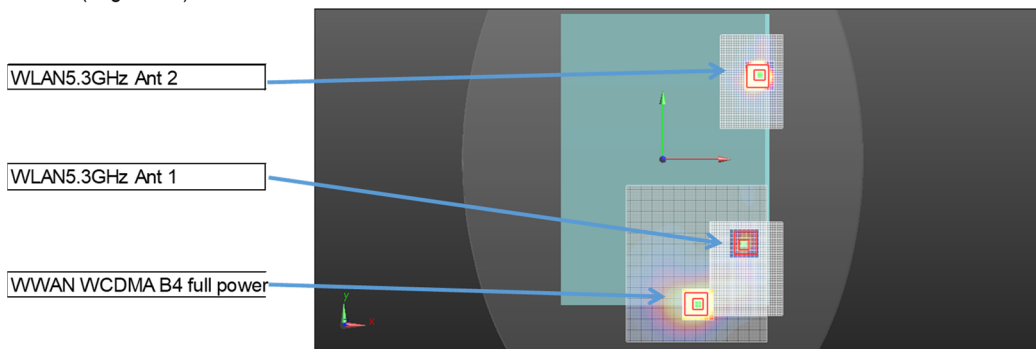
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WWAN WCDMA B4 full power	#1	1	36.00	-138.00	-3.29		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	80.07
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	215.48

The Peak Location Separation Distance is computed by using the formula below:
 $SRQT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN #1	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (W/kg)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.637	0.240		No.1 + No.2	0.877	80.07	0.010	No
Rear tilt(Edge 1 side)	0.637		0.938	No.1 + No.3	1.575	215.48	0.009	No

13.2.2 Rear tilt (Edge1 side):WWAN WCDMA B4 full power + WLAN5.3GHz Ant 1 + WLAN5.3GHz Ant 2

Rear tilt (Edge1 side)

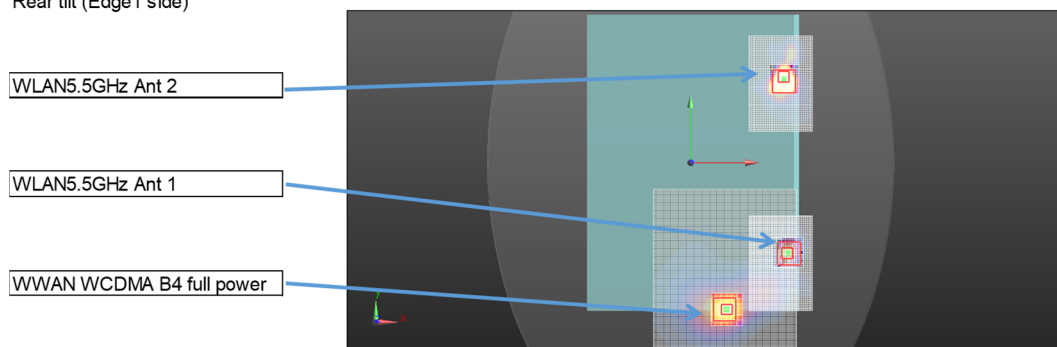


Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WWAN WCDMA B4 full power	#1	1	36.00	-138.00	-3.29		
WLAN5.3GHz	Ant 1	2	78.40	-82.20	0.95	No1+No2	70.21
WLAN5.3GHz	Ant 2	3	94.20	79.80	1.49	No1+No3	225.49

The Peak Location Separation Distance is computed by using the formula below:
 $SRQT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN #1	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (W/kg)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.637	0.238		No.1 + No.2	0.875	70.21	0.012	No
Rear tilt(Edge 1 side)	0.637		0.830	No.1 + No.3	1.467	225.49	0.008	No

13.2.3 Rear tilt (Edge1 side):WWAN WCDMA B4 full power + WLAN5.5GHz Ant 1 + WLAN5.5GHz Ant 2
Rear tilt (Edge1 side)



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WWAN WCDMA B4 full power	#1	1	36.00	-138.00	-3.29		
WLAN5.5GHz	Ant 1	2	90.80	-86.20	1.28	No1+No2	75.55
WLAN5.5GHz	Ant 2	3	87.60	82.60	1.32	No1+No3	226.60

The Peak Location Separation Distance is computed by using the formula below:
 $SQRT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN #1	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (W/kg)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.637	0.313		No.1 + No.2	0.950	75.55	0.012	No
Rear tilt(Edge 1 side)	0.637		0.808	No.1 + No.3	1.445	226.60	0.008	No