FCC SAR TEST REPORT

FCC ID	:	**MCLT77W968-D7**
Equipment	:	**LTE M.2 Module**
Brand Name	:	**FOXCOON**
Model Name	:	**T77W968**
Applicant	:	**HON HAI Precision Ind. Co., Ltd. 5F-1, 5, Hsin-An Road Hsinchu Science-Based Industrial Park**
Standard	:	**FCC 47 CFR Part 2 (2.1093) ANSI/IEEE C95.1-1992 IEEE 1528-2013**

The product was installed into Portable Computer (Brand Name DELL, Model Name: P131G) during test.

The product was received on Jan. 23, 2020 and testing was started from Feb. 28, 2020 and completed on Mar. 04, 2020. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Cona Huang

Approved by: Cona Huang / Deputy Manager

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FA9N2620-08	01	Initial issue of report	Apr. 13, 2020

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for HON HAI Precision Ind. Co., Ltd., LTE M.2 Module, T77W968, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary Body 1g SAR (W/kg)	Highest Simultaneous Transmission 1g SAR (W/kg)
Licensed	WCDMA II	0.92	1.59
	WCDMA IV	0.65	
	WCDMA V	1.13	
	LTE Band 2	0.78	
	LTE Band 7	1.14	
	LTE Band 12 / 17	0.76	
	LTE Band 13	0.23	
	LTE Band 14	1.13	
	LTE Band 25	0.71	
	LTE Band 5 / 26	1.15	
	LTE Band 30	0.79	
	LTE Band 38 / 41	0.72	
	LTE Band 4 / 66	0.83	
Date of Testing:		2020/2/28 ~ 2020/3/4	

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications

Reviewed by: Jason Wang
Report Producer: Wan Liu

2. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02

3. Equipment Under Test (EUT) Information

3.1 General Information

Product Feature & Specification	
Equipment Name	LTE M.2 Module
Brand Name	FOXCOON
Model Name	T77W968
FCC ID	MCLT77W968-D7
Wireless Technology and Frequency Range	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 14: 790.5 MHz ~ 795.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 30: 2307.5 MHz ~ 2312.5 MHz LTE Band 38 : 2572.5 MHz ~ 2617.5 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz
Mode	RMC 12.2Kbps HSDPA HSUPA DC-HSDPA LTE: QPSK, 16QAM, 64QAM
Remark: 1. The Intel 9560D2W / Intel AX201D2W WLAN/Bluetooth module is also integrated into this host, WLAN/Bluetooth power and WLAN SAR testing data, which can be referred to RF Exposure Lab SAR Test Report, Report No.: SAR.20200310 (FCC ID: PD99560D2) / SAR.20200311 (FCC ID: PD9AX201D2) and these results are used simultaneous transmission analysis. 2. This device is convertible type notebook PC, and there are two mode as usage way, one is laptop mode, another is tablet mode. 3. Three battery options for this product, the RF exposure is choose battery 1 as the main tested, other battery 2/3 found worst case from battery 1 perform. 4. This product has two antenna vendors for WWAN, three antenna vendors for WLAN, after pre-scan to found the worst case antenna is WNC for WWAN, HB for WLAN, therefore, RF exposure evaluation is select worst case antenna to be tested.	

Host Information		
Equipment Name		Portable Computer
Brand Name		DELL
Model Name		P131G
Integrated WLAN Module 1	Brand Name	Intel
	Model Name	9560D2W
	Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
	Mode	802.11a/b/g/n/ac HT20/HT40/VHT20/VHT40/VHT80/VHT160 Bluetooth BR/EDR/LE
Integrated WLAN Module 2	Brand Name	Intel
	Model Name	AX201D2W
	Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
	Mode	802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/H160 Bluetooth BR/EDR/LE
Integrated RFID Module	Brand Name	DELL
	Model Name	DWRFID1902
	Wireless Technology and Frequency Range	NFC : 13.56 MHz
	Mode	NFC:ASK
EUT Stage		Production Unit

Battery Information				
Battery 1	Brand Name	DELL	Model Name	35J09
	Power Rating	13.29 Vdc, 3255 mAh	Type	Li-ion,
Battery 2	Brand Name	DELL	Model Name	JHT2H
	Power Rating	8.8 Vdc, 6500 mAh	Type	Li-ion,
Battery 3	Brand Name	DELL	Model Name	Y7HR3
	Power Rating	13.2 Vdc, 5667 mAh	Type	Li-ion,

WWAN Antenna Information P131G_NB Mode			
Antenna Part Number	**Manufacture**	**Antenna Type**	**Peak Gain (dBi)**
F.0G.FH-6105-006-00 (DC33002EK0L) Tx1/ Rx1 Main Antenna	Speedwire	PIFA	698-821MHz-2.71dBi(peak)
			824-960MHz-2.25dBi(peak)
			1425-1515MHz--4.37dBi(peak)
			1710-2200MHz-1.62dBi(peak)
			2300-2690MHz-0.14dBi(peak)
			3400-3800MHz-2.49dBi(peak)
			5150-5925MHz-8.93dBi(peak)
F.0G.FH-6105-002-00 (DC33002EK1L) Tx2/ Rx2 Aux. Antenna	Speedwire	PIFA	716-821MHz0.79dBi(peak)
			824-960MHz-1.28dBi(peak)
			1425-1515MHz-1.38dBi(peak)
			1557-1610 MHz-1.18dBi(peak)
			1805-2200MHz-0.65dBi(peak)
			2300-2690MHzz-1.89dBi(peak)
			3400-3800MHz-1.67dBi(peak)
			5150-5925MHz-0.90dBi(peak)

WWAN Antenna Information P131G_TB Mode			
Antenna Part Number	**Manufacture**	**Antenna Type**	**Peak Gain (dBi)**
F.0G.FH-6105-006-00 (DC33002EK0L) Tx1/ Rx1 Main Antenna	Speedwire	PIFA	698-821MHz-2.57dBi(peak)
			824-960MHz-3.86dBi(peak)
			1425-1515MHz-2.96dBi(peak)
			1710-2200MHz-0.74dBi(peak)
			2300-2690MHz-2.67dBi(peak)
			3400-3800MHz-0.85dBi(peak)
			5150-5925MHz-4.41dBi(peak)
F.0G.FH-6105-002-00 (DC33002EK1L) Tx2/ Rx2 Aux. Antenna	Speedwire	PIFA	716-821MHz-4.64dBi(peak)
			824-960MHz-4.41dBi(peak)
			1425-1515MHz-7.40dBi(peak)
			1557-1610 MHz-5.95dBi(peak)
			1805-2200MHz-3.13dBi(peak)
			2300-2690MHzz-4.98dBi(peak)
			3400-3800MHz-3.45dBi(peak)
			5150-5925MHz-3.24dBi(peak)

WWAN Antenna Information P131G_NB Mode			
Antenna Part Number	**Manufacture**	**Antenna Type**	**Peak Gain (dBi)**
(P/N: 81ELAS15.G54 / DC33002EO0L) Tx1/ Rx1 Main Antenna	Wistron NeWeb Corporation	PIFA	698-821MHz-0.95dBi(peak)
			824-960MHz-0.88dBi(peak)
			1425-1515MHz-1.52dBi(peak)
			1710-2200MHz0.55dBi(peak)
			2300-2690MHz0.92dBi(peak)
			3400-3800MHz-0.07dBi(peak)
			5150-5925MHz-7.11dBi(peak)
(P/N: 81ELAS15.G12 / DC33002EO1L) Tx2/ Rx2 Aux. Antenna	Wistron NeWeb Corporation	PIFA	716-821MHz1.87dBi(peak)
			824-960MHz-0.04dBi(peak)
			1425-1515MHz0.70dBi(peak)
			1557-1610 MHz0.23dBi(peak)
			1805-2200MHz0.33dBi(peak)
			2300-2690MHzz-0.42dBi(peak)
			3400-3800MHz0.27dBi(peak)
			5150-5925MHz1.06dBi(peak)

WWAN Antenna Information P131G_TB Mode			
Antenna Part Number	**Manufacture**	**Antenna Type**	**Peak Gain (dBi)**
(P/N: 81ELAS15.G54 / DC33002EO0L) Tx1/ Rx1 Main Antenna	Wistron NeWeb Corporation	PIFA	698-821MHz-1.78dBi(peak)
			824-960MHz-2.85dBi(peak)
			1425-1515MHz-2.67dBi(peak)
			1710-2200MHz0.37dBi(peak)
			2300-2690MHz-2.13dBi(peak)
			3400-3800MHz0.09dBi(peak)
			5150-5925MHz-4.04dBi (peak)
(P/N: 81ELAS15.G12 / DC33002EO1L) Tx1/ Rx1 Aux. Antenna	Wistron NeWeb Corporation	PIFA	716-821MHz-3.85dBi(peak)
			824-960MHz-3.37dBi(peak)
			1425-1515MHz-4.92dBi(peak)
			1557-1610 MHz-4.38dBi(peak)
			1805-2200MHz-1.45dBi(peak)
			2300-2690MHzz-3.82dBi(peak)
			3400-3800MHz-1.85dBi(peak)
			5150-5925MHz-2.15dBi(peak)

WLAN Antenna Information P131G									
1 HB WLAN on base_AL	Ant. Type	PIFA	connector		2 HB WLAN on base_CF	Ant. Type	PIFA	connector	
	Model No.	Main:260-24300(DC33002EF0L) Aux:260-24300(DC33002EF0L)				Model No.	Main:260-24300(DC33002EF0L) Aux:260-24300(DC33002EF0L)		
	Peak Gain					Peak Gain			
	2400~2483.5MHz	Main:-3.6 Aux:-5.83	5470~5725MHz	Main:-0.32 Aux:-2.42		2400~2483.5MHz	Main:-3.14 Aux:-5.44	5470~5725MHz	Main:0.05 Aux:-2.33
	5150~5250MHz	Main:-0.12 Aux:-0.77	5725~5850MHz	Main:0.26 Aux:-3.17		5150~5250MHz	Main:0.12 Aux:-0.68	5725~5850MHz	Main:0.05 Aux:-3.1
	5250~5350MHz	Main:-2.53 Aux:-0.41				5250~5350MHz	Main:-2.29 Aux:-0.16		
3 Speedwire WLAN on base_AL	Ant. Type	PIFA	connector		4 Speedwire WLAN on base_CF	Ant. Type	PIFA	connector	
	Model No.	Main:F.0G.FH-6107-001-00(DC33002EK2L) Aux:F.0G.FH-6107-001-00(DC33002EK2L)				Model No.	Main:F.0G.FH-6107-001-00(DC33002EK2L) Aux:F.0G.FH-6107-001-00(DC33002EK2L)		
	Peak Gain					Peak Gain			
	2400~2483.5MHz	open mode Main:-1.72 Aux:1.72 Tablet mode Main:-3.03 Aux:-2.65	5470~5725MHz	open mode Main:-0.75 Aux:-0.32 Tablet mode Main:0.4 Aux:-3.39		2400~2483.5MHz	open mode Main:1.82 Aux:-1.1 Tablet mode Main:-2.08 Aux:-3.35	5470~5725MHz	open mode Main:-0.78 Aux:-0.46 Tablet mode Main:-1.2 Aux:-1.72
	5150~5250MHz	open mode Main:-2.31 Aux:0.54 Tablet mode Main:-0.7 Aux:-2.03	5725~5850MHz	open mode Main:-1.45 Aux:-0.32 Tablet mode Main:-1.11 Aux:-2.23		5150~5250MHz	open mode Main:-1.22 Aux:-0.59 Tablet mode Main:-1.87 Aux:-2.57	5725~5850MHz	open mode Main:-1.21 Aux:-0.24 Tablet mode Main:-1.2 Aux:-2.79
	5250~5350MHz	open mode Main:-0.12 Aux:-0.2 Tablet mode Main:-0.7 Aux:-2.58				5250~5350MHz	open mode Main:0.67 Aux:-0.78 Tablet mode Main:-1.87 Aux:-1.34		
6 WNC WLAN on base_AL	Ant. Type	PIFA	connector		7 WNC WLAN on base_CF	Ant. Type	PIFA	connector	
	Model No.	Main:81ELAS15.G09(DC33002EO2L) Aux:81ELAS15.G09(DC33002EO2L)				Model No.	Main:81ELAS15.G09(DC33002EO2L) Aux:81ELAS15.G09(DC33002EO2L)		
	Peak Gain					Peak Gain			
	2400~2483.5MHz	open mode Main:0.36 Aux:-0.83 Tablet mode Main:-1.65 Aux:-2.45	5470~5725MHz	open mode Main:0.09 Aux:-0.8 Tablet mode Main:-0.08 Aux:-0.71		2400~2483.5MHz	open mode Main:-1.02 Aux:0.57 Tablet mode Main:-1.03 Aux:-5.35	5470~5725MHz	open mode Main:-0.03 Aux:-0.02 Tablet mode Main:-3.45 Aux:-2.67
	5150~5250MHz	open mode Main:-0.25 Aux:-1.26 Tablet mode Main:-0.88 Aux:-2.62	5725~5850MHz	open mode Main:-0.47 Aux:-0.99 Tablet mode Main:0.22 Aux:-2.15		5150~5250MHz	open mode Main:-1.7 Aux:-2.77 Tablet mode Main:-3.51 Aux:-5.42	5725~5850MHz	open mode Main:-0.43 Aux:-2.08 Tablet mode Main:-2.64 Aux:-2.1
	5250~5350MHz	open mode Main:0.76 Aux:-1.43 Tablet mode Main:0.57 Aux:-1.65				5250~5350MHz	open mode Main:-1.79 Aux:-3.69 Tablet mode Main:-3.49 Aux:-4.74		

3.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05	
FCC ID	MCLT77W968-D7
Equipment Name	LTE M.2 Module
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 14: 790.5 MHz ~ 795.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 30: 2307.5 MHz ~ 2312.5 MHz LTE Band 38 : 2572.5 MHz ~ 2617.5 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz
Channel Bandwidth	LTE Band 02:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 04:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 05:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 07: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 14: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 30: 5MHz, 10MHz LTE Band 38, Bandwidth: 5 M/10 M/15 M/20 M LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
uplink modulations used	QPSK / 16QAM / 64QAM
LTE Voice / Data requirements	Data only
LTE MPR permanently built-in by design	**Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3**
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.
Power reduction applied to satisfy SAR compliance	Yes, Proximity Sensor.
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power measurement please referred to section 12.
LTE Carrier Aggregation Additional Information	This device supports maximum of 5 carriers in the downlink. Additional following LTE Release features are not supported: Relay, HetNet, Enhanced MIMO, eICI, WiFi Offloading, MDH, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA.

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

Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 2												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900
LTE Band 4												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745
LTE Band 5								
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844
LTE Band 7								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560
LTE Band 12								
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711
LTE Band 13				
	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)
L	23205	779.5	23230	782
M	23230	782		
H	23255	784.5		
LTE Band 14				
	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Channel #	Channel #	Freq.(MHz)
L	23305	790.5	23330	793
M	23330	793		
H	23355	795.5		
LTE Band 17				
	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Freq.(MHz)	Channel #	Freq. (MHz)
L	23755	706.5	23780	709
M	23790	710	23790	710
H	23825	713.5	23800	711

LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905

LTE Band 26										
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5

LTE Band 30				
	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)
L	27685	2307.5	27710	2310
M	27710	2310		
H	27735	2312.5		

LTE Band 38								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580
M	38000	2595	38000	2595	38000	2595	38000	2595
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610

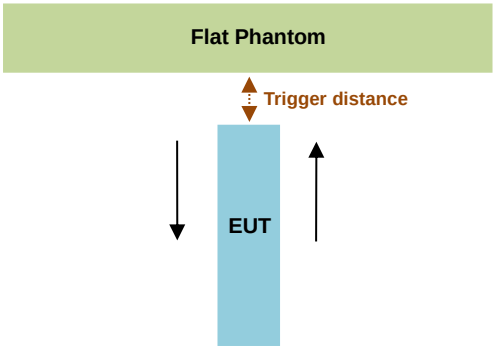
LTE Band 41								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506
L M	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5
M	40620	2593	40620	2593	40620	2593	40620	2593
H M	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680

LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770

4. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance (KDB 616217 D04 section 6.2)>:

For the device is fully integrated, touch sensing capacitive sensor. It uses a charge transfer capacitive acquisition method that is capable of near range proximity detection. In this device offers a state of the art capacitive sensing engine with an embedded sampling capacitor and voltage regulator allowing the overall solution cost to be reduced and improving system immunity in noisy environments.
Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed. The details are illustrated as following, and the shortest triggering distances were reported and used for SAR assessment.
In the preliminary triggering distance testing, the tissue-equivalent medium for different frequency bands were used for verification; no other frequency bands tissue-equivalent medium was found to result in shortest triggering distance than that for 1900MHz, and the tissue-equivalent medium for 1900MHz was used for formal proximity sensor triggering testing.



Proximity Sensor Trigger Distance (mm) for WWAN Main ANT						
Position	Bottom Face		Edge 1		Back of Display Screen	
Minimum (mm)	Move Toward	Move Away	Move Toward	Move Away	Move Toward	Move Away
	7	9	31	35	33	39

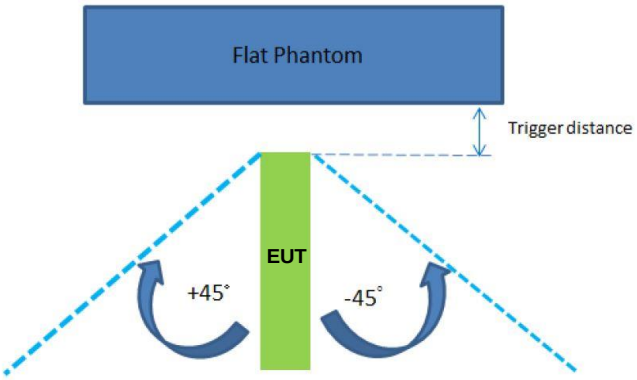
Proximity Sensor Trigger Distance (mm) for WWAN Aux ANT						
Position	Bottom Face		Edge 2		Bottom of Laptop	
Minimum (mm)	Move Toward	Move Away	Move Toward	Move Away	Move Toward	Move Away
	23	26	56	59	25	28

<Proximity Sensor Triggering Coverage (KDB 616217 D04 section 6.3)>:

Illustrated the sensor pad in the test setup photo exhibit, Since the antenna and sensor are collocated and all of the peak SAR location is overlapping with the sensor pad for this device, therefore, According to KDB 616217 section6.3, these procedures do not apply and are not required for bottom face, Back of Display Screen, Edge 1 and Edge 2 due to the antenna and sensor are collocated and the peak SAR location is overlapping with the sensor on this device.

<Tablet Tilt angle influences to proximity sensor triggering (KDB 616217 D04 section 6.4)>:

The influence of table tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at above separation distance.
Rotating the tablet around the edge next to the phantom in ≤ 10° increments until the tablet is ± 45° from the vertical position at 0°, and the maximum output power remains in the reduced mode.



The Sensor Trigger Distance (mm) for WWAN Main ANT		
Position	Edge 1	
Minimum (mm)	Move Toward	Move Away
	28	14

The Sensor Trigger Distance (mm) for WWAN Aux ANT		
Position	Edge 2	
Minimum (mm)	Move Toward	Move Away
	6	22

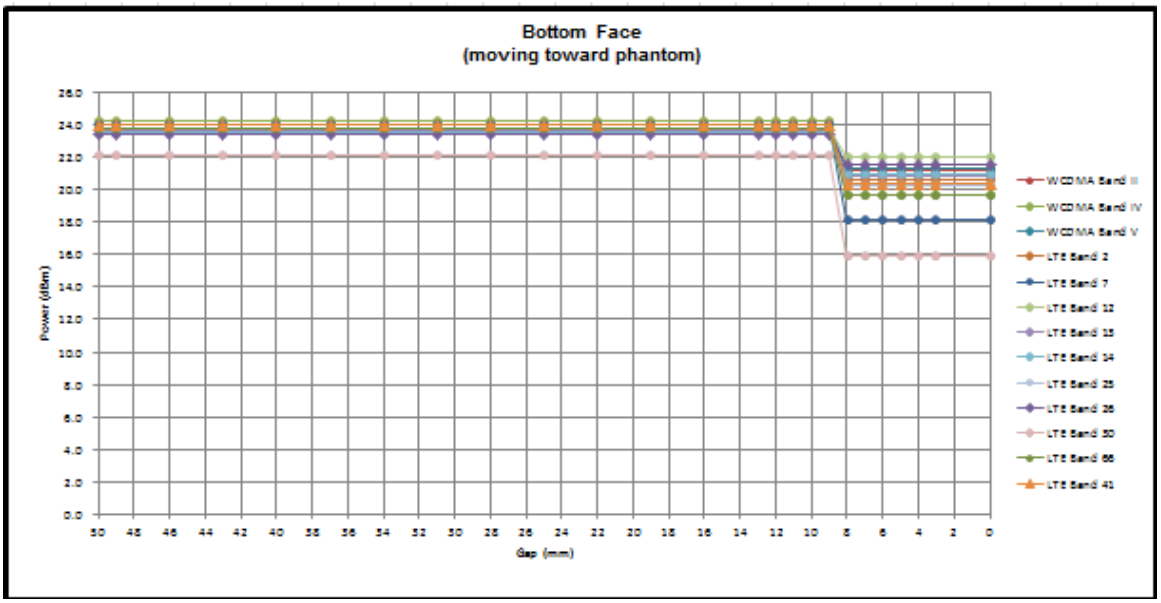
Proximity sensor power reduction

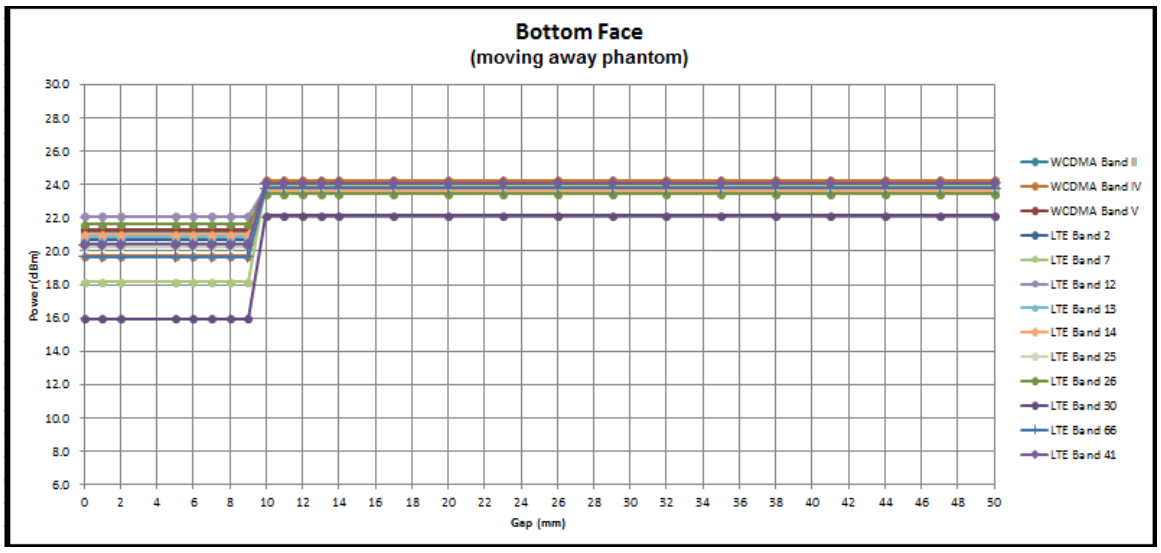
Exposure Position / wireless mode	Bottom of laptop	Bottom Face(1)	Edge 1(1)	Edge 2(1)	Edge 3	Edge 4
WCDMA Band II	0 dB	2.5dB	2.5dB	0 dB	0 dB	0 dB
WCDMA Band IV	0 dB	4.5dB	4.5dB	0 dB	0 dB	0 dB
WCDMA Band V	0 dB	1.5dB	0 dB	1.5dB	0 dB	0 dB
LTE Band 2	0 dB	2.5dB	2.5dB	0 dB	0 dB	0 dB
LTE Band 4/66	0 dB	4dB	4dB	0 dB	0 dB	0 dB
LTE Band 5/26	0 dB	1.5dB	0 dB	1.5dB	0 dB	0 dB
LTE Band 7	0 dB	5.5dB	5.5dB	5.5 dB	0 dB	0 dB
LTE Band 12/17	0 dB	1.5dB	1.5dB	0 dB	0 dB	0 dB
LTE Band 13	0 dB	1.5dB	0 dB	1.5dB	0 dB	0 dB
LTE Band 14	0 dB	1.5dB	0 dB	1.5dB	0 dB	0 dB
LTE Band 25	0 dB	3dB	3dB	0 dB	0 dB	0 dB
LTE Band 30	0 dB	6dB	6dB	0 dB	0 dB	0 dB
LTE Band 38/41	0 dB	3.5dB	3.5dB	0 dB	0 dB	0 dB

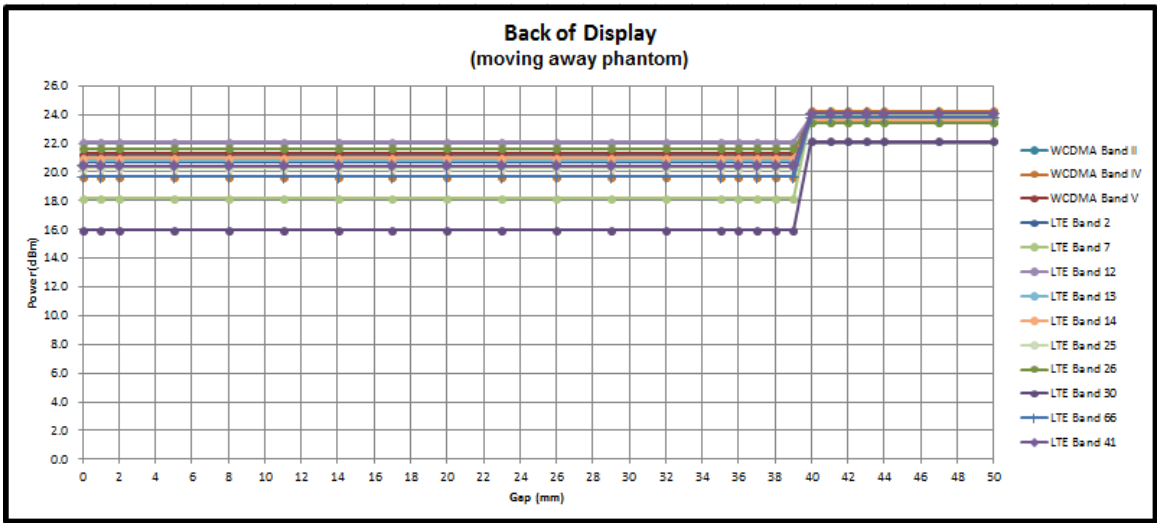
Remark:

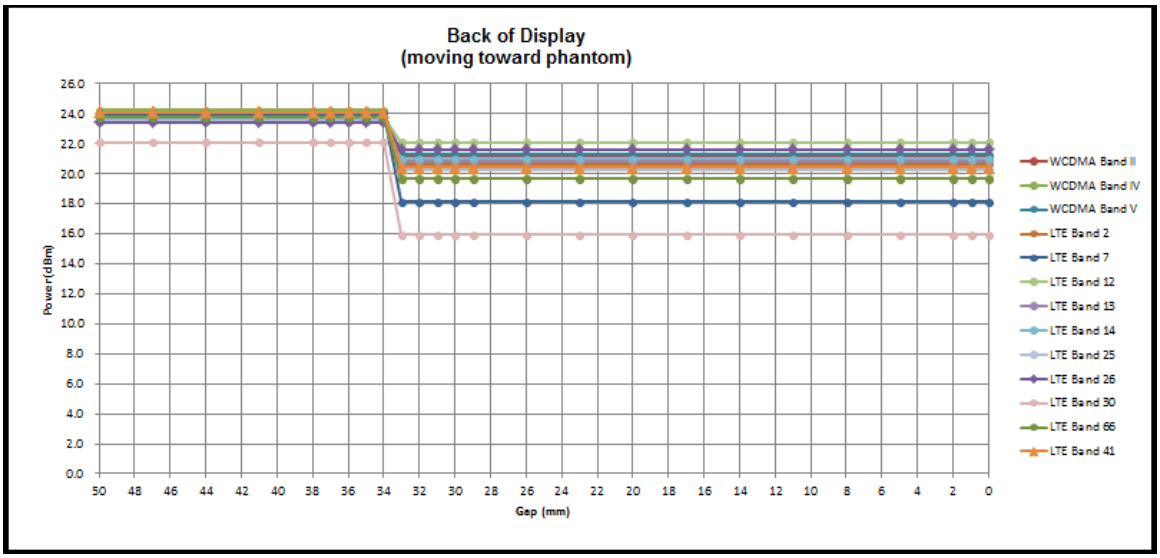
1. (1): Reduced maximum limit applied by activation of proximity sensor.
2. Power reduction is not applicable for WLAN and Bluetooth.
3. Tests were performed in accordance with KDB 616217 D04 section 6.1, 6.2, 6.3, 6.4 and 6.5 and compliant results are shown and described in exhibit
4. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance was performed:
   - Back of Display Screen: 32mm
   - Bottom of Laptop: 24mm
   - Bottom Face: 7mm & 23mm
   - Edge1: 13mm
   - Edge2: 5mm

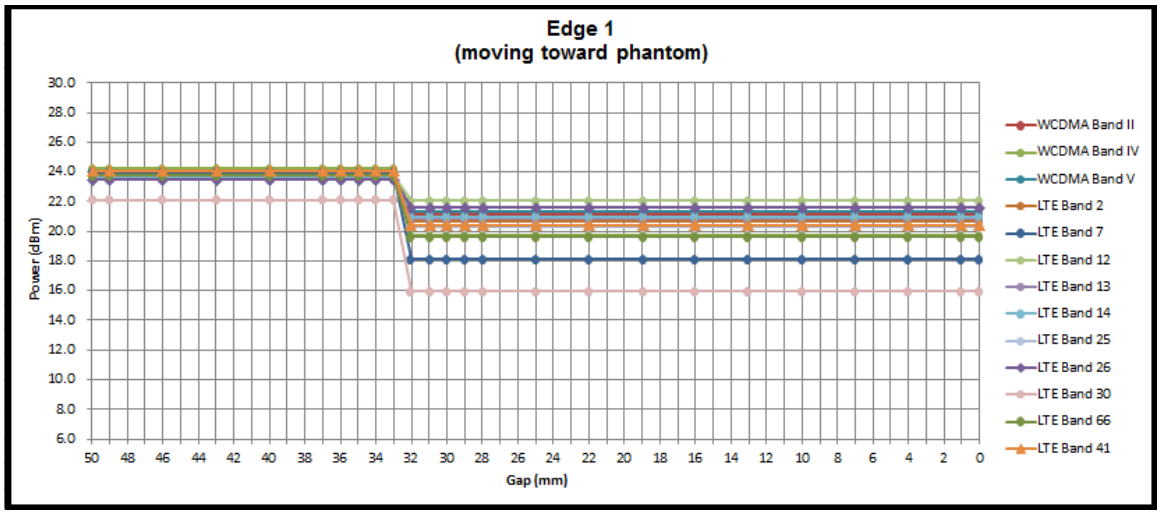
Power Measurement during Sensor Trigger distance testing for WWAN Main ANT

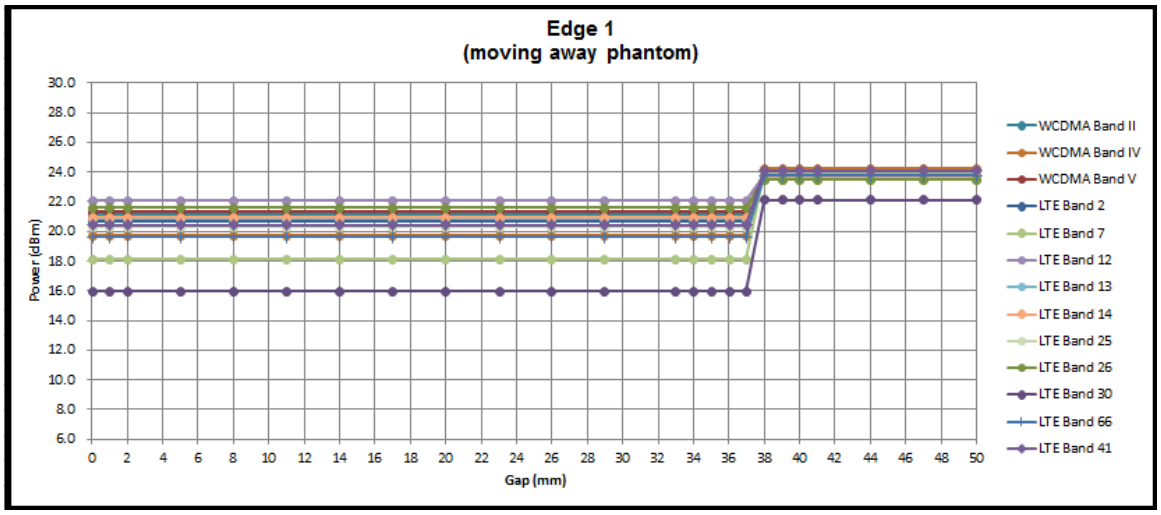




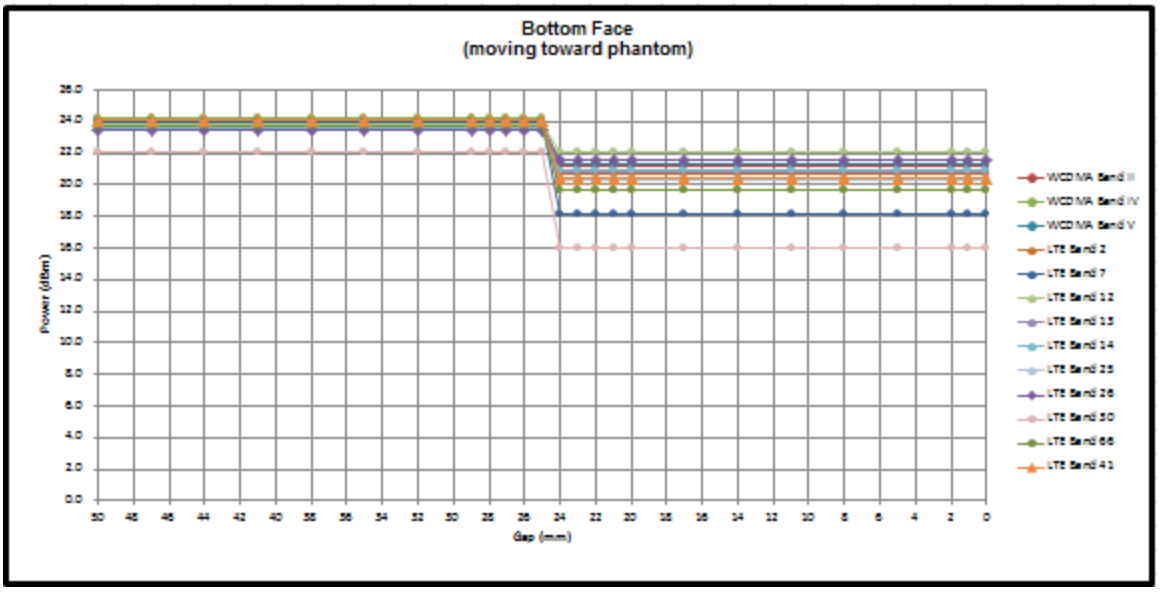

Back of Display
(moving away phantom)
Power(dBm)
Gap (mm)
WCDMA Band II
WCDMA Band IV
WCDMA Band V
LTE Band 2
LTE Band 7
LTE Band 12
LTE Band 13
LTE Band 14
LTE Band 25
LTE Band 26
LTE Band 30
LTE Band 66
LTE Band 41

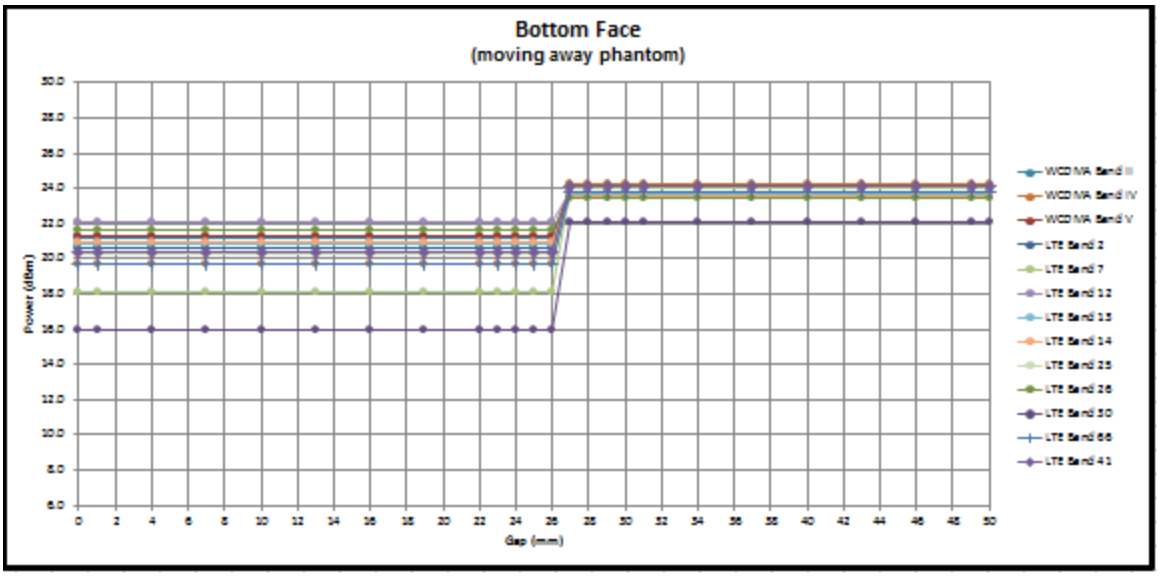

Back of Display
(moving toward phantom)
Power(dBm)
Gap (mm)
WCDMA Band II
WCDMA Band IV
WCDMA Band V
LTE Band 2
LTE Band 7
LTE Band 12
LTE Band 13
LTE Band 14
LTE Band 25
LTE Band 26
LTE Band 30
LTE Band 66
LTE Band 41

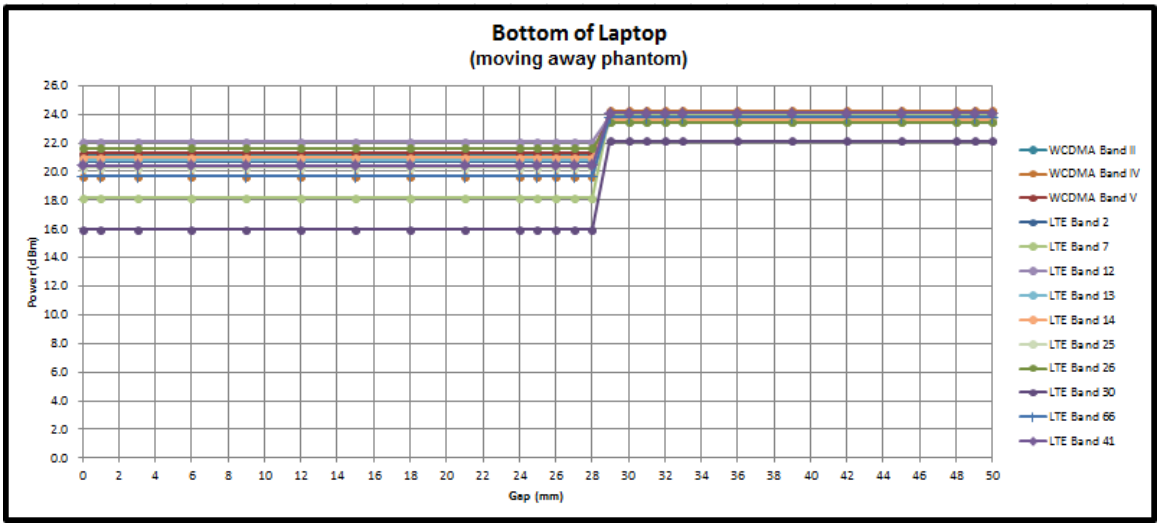

Edge 1
(moving toward phantom)
Power (dBm)
Gap (mm)
WCDMA Band II
WCDMA Band IV
WCDMA Band V
LTE Band 2
LTE Band 7
LTE Band 12
LTE Band 13
LTE Band 14
LTE Band 25
LTE Band 26
LTE Band 30
LTE Band 66
LTE Band 41

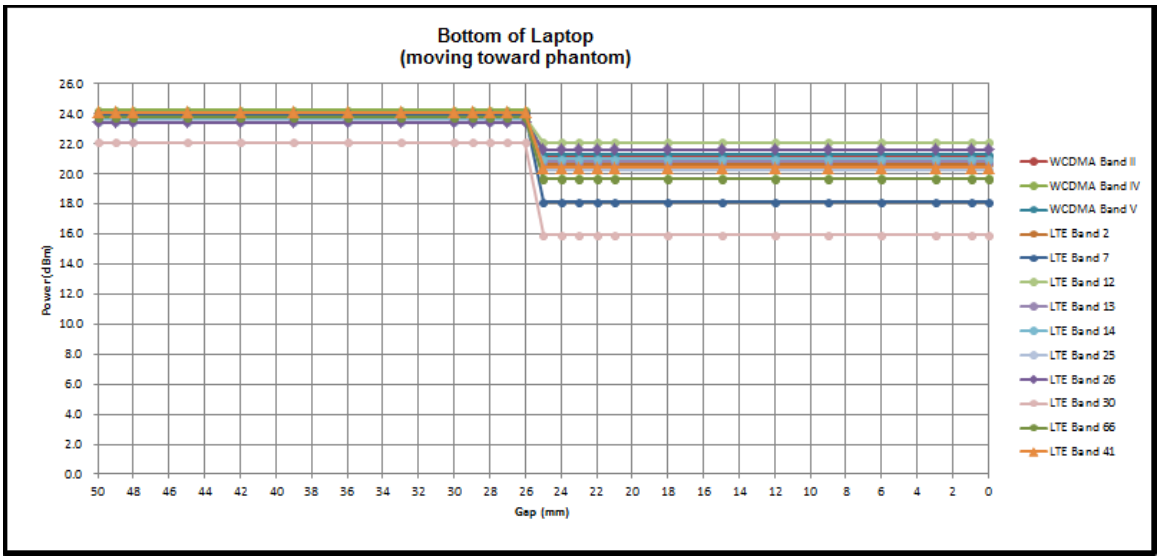

Edge 1
(moving away phantom)
Power (dBm)
Gap (mm)
WCDMA Band II
WCDMA Band IV
WCDMA Band V
LTE Band 2
LTE Band 7
LTE Band 12
LTE Band 13
LTE Band 14
LTE Band 25
LTE Band 26
LTE Band 30
LTE Band 66
LTE Band 41

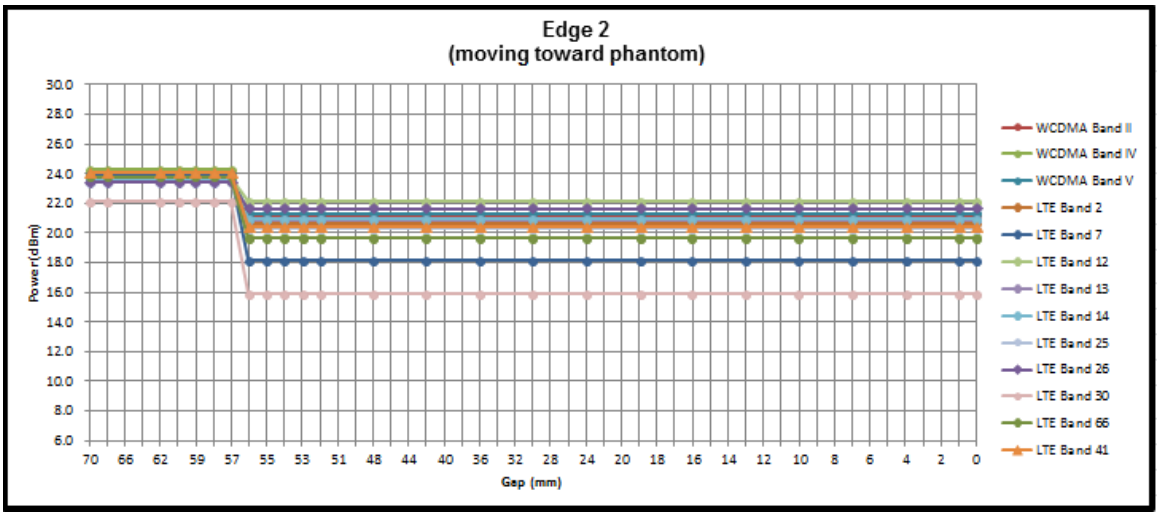
Power Measurement during Sensor Trigger distance testing for WWAN Aux ANT

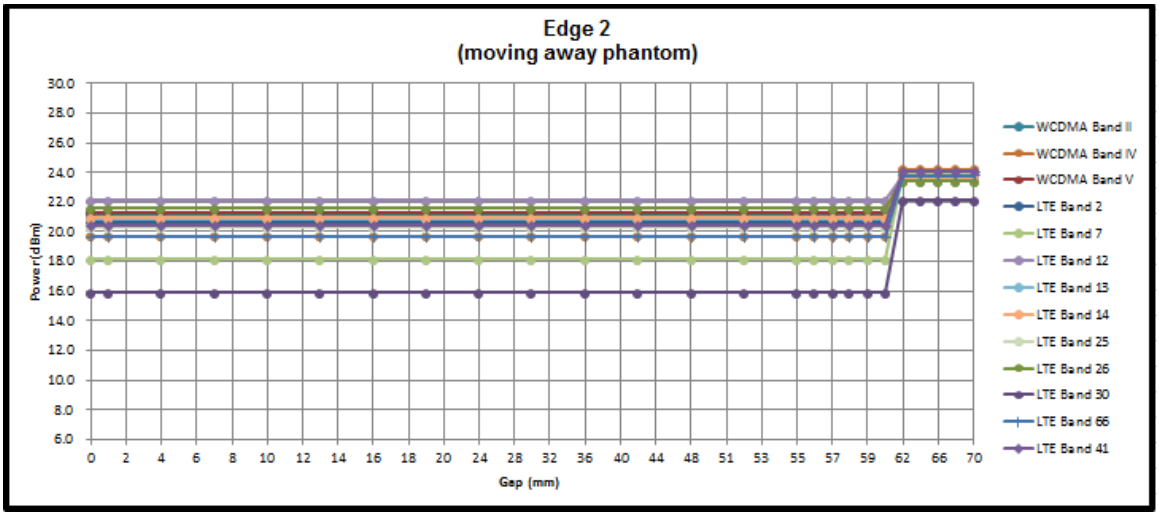





Bottom of Laptop
(moving away phantom)
Power(dBm)
Gap (mm)
WCDMA Band II
WCDMA Band IV
WCDMA Band V
LTE Band 2
LTE Band 7
LTE Band 12
LTE Band 13
LTE Band 14
LTE Band 25
LTE Band 26
LTE Band 30
LTE Band 66
LTE Band 41


Bottom of Laptop
(moving toward phantom)
Power(dBm)
Gap (mm)
WCDMA Band II
WCDMA Band IV
WCDMA Band V
LTE Band 2
LTE Band 7
LTE Band 12
LTE Band 13
LTE Band 14
LTE Band 25
LTE Band 26
LTE Band 30
LTE Band 66
LTE Band 41


Edge 2
(moving toward phantom)
Power (dBm)
Gap (mm)
WCDMA Band II
WCDMA Band IV
WCDMA Band V
LTE Band 2
LTE Band 7
LTE Band 12
LTE Band 13
LTE Band 14
LTE Band 25
LTE Band 26
LTE Band 30
LTE Band 66
LTE Band 41


Edge 2
(moving away phantom)
Power (dBm)
Gap (mm)
WCDMA Band II
WCDMA Band IV
WCDMA Band V
LTE Band 2
LTE Band 7
LTE Band 12
LTE Band 13
LTE Band 14
LTE Band 25
LTE Band 26
LTE Band 30
LTE Band 66
LTE Band 41

5. RF Exposure Limits

5.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

5.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

6. Specific Absorption Rate (SAR)

6.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

6.2 SAR Definition

The SAR definition is 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). The equation description is as below:

$$\mathbf{SAR} = \frac{\mathbf{d}}{\mathbf{dt}}\left(\frac{\mathbf{dW}}{\mathbf{dm}}\right) = \frac{\mathbf{d}}{\mathbf{dt}}\left(\frac{\mathbf{dW}}{\boldsymbol{\rho}\mathbf{dv}}\right)$$

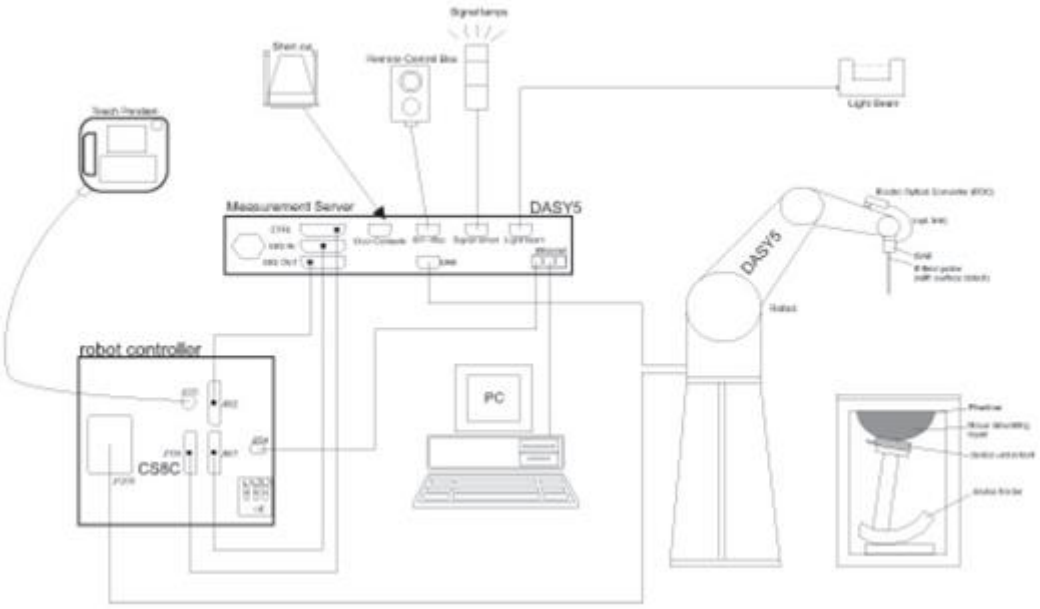
SAR is expressed in units of Watts per kilogram (W/kg)

$$\mathbf{SAR} = \frac{\boldsymbol{\sigma}|\mathbf{E}|^{\mathbf{2}}}{\boldsymbol{\rho}}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

7. System Description and Setup

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



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

7.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG).The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – 4 GHz; Linearity: ±0.2 dB (30 MHz – 4 GHz)	
Directivity	±0.2 dB in TSL (rotation around probe axis) ±0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 µW/g – >100 mW/g; Linearity: ±0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – >6 GHz Linearity: ±0.2 dB (30 MHz – 6 GHz)	
Directivity	±0.3 dB in TSL (rotation around probe axis) ±0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 µW/g – >100 mW/g Linearity: ±0.2 dB (noise: typically <1 µW/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

7.2 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

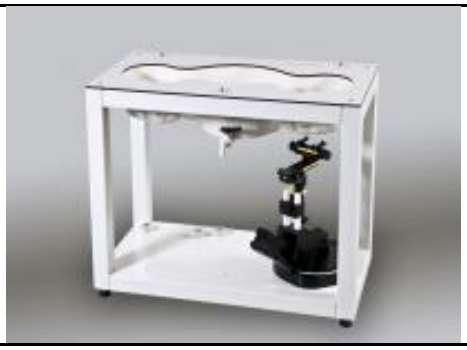
The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

Fig 5.1 Photo of DAE

7.3 Phantom

<SAM Twin Phantom>

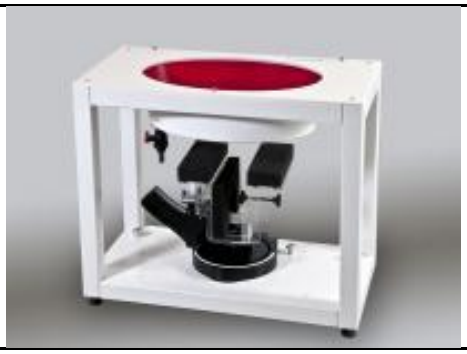
Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume	Approx. 25 liters
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet
Measurement Areas	Left Hand, Right Hand, Flat Phantom



The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)
Filling Volume	Approx. 30 liters
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm



The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

7.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.

Mounting Device for Hand-Held Transmitters

Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.

Mounting Device for Laptops

8. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

(a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
(b) Read the WWAN RF power level from the base station simulator.
(c) For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
(d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

(a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
(b) Place the EUT in the positions as Appendix D demonstrates.
(c) Set scan area, grid size and other setting on the DASY software.
(d) Measure SAR results for the highest power channel on each testing position.
(e) Find out the largest SAR result on these testing positions of each band
(f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

(a) Power reference measurement
(b) Area scan
(c) Zoom scan
(d) Power drift measurement

8.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

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

(a) Extraction of the measured data (grid and values) from the Zoom Scan
(b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
(c) Generation of a high-resolution mesh within the measured volume
(d) Interpolation of all measured values form the measurement grid to the high-resolution grid
(e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
(f) Calculation of the averaged SAR within masses of 1g and 10g

8.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

8.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 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
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

8.4 Zoom Scan

Zoom scans are used assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube shoes base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
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 to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan 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 draft standard IEEE P1528-2011 for details.

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 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.

8.5 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

9. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1107	Mar. 08, 2019	Mar. 06, 2021
SPEAG	835MHz System Validation Kit	D835V2	4d167	Nov. 25, 2019	Nov. 24, 2020
SPEAG	1750MHz System Validation Kit	D1750V2	1068	Nov. 19, 2018	Nov. 17, 2020
SPEAG	1900MHz System Validation Kit	D1900V2	5d185	Mar. 07, 2019	Mar. 05, 2021
SPEAG	2300MHz System Validation Kit	D2300V2	1006	Jan. 28, 2019	Jan. 26, 2021
SPEAG	2600MHz System Validation Kit	D2600V2	1008	Aug. 31, 2018	Aug. 29, 2020
SPEAG	Data Acquisition Electronics	DAE3	495	May. 21, 2019	May. 20, 2020
SPEAG	Dosimetric E-Field Probe	EX3DV4	3728	Feb. 04, 2020	Feb. 03, 2021
RCPTWN	Thermometer	HTC-1	TM685-1	Nov. 12, 2019	Nov. 11, 2020
RCPTWN	Thermometer	HTC-1	TM560-2	Nov. 12, 2019	Nov. 11, 2020
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Oct. 31, 2019	Oct. 30, 2020
Agilent	Wireless Communication Test Set	E5515C	MY50266977	May. 27, 2019	May. 26, 2020
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Nov. 20, 2019	Nov. 19, 2020
Agilent	ENA Network Analyzer	E5071C	MY46104758	Sep. 06, 2019	Sep. 05, 2020
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 18, 2019	Sep. 17, 2020
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3169	Sep. 10, 2019	Sep. 09, 2020
Anritsu	Power Meter	ML2495A	1036004	Aug. 08, 2019	Aug. 07, 2020
Anritsu	Power Sensor	MA2411B	1027253	Aug. 08, 2019	Aug. 07, 2020
Anritsu	Power Meter	ML2495A	1419002	May. 29, 2019	May. 28, 2020
Anritsu	Power Sensor	MA2411B	1339124	May. 29, 2019	May. 28, 2020
Agilent	Spectrum Analyzer	E4408B	MY44211028	Aug. 27, 2019	Aug. 26, 2020
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jun. 27, 2019	Jun. 26, 2020
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 16, 2019	Oct. 15, 2020
Mini-Circuits	Power Amplifier	ZVE-8G+	6382	Aug. 12, 2019	Aug. 11, 2020
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Woken	Attenuator 1	WK0602-XX	N/A	Note 1	
PE	Attenuator 2	PE7005-10	N/A	Note 1	
PE	Attenuator 3	PE7005- 3	N/A	Note 1	

General Note:

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
2. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The justification data of dipole D750V3, SN: 1107, D1750V2, SN: 1068, D1900V2, SN: 5d185, D2300V2, SN: 1006, D2600V2, SN: 1008, can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

10. System Verification

10.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.2.

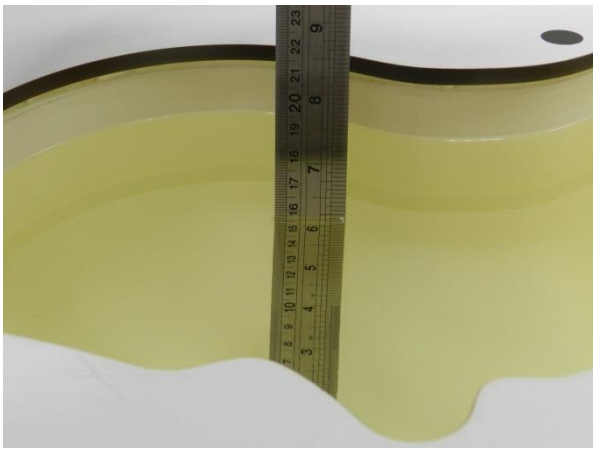


Fig 10.1Photo of Liquid Height for Head SAR

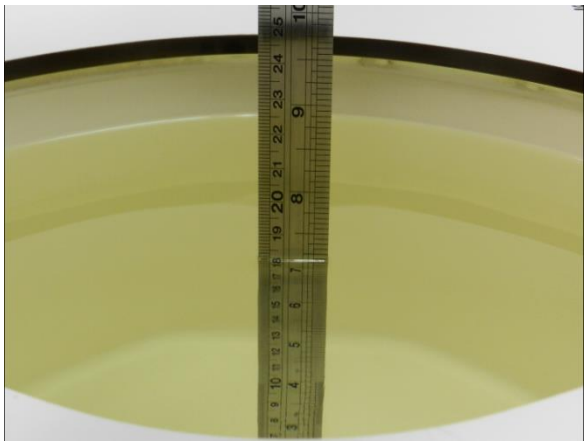


Fig 10.2 Photo of Liquid Height for Body SAR

10.2 Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (εr)
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
2600	54.8	0	0	0.1	0	45.1	1.96	39.0

Simulating Liquid for 5GHz, Manufactured by SPEAG

Ingredients	(% by weight)
Water	64~78%
Mineral oil	11~18%
Emulsifiers	9~15%
Additives and Salt	2~3%

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (ε_r)	Conductivity Target (σ)	Permittivity Target (ε_r)	Delta (σ) (%)	Delta (ε_r) (%)	Limit (%)	Date
750	22.7	0.899	43.706	0.89	41.90	1.01	4.31	±5	2020/2/29
750	22.6	0.899	42.706	0.89	41.90	1.01	1.92	±5	2020/3/1
750	22.3	0.895	43.476	0.89	41.90	0.56	3.76	±5	2020/3/4
835	22.6	0.934	42.410	0.90	41.50	3.78	2.19	±5	2020/3/1
835	22.3	0.912	43.323	0.90	41.50	1.33	4.39	±5	2020/3/4
1750	22.7	1.382	40.689	1.37	40.10	0.88	1.47	±5	2020/2/29
1750	22.6	1.369	40.600	1.37	40.10	-0.07	1.25	±5	2020/3/1
1750	22.8	1.400	40.431	1.37	40.10	2.19	0.83	±5	2020/3/2
1900	22.7	1.448	40.894	1.40	40.00	3.43	2.24	±5	2020/2/29
1900	22.6	1.415	39.184	1.40	40.00	1.07	-2.04	±5	2020/3/1
1900	22.8	1.413	40.395	1.40	40.00	0.93	0.99	±5	2020/3/2
2300	22.5	1.606	39.386	1.67	39.50	-3.83	-0.29	±5	2020/2/28
2300	22.4	1.613	40.443	1.67	39.50	-3.41	2.39	±5	2020/3/3
2600	22.5	1.959	38.329	1.96	39.00	-0.05	-1.72	±5	2020/2/28
2600	22.4	1.961	39.409	1.96	39.00	0.05	1.05	±5	2020/3/3

10.3 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2020/2/29	750	250	D750V3-1107	EX3DV4 - SN3728	DAE3 Sn495	2.15	8.32	8.6	3.37
2020/3/1	750	250	D750V3-1107	EX3DV4 - SN3728	DAE3 Sn495	2.12	8.32	8.48	1.92
2020/3/4	750	250	D750V3-1107	EX3DV4 - SN3728	DAE3 Sn495	2.14	8.32	8.56	2.88
2020/3/1	835	250	D835V2-4d167	EX3DV4 - SN3728	DAE3 Sn495	2.46	9.55	9.84	3.04
2020/3/4	835	250	D835V2-4d167	EX3DV4 - SN3728	DAE3 Sn495	2.43	9.55	9.72	1.78
2020/2/29	1750	250	D1750V2-1068	EX3DV4 - SN3728	DAE3 Sn495	8.86	37.10	35.44	-4.47
2020/3/1	1750	250	D1750V2-1068	EX3DV4 - SN3728	DAE3 Sn495	8.76	37.10	35.04	-5.55
2020/3/2	1750	250	D1750V2-1068	EX3DV4 - SN3728	DAE3 Sn495	8.82	37.10	35.28	-4.91
2020/2/29	1900	250	D1900V2-5d185	EX3DV4 - SN3728	DAE3 Sn495	9.85	39.40	39.4	0.00
2020/3/1	1900	250	D1900V2-5d185	EX3DV4 - SN3728	DAE3 Sn495	9.62	39.40	38.48	-2.34
2020/3/2	1900	250	D1900V2-5d185	EX3DV4 - SN3728	DAE3 Sn495	9.96	39.40	39.84	1.12
2020/2/28	2300	250	D2300V2-1006	EX3DV4 - SN3728	DAE3 Sn495	12.00	48.70	48	-1.44
2020/3/3	2300	250	D2300V2-1006	EX3DV4 - SN3728	DAE3 Sn495	12.00	48.70	48	-1.44
2020/2/28	2600	250	D2600V2-1008	EX3DV4 - SN3728	DAE3 Sn495	14.10	56.40	56.4	0.00
2020/3/3	2600	250	D2600V2-1008	EX3DV4 - SN3728	DAE3 Sn495	14.80	56.40	59.2	4.96

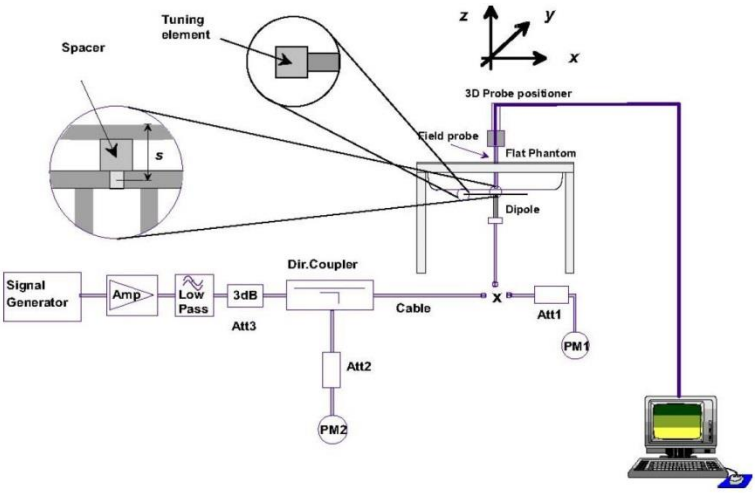


Fig 8.3.1 System Performance Check Setup

Fig 8.3.2 Setup Photo

11. RF Exposure Positions

11.1 SAR Testing for Tablet

This device can be used also in full sized tablet exposure conditions, due to its size. Per FCC KDB 616217, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. The SAR exclusion threshold in KDB 447498 D01v06 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

12. GSM/UMTS/CDMA/LTE Output Power (Unit: dBm)

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
b. The RF path losses were compensated into the measurements.
c. A call was established between EUT and Base Station with following setting:
   i. Set Gain Factors (β_c and β_d) and parameters were set according to each
   ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
   iii. Set RMC 12.2Kbps + HSDPA mode.
   iv. Set Cell Power = -86 dBm
   v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
   vi. Select HSDPA Uplink Parameters
   vii. Set Delta ACK, Delta NACK and Delta CQI = 8
   viii. Set Ack-Nack Repetition Factor to 3
   ix. Set CQI Feedback Cycle (k) to 4 ms
   x. Set CQI Repetition Factor to 2
   xi. Power Ctrl Mode = All Up bits
d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and Δ_{NACK} = 30/15 with β_{hs} = 30/15 * β_c, and Δ_{CQI} = 24/15 with β_{hs} = 24/15 * β_c.

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

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 11/15 and β_d = 15/15.

Setup Configuration

HSUPA Setup Configuration:

a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
b. The RF path losses were compensated into the measurements.
c. A call was established between EUT and Base Station with following setting * :
   i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
   ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
   iii. Set Cell Power = -86 dBm
   iv. Set Channel Type = 12.2k + HSPA
   v. Set UE Target Power
   vi. Power Ctrl Mode= Alternating bits
   vii. Set and observe the E-TFCI
   viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
d. The transmitted maximum output power was recorded.

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed}1$: 47/15 $\beta_{ed}2$: 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c. For sub-test 5, Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 5/15 with β_{hs} = 5/15 * β_c.

Note 2: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c=24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

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

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

Note 5: β_{ed} can not be set directly; it is set by Absolute Grant Value.

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

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration below
b. The RF path losses were compensated into the measurements.
c. A call was established between EUT and Base Station with following setting:
   i. Set RMC 12.2Kbps + HSDPA mode.
   ii. Set Cell Power = -25 dBm
   iii. Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
   iv. Select HSDPA Uplink Parameters
   v. Set Gain Factors (β_c and β_d) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
      a). Subtest 1: β_c/β_d=2/15
      b). Subtest 2: β_c/β_d=12/15
      c). Subtest 3: β_c/β_d=15/8
      d). Subtest 4: β_c/β_d=15/4
   vi. Set Delta ACK, Delta NACK and Delta CQI = 8
   vii. Set Ack-Nack Repetition Factor to 3
   viii. Set CQI Feedback Cycle (k) to 4 ms
   ix. Set CQI Repetition Factor to 2
   x. Power Ctrl Mode = All Up bits
d. The transmitted maximum output power was recorded.

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
A summary of these settings are illustrated below:

C.8.1.12 Fixed Reference Channel Definition H-Set 12

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

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Proces ses	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.		

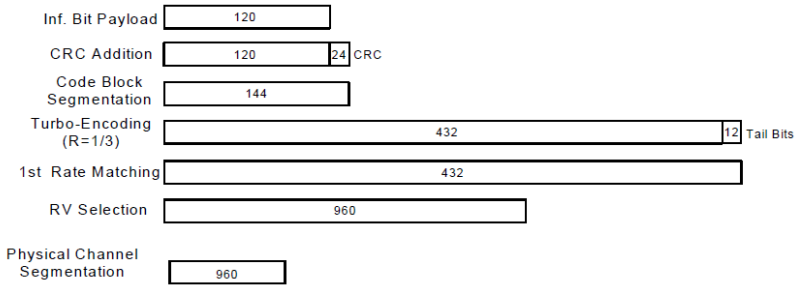


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

<WCDMA Conducted Power>

General Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

<Default Power Mode>

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.74	23.82	23.99	24.50	23.64	24.23	23.73	24.50	23.80	23.97	23.79	24.50
3GPP Rel 6	HSDPA Subtest-1	22.69	22.97	22.93	23.50	22.64	23.18	22.67	23.50	22.74	22.91	22.78	23.50
3GPP Rel 6	HSDPA Subtest-2	22.67	23.02	22.97	23.50	22.65	23.17	22.67	23.50	22.76	22.94	22.81	23.50
3GPP Rel 6	HSDPA Subtest-3	22.19	22.52	22.46	23.00	22.14	22.69	22.17	23.00	22.26	22.46	22.29	23.00
3GPP Rel 6	HSDPA Subtest-4	22.21	22.44	22.48	23.00	22.13	22.68	22.17	23.00	22.27	22.30	22.29	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.67	22.94	22.91	23.50	22.66	23.18	22.66	23.50	22.82	22.91	22.78	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.65	22.92	22.87	23.50	22.64	23.15	22.65	23.50	22.72	22.77	22.89	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.18	22.52	22.46	23.00	22.15	22.58	22.17	23.00	22.10	22.20	22.20	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.20	22.50	22.45	23.00	22.11	22.58	22.19	23.00	22.14	22.12	22.23	23.00
3GPP Rel 6	HSUPA Subtest-1	22.76	22.87	23.02	23.50	22.75	23.32	22.80	23.50	22.73	22.89	22.77	23.50
3GPP Rel 6	HSUPA Subtest-2	20.79	20.86	21.03	21.50	20.76	21.30	20.80	21.50	20.71	20.91	20.76	21.50
3GPP Rel 6	HSUPA Subtest-3	21.79	21.87	22.02	22.50	21.75	22.32	21.81	22.50	21.69	21.92	21.78	22.50
3GPP Rel 6	HSUPA Subtest-4	20.78	20.85	21.03	21.50	20.76	21.32	20.80	21.50	20.72	20.88	20.74	21.50
3GPP Rel 6	HSUPA Subtest-5	22.80	22.90	23.00	23.50	22.80	23.30	22.80	23.50	22.80	22.90	22.80	23.50

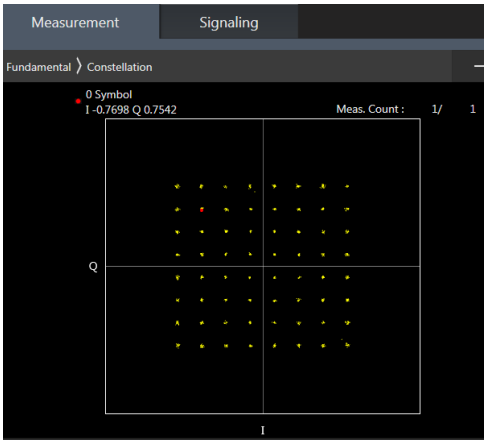
<Reduced Power Mode>

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	21.15	21.18	21.26	22.00	19.10	19.69	19.26	20.00	21.16	21.30	21.26	23.00
3GPP Rel 6	HSDPA Subtest-1	20.12	20.18	20.27	21.00	18.12	18.73	18.26	19.00	20.20	20.33	20.16	22.00
3GPP Rel 6	HSDPA Subtest-2	20.15	20.21	20.29	21.00	18.13	18.72	18.26	19.00	20.22	20.35	20.19	22.00
3GPP Rel 6	HSDPA Subtest-3	19.66	19.69	19.79	20.50	17.61	18.21	17.76	18.50	19.70	19.83	19.68	21.50
3GPP Rel 6	HSDPA Subtest-4	19.64	19.68	19.79	20.50	17.61	18.25	17.73	18.50	19.69	19.84	19.69	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	20.10	20.12	20.20	21.00	18.14	18.70	18.24	19.00	20.15	20.30	20.17	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	20.13	20.13	20.18	21.00	18.12	18.68	18.23	19.00	20.18	20.32	20.17	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	19.55	19.65	19.74	20.50	17.65	18.24	17.75	18.50	19.70	19.81	19.67	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	19.61	19.67	19.77	20.50	17.61	18.23	17.71	18.50	19.65	18.82	19.65	21.50
3GPP Rel 6	HSUPA Subtest-1	19.83	19.72	20.05	21.00	17.27	18.33	17.68	19.00	20.19	20.34	20.16	22.00
3GPP Rel 6	HSUPA Subtest-2	17.92	17.66	17.93	19.00	16.14	16.21	16.04	17.00	18.18	18.33	18.18	20.00
3GPP Rel 6	HSUPA Subtest-3	18.86	18.69	18.77	20.00	16.96	17.15	17.10	18.00	19.19	19.34	19.18	21.00
3GPP Rel 6	HSUPA Subtest-4	17.61	17.86	17.73	19.00	15.99	16.38	15.99	17.00	18.19	18.34	18.17	20.00
3GPP Rel 6	HSUPA Subtest-5	19.80	19.90	19.90	21.00	17.90	18.20	18.00	19.00	20.20	20.40	20.20	22.00

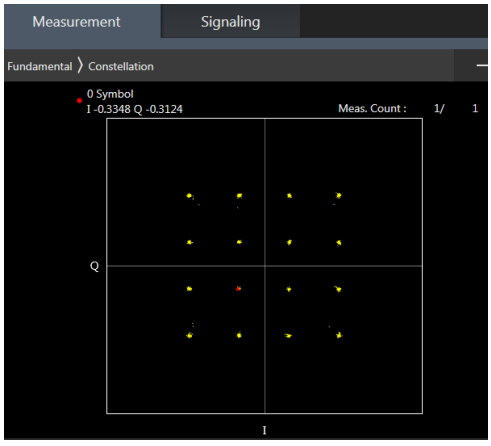
<LTE Conducted Power>

General Note:

1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B12 / B26 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, 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.
9. LTE band 4/5/17/38 SAR test was covered by Band 66/26/12/41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
   a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
   b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to 2017 TCB workshop, for 64 QAM and 16 QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 64QAM and 16QAM signal modulation are correct.



64QAM



16QAM

<Default Power Mode>

<LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	23.40	23.64	24.11	24.5	0
20	QPSK	1	49	23.24	23.53	23.84		
20	QPSK	1	99	23.36	23.57	23.93		
20	QPSK	50	0	22.48	22.69	23.02	23.5	1
20	QPSK	50	24	22.42	22.60	22.94		
20	QPSK	50	50	22.45	22.52	22.89		
20	QPSK	100	0	22.43	22.63	22.95		
20	16QAM	1	0	22.75	22.89	23.41	23.5	1
20	16QAM	1	49	22.54	22.87	23.17		
20	16QAM	1	99	22.67	22.91	23.28		
20	16QAM	50	0	21.54	21.79	22.12	22.5	2
20	16QAM	50	24	21.49	21.70	22.03		
20	16QAM	50	50	21.58	21.66	21.99		
20	16QAM	100	0	21.52	21.70	22.02		
20	64QAM	1	0	21.70	21.83	22.35	22.5	2
20	64QAM	1	49	21.49	21.82	22.08		
20	64QAM	1	99	21.61	21.87	22.21		
20	64QAM	50	0	20.53	20.79	21.13	21.5	3
20	64QAM	50	24	20.50	20.72	21.05		
20	64QAM	50	50	20.57	20.66	20.99		
20	64QAM	100	0	20.54	20.73	21.05		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	23.38	23.75	23.95	24.5	0
15	QPSK	1	37	23.25	23.64	23.84		
15	QPSK	1	74	23.33	23.64	23.87		
15	QPSK	36	0	22.37	22.77	22.86	23.5	1
15	QPSK	36	20	22.31	22.70	22.81		
15	QPSK	36	39	22.32	22.65	22.88		
15	QPSK	75	0	22.30	22.70	22.82		
15	16QAM	1	0	22.73	23.14	23.31	23.5	1
15	16QAM	1	37	22.50	22.97	23.16		
15	16QAM	1	74	22.60	23.02	23.24		
15	16QAM	36	0	21.49	21.88	21.97	22.5	2
15	16QAM	36	20	21.38	21.85	21.90		
15	16QAM	36	39	21.41	21.77	21.95		
15	16QAM	75	0	21.42	21.82	21.91		
15	64QAM	1	0	21.65	22.03	22.22	22.5	2
15	64QAM	1	37	21.48	21.89	22.09		
15	64QAM	1	74	21.51	21.91	22.14		
15	64QAM	36	0	20.51	20.88	21.01	21.5	3
15	64QAM	36	20	20.40	20.85	20.95		
15	64QAM	36	39	20.45	20.79	21.01		
15	64QAM	75	0	20.41	20.84	20.92		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	23.13	23.50	23.79	24.5	0
10	QPSK	1	25	23.12	23.52	23.78		
10	QPSK	1	49	23.06	23.47	23.74		
10	QPSK	25	0	22.22	22.57	22.79	23.5	1

10	QPSK	25	12	22.18	22.55	22.83		
10	QPSK	25	25	22.13	22.52	22.79		
10	QPSK	50	0	22.18	22.55	22.75		
10	16QAM	1	0	22.50	22.88	23.17	23.5	1
10	16QAM	1	25	22.52	22.85	23.15		
10	16QAM	1	49	22.40	22.82	23.14		
10	16QAM	25	0	21.34	21.69	21.84	22.5	2
10	16QAM	25	12	21.28	21.65	21.93		
10	16QAM	25	25	21.23	21.61	21.88		
10	16QAM	50	0	21.28	21.62	21.85		
10	64QAM	1	0	21.36	21.72	22.02	22.5	2
10	64QAM	1	25	21.35	21.73	22.02		
10	64QAM	1	49	21.27	21.68	21.98		
10	64QAM	25	0	20.30	20.67	20.89	21.5	3
10	64QAM	25	12	20.29	20.66	20.95		
10	64QAM	25	25	20.21	20.62	20.88		
10	64QAM	50	0	20.28	20.64	20.86		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	23.11	23.56	23.85	24.5	0
5	QPSK	1	12	23.03	23.53	23.79		
5	QPSK	1	24	23.01	23.55	23.80		
5	QPSK	12	0	22.07	22.54	22.81	23.5	1
5	QPSK	12	7	22.10	22.56	22.84		
5	QPSK	12	13	22.04	22.53	22.79		
5	QPSK	25	0	22.05	22.55	22.82		
5	16QAM	1	0	22.43	22.88	23.19	23.5	1
5	16QAM	1	12	22.40	22.88	23.12		
5	16QAM	1	24	22.35	22.82	23.15		
5	16QAM	12	0	21.24	21.70	21.93	22.5	2
5	16QAM	12	7	21.17	21.67	21.92		
5	16QAM	12	13	21.18	21.67	21.89		
5	16QAM	25	0	21.17	21.63	21.92		
5	64QAM	1	0	21.34	21.84	22.15	22.5	2
5	64QAM	1	12	21.31	21.80	22.07		
5	64QAM	1	24	21.31	21.77	22.04		
5	64QAM	12	0	20.23	20.73	20.98	21.5	3
5	64QAM	12	7	20.24	20.72	20.99		
5	64QAM	12	13	20.18	20.69	20.95		
5	64QAM	25	0	20.17	20.63	20.92		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	23.24	23.63	23.91	24.5	0
3	QPSK	1	8	23.20	23.62	23.88		
3	QPSK	1	14	23.10	23.60	23.87		
3	QPSK	8	0	22.16	22.66	22.91	23.5	1
3	QPSK	8	4	22.19	22.68	22.92		
3	QPSK	8	7	22.15	22.65	22.89		
3	QPSK	15	0	22.14	22.66	22.92		
3	16QAM	1	0	22.49	22.92	23.24	23.5	1
3	16QAM	1	8	22.49	22.98	23.22		
3	16QAM	1	14	22.43	22.89	23.15		
3	16QAM	8	0	21.30	21.79	22.07	22.5	2
3	16QAM	8	4	21.32	21.81	22.08		
3	16QAM	8	7	21.27	21.78	22.03		
3	16QAM	15	0	21.24	21.75	22.00		

3	64QAM	1	0	21.43	21.87	22.18	22.5	2
3	64QAM	1	8	21.40	21.86	22.16		
3	64QAM	1	14	21.39	21.85	22.16		
3	64QAM	8	0	20.30	20.81	21.05	21.5	3
3	64QAM	8	4	20.32	20.82	21.07		
3	64QAM	8	7	20.29	20.80	21.03		
3	64QAM	15	0	20.24	20.74	21.01		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	23.65	23.57	23.81	24.5	0
1.4	QPSK	1	3	23.73	23.63	23.86		
1.4	QPSK	1	5	23.65	23.55	23.80		
1.4	QPSK	3	0	23.67	23.56	23.87		
1.4	QPSK	3	1	23.72	23.63	23.88		
1.4	QPSK	3	3	23.70	23.61	23.85		
1.4	QPSK	6	0	22.69	22.57	22.84	23.5	1
1.4	16QAM	1	0	23.02	22.91	23.14	23.5	1
1.4	16QAM	1	3	23.00	22.96	23.22		
1.4	16QAM	1	5	22.89	22.87	23.11		
1.4	16QAM	3	0	22.73	22.68	22.96		
1.4	16QAM	3	1	22.77	22.74	22.98		
1.4	16QAM	3	3	22.70	22.67	22.93		
1.4	16QAM	6	0	21.75	21.75	22.01	22.5	2
1.4	64QAM	1	0	21.86	21.85	22.12	22.5	2
1.4	64QAM	1	3	21.93	21.90	22.14		
1.4	64QAM	1	5	21.85	21.79	22.08		
1.4	64QAM	3	0	21.82	21.83	22.08		
1.4	64QAM	3	1	21.88	21.85	22.10		
1.4	64QAM	3	3	21.84	21.82	22.06		
1.4	64QAM	6	0	20.68	20.68	20.94	21.5	3

<LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	23.49	23.73	23.71	24.5	0
20	QPSK	1	49	23.45	23.55	23.41		
20	QPSK	1	99	23.64	23.44	23.26		
20	QPSK	50	0	22.53	22.75	22.71	23.5	1
20	QPSK	50	24	22.45	22.64	22.50		
20	QPSK	50	50	22.41	22.60	22.44		
20	QPSK	100	0	22.56	22.65	22.55		
20	16QAM	1	0	22.84	23.02	23.17	23.5	1
20	16QAM	1	49	22.74	22.91	22.82		
20	16QAM	1	99	22.96	22.79	22.62		
20	16QAM	50	0	21.66	21.86	21.81	22.5	2
20	16QAM	50	24	21.63	21.77	21.63		
20	16QAM	50	50	21.77	21.69	21.52		
20	16QAM	100	0	21.67	21.77	21.60		
20	64QAM	1	0	21.76	21.92	22.08	22.5	2
20	64QAM	1	49	21.64	21.78	21.70		
20	64QAM	1	99	21.85	21.70	21.57		
20	64QAM	50	0	20.64	20.88	20.81	21.5	3
20	64QAM	50	24	20.65	20.76	20.62		
20	64QAM	50	50	20.79	20.71	20.56		
20	64QAM	100	0	20.67	20.80	20.62		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	23.47	23.56	23.67	24.5	0
15	QPSK	1	37	23.37	23.67	23.48		
15	QPSK	1	74	23.59	23.59	23.39		
15	QPSK	36	0	22.56	22.74	22.56	23.5	1
15	QPSK	36	20	22.57	22.68	22.49		
15	QPSK	36	39	22.59	22.64	22.41		
15	QPSK	75	0	22.58	22.72	22.51		
15	16QAM	1	0	22.81	23.20	23.02	23.5	1
15	16QAM	1	37	22.70	22.91	22.76		
15	16QAM	1	74	22.89	22.86	22.66		
15	16QAM	36	0	21.65	21.86	21.67	22.5	2
15	16QAM	36	20	21.68	21.78	21.57		
15	16QAM	36	39	21.70	21.71	21.54		
15	16QAM	75	0	21.66	21.79	21.58		
15	64QAM	1	0	21.74	21.97	21.94	22.5	2
15	64QAM	1	37	21.62	21.91	21.69		
15	64QAM	1	74	21.79	21.81	21.56		
15	64QAM	36	0	20.69	20.89	20.73	21.5	3
15	64QAM	36	20	20.68	20.79	20.60		
15	64QAM	36	39	20.72	20.74	20.55		
15	64QAM	75	0	20.68	20.87	20.60		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	23.28	23.54	23.67	24.5	0
10	QPSK	1	25	23.27	23.53	23.41		
10	QPSK	1	49	23.43	23.46	23.36		
10	QPSK	25	0	22.35	22.63	22.53	23.5	1
10	QPSK	25	12	22.40	22.55	22.47		

10	QPSK	25	25	22.45	22.50	22.33		
10	QPSK	50	0	22.41	22.60	22.48		
10	16QAM	1	0	22.61	22.92	22.92	23.5	1
10	16QAM	1	25	22.59	22.90	22.64		
10	16QAM	1	49	22.73	22.87	22.65		
10	16QAM	25	0	21.47	21.73	21.64	22.5	2
10	16QAM	25	12	21.49	21.70	21.61		
10	16QAM	25	25	21.58	21.67	21.45		
10	16QAM	50	0	21.49	21.70	21.57		
10	64QAM	1	0	21.46	21.76	21.84	22.5	2
10	64QAM	1	25	21.45	21.76	21.63		
10	64QAM	1	49	21.60	21.79	21.66		
10	64QAM	25	0	20.49	20.71	20.74	21.5	3
10	64QAM	25	12	20.49	20.68	20.66		
10	64QAM	25	25	20.56	20.64	20.55		
10	64QAM	50	0	20.53	20.71	20.70		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	23.31	23.67	23.42	24.5	0
5	QPSK	1	12	23.32	23.57	23.34		
5	QPSK	1	24	23.34	23.57	23.35		
5	QPSK	12	0	22.39	22.65	22.42	23.5	1
5	QPSK	12	7	22.40	22.62	22.41		
5	QPSK	12	13	22.34	22.61	22.31		
5	QPSK	25	0	22.35	22.61	22.30		
5	16QAM	1	0	22.57	23.00	22.64	23.5	1
5	16QAM	1	12	22.64	22.95	22.64		
5	16QAM	1	24	22.64	22.95	22.64		
5	16QAM	12	0	21.52	21.75	21.41	22.5	2
5	16QAM	12	7	21.50	21.75	21.39		
5	16QAM	12	13	21.47	21.70	21.37		
5	16QAM	25	0	21.49	21.72	21.44		
5	64QAM	1	0	21.57	21.94	21.67	22.5	2
5	64QAM	1	12	21.57	21.87	21.58		
5	64QAM	1	24	21.59	21.84	21.58		
5	64QAM	12	0	20.54	20.80	20.57	21.5	3
5	64QAM	12	7	20.54	20.82	20.55		
5	64QAM	12	13	20.50	20.85	20.53		
5	64QAM	25	0	20.46	20.81	20.49		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	23.30	23.61	23.30	24.5	0
3	QPSK	1	8	23.25	23.57	23.25		
3	QPSK	1	14	23.34	23.57	23.24		
3	QPSK	8	0	22.29	22.62	22.31	23.5	1
3	QPSK	8	4	22.40	22.63	22.31		
3	QPSK	8	7	22.33	22.60	22.30		
3	QPSK	15	0	22.38	22.60	22.32		
3	16QAM	1	0	22.57	22.96	22.58	23.5	1
3	16QAM	1	8	22.58	22.94	22.58		
3	16QAM	1	14	22.60	22.90	22.56		
3	16QAM	8	0	21.44	21.77	21.45	22.5	2
3	16QAM	8	4	21.54	21.78	21.49		
3	16QAM	8	7	21.48	21.73	21.42		
3	16QAM	15	0	21.47	21.71	21.42		
3	64QAM	1	0	21.53	21.88	21.54	22.5	2

3	64QAM	1	8	21.48	21.86	21.55		
3	64QAM	1	14	21.55	21.87	21.50		
3	64QAM	8	0	20.44	20.75	20.44	21.5	3
3	64QAM	8	4	20.52	20.78	20.47		
3	64QAM	8	7	20.49	20.74	20.46		
3	64QAM	15	0	20.45	20.72	20.42		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	23.21	23.49	23.20	24.5	0
1.4	QPSK	1	3	23.26	23.61	23.26		
1.4	QPSK	1	5	23.16	23.49	23.18		
1.4	QPSK	3	0	23.22	23.55	23.26		
1.4	QPSK	3	1	23.28	23.59	23.27		
1.4	QPSK	3	3	23.24	23.56	23.26		
1.4	QPSK	6	0	22.23	22.54	22.25	23.5	1
1.4	16QAM	1	0	22.48	22.88	22.55	23.5	1
1.4	16QAM	1	3	22.56	22.92	22.61		
1.4	16QAM	1	5	22.46	22.84	22.50		
1.4	16QAM	3	0	22.29	22.66	22.34		
1.4	16QAM	3	1	22.32	22.69	22.34		
1.4	16QAM	3	3	22.28	22.64	22.31		
1.4	16QAM	6	0	21.36	21.72	21.39	22.5	2
1.4	64QAM	1	0	21.44	21.83	21.50	22.5	2
1.4	64QAM	1	3	21.50	21.88	21.55		
1.4	64QAM	1	5	21.44	21.77	21.43		
1.4	64QAM	3	0	21.44	21.81	21.49		
1.4	64QAM	3	1	21.47	21.82	21.51		
1.4	64QAM	3	3	21.46	21.78	21.44		
1.4	64QAM	6	0	20.33	20.65	20.33	21.5	3

<LTE Band 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	23.28	23.47	23.37	24.5	0
10	QPSK	1	25	23.27	23.27	23.25		
10	QPSK	1	49	23.24	23.31	23.32		
10	QPSK	25	0	22.33	22.36	22.35	23.5	1
10	QPSK	25	12	22.24	22.34	22.33		
10	QPSK	25	25	22.30	22.29	22.27		
10	QPSK	50	0	22.21	22.32	22.30		
10	16QAM	1	0	22.64	22.62	22.73	23.5	1
10	16QAM	1	25	22.60	22.62	22.58		
10	16QAM	1	49	22.76	22.64	22.66		
10	16QAM	25	0	21.43	21.44	21.42	22.5	2
10	16QAM	25	12	21.52	21.40	21.42		
10	16QAM	25	25	21.45	21.37	21.37		
10	16QAM	50	0	21.49	21.39	21.41		
10	64QAM	1	0	21.53	21.50	21.60	22.5	2
10	64QAM	1	25	21.52	21.55	21.51		
10	64QAM	1	49	21.72	21.53	21.60		
10	64QAM	25	0	20.43	20.43	20.43	21.5	3
10	64QAM	25	12	20.54	20.41	20.40		
10	64QAM	25	25	20.48	20.34	20.36		
10	64QAM	50	0	20.50	20.38	20.39		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	23.34	23.36	23.45	24.5	0
5	QPSK	1	12	23.35	23.31	23.46		
5	QPSK	1	24	23.33	23.40	23.46		
5	QPSK	12	0	22.42	22.37	22.42	23.5	1
5	QPSK	12	7	22.41	22.35	22.54		
5	QPSK	12	13	22.36	22.31	22.49		
5	QPSK	25	0	22.40	22.33	22.42		
5	16QAM	1	0	22.69	22.70	22.73	23.5	1
5	16QAM	1	12	22.68	22.66	22.78		
5	16QAM	1	24	22.66	22.74	22.78		
5	16QAM	12	0	21.46	21.47	21.50	22.5	2
5	16QAM	12	7	21.50	21.45	21.62		
5	16QAM	12	13	21.45	21.41	21.57		
5	16QAM	25	0	21.49	21.41	21.50		
5	64QAM	1	0	21.60	21.63	21.68	22.5	2
5	64QAM	1	12	21.60	21.55	21.70		
5	64QAM	1	24	21.57	21.60	21.70		
5	64QAM	12	0	20.52	20.46	20.55	21.5	3
5	64QAM	12	7	20.55	20.48	20.64		
5	64QAM	12	13	20.48	20.44	20.62		
5	64QAM	25	0	20.49	20.40	20.47		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	23.38	23.44	23.34	24.5	0
3	QPSK	1	8	23.37	23.41	23.44		
3	QPSK	1	14	23.43	23.39	23.42		
3	QPSK	8	0	22.38	22.41	22.58	23.5	1
3	QPSK	8	4	22.53	22.46	22.60		

3	QPSK	8	7	22.48	22.43	22.56		
3	QPSK	15	0	22.50	22.42	22.57		
3	16QAM	1	0	22.74	22.75	22.90	23.5	1
3	16QAM	1	8	22.71	22.72	22.89		
3	16QAM	1	14	22.78	22.70	22.88		
3	16QAM	8	0	21.53	21.55	21.71	22.5	2
3	16QAM	8	4	21.63	21.57	21.71		
3	16QAM	8	7	21.59	21.53	21.70		
3	16QAM	15	0	21.59	21.51	21.68		
3	64QAM	1	0	21.68	21.67	21.81	22.5	2
3	64QAM	1	8	21.63	21.63	21.79		
3	64QAM	1	14	21.71	21.66	21.76		
3	64QAM	8	0	20.50	20.53	20.69	21.5	3
3	64QAM	8	4	20.62	20.55	20.72		
3	64QAM	8	7	20.57	20.53	20.68		
3	64QAM	15	0	20.58	20.51	20.69		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	23.31	23.36	23.38	24.5	0
1.4	QPSK	1	3	23.41	23.40	23.34		
1.4	QPSK	1	5	23.30	23.31	23.44		
1.4	QPSK	3	0	23.38	23.37	23.41		
1.4	QPSK	3	1	23.40	23.41	23.31		
1.4	QPSK	3	3	23.36	23.37	23.25		
1.4	QPSK	6	0	22.35	22.38	22.53	23.5	1
1.4	16QAM	1	0	22.65	22.66	22.80	23.5	1
1.4	16QAM	1	3	22.70	22.74	22.85		
1.4	16QAM	1	5	22.61	22.65	22.76		
1.4	16QAM	3	0	22.47	22.50	22.61		
1.4	16QAM	3	1	22.52	22.52	22.63		
1.4	16QAM	3	3	22.42	22.47	22.57		
1.4	16QAM	6	0	21.48	21.49	21.64	22.5	2
1.4	64QAM	1	0	21.57	21.56	21.73	22.5	2
1.4	64QAM	1	3	21.64	21.67	21.78		
1.4	64QAM	1	5	21.55	21.59	21.68		
1.4	64QAM	3	0	21.57	21.59	21.71		
1.4	64QAM	3	1	21.64	21.64	21.74		
1.4	64QAM	3	3	21.57	21.58	21.70		
1.4	64QAM	6	0	20.42	20.46	20.59	21.5	3

<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	24.06	24.00	23.97	24.5	0
20	QPSK	1	49	23.55	23.62	23.60		
20	QPSK	1	99	23.65	23.63	23.71		
20	QPSK	50	0	22.86	22.75	22.72	23.5	1
20	QPSK	50	24	22.72	22.73	22.70		
20	QPSK	50	50	22.66	22.67	22.64		
20	QPSK	100	0	22.81	22.71	22.70		
20	16QAM	1	0	23.35	23.11	23.04	23.5	1
20	16QAM	1	49	22.88	22.93	22.93		
20	16QAM	1	99	23.00	22.99	22.99		
20	16QAM	50	0	21.96	21.81	21.72	22.5	2
20	16QAM	50	24	21.80	21.79	21.76		
20	16QAM	50	50	21.78	21.76	21.76		
20	16QAM	100	0	21.92	21.79	21.75		
20	64QAM	1	0	22.31	22.09	21.97	22.5	2
20	64QAM	1	49	21.86	21.87	21.87		
20	64QAM	1	99	21.95	21.89	21.93		
20	64QAM	50	0	21.00	20.88	20.71	21.5	3
20	64QAM	50	24	20.84	20.79	20.79		
20	64QAM	50	50	20.78	20.74	20.74		
20	64QAM	100	0	20.93	20.80	20.79		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	24.01	23.79	23.76	24.5	0
15	QPSK	1	37	23.68	23.63	23.59		
15	QPSK	1	74	23.67	23.65	23.70		
15	QPSK	36	0	22.85	22.69	22.69	23.5	1
15	QPSK	36	20	22.75	22.67	22.68		
15	QPSK	36	39	22.67	22.67	22.61		
15	QPSK	75	0	22.81	22.67	22.68		
15	16QAM	1	0	23.33	23.08	23.09	23.5	1
15	16QAM	1	37	23.00	22.94	22.93		
15	16QAM	1	74	23.04	22.97	23.03		
15	16QAM	36	0	21.94	21.80	21.78	22.5	2
15	16QAM	36	20	21.84	21.76	21.77		
15	16QAM	36	39	21.78	21.74	21.68		
15	16QAM	75	0	21.93	21.78	21.72		
15	64QAM	1	0	22.29	22.03	21.98	22.5	2
15	64QAM	1	37	21.94	21.86	21.81		
15	64QAM	1	74	21.97	21.90	21.90		
15	64QAM	36	0	20.99	20.85	20.81	21.5	3
15	64QAM	36	20	20.90	20.84	20.77		
15	64QAM	36	39	20.83	20.81	20.77		
15	64QAM	75	0	20.92	20.76	20.74		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	23.88	23.61	23.58	24.5	0
10	QPSK	1	25	23.68	23.54	23.61		
10	QPSK	1	49	23.47	23.51	23.60		
10	QPSK	25	0	22.72	22.57	22.60	23.5	1
10	QPSK	25	12	22.72	22.55	22.55		

10	QPSK	25	25	22.59	22.55	22.62		
10	QPSK	50	0	22.77	22.60	22.54		
10	16QAM	1	0	23.24	22.92	22.95	23.5	1
10	16QAM	1	25	23.08	22.88	22.95		
10	16QAM	1	49	22.86	22.85	22.88		
10	16QAM	25	0	21.83	21.72	21.63	22.5	2
10	16QAM	25	12	21.87	21.68	21.65		
10	16QAM	25	25	21.71	21.66	21.72		
10	16QAM	50	0	21.85	21.69	21.63		
10	64QAM	1	0	22.10	21.88	21.82	22.5	2
10	64QAM	1	25	21.97	21.77	21.83		
10	64QAM	1	49	21.75	21.75	21.82		
10	64QAM	25	0	20.85	20.70	20.64	21.5	3
10	64QAM	25	12	20.79	20.68	20.68		
10	64QAM	25	25	20.72	20.70	20.73		
10	64QAM	50	0	20.78	20.71	20.66		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	23.90	23.58	23.62	24.5	0
5	QPSK	1	12	23.75	23.59	23.59		
5	QPSK	1	24	23.73	23.56	23.56		
5	QPSK	12	0	22.78	22.63	22.61	23.5	1
5	QPSK	12	7	22.85	22.62	22.64		
5	QPSK	12	13	22.77	22.58	22.58		
5	QPSK	25	0	22.76	22.59	22.60		
5	16QAM	1	0	23.18	22.88	22.92	23.5	1
5	16QAM	1	12	23.07	22.87	22.91		
5	16QAM	1	24	23.05	22.86	22.85		
5	16QAM	12	0	21.88	21.72	21.71	22.5	2
5	16QAM	12	7	21.89	21.73	21.73		
5	16QAM	12	13	21.86	21.69	21.69		
5	16QAM	25	0	21.87	21.69	21.71		
5	64QAM	1	0	22.14	21.84	21.84	22.5	2
5	64QAM	1	12	22.00	21.80	21.83		
5	64QAM	1	24	22.01	21.80	21.79		
5	64QAM	12	0	20.94	20.73	20.80	21.5	3
5	64QAM	12	7	20.95	20.79	20.78		
5	64QAM	12	13	20.90	20.71	20.77		
5	64QAM	25	0	20.87	20.71	20.72		

<LTE Band 12>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	23.55	23.79	23.73	24.5	0
10	QPSK	1	25	23.39	23.33	23.58		
10	QPSK	1	49	23.36	23.78	23.66		
10	QPSK	25	0	22.49	22.48	22.41	23.5	1
10	QPSK	25	12	22.47	22.42	22.42		
10	QPSK	25	25	22.42	22.38	22.38		
10	QPSK	50	0	22.36	22.42	22.40		
10	16QAM	1	0	22.88	22.80	22.75	23.5	1
10	16QAM	1	25	22.72	22.66	22.89		
10	16QAM	1	49	22.71	22.84	23.12		
10	16QAM	25	0	21.54	21.48	21.56	22.5	2
10	16QAM	25	12	21.53	21.47	21.67		
10	16QAM	25	25	21.53	21.48	21.72		
10	16QAM	50	0	21.53	21.47	21.64		
10	64QAM	1	0	21.75	21.70	21.66	22.5	2
10	64QAM	1	25	21.62	21.57	21.80		
10	64QAM	1	49	21.60	21.75	21.98		
10	64QAM	25	0	20.58	20.51	20.59	21.5	3
10	64QAM	25	12	20.55	20.51	20.68		
10	64QAM	25	25	20.51	20.44	20.77		
10	64QAM	50	0	20.52	20.47	20.66		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	23.63	23.41	23.63	24.5	0
5	QPSK	1	12	23.57	23.39	23.70		
5	QPSK	1	24	23.50	23.50	23.69		
5	QPSK	12	0	22.72	22.44	22.67	23.5	1
5	QPSK	12	7	22.72	22.48	22.68		
5	QPSK	12	13	22.52	22.43	22.77		
5	QPSK	25	0	22.51	22.45	22.68		
5	16QAM	1	0	22.93	22.74	22.91	23.5	1
5	16QAM	1	12	22.89	22.68	22.98		
5	16QAM	1	24	22.79	22.82	23.10		
5	16QAM	12	0	21.75	21.51	21.77	22.5	2
5	16QAM	12	7	21.78	21.54	21.77		
5	16QAM	12	13	21.59	21.51	21.83		
5	16QAM	25	0	21.61	21.51	21.76		
5	64QAM	1	0	21.86	21.65	21.82	22.5	2
5	64QAM	1	12	21.80	21.61	21.88		
5	64QAM	1	24	21.70	21.72	21.99		
5	64QAM	12	0	20.83	20.53	20.82	21.5	3
5	64QAM	12	7	20.82	20.60	20.81		
5	64QAM	12	13	20.67	20.55	20.89		
5	64QAM	25	0	20.62	20.50	20.75		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	23.68	23.45	23.75	24.5	0
3	QPSK	1	8	23.63	23.46	23.74		
3	QPSK	1	14	23.64	23.44	23.62		
3	QPSK	8	0	22.76	22.49	22.81	23.5	1
3	QPSK	8	4	22.76	22.52	22.80		

3	QPSK	8	7	22.72	22.49	22.80		
3	QPSK	15	0	22.73	22.48	22.82		
3	16QAM	1	0	22.97	22.78	23.07	23.5	1
3	16QAM	1	8	22.98	22.78	23.04		
3	16QAM	1	14	22.96	22.77	23.13		
3	16QAM	8	0	21.82	21.61	21.91	22.5	2
3	16QAM	8	4	21.86	21.63	21.91		
3	16QAM	8	7	21.84	21.61	21.89		
3	16QAM	15	0	21.83	21.57	21.89		
3	64QAM	1	0	21.90	21.68	21.94	22.5	2
3	64QAM	1	8	21.86	21.69	21.94		
3	64QAM	1	14	21.86	21.67	22.07		
3	64QAM	8	0	20.85	20.62	20.91	21.5	3
3	64QAM	8	4	20.86	20.63	20.94		
3	64QAM	8	7	20.83	20.58	20.91		
3	64QAM	15	0	20.83	20.58	20.88		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	23.30	23.39	23.36	24.5	0
1.4	QPSK	1	3	23.37	23.44	23.53		
1.4	QPSK	1	5	23.29	23.38	23.45		
1.4	QPSK	3	0	23.35	23.43	23.41		
1.4	QPSK	3	1	23.37	23.46	23.53		
1.4	QPSK	3	3	23.34	23.42	23.50		
1.4	QPSK	6	0	22.38	22.43	22.42	23.5	1
1.4	16QAM	1	0	22.60	22.70	22.67	23.5	1
1.4	16QAM	1	3	22.66	22.75	22.83		
1.4	16QAM	1	5	22.59	22.68	22.75		
1.4	16QAM	3	0	22.43	22.48	22.49		
1.4	16QAM	3	1	22.45	22.52	22.62		
1.4	16QAM	3	3	22.39	22.47	22.58		
1.4	16QAM	6	0	21.53	21.56	21.56	22.5	2
1.4	64QAM	1	0	21.52	21.63	21.59	22.5	2
1.4	64QAM	1	3	21.57	21.70	21.77		
1.4	64QAM	1	5	21.54	21.61	21.69		
1.4	64QAM	3	0	21.51	21.63	21.58		
1.4	64QAM	3	1	21.57	21.66	21.70		
1.4	64QAM	3	3	21.54	21.60	21.69		
1.4	64QAM	6	0	20.47	20.51	20.52	21.5	3

<LTE Band 13>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					23230			
Frequency (MHz)					782			
10	QPSK	1	0		23.65		24.5	0
10	QPSK	1	25		23.48			
10	QPSK	1	49		23.04			
10	QPSK	25	0		22.60		23.5	1
10	QPSK	25	12		22.58			
10	QPSK	25	25		22.51			
10	QPSK	50	0		22.53			
10	16QAM	1	0		22.80		23.5	1
10	16QAM	1	25		22.77			
10	16QAM	1	49		22.31			
10	16QAM	25	0		21.67		22.5	2
10	16QAM	25	12		21.63			
10	16QAM	25	25		21.56			
10	16QAM	50	0		21.62			
10	64QAM	1	0		21.72		22.5	2
10	64QAM	1	25		21.70			
10	64QAM	1	49		21.51			
10	64QAM	25	0		20.66		21.5	3
10	64QAM	25	12		20.64			
10	64QAM	25	25		20.58			
10	64QAM	50	0		20.62			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	23.52	23.59	23.64	24.5	0
5	QPSK	1	12	23.46	23.51	23.61		
5	QPSK	1	24	23.53	23.50	23.63		
5	QPSK	12	0	22.57	22.61	22.66	23.5	1
5	QPSK	12	7	22.63	22.61	22.66		
5	QPSK	12	13	22.59	22.58	22.74		
5	QPSK	25	0	22.61	22.57	22.64		
5	16QAM	1	0	22.84	22.90	22.95	23.5	1
5	16QAM	1	12	22.78	22.82	23.05		
5	16QAM	1	24	22.84	22.77	22.99		
5	16QAM	12	0	21.64	21.70	21.73	22.5	2
5	16QAM	12	7	21.73	21.68	21.75		
5	16QAM	12	13	21.68	21.64	21.81		
5	16QAM	25	0	21.69	21.64	21.73		
5	64QAM	1	0	21.76	21.82	21.87	22.5	2
5	64QAM	1	12	21.71	21.73	21.95		
5	64QAM	1	24	21.73	21.70	21.87		
5	64QAM	12	0	20.67	20.73	20.75	21.5	3
5	64QAM	12	7	20.75	20.70	20.81		
5	64QAM	12	13	20.72	20.69	20.86		
5	64QAM	25	0	20.70	20.65	20.72		

<LTE Band 14>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					23330			
Frequency (MHz)					793			
10	QPSK	1	0		23.60		24.5	0
10	QPSK	1	25		23.38			
10	QPSK	1	49		23.30			
10	QPSK	25	0		22.51		23.5	1
10	QPSK	25	12		22.50			
10	QPSK	25	25		22.42			
10	QPSK	50	0		22.45			
10	16QAM	1	0		22.87		23.5	1
10	16QAM	1	25		22.80			
10	16QAM	1	49		22.60			
10	16QAM	25	0		21.64		22.5	2
10	16QAM	25	12		21.59			
10	16QAM	25	25		21.51			
10	16QAM	50	0		21.58			
10	64QAM	1	0		21.79		22.5	2
10	64QAM	1	25		21.70			
10	64QAM	1	49		21.56			
10	64QAM	25	0		20.62		21.5	3
10	64QAM	25	12		20.60			
10	64QAM	25	25		20.51			
10	64QAM	50	0		20.59			
Channel				23305	23330	23355	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	0	23.53	23.52	23.45	24.5	0
5	QPSK	1	12	23.47	23.44	23.40		
5	QPSK	1	24	23.44	23.40	23.38		
5	QPSK	12	0	22.59	22.54	22.50	23.5	1
5	QPSK	12	7	22.55	22.53	22.49		
5	QPSK	12	13	22.52	22.49	22.43		
5	QPSK	25	0	22.54	22.51	22.45		
5	16QAM	1	0	22.90	22.88	22.85	23.5	1
5	16QAM	1	12	22.86	22.80	22.71		
5	16QAM	1	24	22.82	22.67	22.69		
5	16QAM	12	0	21.69	21.67	21.61	22.5	2
5	16QAM	12	7	21.67	21.63	21.57		
5	16QAM	12	13	21.64	21.57	21.50		
5	16QAM	25	0	21.65	21.60	21.56		
5	64QAM	1	0	21.79	21.81	21.74	22.5	2
5	64QAM	1	12	21.75	21.74	21.59		
5	64QAM	1	24	21.72	21.60	21.60		
5	64QAM	12	0	20.72	20.69	20.65	21.5	3
5	64QAM	12	7	20.72	20.69	20.62		
5	64QAM	12	13	20.68	20.64	20.55		
5	64QAM	25	0	20.63	20.59	20.54		

<LTE Band 17>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	23.71	23.87	23.75	24.5	0
10	QPSK	1	25	23.66	23.75	23.72		
10	QPSK	1	49	23.63	23.61	23.61		
10	QPSK	25	0	22.73	22.77	22.74	23.5	1
10	QPSK	25	12	22.62	22.62	22.61		
10	QPSK	25	25	22.66	22.67	22.66		
10	QPSK	50	0	22.71	22.78	22.76		
10	16QAM	1	0	22.84	22.90	22.91	23.5	1
10	16QAM	1	25	23.10	23.09	23.07		
10	16QAM	1	49	23.21	23.13	23.12		
10	16QAM	25	0	21.79	21.80	21.85	22.5	2
10	16QAM	25	12	21.91	21.86	21.85		
10	16QAM	25	25	21.89	21.83	21.82		
10	16QAM	50	0	21.90	21.86	21.84		
10	64QAM	1	0	21.76	21.84	21.86	22.5	2
10	64QAM	1	25	22.00	22.06	22.04		
10	64QAM	1	49	22.09	22.12	22.09		
10	64QAM	25	0	20.84	20.83	20.86	21.5	3
10	64QAM	25	12	20.93	20.87	20.87		
10	64QAM	25	25	20.91	20.85	20.84		
10	64QAM	50	0	20.90	20.90	20.86		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	23.50	23.65	23.70	24.5	0
5	QPSK	1	12	23.56	23.74	23.77		
5	QPSK	1	24	23.68	23.72	23.78		
5	QPSK	12	0	22.65	22.77	22.71	23.5	1
5	QPSK	12	7	22.73	22.78	22.74		
5	QPSK	12	13	22.70	22.76	22.79		
5	QPSK	25	0	22.72	22.76	22.69		
5	16QAM	1	0	22.89	23.02	23.06	23.5	1
5	16QAM	1	12	22.93	23.11	23.13		
5	16QAM	1	24	23.03	23.09	23.15		
5	16QAM	12	0	21.71	21.85	21.82	22.5	2
5	16QAM	12	7	21.83	21.88	21.80		
5	16QAM	12	13	21.80	21.84	21.87		
5	16QAM	25	0	21.80	21.83	21.78		
5	64QAM	1	0	21.78	21.91	22.00	22.5	2
5	64QAM	1	12	21.84	21.99	22.03		
5	64QAM	1	24	21.96	21.97	22.04		
5	64QAM	12	0	20.77	20.89	20.83	21.5	3
5	64QAM	12	7	20.90	20.93	20.89		
5	64QAM	12	13	20.85	20.88	20.93		
5	64QAM	25	0	20.80	20.83	20.81		

<LTE Band 25>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	23.21	23.46	23.34	24.5	0
20	QPSK	1	49	23.16	23.27	23.33		
20	QPSK	1	99	23.15	23.43	23.42		
20	QPSK	50	0	22.20	22.38	22.54	23.5	1
20	QPSK	50	24	22.17	22.35	22.31		
20	QPSK	50	50	22.14	22.35	22.29		
20	QPSK	100	0	22.30	22.37	22.36		
20	16QAM	1	0	22.45	22.73	23.16	23.5	1
20	16QAM	1	49	22.36	22.54	22.73		
20	16QAM	1	99	22.50	22.76	22.75		
20	16QAM	50	0	21.30	21.45	21.65	22.5	2
20	16QAM	50	24	21.36	21.48	21.39		
20	16QAM	50	50	21.36	21.48	21.35		
20	16QAM	100	0	21.41	21.46	21.47		
20	64QAM	1	0	21.38	21.61	22.03	22.5	2
20	64QAM	1	49	21.32	21.48	21.64		
20	64QAM	1	99	21.46	21.63	21.59		
20	64QAM	50	0	20.29	20.48	20.67	21.5	3
20	64QAM	50	24	20.38	20.46	20.42		
20	64QAM	50	50	20.35	20.50	20.39		
20	64QAM	100	0	20.41	20.49	20.47		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	23.11	23.36	23.31	24.5	0
15	QPSK	1	37	23.09	23.27	23.25		
15	QPSK	1	74	23.20	23.43	23.42		
15	QPSK	36	0	22.17	22.34	22.46	23.5	1
15	QPSK	36	20	22.13	22.38	22.28		
15	QPSK	36	39	22.21	22.39	22.28		
15	QPSK	75	0	22.13	22.37	22.30		
15	16QAM	1	0	22.49	22.75	22.98	23.5	1
15	16QAM	1	37	22.38	22.55	22.48		
15	16QAM	1	74	22.53	22.73	22.78		
15	16QAM	36	0	21.26	21.45	21.55	22.5	2
15	16QAM	36	20	21.24	21.46	21.33		
15	16QAM	36	39	21.32	21.50	21.33		
15	16QAM	75	0	21.21	21.48	21.40		
15	64QAM	1	0	21.36	21.59	21.86	22.5	2
15	64QAM	1	37	21.31	21.50	21.50		
15	64QAM	1	74	21.46	21.64	21.64		
15	64QAM	36	0	20.27	20.46	20.58	21.5	3
15	64QAM	36	20	20.25	20.47	20.37		
15	64QAM	36	39	20.32	20.57	20.36		
15	64QAM	75	0	20.23	20.46	20.44		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	22.90	23.19	23.35	24.5	0
10	QPSK	1	25	22.91	23.15	23.13		
10	QPSK	1	49	22.93	23.25	23.36		
10	QPSK	25	0	22.00	22.20	22.18	23.5	1
10	QPSK	25	12	22.02	22.26	22.18		

10	QPSK	25	25	21.96	22.23	22.23		
10	QPSK	50	0	21.96	22.23	22.22		
10	16QAM	1	0	22.21	22.43	22.77	23.5	1
10	16QAM	1	25	22.23	22.45	22.36		
10	16QAM	1	49	22.22	22.50	22.67		
10	16QAM	25	0	21.09	21.31	21.29	22.5	2
10	16QAM	25	12	21.09	21.36	21.26		
10	16QAM	25	25	21.08	21.30	21.30		
10	16QAM	50	0	21.09	21.35	21.30		
10	64QAM	1	0	21.14	21.38	21.65	22.5	2
10	64QAM	1	25	21.17	21.40	21.27		
10	64QAM	1	49	21.18	21.46	21.56		
10	64QAM	25	0	20.09	20.33	20.28	21.5	3
10	64QAM	25	12	20.12	20.33	20.26		
10	64QAM	25	25	20.05	20.30	20.31		
10	64QAM	50	0	20.08	20.34	20.34		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	22.88	23.24	23.21	24.5	0
5	QPSK	1	12	22.81	23.19	23.24		
5	QPSK	1	24	22.94	23.34	23.38		
5	QPSK	12	0	21.92	22.29	22.22	23.5	1
5	QPSK	12	7	21.94	22.29	22.27		
5	QPSK	12	13	22.02	22.28	22.31		
5	QPSK	25	0	21.97	22.24	22.04		
5	16QAM	1	0	22.21	22.56	22.54	23.5	1
5	16QAM	1	12	22.19	22.54	22.57		
5	16QAM	1	24	22.30	22.61	22.70		
5	16QAM	12	0	21.01	21.40	21.26	22.5	2
5	16QAM	12	7	20.99	21.36	21.32		
5	16QAM	12	13	21.10	21.36	21.35		
5	16QAM	25	0	21.08	21.38	20.53		
5	64QAM	1	0	21.13	21.50	21.40	22.5	2
5	64QAM	1	12	21.08	21.39	21.43		
5	64QAM	1	24	21.18	21.53	21.59		
5	64QAM	12	0	20.04	20.45	20.32	21.5	3
5	64QAM	12	7	20.04	20.40	20.36		
5	64QAM	12	13	20.12	20.36	20.39		
5	64QAM	25	0	20.06	20.35	20.53		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	22.89	23.26	23.30	24.5	0
3	QPSK	1	8	22.88	23.24	23.36		
3	QPSK	1	14	22.87	23.23	23.43		
3	QPSK	8	0	21.93	22.32	22.31	23.5	1
3	QPSK	8	4	21.96	22.32	22.40		
3	QPSK	8	7	21.94	22.27	22.38		
3	QPSK	15	0	21.93	22.31	22.35		
3	16QAM	1	0	22.20	22.57	22.60	23.5	1
3	16QAM	1	8	22.18	22.55	22.68		
3	16QAM	1	14	22.19	22.48	22.73		
3	16QAM	8	0	21.04	21.46	21.40	22.5	2
3	16QAM	8	4	21.04	21.44	21.48		
3	16QAM	8	7	20.99	21.44	21.50		
3	16QAM	15	0	21.01	21.38	21.42		
3	64QAM	1	0	21.11	21.47	21.50	22.5	2

3	64QAM	1	8	21.09	21.49	21.56		
3	64QAM	1	14	21.06	21.43	21.64		
3	64QAM	8	0	20.05	20.47	20.38	21.5	3
3	64QAM	8	4	20.06	20.44	20.48		
3	64QAM	8	7	20.03	20.45	20.51		
3	64QAM	15	0	20.00	20.39	20.42		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	22.82	23.19	23.29	24.5	0
1.4	QPSK	1	3	22.86	23.24	23.42		
1.4	QPSK	1	5	22.80	23.15	23.34		
1.4	QPSK	3	0	22.82	23.21	23.35		
1.4	QPSK	3	1	22.87	23.25	23.39		
1.4	QPSK	3	3	22.85	23.22	23.38		
1.4	QPSK	6	0	21.83	22.24	22.32	23.5	1
1.4	16QAM	1	0	22.08	22.48	22.63	23.5	1
1.4	16QAM	1	3	22.18	22.53	22.75		
1.4	16QAM	1	5	22.11	22.46	22.70		
1.4	16QAM	3	0	21.93	22.29	22.42		
1.4	16QAM	3	1	21.97	22.35	22.47		
1.4	16QAM	3	3	21.92	22.26	22.45		
1.4	16QAM	6	0	20.98	21.40	21.47	22.5	2
1.4	64QAM	1	0	21.06	21.43	21.51	22.5	2
1.4	64QAM	1	3	21.12	21.49	21.66		
1.4	64QAM	1	5	21.03	21.42	21.57		
1.4	64QAM	3	0	21.01	21.40	21.54		
1.4	64QAM	3	1	21.06	21.47	21.58		
1.4	64QAM	3	3	21.01	21.39	21.57		
1.4	64QAM	6	0	19.92	20.32	20.40	21.5	3

<LTE Band 26>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	23.41	23.45	23.37	24.5	0
15	QPSK	1	37	23.34	23.29	23.31		
15	QPSK	1	74	23.23	23.28	23.33		
15	QPSK	36	0	22.43	22.27	22.33	23.5	1
15	QPSK	36	20	22.37	22.24	22.38		
15	QPSK	36	39	22.28	22.24	22.30		
15	QPSK	75	0	22.36	22.18	22.36		
15	16QAM	1	0	22.82	22.64	22.70	23.5	1
15	16QAM	1	37	22.71	22.62	22.62		
15	16QAM	1	74	22.57	22.63	22.67		
15	16QAM	36	0	21.51	21.34	21.39	22.5	2
15	16QAM	36	20	21.48	21.32	21.47		
15	16QAM	36	39	21.40	21.31	21.36		
15	16QAM	75	0	21.44	21.30	21.44		
15	64QAM	1	0	21.70	21.58	21.64	22.5	2
15	64QAM	1	37	21.61	21.54	21.54		
15	64QAM	1	74	21.49	21.53	21.58		
15	64QAM	36	0	20.53	20.39	20.45	21.5	3
15	64QAM	36	20	20.51	20.35	20.47		
15	64QAM	36	39	20.42	20.38	20.37		
15	64QAM	75	0	20.43	20.28	20.44		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	23.32	23.13	23.27	24.5	0
10	QPSK	1	25	23.24	23.14	23.27		
10	QPSK	1	49	23.20	23.19	23.22		
10	QPSK	25	0	22.29	22.15	22.27	23.5	1
10	QPSK	25	12	22.26	22.10	22.25		
10	QPSK	25	25	22.22	22.19	22.31		
10	QPSK	50	0	22.25	22.12	22.24		
10	16QAM	1	0	22.68	22.50	22.65	23.5	1
10	16QAM	1	25	22.60	22.52	22.61		
10	16QAM	1	49	22.56	22.55	22.58		
10	16QAM	25	0	21.41	21.22	21.35	22.5	2
10	16QAM	25	12	21.38	21.20	21.31		
10	16QAM	25	25	21.33	21.25	21.39		
10	16QAM	50	0	21.37	21.18	21.30		
10	64QAM	1	0	21.58	21.41	21.55	22.5	2
10	64QAM	1	25	21.52	21.42	21.50		
10	64QAM	1	49	21.48	21.47	21.49		
10	64QAM	25	0	20.40	20.23	20.34	21.5	3
10	64QAM	25	12	20.40	20.23	20.31		
10	64QAM	25	25	20.35	20.24	20.40		
10	64QAM	50	0	20.38	20.18	20.31		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	23.34	23.14	23.32	24.5	0
5	QPSK	1	12	23.29	23.16	23.29		
5	QPSK	1	24	23.28	23.16	23.27		
5	QPSK	12	0	22.34	22.12	22.37	23.5	1
5	QPSK	12	7	22.36	22.25	22.35		

5	QPSK	12	13	22.29	22.21	22.35		
5	QPSK	25	0	22.31	22.10	22.36		
5	16QAM	1	0	22.69	22.50	22.64	23.5	1
5	16QAM	1	12	22.65	22.52	22.60		
5	16QAM	1	24	22.67	22.54	22.60		
5	16QAM	12	0	21.44	21.24	21.45	22.5	2
5	16QAM	12	7	21.45	21.31	21.47		
5	16QAM	12	13	21.41	21.29	21.43		
5	16QAM	25	0	21.42	21.19	21.44		
5	64QAM	1	0	21.59	21.41	21.57	22.5	2
5	64QAM	1	12	21.51	21.41	21.52		
5	64QAM	1	24	21.53	21.45	21.51		
5	64QAM	12	0	20.48	20.26	20.49	21.5	3
5	64QAM	12	7	20.47	20.39	20.49		
5	64QAM	12	13	20.44	20.33	20.46		
5	64QAM	25	0	20.42	20.23	20.45		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	23.40	23.29	23.41	24.5	0
3	QPSK	1	8	23.43	23.25	23.36		
3	QPSK	1	14	23.42	23.25	23.36		
3	QPSK	8	0	22.47	22.32	22.45	23.5	1
3	QPSK	8	4	22.46	22.34	22.44		
3	QPSK	8	7	22.44	22.32	22.41		
3	QPSK	15	0	22.45	22.31	22.44		
3	16QAM	1	0	22.81	22.67	22.70	23.5	1
3	16QAM	1	8	22.83	22.63	22.72		
3	16QAM	1	14	22.75	22.63	22.70		
3	16QAM	8	0	21.60	21.45	21.57	22.5	2
3	16QAM	8	4	21.59	21.47	21.61		
3	16QAM	8	7	21.59	21.45	21.56		
3	16QAM	15	0	21.55	21.40	21.55		
3	64QAM	1	0	21.69	21.55	21.66	22.5	2
3	64QAM	1	8	21.69	21.52	21.60		
3	64QAM	1	14	21.71	21.52	21.61		
3	64QAM	8	0	20.59	20.43	20.54	21.5	3
3	64QAM	8	4	20.60	20.46	20.59		
3	64QAM	8	7	20.55	20.44	20.54		
3	64QAM	15	0	20.56	20.41	20.54		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	23.37	23.22	23.30	24.5	0
1.4	QPSK	1	3	23.44	23.27	23.38		
1.4	QPSK	1	5	23.37	23.21	23.28		
1.4	QPSK	3	0	23.35	23.25	23.35		
1.4	QPSK	3	1	23.44	23.29	23.36		
1.4	QPSK	3	3	23.41	23.25	23.33		
1.4	QPSK	6	0	22.42	22.26	22.37	23.5	1
1.4	16QAM	1	0	22.73	22.58	22.64	23.5	1
1.4	16QAM	1	3	22.82	22.65	22.73		
1.4	16QAM	1	5	22.76	22.55	22.64		
1.4	16QAM	3	0	22.56	22.38	22.44		
1.4	16QAM	3	1	22.56	22.40	22.49		
1.4	16QAM	3	3	22.52	22.36	22.44		
1.4	16QAM	6	0	21.59	21.42	21.51	22.5	2
1.4	64QAM	1	0	21.66	21.48	21.58	22.5	2

1.4	64QAM	1	3	21.74	21.57	21.63		
1.4	64QAM	1	5	21.65	21.46	21.55		
1.4	64QAM	3	0	21.63	21.47	21.57		
1.4	64QAM	3	1	21.67	21.52	21.61		
1.4	64QAM	3	3	21.63	21.45	21.54		
1.4	64QAM	6	0	20.51	20.32	20.46	21.5	3

<LTE Band 30>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					27710			
Frequency (MHz)					2310			
10	QPSK	1	0		22.11		23	0
10	QPSK	1	25		22.03			
10	QPSK	1	49		22.02			
10	QPSK	25	0		21.10		22	1
10	QPSK	25	12		21.06			
10	QPSK	25	25		21.05			
10	QPSK	50	0		21.08			
10	16QAM	1	0		21.35		22	1
10	16QAM	1	25		21.30			
10	16QAM	1	49		21.33			
10	16QAM	25	0		20.19		21	2
10	16QAM	25	12		20.16			
10	16QAM	25	25		20.10			
10	16QAM	50	0		20.18			
10	64QAM	1	0		20.24		21	2
10	64QAM	1	25		20.25			
10	64QAM	1	49		20.28			
10	64QAM	25	0		19.18		20	3
10	64QAM	25	12		19.17			
10	64QAM	25	25		19.13			
10	64QAM	50	0		19.17			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	22.02	22.09	22.08	23	0
5	QPSK	1	12	21.97	22.04	22.06		
5	QPSK	1	24	21.96	22.05	22.09		
5	QPSK	12	0	20.98	21.11	21.15	22	1
5	QPSK	12	7	21.10	21.11	21.11		
5	QPSK	12	13	21.06	21.07	21.09		
5	QPSK	25	0	21.09	21.08	21.11		
5	16QAM	1	0	21.30	21.42	21.38	22	1
5	16QAM	1	12	21.36	21.33	21.36		
5	16QAM	1	24	21.28	21.32	21.36		
5	16QAM	12	0	20.06	20.21	20.21	21	2
5	16QAM	12	7	20.18	20.22	20.23		
5	16QAM	12	13	20.15	20.17	20.21		
5	16QAM	25	0	20.16	20.16	20.19		
5	64QAM	1	0	20.25	20.37	20.33	21	2
5	64QAM	1	12	20.28	20.27	20.30		
5	64QAM	1	24	20.28	20.31	20.32		
5	64QAM	12	0	19.12	19.24	19.26	20	3
5	64QAM	12	7	19.24	19.25	19.28		
5	64QAM	12	13	19.20	19.23	19.23		
5	64QAM	25	0	19.16	19.17	19.20		

<LTE Band 66>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	23.62	23.77	23.75	24.5	0
20	QPSK	1	49	23.36	23.59	23.47		
20	QPSK	1	99	23.44	23.55	23.45		
20	QPSK	50	0	22.56	22.74	22.64	23.5	1
20	QPSK	50	24	22.56	22.64	22.50		
20	QPSK	50	50	22.49	22.56	22.44		
20	QPSK	100	0	22.58	22.66	22.55		
20	16QAM	1	0	23.02	23.09	23.17	23.5	1
20	16QAM	1	49	22.65	22.92	22.77		
20	16QAM	1	99	22.81	23.01	22.82		
20	16QAM	50	0	21.69	21.83	21.76	22.5	2
20	16QAM	50	24	21.68	21.71	21.65		
20	16QAM	50	50	21.59	21.68	21.55		
20	16QAM	100	0	21.69	21.74	21.61		
20	64QAM	1	0	21.92	21.99	22.05	22.5	2
20	64QAM	1	49	21.56	21.82	21.69		
20	64QAM	1	99	21.69	21.93	21.74		
20	64QAM	50	0	20.70	20.87	20.75	21.5	3
20	64QAM	50	24	20.68	20.75	20.64		
20	64QAM	50	50	20.59	20.70	20.56		
20	64QAM	100	0	20.71	20.78	20.67		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	23.59	23.70	23.69	24.5	0
15	QPSK	1	37	23.38	23.53	23.52		
15	QPSK	1	74	23.49	23.55	23.48		
15	QPSK	36	0	22.56	22.69	22.57	23.5	1
15	QPSK	36	20	22.45	22.58	22.47		
15	QPSK	36	39	22.49	22.55	22.52		
15	QPSK	75	0	22.48	22.62	22.49		
15	16QAM	1	0	22.98	23.02	23.07	23.5	1
15	16QAM	1	37	22.68	22.88	22.87		
15	16QAM	1	74	22.85	22.93	22.82		
15	16QAM	36	0	21.65	21.78	21.68	22.5	2
15	16QAM	36	20	21.54	21.72	21.62		
15	16QAM	36	39	21.61	21.67	21.62		
15	16QAM	75	0	21.57	21.73	21.60		
15	64QAM	1	0	21.92	21.99	22.03	22.5	2
15	64QAM	1	37	21.59	21.86	21.77		
15	64QAM	1	74	21.77	21.87	21.78		
15	64QAM	36	0	20.68	20.83	20.72	21.5	3
15	64QAM	36	20	20.57	20.75	20.61		
15	64QAM	36	39	20.65	20.72	20.62		
15	64QAM	75	0	20.58	20.73	20.58		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	23.49	23.59	23.55	24.5	0
10	QPSK	1	25	23.42	23.53	23.49		
10	QPSK	1	49	23.39	23.52	23.45		
10	QPSK	25	0	22.54	22.66	22.50	23.5	1
10	QPSK	25	12	22.49	22.59	22.55		

10	QPSK	25	25	22.41	22.57	22.49		
10	QPSK	50	0	22.46	22.61	22.47		
10	16QAM	1	0	22.88	22.92	22.92	23.5	1
10	16QAM	1	25	22.72	22.91	22.85		
10	16QAM	1	49	22.74	22.89	22.80		
10	16QAM	25	0	21.64	21.76	21.61	22.5	2
10	16QAM	25	12	21.58	21.71	21.63		
10	16QAM	25	25	21.51	21.67	21.61		
10	16QAM	50	0	21.58	21.71	21.55		
10	64QAM	1	0	21.73	21.80	21.82	22.5	2
10	64QAM	1	25	21.61	21.82	21.73		
10	64QAM	1	49	21.60	21.76	21.71		
10	64QAM	25	0	20.63	20.75	20.61	21.5	3
10	64QAM	25	12	20.58	20.74	20.66		
10	64QAM	25	25	20.53	20.68	20.60		
10	64QAM	50	0	20.59	20.72	20.58		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	23.35	23.53	23.50	24.5	0
5	QPSK	1	12	23.29	23.48	23.40		
5	QPSK	1	24	23.34	23.44	23.39		
5	QPSK	12	0	22.34	22.52	22.47	23.5	1
5	QPSK	12	7	22.32	22.53	22.46		
5	QPSK	12	13	22.37	22.43	22.42		
5	QPSK	25	0	22.39	22.51	22.43		
5	16QAM	1	0	22.65	22.87	22.83	23.5	1
5	16QAM	1	12	22.55	22.82	22.75		
5	16QAM	1	24	22.63	22.82	22.72		
5	16QAM	12	0	21.41	21.62	21.59	22.5	2
5	16QAM	12	7	21.43	21.63	21.56		
5	16QAM	12	13	21.46	21.58	21.55		
5	16QAM	25	0	21.48	21.59	21.54		
5	64QAM	1	0	21.64	21.80	21.76	22.5	2
5	64QAM	1	12	21.52	21.77	21.70		
5	64QAM	1	24	21.58	21.73	21.63		
5	64QAM	12	0	20.48	20.68	20.63	21.5	3
5	64QAM	12	7	20.47	20.68	20.62		
5	64QAM	12	13	20.51	20.64	20.57		
5	64QAM	25	0	20.49	20.60	20.56		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	23.27	23.47	23.42	24.5	0
3	QPSK	1	8	23.27	23.44	23.39		
3	QPSK	1	14	23.23	23.40	23.37		
3	QPSK	8	0	22.33	22.46	22.42	23.5	1
3	QPSK	8	4	22.32	22.51	22.42		
3	QPSK	8	7	22.28	22.45	22.39		
3	QPSK	15	0	22.28	22.47	22.43		
3	16QAM	1	0	22.53	22.84	22.73	23.5	1
3	16QAM	1	8	22.50	22.80	22.74		
3	16QAM	1	14	22.49	22.77	22.69		
3	16QAM	8	0	21.43	21.64	21.56	22.5	2
3	16QAM	8	4	21.43	21.65	21.55		
3	16QAM	8	7	21.38	21.61	21.55		
3	16QAM	15	0	21.39	21.58	21.53		
3	64QAM	1	0	21.51	21.73	21.65	22.5	2

3	64QAM	1	8	21.46	21.72	21.65		
3	64QAM	1	14	21.44	21.71	21.66		
3	64QAM	8	0	20.44	20.63	20.59	21.5	3
3	64QAM	8	4	20.43	20.64	20.60		
3	64QAM	8	7	20.41	20.61	20.57		
3	64QAM	15	0	20.41	20.62	20.54		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	23.21	23.38	23.32	24.5	0
1.4	QPSK	1	3	23.29	23.46	23.38		
1.4	QPSK	1	5	23.19	23.37	23.29		
1.4	QPSK	3	0	23.25	23.40	23.38		
1.4	QPSK	3	1	23.27	23.48	23.39		
1.4	QPSK	3	3	23.24	23.43	23.36		
1.4	QPSK	6	0	22.24	22.40	22.35	23.5	1
1.4	16QAM	1	0	22.46	22.73	22.68	23.5	1
1.4	16QAM	1	3	22.63	22.82	22.73		
1.4	16QAM	1	5	22.46	22.74	22.66		
1.4	16QAM	3	0	22.36	22.52	22.45		
1.4	16QAM	3	1	22.35	22.55	22.48		
1.4	16QAM	3	3	22.27	22.51	22.44		
1.4	16QAM	6	0	21.40	21.60	21.50	22.5	2
1.4	64QAM	1	0	21.46	21.66	21.60	22.5	2
1.4	64QAM	1	3	21.54	21.71	21.67		
1.4	64QAM	1	5	21.39	21.64	21.58		
1.4	64QAM	3	0	21.42	21.67	21.61		
1.4	64QAM	3	1	21.50	21.70	21.63		
1.4	64QAM	3	3	21.47	21.66	21.60		
1.4	64QAM	6	0	20.34	20.51	20.47	21.5	3

<Reduced Power Mode>

<LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	20.48	20.66	21.25	22	0
20	QPSK	1	49	20.37	20.63	20.93		
20	QPSK	1	99	20.37	20.60	20.91		
20	QPSK	50	0	19.53	19.77	20.09	21	1
20	QPSK	50	24	19.50	19.70	19.98		
20	QPSK	50	50	19.52	19.61	19.89		
20	QPSK	100	0	19.50	19.71	19.99		
20	16QAM	1	0	19.89	20.04	20.51	21	1
20	16QAM	1	49	19.72	19.94	20.27		
20	16QAM	1	99	19.66	19.98	20.31		
20	16QAM	50	0	18.64	18.89	19.18	20	2
20	16QAM	50	24	18.62	18.80	19.10		
20	16QAM	50	50	18.61	18.70	19.01		
20	16QAM	100	0	18.61	18.80	19.07		
20	64QAM	1	0	18.78	18.95	19.46	20	2
20	64QAM	1	49	18.61	18.87	19.23		
20	64QAM	1	99	18.57	18.87	19.23		
20	64QAM	50	0	17.68	17.92	18.21	19	3
20	64QAM	50	24	17.64	17.80	18.13		
20	64QAM	50	50	17.64	17.71	18.02		
20	64QAM	100	0	17.63	17.84	18.10		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	20.43	20.81	21.13	22	0
15	QPSK	1	37	20.30	20.71	20.95		
15	QPSK	1	74	20.34	20.65	20.96		
15	QPSK	36	0	19.46	19.79	20.01	21	1
15	QPSK	36	20	19.37	19.72	19.92		
15	QPSK	36	39	19.39	19.65	19.96		
15	QPSK	75	0	19.34	19.73	19.94		
15	16QAM	1	0	19.82	20.15	20.37	21	1
15	16QAM	1	37	19.64	20.05	20.30		
15	16QAM	1	74	19.68	19.96	20.20		
15	16QAM	36	0	18.55	18.90	18.99	20	2
15	16QAM	36	20	18.47	18.85	18.93		
15	16QAM	36	39	18.49	18.79	19.09		
15	16QAM	75	0	18.43	18.85	18.92		
15	64QAM	1	0	18.71	19.06	19.31	20	2
15	64QAM	1	37	18.57	18.96	19.24		
15	64QAM	1	74	18.57	18.90	19.18		
15	64QAM	36	0	17.59	17.94	18.02	19	3
15	64QAM	36	20	17.51	17.90	18.09		
15	64QAM	36	39	17.52	17.81	18.05		
15	64QAM	75	0	17.45	17.86	17.94		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	20.33	20.69	20.97	22	0
10	QPSK	1	25	20.34	20.68	20.94		
10	QPSK	1	49	20.28	20.61	20.89		
10	QPSK	25	0	19.41	19.76	19.96	21	1

10	QPSK	25	12	19.37	19.75	20.01		
10	QPSK	25	25	19.29	19.65	19.94		
10	QPSK	50	0	19.38	19.72	19.90		
10	16QAM	1	0	19.67	20.03	20.29		
10	16QAM	1	25	19.65	20.00	20.31	21	1
10	16QAM	1	49	19.61	19.92	20.25		
10	16QAM	25	0	18.52	18.84	19.07		
10	16QAM	25	12	18.48	18.82	19.10	20	2
10	16QAM	25	25	18.41	18.76	19.03		
10	16QAM	50	0	18.45	18.81	19.03		
10	64QAM	1	0	18.60	18.92	19.20		
10	64QAM	1	25	18.61	18.92	19.19	20	2
10	64QAM	1	49	18.52	18.86	19.16		
10	64QAM	25	0	17.53	17.89	18.06		
10	64QAM	25	12	17.50	17.83	18.10	19	3
10	64QAM	25	25	17.41	17.78	18.05		
10	64QAM	50	0	17.47	17.81	18.01		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	20.27	20.77	21.00		
5	QPSK	1	12	20.20	20.69	20.89	22	0
5	QPSK	1	24	20.17	20.66	20.90		
5	QPSK	12	0	19.31	19.73	19.97		
5	QPSK	12	7	19.27	19.68	19.96	21	1
5	QPSK	12	13	19.25	19.66	19.94		
5	QPSK	25	0	19.28	19.69	19.96		
5	16QAM	1	0	19.65	20.03	20.36		
5	16QAM	1	12	19.54	20.00	20.27	21	1
5	16QAM	1	24	19.47	19.94	20.25		
5	16QAM	12	0	18.43	18.84	19.06		
5	16QAM	12	7	18.38	18.80	19.09	20	2
5	16QAM	12	13	18.34	18.79	19.03		
5	16QAM	25	0	18.38	18.79	19.06		
5	64QAM	1	0	18.58	19.01	19.29		
5	64QAM	1	12	18.49	18.92	19.20	20	2
5	64QAM	1	24	18.43	18.88	19.18		
5	64QAM	12	0	17.46	17.91	18.14		
5	64QAM	12	7	17.44	17.85	18.14	19	3
5	64QAM	12	13	17.39	17.84	18.09		
5	64QAM	25	0	17.36	17.81	18.06		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	20.27	20.77	20.96		
3	QPSK	1	8	20.23	20.72	20.93	22	0
3	QPSK	1	14	20.20	20.69	20.90		
3	QPSK	8	0	19.29	19.71	19.96		
3	QPSK	8	4	19.34	19.72	19.99	21	1
3	QPSK	8	7	19.30	19.68	19.93		
3	QPSK	15	0	19.30	19.70	19.95		
3	16QAM	1	0	19.63	20.03	20.30		
3	16QAM	1	8	19.61	20.04	20.27	21	1
3	16QAM	1	14	19.57	19.98	20.25		
3	16QAM	8	0	18.44	18.86	19.11		
3	16QAM	8	4	18.46	18.86	19.12	20	2
3	16QAM	8	7	18.45	18.81	19.09		
3	16QAM	15	0	18.40	18.80	19.07		

3	64QAM	1	0	18.54	18.99	19.22	20	2
3	64QAM	1	8	18.53	18.96	19.21		
3	64QAM	1	14	18.44	18.92	19.16		
3	64QAM	8	0	17.46	17.87	18.11	19	3
3	64QAM	8	4	17.48	17.88	18.15		
3	64QAM	8	7	17.44	17.86	18.08		
3	64QAM	15	0	17.42	17.82	18.07		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	20.83	20.66	20.86	22	0
1.4	QPSK	1	3	20.89	20.73	20.92		
1.4	QPSK	1	5	20.79	20.64	20.82		
1.4	QPSK	3	0	20.88	20.69	20.91		
1.4	QPSK	3	1	20.89	20.72	20.94		
1.4	QPSK	3	3	20.74	20.67	20.91		
1.4	QPSK	6	0	19.73	19.64	19.88	21	1
1.4	16QAM	1	0	20.04	19.94	20.23	21	1
1.4	16QAM	1	3	20.11	19.99	20.29		
1.4	16QAM	1	5	20.03	19.93	20.19		
1.4	16QAM	3	0	19.82	19.73	20.01		
1.4	16QAM	3	1	19.88	19.79	20.03		
1.4	16QAM	3	3	19.80	19.72	19.99		
1.4	16QAM	6	0	18.89	18.81	19.04	20	2
1.4	64QAM	1	0	18.99	18.93	19.15	20	2
1.4	64QAM	1	3	19.04	18.94	19.20		
1.4	64QAM	1	5	18.98	18.87	19.12		
1.4	64QAM	3	0	18.96	18.91	19.13		
1.4	64QAM	3	1	19.02	18.93	19.17		
1.4	64QAM	3	3	18.95	18.85	19.11		
1.4	64QAM	6	0	17.84	17.76	17.99	19	3

<LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	19.46	19.72	19.84	20.5	0
20	QPSK	1	49	19.41	19.60	19.46		
20	QPSK	1	99	19.53	19.46	19.25		
20	QPSK	50	0	18.72	18.82	18.76	19.5	1
20	QPSK	50	24	18.50	18.70	18.55		
20	QPSK	50	50	18.61	18.62	18.49		
20	QPSK	100	0	18.52	18.73	18.56		
20	16QAM	1	0	18.81	19.02	19.20	19.5	1
20	16QAM	1	49	18.74	18.97	18.83		
20	16QAM	1	99	18.78	18.83	18.69		
20	16QAM	50	0	17.61	17.91	17.83	18.5	2
20	16QAM	50	24	17.62	17.82	17.67		
20	16QAM	50	50	17.73	17.74	17.60		
20	16QAM	100	0	17.70	17.80	17.65		
20	64QAM	1	0	17.73	17.96	18.09	18.5	2
20	64QAM	1	49	17.66	17.85	17.75		
20	64QAM	1	99	17.81	17.73	17.60		
20	64QAM	50	0	16.72	16.92	16.83	17.5	3
20	64QAM	50	24	16.71	16.80	16.66		
20	64QAM	50	50	16.79	16.72	16.58		
20	64QAM	100	0	16.72	16.81	16.66		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	19.47	19.75	19.67	20.5	0
15	QPSK	1	37	19.37	19.58	19.41		
15	QPSK	1	74	19.56	19.46	19.29		
15	QPSK	36	0	18.55	18.74	18.57	19.5	1
15	QPSK	36	20	18.56	18.67	18.52		
15	QPSK	36	39	18.62	18.60	18.43		
15	QPSK	75	0	18.57	18.66	18.50		
15	16QAM	1	0	18.86	19.00	19.03	19.5	1
15	16QAM	1	37	18.73	18.93	18.75		
15	16QAM	1	74	18.88	18.84	18.63		
15	16QAM	36	0	17.67	17.82	17.66	18.5	2
15	16QAM	36	20	17.68	17.77	17.62		
15	16QAM	36	39	17.72	17.67	17.55		
15	16QAM	75	0	17.67	17.76	17.59		
15	64QAM	1	0	17.76	17.94	17.99	18.5	2
15	64QAM	1	37	17.66	17.85	17.73		
15	64QAM	1	74	17.75	17.78	17.62		
15	64QAM	36	0	16.71	16.87	16.68	17.5	3
15	64QAM	36	20	16.70	16.78	16.62		
15	64QAM	36	39	16.72	16.70	16.53		
15	64QAM	75	0	16.69	16.78	16.61		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	19.37	19.59	19.51	20.5	0
10	QPSK	1	25	19.32	19.59	19.28		
10	QPSK	1	49	19.45	19.51	19.21		
10	QPSK	25	0	18.43	18.72	18.52	19.5	1
10	QPSK	25	12	18.50	18.64	18.50		

10	QPSK	25	25	18.51	18.60	18.31		
10	QPSK	50	0	18.47	18.64	18.46		
10	16QAM	1	0	18.71	18.86	18.85	19.5	1
10	16QAM	1	25	18.68	18.94	18.65		
10	16QAM	1	49	18.81	18.89	18.55		
10	16QAM	25	0	17.50	17.76	17.61	18.5	2
10	16QAM	25	12	17.56	17.75	17.59		
10	16QAM	25	25	17.60	17.66	17.41		
10	16QAM	50	0	17.56	17.74	17.57		
10	64QAM	1	0	17.61	17.85	17.80	18.5	2
10	64QAM	1	25	17.54	17.86	17.57		
10	64QAM	1	49	17.68	17.80	17.50		
10	64QAM	25	0	16.50	16.78	16.60	17.5	3
10	64QAM	25	12	16.61	16.77	16.57		
10	64QAM	25	25	16.65	16.69	16.43		
10	64QAM	50	0	16.59	16.77	16.56		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	19.37	19.73	19.46	20.5	0
5	QPSK	1	12	19.36	19.66	19.36		
5	QPSK	1	24	19.34	19.62	19.34		
5	QPSK	12	0	18.41	18.70	18.47	19.5	1
5	QPSK	12	7	18.44	18.72	18.44		
5	QPSK	12	13	18.38	18.65	18.39		
5	QPSK	25	0	18.41	18.69	18.47		
5	16QAM	1	0	18.69	19.09	18.79	19.5	1
5	16QAM	1	12	18.71	19.01	18.69		
5	16QAM	1	24	18.68	18.96	18.71		
5	16QAM	12	0	17.55	17.82	17.56	18.5	2
5	16QAM	12	7	17.51	17.81	17.53		
5	16QAM	12	13	17.49	17.76	17.49		
5	16QAM	25	0	17.47	17.78	17.51		
5	64QAM	1	0	17.62	18.00	17.71	18.5	2
5	64QAM	1	12	17.62	17.96	17.44		
5	64QAM	1	24	17.59	17.90	17.62		
5	64QAM	12	0	16.57	16.84	16.59	17.5	3
5	64QAM	12	7	16.58	16.85	16.57		
5	64QAM	12	13	16.50	16.79	16.55		
5	64QAM	25	0	16.49	16.77	16.54		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	19.30	19.68	19.43	20.5	0
3	QPSK	1	8	19.29	19.65	19.36		
3	QPSK	1	14	19.34	19.62	19.34		
3	QPSK	8	0	18.36	18.69	18.44	19.5	1
3	QPSK	8	4	18.45	18.73	18.42		
3	QPSK	8	7	18.38	18.69	18.43		
3	QPSK	15	0	18.37	18.70	18.42		
3	16QAM	1	0	18.68	19.02	18.74	19.5	1
3	16QAM	1	8	18.63	18.99	18.76		
3	16QAM	1	14	18.70	18.94	18.68		
3	16QAM	8	0	17.47	17.84	17.57	18.5	2
3	16QAM	8	4	17.58	17.87	17.59		
3	16QAM	8	7	17.58	17.83	17.56		
3	16QAM	15	0	17.51	17.79	17.53		
3	64QAM	1	0	17.57	17.96	17.69	18.5	2

3	64QAM	1	8	17.57	17.95	17.65		
3	64QAM	1	14	17.62	17.92	17.62		
3	64QAM	8	0	16.49	16.80	16.38	17.5	3
3	64QAM	8	4	16.57	16.85	16.78		
3	64QAM	8	7	16.54	16.81	16.56		
3	64QAM	15	0	16.50	16.79	16.52		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	19.20	19.71	19.43	20.5	0
1.4	QPSK	1	3	19.36	19.79	19.51		
1.4	QPSK	1	5	19.03	19.69	19.41		
1.4	QPSK	3	0	19.40	19.78	19.49		
1.4	QPSK	3	1	19.44	19.77	19.52		
1.4	QPSK	3	3	19.40	19.76	19.47		
1.4	QPSK	6	0	18.38	18.75	18.49	19.5	1
1.4	16QAM	1	0	18.69	19.05	18.78	19.5	1
1.4	16QAM	1	3	18.73	19.10	18.84		
1.4	16QAM	1	5	18.67	19.05	18.76		
1.4	16QAM	3	0	18.49	18.87	18.59		
1.4	16QAM	3	1	18.54	18.90	18.61		
1.4	16QAM	3	3	18.46	18.87	18.57		
1.4	16QAM	6	0	17.53	17.93	17.66	18.5	2
1.4	64QAM	1	0	17.63	18.00	17.70	18.5	2
1.4	64QAM	1	3	17.67	18.01	17.33		
1.4	64QAM	1	5	17.60	17.96	17.34		
1.4	64QAM	3	0	17.61	17.98	17.41		
1.4	64QAM	3	1	17.65	18.02	17.43		
1.4	64QAM	3	3	17.59	17.95	17.38		
1.4	64QAM	6	0	16.49	16.86	16.57	17.5	3

<LTE Band 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	21.64	21.70	21.85	23	0
10	QPSK	1	25	21.61	21.64	21.77		
10	QPSK	1	49	21.60	21.67	21.80		
10	QPSK	25	0	20.78	20.76	20.85	22	1
10	QPSK	25	12	20.72	20.74	20.83		
10	QPSK	25	25	20.75	20.65	20.78		
10	QPSK	50	0	20.81	20.69	20.83		
10	16QAM	1	0	21.01	20.96	21.20	22	1
10	16QAM	1	25	20.99	21.02	21.11		
10	16QAM	1	49	21.11	21.01	21.14		
10	16QAM	25	0	19.83	19.80	19.93	21	2
10	16QAM	25	12	19.91	19.79	19.91		
10	16QAM	25	25	19.83	19.73	19.86		
10	16QAM	50	0	19.87	19.76	19.91		
10	64QAM	1	0	19.93	19.85	20.12	21	2
10	64QAM	1	25	19.92	19.89	20.00		
10	64QAM	1	49	20.03	19.89	20.03		
10	64QAM	25	0	18.83	18.81	18.97	20	3
10	64QAM	25	12	18.93	18.79	18.94		
10	64QAM	25	25	18.84	18.73	18.89		
10	64QAM	50	0	18.89	18.79	18.89		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	21.67	21.72	21.80	23	0
5	QPSK	1	12	21.70	21.65	21.81		
5	QPSK	1	24	21.67	21.71	21.78		
5	QPSK	12	0	20.76	20.78	20.81	22	1
5	QPSK	12	7	20.81	20.72	20.90		
5	QPSK	12	13	20.75	20.71	20.86		
5	QPSK	25	0	20.76	20.69	20.79		
5	16QAM	1	0	21.03	21.05	21.11	22	1
5	16QAM	1	12	21.05	20.93	21.14		
5	16QAM	1	24	21.00	21.01	21.14		
5	16QAM	12	0	19.90	19.85	19.90	21	2
5	16QAM	12	7	19.89	19.81	19.99		
5	16QAM	12	13	19.82	19.81	19.95		
5	16QAM	25	0	19.84	19.80	19.86		
5	64QAM	1	0	19.97	20.00	20.06	21	2
5	64QAM	1	12	19.97	19.94	20.09		
5	64QAM	1	24	19.95	20.00	20.06		
5	64QAM	12	0	18.94	18.90	18.93	20	3
5	64QAM	12	7	18.93	18.88	19.05		
5	64QAM	12	13	18.89	18.86	18.99		
5	64QAM	25	0	18.87	18.84	18.91		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	21.67	21.71	21.84	23	0
3	QPSK	1	8	21.65	21.68	21.80		
3	QPSK	1	14	21.69	21.66	21.78		
3	QPSK	8	0	20.66	20.74	20.89	22	1
3	QPSK	8	4	20.79	20.72	20.89		

3	QPSK	8	7	20.77	20.69	20.86		
3	QPSK	15	0	20.82	20.72	20.85		
3	16QAM	1	0	20.99	21.09	21.19	22	1
3	16QAM	1	8	21.00	20.98	21.18		
3	16QAM	1	14	21.08	20.92	21.12		
3	16QAM	8	0	19.79	19.84	19.98	21	2
3	16QAM	8	4	19.93	19.85	20.00		
3	16QAM	8	7	19.90	19.81	20.00		
3	16QAM	15	0	19.89	19.81	19.98		
3	64QAM	1	0	19.94	19.96	20.09	21	2
3	64QAM	1	8	19.90	19.87	20.07		
3	64QAM	1	14	19.96	19.88	20.06		
3	64QAM	8	0	18.83	18.85	19.01	20	3
3	64QAM	8	4	18.93	18.86	19.02		
3	64QAM	8	7	18.90	18.83	19.00		
3	64QAM	15	0	18.88	18.79	18.95		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	21.64	21.61	21.75	23	0
1.4	QPSK	1	3	21.68	21.70	21.83		
1.4	QPSK	1	5	21.63	21.61	21.73		
1.4	QPSK	3	0	21.66	21.66	21.80		
1.4	QPSK	3	1	21.71	21.70	21.81		
1.4	QPSK	3	3	21.66	21.65	21.81		
1.4	QPSK	6	0	20.64	20.68	20.79	22	1
1.4	16QAM	1	0	20.97	20.88	21.08	22	1
1.4	16QAM	1	3	21.00	20.97	21.14		
1.4	16QAM	1	5	20.95	20.87	21.06		
1.4	16QAM	3	0	20.76	20.70	20.89		
1.4	16QAM	3	1	20.77	20.75	20.92		
1.4	16QAM	3	3	20.75	20.69	20.88		
1.4	16QAM	6	0	19.80	19.80	19.95	21	2
1.4	64QAM	1	0	19.88	19.84	20.01	21	2
1.4	64QAM	1	3	19.93	19.91	20.06		
1.4	64QAM	1	5	19.81	19.81	20.00		
1.4	64QAM	3	0	19.87	19.88	19.99		
1.4	64QAM	3	1	19.92	19.90	20.04		
1.4	64QAM	3	3	19.89	19.85	19.99		
1.4	64QAM	6	0	18.74	18.76	18.89	20	3

<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	18.35	18.15	18.03	19	0
20	QPSK	1	49	17.89	17.96	17.94		
20	QPSK	1	99	17.94	17.95	18.04		
20	QPSK	50	0	17.21	17.10	17.05	18	1
20	QPSK	50	24	17.07	17.06	17.02		
20	QPSK	50	50	17.02	17.00	16.98		
20	QPSK	100	0	17.14	17.03	17.01		
20	16QAM	1	0	17.64	17.47	17.40	18	1
20	16QAM	1	49	17.17	17.26	17.28		
20	16QAM	1	99	17.33	17.29	17.36		
20	16QAM	50	0	16.29	16.19	16.09	17	2
20	16QAM	50	24	16.17	16.18	16.13		
20	16QAM	50	50	16.11	16.10	16.06		
20	16QAM	100	0	16.25	16.14	16.13		
20	64QAM	1	0	16.61	16.39	16.29	17	2
20	64QAM	1	49	16.18	16.15	16.17		
20	64QAM	1	99	16.21	16.17	16.26		
20	64QAM	50	0	15.32	15.20	15.11	16	3
20	64QAM	50	24	15.20	15.15	15.14		
20	64QAM	50	50	15.12	15.09	15.09		
20	64QAM	100	0	15.26	15.13	15.15		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	18.30	18.09	18.05	19	0
15	QPSK	1	37	17.98	17.93	17.91		
15	QPSK	1	74	17.95	17.94	18.01		
15	QPSK	36	0	17.15	17.03	17.00	18	1
15	QPSK	36	20	17.03	17.04	17.03		
15	QPSK	36	39	17.00	16.98	16.95		
15	QPSK	75	0	17.11	17.02	17.00		
15	16QAM	1	0	17.59	17.38	17.43	18	1
15	16QAM	1	37	17.27	17.20	17.22		
15	16QAM	1	74	17.23	17.24	17.31		
15	16QAM	36	0	16.25	16.17	16.10	17	2
15	16QAM	36	20	16.12	16.11	16.10		
15	16QAM	36	39	16.11	16.04	16.05		
15	16QAM	75	0	16.23	16.11	16.07		
15	64QAM	1	0	16.54	16.34	16.31	17	2
15	64QAM	1	37	16.26	16.17	16.17		
15	64QAM	1	74	16.22	16.18	16.24		
15	64QAM	36	0	15.28	15.17	15.15	16	3
15	64QAM	36	20	15.18	15.14	15.13		
15	64QAM	36	39	15.14	15.07	15.05		
15	64QAM	75	0	15.23	15.10	15.09		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	18.25	18.03	17.97	19	0
10	QPSK	1	25	18.09	17.96	18.04		
10	QPSK	1	49	17.85	17.93	18.00		
10	QPSK	25	0	17.12	17.01	16.94	18	1
10	QPSK	25	12	17.13	17.00	16.97		

10	QPSK	25	25	17.02	16.98	16.99		
10	QPSK	50	0	17.14	16.99	16.96		
10	16QAM	1	0	17.56	17.31	17.30	18	1
10	16QAM	1	25	17.43	17.28	17.35		
10	16QAM	1	49	17.16	17.24	17.26		
10	16QAM	25	0	16.24	16.08	16.07	17	2
10	16QAM	25	12	16.25	16.08	16.03		
10	16QAM	25	25	16.11	16.06	16.12		
10	16QAM	50	0	16.20	16.05	16.04		
10	64QAM	1	0	16.48	16.25	16.21	17	2
10	64QAM	1	25	16.33	16.17	16.26		
10	64QAM	1	49	16.09	16.17	16.20		
10	64QAM	25	0	15.22	15.09	15.08	16	3
10	64QAM	25	12	15.26	15.08	15.05		
10	64QAM	25	25	15.10	15.05	15.09		
10	64QAM	50	0	15.23	15.09	15.05		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	18.21	18.01	18.01	19	0
5	QPSK	1	12	18.12	17.97	18.02		
5	QPSK	1	24	18.08	17.94	17.95		
5	QPSK	12	0	17.12	17.00	17.07	18	1
5	QPSK	12	7	17.17	17.01	17.06		
5	QPSK	12	13	17.09	16.96	17.02		
5	QPSK	25	0	17.12	16.98	17.01		
5	16QAM	1	0	17.53	17.25	17.30	18	1
5	16QAM	1	12	17.45	17.22	17.30		
5	16QAM	1	24	17.38	17.21	17.25		
5	16QAM	12	0	16.24	16.08	16.11	17	2
5	16QAM	12	7	16.22	16.09	16.14		
5	16QAM	12	13	16.18	16.03	16.09		
5	16QAM	25	0	16.24	16.06	16.12		
5	64QAM	1	0	16.47	16.23	16.30	17	2
5	64QAM	1	12	16.36	16.16	16.23		
5	64QAM	1	24	16.31	16.18	16.23		
5	64QAM	12	0	15.27	15.15	15.19	16	3
5	64QAM	12	7	15.28	15.12	15.19		
5	64QAM	12	13	15.26	15.12	15.13		
5	64QAM	25	0	15.20	15.06	15.11		

<LTE Band 12>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	21.96	22.09	22.17	23	0
10	QPSK	1	25	21.81	21.76	22.01		
10	QPSK	1	49	21.78	21.92	22.08		
10	QPSK	25	0	20.90	20.87	21.06	22	1
10	QPSK	25	12	20.89	20.85	20.99		
10	QPSK	25	25	20.86	20.81	21.04		
10	QPSK	50	0	20.85	20.81	20.95		
10	16QAM	1	0	21.28	21.26	21.20	22	1
10	16QAM	1	25	21.11	21.03	21.29		
10	16QAM	1	49	21.02	21.22	21.48		
10	16QAM	25	0	19.98	19.94	19.95	21	2
10	16QAM	25	12	19.97	19.92	20.08		
10	16QAM	25	25	19.93	19.89	20.13		
10	16QAM	50	0	19.96	19.88	20.04		
10	64QAM	1	0	20.20	20.11	20.12	21	2
10	64QAM	1	25	20.02	19.97	20.23		
10	64QAM	1	49	19.98	20.16	20.40		
10	64QAM	25	0	18.98	18.92	18.98	20	3
10	64QAM	25	12	18.96	18.93	19.10		
10	64QAM	25	25	18.91	18.87	19.14		
10	64QAM	50	0	18.95	18.94	19.07		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	21.93	21.73	21.97	23	0
5	QPSK	1	12	21.87	21.71	21.99		
5	QPSK	1	24	21.78	21.82	22.12		
5	QPSK	12	0	20.96	20.76	20.99	22	1
5	QPSK	12	7	20.96	20.80	21.03		
5	QPSK	12	13	20.84	20.77	21.05		
5	QPSK	25	0	20.85	20.76	20.98		
5	16QAM	1	0	21.28	21.05	21.19	22	1
5	16QAM	1	12	21.16	20.97	21.26		
5	16QAM	1	24	21.05	21.08	21.39		
5	16QAM	12	0	20.03	19.85	20.08	21	2
5	16QAM	12	7	20.03	19.85	20.08		
5	16QAM	12	13	19.90	19.82	20.13		
5	16QAM	25	0	19.93	19.84	20.08		
5	64QAM	1	0	20.17	19.98	20.18	21	2
5	64QAM	1	12	20.10	19.93	20.23		
5	64QAM	1	24	19.98	20.01	20.29		
5	64QAM	12	0	19.07	18.90	19.14	20	3
5	64QAM	12	7	19.06	18.92	19.10		
5	64QAM	12	13	18.97	18.88	19.16		
5	64QAM	25	0	18.92	18.87	19.06		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	21.94	21.72	22.04	23	0
3	QPSK	1	8	21.89	21.70	22.01		
3	QPSK	1	14	21.88	21.68	22.10		
3	QPSK	8	0	20.92	20.74	21.04	22	1
3	QPSK	8	4	20.96	20.80	21.07		

3	QPSK	8	7	20.94	20.73	21.04		
3	QPSK	15	0	20.92	20.75	21.06		
3	16QAM	1	0	21.22	20.97	21.29	22	1
3	16QAM	1	8	21.18	20.98	21.30		
3	16QAM	1	14	21.12	20.96	21.38		
3	16QAM	8	0	20.07	19.88	20.19	21	2
3	16QAM	8	4	20.09	19.87	20.19		
3	16QAM	8	7	20.07	19.86	20.17		
3	16QAM	15	0	20.03	19.83	20.13		
3	64QAM	1	0	20.13	19.92	20.24	21	2
3	64QAM	1	8	20.13	19.91	20.21		
3	64QAM	1	14	20.11	19.93	20.31		
3	64QAM	8	0	19.03	18.86	19.15	20	3
3	64QAM	8	4	19.09	18.91	19.19		
3	64QAM	8	7	19.03	18.85	19.14		
3	64QAM	15	0	19.02	18.84	19.14		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	21.89	21.64	21.94	23	0
1.4	QPSK	1	3	21.92	21.71	22.12		
1.4	QPSK	1	5	21.84	21.61	22.04		
1.4	QPSK	3	0	21.91	21.68	21.99		
1.4	QPSK	3	1	21.94	21.71	22.09		
1.4	QPSK	3	3	21.91	21.67	22.09		
1.4	QPSK	6	0	20.90	20.70	20.98	22	1
1.4	16QAM	1	0	21.20	20.92	21.22	22	1
1.4	16QAM	1	3	21.22	20.99	21.41		
1.4	16QAM	1	5	21.14	20.88	21.31		
1.4	16QAM	3	0	20.99	20.75	21.06		
1.4	16QAM	3	1	21.04	20.78	21.18		
1.4	16QAM	3	3	21.00	20.73	21.15		
1.4	16QAM	6	0	20.05	19.84	20.13	21	2
1.4	64QAM	1	0	20.10	19.87	20.16	21	2
1.4	64QAM	1	3	20.15	19.91	20.30		
1.4	64QAM	1	5	20.07	19.84	20.21		
1.4	64QAM	3	0	20.11	19.86	20.19		
1.4	64QAM	3	1	20.15	19.91	20.30		
1.4	64QAM	3	3	20.09	19.87	20.28		
1.4	64QAM	6	0	18.99	18.78	19.08	20	3

<LTE Band 13>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					23230			
Frequency (MHz)					782			
10	QPSK	1	0		22.83		23	0
10	QPSK	1	25		22.76			
10	QPSK	1	49		22.75			
10	QPSK	25	0		21.83		22	1
10	QPSK	25	12		21.78			
10	QPSK	25	25		21.73			
10	QPSK	50	0		21.74			
10	16QAM	1	0		21.95		22	1
10	16QAM	1	25		21.92			
10	16QAM	1	49		21.95			
10	16QAM	25	0		20.83		21	2
10	16QAM	25	12		20.79			
10	16QAM	25	25		20.74			
10	16QAM	50	0		20.78			
10	64QAM	1	0		20.93		21	2
10	64QAM	1	25		20.90			
10	64QAM	1	49		20.98			
10	64QAM	25	0		19.84		20	3
10	64QAM	25	12		19.80			
10	64QAM	25	25		19.74			
10	64QAM	50	0		19.79			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	22.78	22.81	22.80	23	0
5	QPSK	1	12	22.72	22.78	22.82		
5	QPSK	1	24	22.78	22.74	22.80		
5	QPSK	12	0	21.78	21.81	21.77	22	1
5	QPSK	12	7	21.86	21.80	21.76		
5	QPSK	12	13	21.83	21.78	21.83		
5	QPSK	25	0	21.84	21.78	21.79		
5	16QAM	1	0	21.89	21.96	21.97	22	1
5	16QAM	1	12	21.85	21.87	21.84		
5	16QAM	1	24	21.88	21.88	21.95		
5	16QAM	12	0	20.89	20.93	20.86	21	2
5	16QAM	12	7	20.94	20.89	20.92		
5	16QAM	12	13	20.91	20.87	20.98		
5	16QAM	25	0	20.93	20.88	20.86		
5	64QAM	1	0	20.82	20.87	20.95	21	2
5	64QAM	1	12	20.80	20.79	21.00		
5	64QAM	1	24	20.86	20.84	20.94		
5	64QAM	12	0	19.94	19.96	19.84	20	3
5	64QAM	12	7	20.00	19.95	19.98		
5	64QAM	12	13	19.97	19.93	19.95		
5	64QAM	25	0	19.92	19.89	19.87		

<LTE Band 14>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					23330			
Frequency (MHz)					793			
10	QPSK	1	0		22.99		23	0
10	QPSK	1	25		22.88			
10	QPSK	1	49		22.87			
10	QPSK	25	0		21.95		22	1
10	QPSK	25	12		21.90			
10	QPSK	25	25		21.85			
10	QPSK	50	0		21.87			
10	16QAM	1	0		21.85		22	1
10	16QAM	1	25		21.94			
10	16QAM	1	49		21.91			
10	16QAM	25	0		20.95		21	2
10	16QAM	25	12		20.93			
10	16QAM	25	25		20.93			
10	16QAM	50	0		20.98			
10	64QAM	1	0		20.95		21	2
10	64QAM	1	25		20.94			
10	64QAM	1	49		20.85			
10	64QAM	25	0		19.95		20	3
10	64QAM	25	12		19.97			
10	64QAM	25	25		19.91			
10	64QAM	50	0		19.99			
Channel				23305	23330	23355	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	0	22.97	22.97	22.93	23	0
5	QPSK	1	12	22.95	22.88	22.86		
5	QPSK	1	24	22.91	22.87	22.84		
5	QPSK	12	0	21.99	21.96	21.93	22	1
5	QPSK	12	7	21.91	21.95	21.91		
5	QPSK	12	13	21.96	21.92	21.88		
5	QPSK	25	0	21.99	21.93	21.88		
5	16QAM	1	0	21.95	21.92	21.97	22	1
5	16QAM	1	12	21.97	21.99	21.94		
5	16QAM	1	24	21.97	21.96	21.93		
5	16QAM	12	0	20.88	20.87	20.84	21	2
5	16QAM	12	7	20.90	20.88	20.84		
5	16QAM	12	13	20.86	20.82	20.79		
5	16QAM	25	0	20.88	20.83	20.79		
5	64QAM	1	0	20.95	20.99	20.99	21	2
5	64QAM	1	12	20.97	20.97	20.91		
5	64QAM	1	24	20.97	20.93	20.87		
5	64QAM	12	0	19.96	19.93	19.87	20	3
5	64QAM	12	7	19.96	19.91	19.87		
5	64QAM	12	13	19.90	19.86	19.82		
5	64QAM	25	0	19.87	19.85	19.81		

<LTE Band 17>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	21.94	22.29	22.03	23	0
10	QPSK	1	25	21.91	22.07	21.99		
10	QPSK	1	49	21.93	22.15	21.93		
10	QPSK	25	0	21.17	21.21	21.20	22	1
10	QPSK	25	12	21.12	21.15	21.18		
10	QPSK	25	25	21.14	21.10	21.10		
10	QPSK	50	0	21.15	21.18	21.12		
10	16QAM	1	0	21.17	21.20	21.21	22	1
10	16QAM	1	25	21.42	21.41	21.40		
10	16QAM	1	49	21.47	21.42	21.42		
10	16QAM	25	0	20.15	20.18	20.27	21	2
10	16QAM	25	12	20.29	20.26	20.29		
10	16QAM	25	25	20.26	20.22	20.20		
10	16QAM	50	0	20.26	20.26	20.23		
10	64QAM	1	0	20.12	20.16	20.16	21	2
10	64QAM	1	25	20.37	20.35	20.32		
10	64QAM	1	49	20.41	20.39	20.38		
10	64QAM	25	0	19.18	19.14	19.28	20	3
10	64QAM	25	12	19.31	19.28	19.25		
10	64QAM	25	25	19.27	19.21	19.21		
10	64QAM	50	0	19.27	19.27	19.25		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	21.82	21.95	22.03	23	0
5	QPSK	1	12	21.91	22.03	22.07		
5	QPSK	1	24	21.97	22.02	22.07		
5	QPSK	12	0	20.98	21.13	21.06	22	1
5	QPSK	12	7	21.08	21.10	21.09		
5	QPSK	12	13	21.07	21.09	21.13		
5	QPSK	25	0	21.04	21.08	21.08		
5	16QAM	1	0	21.19	21.28	21.39	22	1
5	16QAM	1	12	21.24	21.38	21.42		
5	16QAM	1	24	21.30	21.33	21.38		
5	16QAM	12	0	20.06	20.22	20.17	21	2
5	16QAM	12	7	20.15	20.19	20.17		
5	16QAM	12	13	20.11	20.21	20.22		
5	16QAM	25	0	20.13	20.17	20.15		
5	64QAM	1	0	20.07	20.21	20.31	21	2
5	64QAM	1	12	20.12	20.29	20.37		
5	64QAM	1	24	20.22	20.27	20.30		
5	64QAM	12	0	19.09	19.27	19.20	20	3
5	64QAM	12	7	19.23	19.26	19.23		
5	64QAM	12	13	19.18	19.25	19.28		
5	64QAM	25	0	19.16	19.22	19.16		

<LTE Band 25>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	20.02	20.28	20.68	21.5	0
20	QPSK	1	49	19.93	20.16	20.20		
20	QPSK	1	99	19.97	20.27	20.16		
20	QPSK	50	0	19.15	19.23	19.41	20.5	1
20	QPSK	50	24	19.11	19.23	19.37		
20	QPSK	50	50	19.05	19.20	19.35		
20	QPSK	100	0	19.11	19.21	19.22		
20	16QAM	1	0	19.42	19.67	20.03	20.5	1
20	16QAM	1	49	19.30	19.55	19.66		
20	16QAM	1	99	19.40	19.56	19.46		
20	16QAM	50	0	18.21	18.36	18.51	19.5	2
20	16QAM	50	24	18.25	18.34	18.25		
20	16QAM	50	50	18.16	18.34	18.17		
20	16QAM	100	0	18.25	18.33	18.30		
20	64QAM	1	0	18.26	18.55	18.90	19.5	2
20	64QAM	1	49	18.20	18.49	18.48		
20	64QAM	1	99	18.26	18.44	18.36		
20	64QAM	50	0	17.21	17.34	17.55	18.5	3
20	64QAM	50	24	17.21	17.36	17.26		
20	64QAM	50	50	17.17	17.34	17.18		
20	64QAM	100	0	17.25	17.33	17.29		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	19.97	20.24	20.42	21.5	0
15	QPSK	1	37	19.93	20.14	20.09		
15	QPSK	1	74	19.98	20.25	20.18		
15	QPSK	36	0	19.00	19.17	19.29	20.5	1
15	QPSK	36	20	18.98	19.19	19.06		
15	QPSK	36	39	19.03	19.22	19.05		
15	QPSK	75	0	19.01	19.18	19.09		
15	16QAM	1	0	19.37	19.62	19.82	20.5	1
15	16QAM	1	37	19.29	19.48	19.47		
15	16QAM	1	74	19.37	19.55	19.48		
15	16QAM	36	0	18.13	18.28	18.42	19.5	2
15	16QAM	36	20	18.09	18.32	18.17		
15	16QAM	36	39	18.11	18.32	18.12		
15	16QAM	75	0	18.07	18.31	18.20		
15	64QAM	1	0	18.27	18.54	18.72	19.5	2
15	64QAM	1	37	18.24	18.45	18.41		
15	64QAM	1	74	18.28	18.49	18.37		
15	64QAM	36	0	17.17	17.32	17.45	18.5	3
15	64QAM	36	20	17.11	17.32	17.21		
15	64QAM	36	39	17.12	17.34	17.13		
15	64QAM	75	0	17.11	17.31	17.20		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	19.86	20.10	20.19	21.5	0
10	QPSK	1	25	19.89	20.10	20.02		
10	QPSK	1	49	19.86	20.13	20.11		
10	QPSK	25	0	18.95	19.07	19.06	20.5	1
10	QPSK	25	12	18.96	19.14	19.01		

10	QPSK	25	25	18.89	19.07	19.05		
10	QPSK	50	0	18.92	19.13	19.05		
10	16QAM	1	0	19.19	19.42	19.62	20.5	1
10	16QAM	1	25	19.20	19.45	19.22		
10	16QAM	1	49	19.17	19.43	19.44		
10	16QAM	25	0	18.08	18.19	18.15	19.5	2
10	16QAM	25	12	18.02	18.25	18.10		
10	16QAM	25	25	17.98	18.19	18.12		
10	16QAM	50	0	18.03	18.24	18.17		
10	64QAM	1	0	18.10	18.37	18.54	19.5	2
10	64QAM	1	25	18.15	18.37	18.16		
10	64QAM	1	49	18.09	18.40	18.39		
10	64QAM	25	0	17.04	17.19	17.18	18.5	3
10	64QAM	25	12	17.02	17.27	17.11		
10	64QAM	25	25	16.99	17.17	17.13		
10	64QAM	50	0	17.02	17.23	17.18		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	19.85	20.19	20.10	21.5	0
5	QPSK	1	12	19.81	20.12	20.10		
5	QPSK	1	24	19.89	20.21	20.19		
5	QPSK	12	0	18.90	19.18	19.08	20.5	1
5	QPSK	12	7	18.88	19.17	19.12		
5	QPSK	12	13	18.93	19.14	19.12		
5	QPSK	25	0	18.94	19.12	19.93		
5	16QAM	1	0	19.20	19.53	19.43	20.5	1
5	16QAM	1	12	19.16	19.51	19.45		
5	16QAM	1	24	19.25	19.56	19.54		
5	16QAM	12	0	17.97	18.29	18.14	19.5	2
5	16QAM	12	7	17.94	18.25	18.18		
5	16QAM	12	13	18.01	18.22	18.20		
5	16QAM	25	0	18.01	18.26	18.14		
5	64QAM	1	0	18.12	18.50	18.34	19.5	2
5	64QAM	1	12	18.08	18.37	18.31		
5	64QAM	1	24	18.16	18.46	18.43		
5	64QAM	12	0	16.99	17.35	17.20	18.5	3
5	64QAM	12	7	17.00	17.30	17.21		
5	64QAM	12	13	17.07	17.25	17.23		
5	64QAM	25	0	17.03	17.26	17.39		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	19.83	20.16	20.10	21.5	0
3	QPSK	1	8	19.81	20.12	20.14		
3	QPSK	1	14	19.80	20.11	20.18		
3	QPSK	8	0	18.88	19.14	19.09	20.5	1
3	QPSK	8	4	18.87	19.15	19.17		
3	QPSK	8	7	18.84	19.14	19.17		
3	QPSK	15	0	18.81	19.13	19.12		
3	16QAM	1	0	19.17	19.49	19.39	20.5	1
3	16QAM	1	8	19.11	19.49	19.45		
3	16QAM	1	14	19.12	19.41	19.50		
3	16QAM	8	0	17.99	18.29	18.18	19.5	2
3	16QAM	8	4	17.97	18.30	18.28		
3	16QAM	8	7	17.94	18.29	18.28		
3	16QAM	15	0	17.93	18.23	18.22		
3	64QAM	1	0	18.09	18.44	18.34	19.5	2

3	64QAM	1	8	18.06	18.40	18.39		
3	64QAM	1	14	18.06	18.39	18.45		
3	64QAM	8	0	16.98	17.34	17.19	18.5	3
3	64QAM	8	4	17.00	17.30	17.27		
3	64QAM	8	7	16.97	17.30	17.29		
3	64QAM	15	0	16.94	17.27	17.21		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	19.78	20.10	20.10	21.5	0
1.4	QPSK	1	3	19.81	20.14	20.21		
1.4	QPSK	1	5	19.75	20.05	20.11		
1.4	QPSK	3	0	19.79	20.12	20.14		
1.4	QPSK	3	1	19.66	20.16	20.18		
1.4	QPSK	3	3	19.80	20.10	20.17		
1.4	QPSK	6	0	18.80	19.10	19.11	20.5	1
1.4	16QAM	1	0	19.09	19.41	19.39	20.5	1
1.4	16QAM	1	3	19.15	19.39	19.50		
1.4	16QAM	1	5	19.09	19.38	19.42		
1.4	16QAM	3	0	18.90	19.20	19.23		
1.4	16QAM	3	1	18.94	19.25	19.26		
1.4	16QAM	3	3	18.90	19.17	19.24		
1.4	16QAM	6	0	17.93	18.25	18.28	19.5	2
1.4	64QAM	1	0	18.01	18.41	18.34	19.5	2
1.4	64QAM	1	3	18.07	18.36	18.42		
1.4	64QAM	1	5	18.01	18.35	18.37		
1.4	64QAM	3	0	17.98	18.33	18.29		
1.4	64QAM	3	1	18.04	18.35	18.36		
1.4	64QAM	3	3	18.02	18.28	18.35		
1.4	64QAM	6	0	16.89	17.17	17.18	18.5	3

<LTE Band 26>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	21.77	21.62	21.64	23	0
15	QPSK	1	37	21.66	21.60	21.61		
15	QPSK	1	74	21.49	21.57	21.56		
15	QPSK	36	0	20.72	20.59	20.71	22	1
15	QPSK	36	20	20.69	20.57	20.69		
15	QPSK	36	39	20.59	20.55	20.57		
15	QPSK	75	0	20.67	20.52	20.66		
15	16QAM	1	0	21.10	20.97	21.01	22	1
15	16QAM	1	37	21.02	20.92	20.95		
15	16QAM	1	74	20.85	20.91	20.94		
15	16QAM	36	0	19.86	19.69	19.72	21	2
15	16QAM	36	20	19.83	19.67	19.77		
15	16QAM	36	39	19.70	19.65	19.67		
15	16QAM	75	0	19.77	19.63	19.74		
15	64QAM	1	0	20.06	19.91	19.91	21	2
15	64QAM	1	37	19.92	19.86	19.87		
15	64QAM	1	74	19.76	19.83	19.83		
15	64QAM	36	0	18.86	18.70	18.75	20	3
15	64QAM	36	20	18.83	18.65	18.83		
15	64QAM	36	39	18.70	18.67	18.70		
15	64QAM	75	0	18.74	18.60	18.74		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	21.70	21.53	21.64	23	0
10	QPSK	1	25	21.62	21.54	21.64		
10	QPSK	1	49	21.53	21.56	21.54		
10	QPSK	25	0	20.71	20.55	20.63	22	1
10	QPSK	25	12	20.64	20.48	20.62		
10	QPSK	25	25	20.59	20.56	20.65		
10	QPSK	50	0	20.63	20.51	20.61		
10	16QAM	1	0	21.06	20.89	21.01	22	1
10	16QAM	1	25	20.94	20.90	20.96		
10	16QAM	1	49	20.89	20.88	20.91		
10	16QAM	25	0	19.80	19.60	19.73	21	2
10	16QAM	25	12	19.78	19.61	19.69		
10	16QAM	25	25	19.73	19.63	19.70		
10	16QAM	50	0	19.74	19.59	19.70		
10	64QAM	1	0	19.99	19.79	19.90	21	2
10	64QAM	1	25	19.91	19.81	19.87		
10	64QAM	1	49	19.85	19.83	19.82		
10	64QAM	25	0	18.79	18.60	18.72	20	3
10	64QAM	25	12	18.76	18.59	18.68		
10	64QAM	25	25	18.73	18.62	18.76		
10	64QAM	50	0	18.79	18.60	18.69		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	21.74	21.64	21.67	23	0
5	QPSK	1	12	21.71	21.56	21.63		
5	QPSK	1	24	21.65	21.53	21.60		
5	QPSK	12	0	20.78	20.62	20.73	22	1
5	QPSK	12	7	20.77	20.64	20.70		

5	QPSK	12	13	20.71	20.58	20.67		
5	QPSK	25	0	20.74	20.59	20.70		
5	16QAM	1	0	21.15	21.00	20.99	22	1
5	16QAM	1	12	21.09	20.91	20.99		
5	16QAM	1	24	21.04	20.91	20.97		
5	16QAM	12	0	19.85	19.73	19.79	21	2
5	16QAM	12	7	19.88	19.72	19.80		
5	16QAM	12	13	19.82	19.69	19.78		
5	16QAM	25	0	19.82	19.69	19.78		
5	64QAM	1	0	20.04	19.89	19.92	21	2
5	64QAM	1	12	19.99	19.83	19.88		
5	64QAM	1	24	19.94	19.80	19.85		
5	64QAM	12	0	18.92	18.79	18.84	20	3
5	64QAM	12	7	18.89	18.78	18.86		
5	64QAM	12	13	18.88	18.72	18.83		
5	64QAM	25	0	18.82	18.72	18.80		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	21.76	21.62	21.67	23	0
3	QPSK	1	8	21.70	21.56	21.63		
3	QPSK	1	14	21.71	21.57	21.61		
3	QPSK	8	0	20.77	20.65	20.70	22	1
3	QPSK	8	4	20.74	20.65	20.72		
3	QPSK	8	7	20.74	20.62	20.68		
3	QPSK	15	0	20.75	20.60	20.69		
3	16QAM	1	0	21.06	20.96	20.99	22	1
3	16QAM	1	8	21.05	20.94	20.96		
3	16QAM	1	14	21.04	20.90	20.92		
3	16QAM	8	0	19.91	19.78	19.81	21	2
3	16QAM	8	4	19.90	19.78	19.85		
3	16QAM	8	7	19.88	19.78	19.81		
3	16QAM	15	0	19.85	19.72	19.79		
3	64QAM	1	0	20.02	19.89	19.92	21	2
3	64QAM	1	8	20.01	19.87	19.88		
3	64QAM	1	14	19.99	19.84	19.88		
3	64QAM	8	0	18.89	18.78	18.82	20	3
3	64QAM	8	4	18.90	18.78	18.85		
3	64QAM	8	7	18.88	18.77	18.82		
3	64QAM	15	0	18.86	18.73	18.81		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	21.70	21.57	21.59	23	0
1.4	QPSK	1	3	21.74	21.62	21.63		
1.4	QPSK	1	5	21.69	21.53	21.56		
1.4	QPSK	3	0	21.72	21.62	21.62		
1.4	QPSK	3	1	21.76	21.60	21.66		
1.4	QPSK	3	3	21.71	21.56	21.62		
1.4	QPSK	6	0	20.71	20.56	20.62	22	1
1.4	16QAM	1	0	21.06	20.92	20.93	22	1
1.4	16QAM	1	3	21.09	20.97	21.03		
1.4	16QAM	1	5	21.00	20.88	20.91		
1.4	16QAM	3	0	20.84	20.67	20.73		
1.4	16QAM	3	1	20.86	20.73	20.74		
1.4	16QAM	3	3	20.81	20.65	20.70		
1.4	16QAM	6	0	19.87	19.77	19.80	21	2
1.4	64QAM	1	0	19.96	19.81	19.87	21	2

1.4	64QAM	1	3	20.03	19.86	19.90		
1.4	64QAM	1	5	19.91	19.77	19.82		
1.4	64QAM	3	0	19.94	19.80	19.85		
1.4	64QAM	3	1	19.97	19.85	19.90		
1.4	64QAM	3	3	19.93	19.79	19.84		
1.4	64QAM	6	0	18.82	18.68	18.72	20	3

<LTE Band 30>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					27710			
Frequency (MHz)					2310			
10	QPSK	1	0		15.94		17	0
10	QPSK	1	25		15.89			
10	QPSK	1	49		15.84			
10	QPSK	25	0		14.96		16	1
10	QPSK	25	12		14.95			
10	QPSK	25	25		14.91			
10	QPSK	50	0		14.94			
10	16QAM	1	0		15.32		16	1
10	16QAM	1	25		15.48			
10	16QAM	1	49		15.41			
10	16QAM	25	0		14.14		15	2
10	16QAM	25	12		14.17			
10	16QAM	25	25		14.13			
10	16QAM	50	0		14.12			
10	64QAM	1	0		14.30		15	2
10	64QAM	1	25		14.42			
10	64QAM	1	49		14.40			
10	64QAM	25	0		13.17		14	3
10	64QAM	25	12		13.14			
10	64QAM	25	25		13.13			
10	64QAM	50	0		13.18			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	15.70	15.81	15.85	17	0
5	QPSK	1	12	15.68	15.71	15.79		
5	QPSK	1	24	15.73	15.80	15.82		
5	QPSK	12	0	14.73	14.88	14.89	16	1
5	QPSK	12	7	14.83	14.87	14.87		
5	QPSK	12	13	14.81	14.82	14.88		
5	QPSK	25	0	14.75	14.81	14.82		
5	16QAM	1	0	15.15	15.33	15.30	16	1
5	16QAM	1	12	15.22	15.26	15.30		
5	16QAM	1	24	15.26	15.32	15.33		
5	16QAM	12	0	13.96	14.11	14.07	15	2
5	16QAM	12	7	14.03	14.10	14.16		
5	16QAM	12	13	13.99	14.04	14.09		
5	16QAM	25	0	13.95	13.98	14.00		
5	64QAM	1	0	14.15	14.32	14.39	15	2
5	64QAM	1	12	14.28	14.24	14.30		
5	64QAM	1	24	14.24	14.27	14.34		
5	64QAM	12	0	13.04	13.17	13.20	14	3
5	64QAM	12	7	13.09	13.20	13.19		
5	64QAM	12	13	13.08	13.14	13.18		
5	64QAM	25	0	13.00	13.01	13.07		

<LTE Band 66>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	19.56	19.66	19.67	20.5	0
20	QPSK	1	49	19.30	19.47	19.31		
20	QPSK	1	99	19.34	19.50	19.29		
20	QPSK	50	0	18.54	18.59	18.67	19.5	1
20	QPSK	50	24	18.50	18.58	18.42		
20	QPSK	50	50	18.45	18.48	18.35		
20	QPSK	100	0	18.44	18.47	18.56		
20	16QAM	1	0	18.91	19.01	19.07	19.5	1
20	16QAM	1	49	18.61	18.88	18.63		
20	16QAM	1	99	18.65	18.87	18.62		
20	16QAM	50	0	17.64	17.78	17.68	18.5	2
20	16QAM	50	24	17.61	17.70	17.54		
20	16QAM	50	50	17.52	17.62	17.44		
20	16QAM	100	0	17.61	17.69	17.56		
20	64QAM	1	0	17.86	17.99	17.98	18.5	2
20	64QAM	1	49	17.56	17.84	17.51		
20	64QAM	1	99	17.51	17.76	17.54		
20	64QAM	50	0	16.66	16.79	16.67	17.5	3
20	64QAM	50	24	16.62	16.68	16.56		
20	64QAM	50	50	16.51	16.59	16.45		
20	64QAM	100	0	16.62	16.68	16.55		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	19.49	19.56	19.64	20.5	0
15	QPSK	1	37	19.29	19.44	19.41		
15	QPSK	1	74	19.36	19.39	19.37		
15	QPSK	36	0	18.50	18.61	18.54	19.5	1
15	QPSK	36	20	18.42	18.53	18.46		
15	QPSK	36	39	18.40	18.44	18.47		
15	QPSK	75	0	18.41	18.55	18.42		
15	16QAM	1	0	18.85	18.92	18.99	19.5	1
15	16QAM	1	37	18.54	18.85	18.75		
15	16QAM	1	74	18.69	18.81	18.66		
15	16QAM	36	0	17.61	17.70	17.64	18.5	2
15	16QAM	36	20	17.51	17.65	17.53		
15	16QAM	36	39	17.50	17.56	17.53		
15	16QAM	75	0	17.51	17.63	17.54		
15	64QAM	1	0	17.75	17.86	17.90	18.5	2
15	64QAM	1	37	17.50	17.74	17.69		
15	64QAM	1	74	17.59	17.69	17.62		
15	64QAM	36	0	16.63	16.73	16.67	17.5	3
15	64QAM	36	20	16.54	16.67	16.54		
15	64QAM	36	39	16.54	16.59	16.57		
15	64QAM	75	0	16.50	16.63	16.56		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	19.34	19.43	19.46	20.5	0
10	QPSK	1	25	19.30	19.41	19.38		
10	QPSK	1	49	19.23	19.35	19.30		
10	QPSK	25	0	18.42	18.53	18.44	19.5	1
10	QPSK	25	12	18.38	18.47	18.46		

10	QPSK	25	25	18.32	18.44	18.41		
10	QPSK	50	0	18.39	18.48	18.38		
10	16QAM	1	0	18.66	18.78	18.77	19.5	1
10	16QAM	1	25	18.54	18.77	18.67		
10	16QAM	1	49	18.45	18.70	18.60		
10	16QAM	25	0	17.52	17.62	17.50	18.5	2
10	16QAM	25	12	17.47	17.60	17.59		
10	16QAM	25	25	17.37	17.53	17.49		
10	16QAM	50	0	17.45	17.59	17.47		
10	64QAM	1	0	17.61	17.74	17.71	18.5	2
10	64QAM	1	25	17.53	17.69	17.65		
10	64QAM	1	49	17.45	17.64	17.59		
10	64QAM	25	0	16.54	16.61	16.54	17.5	3
10	64QAM	25	12	16.47	16.57	16.57		
10	64QAM	25	25	16.38	16.53	16.51		
10	64QAM	50	0	16.46	16.60	16.46		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	19.35	19.61	19.59	20.5	0
5	QPSK	1	12	19.28	19.54	19.50		
5	QPSK	1	24	19.35	19.49	19.47		
5	QPSK	12	0	18.35	18.61	18.61	19.5	1
5	QPSK	12	7	18.35	18.60	18.57		
5	QPSK	12	13	18.41	18.56	18.55		
5	QPSK	25	0	18.43	18.56	18.60		
5	16QAM	1	0	18.69	18.90	18.93	19.5	1
5	16QAM	1	12	18.62	18.86	18.84		
5	16QAM	1	24	18.60	18.85	18.81		
5	16QAM	12	0	17.48	17.69	17.72	18.5	2
5	16QAM	12	7	17.43	17.69	17.69		
5	16QAM	12	13	17.52	17.64	17.64		
5	16QAM	25	0	17.52	17.67	17.64		
5	64QAM	1	0	17.64	17.84	17.85	18.5	2
5	64QAM	1	12	17.48	17.78	17.78		
5	64QAM	1	24	17.56	17.78	17.73		
5	64QAM	12	0	16.52	16.72	16.74	17.5	3
5	64QAM	12	7	16.49	16.72	16.75		
5	64QAM	12	13	16.54	16.70	16.70		
5	64QAM	25	0	16.55	16.70	16.66		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	19.31	19.54	19.52	20.5	0
3	QPSK	1	8	19.27	19.51	19.47		
3	QPSK	1	14	19.25	19.50	19.42		
3	QPSK	8	0	18.34	18.55	18.55	19.5	1
3	QPSK	8	4	18.35	18.60	18.57		
3	QPSK	8	7	18.30	18.55	18.53		
3	QPSK	15	0	18.31	18.58	18.56		
3	16QAM	1	0	18.69	18.86	18.82	19.5	1
3	16QAM	1	8	18.65	18.86	18.84		
3	16QAM	1	14	18.52	18.83	18.79		
3	16QAM	8	0	17.48	17.72	17.67	18.5	2
3	16QAM	8	4	17.50	17.73	17.71		
3	16QAM	8	7	17.46	17.69	17.68		
3	16QAM	15	0	17.45	17.68	17.65		
3	64QAM	1	0	17.58	17.79	17.78	18.5	2

3	64QAM	1	8	17.49	17.77	17.76		
3	64QAM	1	14	17.47	17.76	17.73		
3	64QAM	8	0	16.48	16.72	16.69	17.5	3
3	64QAM	8	4	16.47	16.74	16.72		
3	64QAM	8	7	16.43	16.69	16.69		
3	64QAM	15	0	16.44	16.67	16.63		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	19.24	19.47	19.46	20.5	0
1.4	QPSK	1	3	19.29	19.54	19.52		
1.4	QPSK	1	5	19.21	19.43	19.41		
1.4	QPSK	3	0	19.28	19.53	19.48		
1.4	QPSK	3	1	19.31	19.52	19.51		
1.4	QPSK	3	3	19.30	19.49	19.47		
1.4	QPSK	6	0	18.28	18.52	18.51	19.5	1
1.4	16QAM	1	0	18.59	18.79	18.78	19.5	1
1.4	16QAM	1	3	18.65	18.90	18.86		
1.4	16QAM	1	5	18.59	18.80	18.78		
1.4	16QAM	3	0	18.38	18.58	18.58		
1.4	16QAM	3	1	18.41	18.62	18.59		
1.4	16QAM	3	3	18.35	18.62	18.58		
1.4	16QAM	6	0	17.46	17.71	17.68	18.5	2
1.4	64QAM	1	0	17.54	17.72	17.70	18.5	2
1.4	64QAM	1	3	17.58	17.81	17.75		
1.4	64QAM	1	5	17.48	17.72	17.67		
1.4	64QAM	3	0	17.52	17.74	17.71		
1.4	64QAM	3	1	17.55	17.75	17.73		
1.4	64QAM	3	3	17.49	17.73	17.70		
1.4	64QAM	6	0	16.36	16.62	16.60	17.5	3

<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

a. 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
b. "special subframe S" contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
c. Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

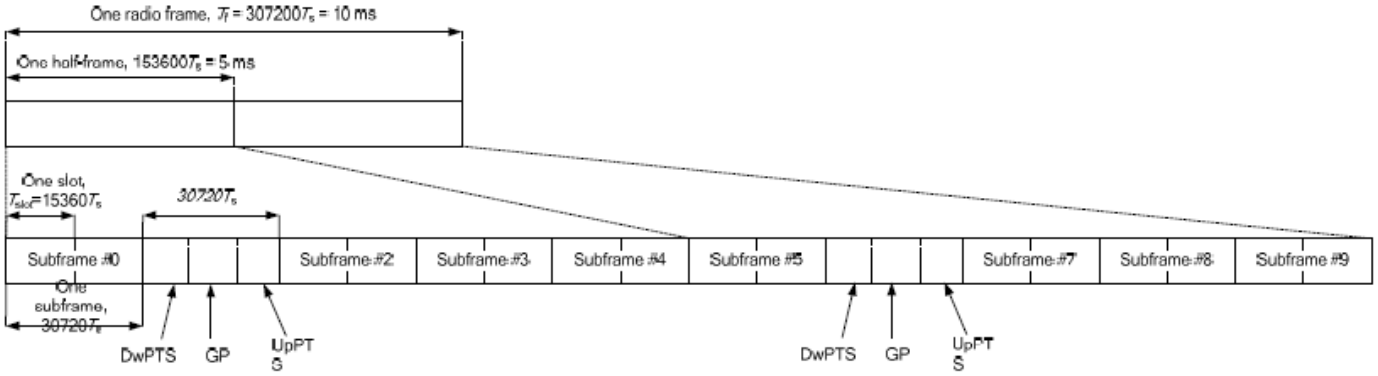


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

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

Special subframe configuration	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	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
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	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Special subframe (30720·T_s): Normal cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	**Normal cyclic prefix in uplink**	**Extended cyclic prefix in uplink**
Uplink duty factor in one special subframe	**0~4**	7.13%	8.33%
	5~9	14.3%	16.7%

Special subframe(30720·T_s): Extended cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	**Normal cyclic prefix in uplink**	**Extended cyclic prefix in uplink**
Uplink duty factor in one special subframe	**0~3**	7.13%	8.33%
	4~7	14.3%	16.7%

The highest duty factor is resulted from:

i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subfames, uplink operation is in 3 uplink subframes and 1 special subframe.

ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink

iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: (3+0.167)/5 = 63.3%

iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: (3+0.143)/5 = 62.9%

v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.

<Default Power Mode>

<LTE Band 38>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	23.86	23.96	23.86	24.5	0
20	QPSK	1	49	23.80	23.77	23.53		
20	QPSK	1	99	23.73	23.55	23.39		
20	QPSK	50	0	22.87	22.93	22.80	23.5	1
20	QPSK	50	24	22.86	22.82	22.73		
20	QPSK	50	50	22.85	22.76	22.54		
20	QPSK	100	0	22.83	22.84	22.72		
20	16QAM	1	0	23.01	23.12	23.00	23.5	1
20	16QAM	1	49	22.86	22.85	22.67		
20	16QAM	1	99	22.87	22.60	22.48		
20	16QAM	50	0	21.96	22.03	21.90	22.5	2
20	16QAM	50	24	21.97	21.93	21.80		
20	16QAM	50	50	21.98	21.83	21.63		
20	16QAM	100	0	21.93	21.95	21.83		
20	64QAM	1	0	21.76	21.82	21.74	22.5	2
20	64QAM	1	49	21.63	21.59	21.39		
20	64QAM	1	99	21.58	21.41	21.21		
20	64QAM	50	0	20.95	21.01	20.91	21.5	3
20	64QAM	50	24	20.94	20.97	20.83		
20	64QAM	50	50	20.94	20.85	20.61		
20	64QAM	100	0	20.95	20.94	20.83		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	23.80	23.82	23.75	24.5	0
15	QPSK	1	37	23.68	23.71	23.50		
15	QPSK	1	74	23.67	23.51	23.35		
15	QPSK	36	0	22.79	22.81	22.66	23.5	1
15	QPSK	36	20	22.84	22.78	22.57		
15	QPSK	36	39	22.74	22.67	22.46		
15	QPSK	75	0	22.81	22.75	22.56		
15	16QAM	1	0	22.91	22.95	22.85	23.5	1
15	16QAM	1	37	22.79	22.78	22.61		
15	16QAM	1	74	22.80	22.62	22.46		
15	16QAM	36	0	21.82	21.87	21.73	22.5	2
15	16QAM	36	20	21.90	21.85	21.57		
15	16QAM	36	39	21.76	21.74	21.52		
15	16QAM	75	0	21.91	21.84	21.62		
15	64QAM	1	0	21.66	21.69	21.61	22.5	2
15	64QAM	1	37	21.53	21.56	21.34		
15	64QAM	1	74	21.53	21.36	21.21		
15	64QAM	36	0	20.86	20.91	20.77	21.5	3
15	64QAM	36	20	20.90	20.87	20.63		
15	64QAM	36	39	20.79	20.78	20.56		
15	64QAM	75	0	20.91	20.87	20.61		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	23.67	23.70	23.56	24.5	0
10	QPSK	1	25	23.69	23.69	23.50		
10	QPSK	1	49	23.62	23.53	23.32		
10	QPSK	25	0	22.76	22.76	22.51	23.5	1

10	QPSK	25	12	22.69	22.71	22.50		
10	QPSK	25	25	22.63	22.65	22.43		
10	QPSK	50	0	22.70	22.72	22.51		
10	16QAM	1	0	22.83	22.84	22.65		
10	16QAM	1	25	22.84	22.82	22.59	23.5	1
10	16QAM	1	49	22.72	22.62	22.41		
10	16QAM	25	0	21.84	21.85	21.61		
10	16QAM	25	12	21.81	21.86	21.62	22.5	2
10	16QAM	25	25	21.74	21.79	21.54		
10	16QAM	50	0	21.78	21.82	21.59		
10	64QAM	1	0	21.59	21.56	21.43		
10	64QAM	1	25	21.55	21.54	21.35	22.5	2
10	64QAM	1	49	21.48	21.36	21.14		
10	64QAM	25	0	20.86	20.88	20.66		
10	64QAM	25	12	20.84	20.91	20.62	21.5	3
10	64QAM	25	25	20.82	20.82	20.61		
10	64QAM	50	0	20.84	20.84	20.60		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	23.63	23.69	23.48		
5	QPSK	1	12	23.62	23.66	23.35	24.5	0
5	QPSK	1	24	23.62	23.60	23.27		
5	QPSK	12	0	22.66	22.76	22.50		
5	QPSK	12	7	22.72	22.73	22.38	23.5	1
5	QPSK	12	13	22.67	22.68	22.36		
5	QPSK	25	0	22.72	22.69	22.43		
5	16QAM	1	0	22.76	22.82	22.53		
5	16QAM	1	12	22.73	22.83	22.45	23.5	1
5	16QAM	1	24	22.81	22.78	22.39		
5	16QAM	12	0	21.69	21.79	21.53		
5	16QAM	12	7	21.79	21.77	21.40	22.5	2
5	16QAM	12	13	21.75	21.73	21.33		
5	16QAM	25	0	21.83	21.81	21.53		
5	64QAM	1	0	21.52	21.58	21.29		
5	64QAM	1	12	21.45	21.53	21.20	22.5	2
5	64QAM	1	24	21.55	21.53	21.13		
5	64QAM	12	0	20.72	20.84	20.57		
5	64QAM	12	7	20.83	20.84	20.44	21.5	3
5	64QAM	12	13	20.80	20.76	20.42		
5	64QAM	25	0	20.86	20.85	20.55		

<LTE Band 41>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.18	23.96	24.08	23.74	23.83	24.5	0
20	QPSK	1	49	23.93	23.73	23.77	23.53	23.76		
20	QPSK	1	99	23.78	23.75	23.52	23.60	23.61		
20	QPSK	50	0	23.07	22.90	22.90	22.65	22.79	23.5	1
20	QPSK	50	24	23.00	22.89	22.79	22.63	22.69		
20	QPSK	50	50	22.96	22.84	22.73	22.57	22.65		
20	QPSK	100	0	23.01	22.90	22.81	22.63	22.66		
20	16QAM	1	0	23.35	23.11	23.22	22.86	22.98	23.5	1
20	16QAM	1	49	23.10	22.87	22.91	22.68	22.87		
20	16QAM	1	99	22.91	22.88	22.66	22.69	22.72		
20	16QAM	50	0	22.17	21.98	22.04	21.68	21.89	22.5	2
20	16QAM	50	24	22.14	22.05	21.90	21.71	21.78		
20	16QAM	50	50	22.08	21.92	21.79	21.65	21.74		
20	16QAM	100	0	22.09	21.99	21.91	21.70	21.75		
20	64QAM	1	0	22.07	21.83	21.95	21.60	21.71	22.5	2
20	64QAM	1	49	21.83	21.62	21.65	21.39	21.62		
20	64QAM	1	99	21.64	21.62	21.41	21.46	21.42		
20	64QAM	50	0	21.18	21.00	21.00	20.68	20.88	21.5	3
20	64QAM	50	24	21.10	21.04	20.95	20.71	20.77		
20	64QAM	50	50	21.05	20.96	20.80	20.66	20.73		
20	64QAM	100	0	21.12	21.01	20.89	20.71	20.78		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	24.10	23.86	23.93	23.72	23.83	24.5	0
15	QPSK	1	37	23.88	23.67	23.70	23.53	23.67		
15	QPSK	1	74	23.90	23.74	23.49	23.62	23.58		
15	QPSK	36	0	22.99	22.79	22.81	22.58	22.71	23.5	1
15	QPSK	36	20	22.95	22.76	22.71	22.56	22.72		
15	QPSK	36	39	22.89	22.76	22.62	22.54	22.64		
15	QPSK	75	0	22.93	22.84	22.73	22.56	22.61		
15	16QAM	1	0	23.24	23.00	23.07	22.86	22.95	23.5	1
15	16QAM	1	37	23.04	22.85	22.84	22.67	22.81		
15	16QAM	1	74	23.03	22.87	22.65	22.73	22.73		
15	16QAM	36	0	22.07	21.82	21.82	21.66	21.75	22.5	2
15	16QAM	36	20	22.02	21.79	21.81	21.60	21.78		
15	16QAM	36	39	21.94	21.80	21.71	21.57	21.70		
15	16QAM	75	0	22.03	21.95	21.82	21.65	21.71		
15	64QAM	1	0	21.99	21.74	21.83	21.58	21.69	22.5	2
15	64QAM	1	37	21.75	21.55	21.58	21.42	21.55		
15	64QAM	1	74	21.74	21.60	21.39	21.49	21.47		
15	64QAM	36	0	21.12	20.87	20.88	20.73	20.79	21.5	3
15	64QAM	36	20	21.07	20.85	20.84	20.66	20.83		
15	64QAM	36	39	20.98	20.84	20.75	20.64	20.75		
15	64QAM	75	0	21.03	20.95	20.83	20.65	20.73		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.97	23.76	23.83	23.58	23.80	24.5	0
10	QPSK	1	25	23.90	23.68	23.70	23.53	23.66		
10	QPSK	1	49	23.83	23.62	23.50	23.31	23.57		
10	QPSK	25	0	22.94	22.75	22.73	22.54	22.66	23.5	1
10	QPSK	25	12	22.93	22.72	22.69	22.52	22.66		

10	QPSK	25	25	22.85	22.68	22.65	22.51	22.61		
10	QPSK	50	0	22.90	22.71	22.69	22.55	22.67		
10	16QAM	1	0	23.13	22.90	22.95	22.74	22.94	23.5	1
10	16QAM	1	25	23.05	22.81	22.85	22.65	22.80		
10	16QAM	1	49	22.98	22.74	22.60	22.60	22.71		
10	16QAM	25	0	22.08	21.86	21.84	21.63	21.80	22.5	2
10	16QAM	25	12	22.05	21.84	21.80	21.64	21.79		
10	16QAM	25	25	21.95	21.78	21.75	21.59	21.70		
10	16QAM	50	0	22.02	21.81	21.82	21.64	21.77		
10	64QAM	1	0	21.90	21.67	21.69	21.49	21.70	22.5	2
10	64QAM	1	25	21.81	21.58	21.58	21.42	21.54		
10	64QAM	1	49	21.72	21.50	21.35	21.36	21.44		
10	64QAM	25	0	21.11	20.87	20.88	20.66	20.84	21.5	3
10	64QAM	25	12	21.08	20.84	20.84	20.65	20.81		
10	64QAM	25	25	21.02	20.82	20.80	20.46	20.76		
10	64QAM	50	0	21.03	20.83	20.78	20.63	20.78		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.92	23.71	23.71	23.50	23.64	24.5	0
5	QPSK	1	12	23.91	23.69	23.69	23.53	23.63		
5	QPSK	1	24	23.79	23.58	23.59	23.43	23.50		
5	QPSK	12	0	22.96	22.69	22.71	22.49	22.66	23.5	1
5	QPSK	12	7	22.94	22.71	22.67	22.53	22.66		
5	QPSK	12	13	22.89	22.71	22.66	22.50	22.60		
5	QPSK	25	0	22.89	22.66	22.64	22.49	22.61		
5	16QAM	1	0	23.05	22.81	22.86	22.61	22.78	23.5	1
5	16QAM	1	12	23.07	22.83	22.82	22.67	22.77		
5	16QAM	1	24	22.99	22.75	22.79	22.62	22.67		
5	16QAM	12	0	22.02	21.77	21.74	21.57	21.71	22.5	2
5	16QAM	12	7	22.02	21.77	21.76	21.57	21.70		
5	16QAM	12	13	21.97	21.72	21.72	21.55	21.63		
5	16QAM	25	0	22.03	21.79	21.80	21.60	21.72		
5	64QAM	1	0	21.82	21.57	21.61	21.39	21.52	22.5	2
5	64QAM	1	12	21.83	21.56	21.58	21.41	21.52		
5	64QAM	1	24	21.76	21.54	21.54	21.37	21.45		
5	64QAM	12	0	21.06	20.79	20.79	20.61	20.74	21.5	3
5	64QAM	12	7	21.05	20.85	20.80	20.65	20.74		
5	64QAM	12	13	21.02	20.80	20.74	20.60	20.68		
5	64QAM	25	0	21.09	20.84	20.80	20.62	20.75		

<Reduced Power Mode>

<LTE Band 38>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	20.15	20.28	20.15	21	0
20	QPSK	1	49	20.08	20.11	19.90		
20	QPSK	1	99	20.07	19.94	19.72		
20	QPSK	50	0	19.12	19.22	19.07	20	1
20	QPSK	50	24	19.11	19.14	19.03		
20	QPSK	50	50	19.09	19.05	18.86		
20	QPSK	100	0	19.10	19.13	19.00		
20	16QAM	1	0	19.38	19.50	19.39	20	1
20	16QAM	1	49	19.21	19.20	19.00		
20	16QAM	1	99	19.23	19.06	18.86		
20	16QAM	50	0	18.23	18.35	18.20	19	2
20	16QAM	50	24	18.26	18.27	18.16		
20	16QAM	50	50	18.21	18.18	17.97		
20	16QAM	100	0	18.22	18.26	18.15		
20	64QAM	1	0	18.10	18.19	18.12	19	2
20	64QAM	1	49	17.94	17.98	17.74		
20	64QAM	1	99	17.91	17.79	17.58		
20	64QAM	50	0	17.22	17.33	17.21	18	3
20	64QAM	50	24	17.24	17.26	17.16		
20	64QAM	50	50	17.23	17.18	16.97		
20	64QAM	100	0	17.23	17.25	17.15		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	20.15	20.21	20.15	21	0
15	QPSK	1	37	20.00	20.13	19.87		
15	QPSK	1	74	20.04	19.95	19.75		
15	QPSK	36	0	19.11	19.19	19.04	20	1
15	QPSK	36	20	19.15	19.14	18.92		
15	QPSK	36	39	19.07	19.05	18.87		
15	QPSK	75	0	19.13	19.10	18.89		
15	16QAM	1	0	19.30	19.38	19.33	20	1
15	16QAM	1	37	19.14	19.21	19.02		
15	16QAM	1	74	19.18	19.07	18.86		
15	16QAM	36	0	18.17	18.26	18.13	19	2
15	16QAM	36	20	18.25	18.24	18.01		
15	16QAM	36	39	18.14	18.15	17.94		
15	16QAM	75	0	18.26	18.23	18.01		
15	64QAM	1	0	18.03	18.12	18.04	19	2
15	64QAM	1	37	17.92	18.00	17.76		
15	64QAM	1	74	17.92	17.84	17.61		
15	64QAM	36	0	17.23	17.32	17.17	18	3
15	64QAM	36	20	17.28	17.28	17.06		
15	64QAM	36	39	17.19	17.21	16.96		
15	64QAM	75	0	17.23	17.23	17.02		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	20.05	20.12	19.98	21	0
10	QPSK	1	25	20.05	20.14	19.89		
10	QPSK	1	49	19.97	19.96	19.72		
10	QPSK	25	0	19.07	19.15	18.93	20	1

10	QPSK	25	12	19.10	19.14	18.89		
10	QPSK	25	25	19.01	19.09	18.84		
10	QPSK	50	0	19.10	19.16	18.88		
10	16QAM	1	0	19.20	19.19	19.04		
10	16QAM	1	25	19.12	19.22	19.00	20	1
10	16QAM	1	49	19.01	19.03	18.80		
10	16QAM	25	0	18.18	18.27	18.03		
10	16QAM	25	12	18.19	18.23	17.97	19	2
10	16QAM	25	25	18.14	18.15	17.92		
10	16QAM	50	0	18.15	18.24	17.98		
10	64QAM	1	0	17.92	17.94	17.80		
10	64QAM	1	25	17.90	17.98	17.73	19	2
10	64QAM	1	49	17.78	17.76	17.58		
10	64QAM	25	0	17.21	17.28	17.07		
10	64QAM	25	12	17.24	17.28	17.01	18	3
10	64QAM	25	25	17.15	17.23	16.96		
10	64QAM	50	0	17.14	17.23	16.96		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	20.03	20.10	19.89		
5	QPSK	1	12	19.99	20.13	19.77	21	0
5	QPSK	1	24	19.99	20.02	19.64		
5	QPSK	12	0	19.00	19.17	18.89		
5	QPSK	12	7	19.12	19.15	18.80	20	1
5	QPSK	12	13	19.05	19.13	18.73		
5	QPSK	25	0	19.09	19.12	18.87		
5	16QAM	1	0	19.11	19.18	18.97		
5	16QAM	1	12	19.08	19.21	18.86	20	1
5	16QAM	1	24	19.14	19.14	18.80		
5	16QAM	12	0	18.09	18.20	17.91		
5	16QAM	12	7	18.16	18.18	17.82	19	2
5	16QAM	12	13	18.09	18.15	17.77		
5	16QAM	25	0	18.20	18.21	17.97		
5	64QAM	1	0	17.91	17.95	17.74		
5	64QAM	1	12	17.84	17.98	17.60	19	2
5	64QAM	1	24	17.88	17.93	17.60		
5	64QAM	12	0	17.08	17.26	16.95		
5	64QAM	12	7	17.23	17.25	16.86	18	3
5	64QAM	12	13	17.18	17.22	16.84		
5	64QAM	25	0	17.23	17.26	17.01		

<LTE Band 41>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.44	20.23	20.42	20.14	20.23	21	0
20	QPSK	1	49	20.20	20.04	20.12	19.96	20.14		
20	QPSK	1	99	20.05	20.08	19.95	20.00	19.97		
20	QPSK	50	0	19.31	19.19	19.29	19.02	19.18	20	1
20	QPSK	50	24	19.25	19.15	19.19	19.00	19.06		
20	QPSK	50	50	19.20	19.11	19.09	18.93	19.03		
20	QPSK	100	0	19.25	19.18	19.17	19.00	19.02		
20	16QAM	1	0	19.68	19.39	19.59	19.25	19.40	20	1
20	16QAM	1	49	19.29	19.15	19.27	19.07	19.25		
20	16QAM	1	99	19.15	19.18	19.08	18.93	19.08		
20	16QAM	50	0	18.43	18.26	18.37	18.11	18.27	19	2
20	16QAM	50	24	18.38	18.30	18.28	18.12	18.16		
20	16QAM	50	50	18.33	18.25	18.20	18.02	18.13		
20	16QAM	100	0	18.37	18.30	18.30	18.12	18.14		
20	64QAM	1	0	18.37	18.14	18.39	18.00	18.14	19	2
20	64QAM	1	49	18.10	17.88	18.01	17.82	17.99		
20	64QAM	1	99	17.91	17.92	17.81	17.65	17.81		
20	64QAM	50	0	17.43	17.24	17.37	16.92	17.28	18	3
20	64QAM	50	24	17.35	17.30	17.30	17.11	17.16		
20	64QAM	50	50	17.30	17.23	17.20	17.03	17.15		
20	64QAM	100	0	17.37	17.30	17.31	17.11	17.15		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.36	20.16	20.29	20.14	20.21	21	0
15	QPSK	1	37	20.19	19.98	20.05	19.92	20.05		
15	QPSK	1	74	20.16	20.07	19.89	20.02	19.96		
15	QPSK	36	0	19.27	19.09	19.15	19.03	19.11	20	1
15	QPSK	36	20	19.22	19.05	19.10	18.99	19.13		
15	QPSK	36	39	19.17	19.08	19.02	18.90	19.01		
15	QPSK	75	0	19.18	19.13	19.09	18.96	19.01		
15	16QAM	1	0	19.49	19.28	19.40	19.23	19.31	20	1
15	16QAM	1	37	19.32	19.11	19.19	19.08	19.17		
15	16QAM	1	74	19.31	19.17	19.06	19.12	19.08		
15	16QAM	36	0	18.34	18.14	18.26	18.08	18.15	19	2
15	16QAM	36	20	18.30	18.11	18.18	18.05	18.18		
15	16QAM	36	39	18.24	18.13	18.09	17.98	18.09		
15	16QAM	75	0	18.34	18.25	18.20	18.08	18.10		
15	64QAM	1	0	18.24	18.03	18.16	18.02	18.15	19	2
15	64QAM	1	37	18.07	17.88	17.95	17.78	17.92		
15	64QAM	1	74	18.02	17.91	17.79	17.88	17.81		
15	64QAM	36	0	17.37	17.18	17.27	17.14	17.21	18	3
15	64QAM	36	20	17.34	17.15	17.23	17.08	17.24		
15	64QAM	36	39	17.26	17.19	17.14	17.03	17.15		
15	64QAM	75	0	17.33	17.23	17.21	17.07	17.13		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.28	20.06	20.17	20.01	20.23	21	0
10	QPSK	1	25	20.22	20.01	20.09	19.96	20.04		
10	QPSK	1	49	20.15	19.97	19.93	19.93	20.00		
10	QPSK	25	0	19.23	19.07	19.13	19.01	19.10	20	1
10	QPSK	25	12	19.22	19.05	19.11	18.97	19.06		

10	QPSK	25	25	19.17	19.01	19.07	18.93	19.04		
10	QPSK	50	0	19.22	19.05	19.11	18.95	19.08		
10	16QAM	1	0	19.42	19.18	19.29	19.18	19.35	20	1
10	16QAM	1	25	19.30	19.11	19.20	19.06	19.16		
10	16QAM	1	49	19.21	19.04	18.99	19.00	19.12		
10	16QAM	25	0	18.37	18.14	18.22	18.05	18.19	19	2
10	16QAM	25	12	18.36	18.16	18.20	18.07	18.15		
10	16QAM	25	25	18.27	18.10	18.17	18.07	18.13		
10	16QAM	50	0	18.32	18.12	18.20	18.06	18.21		
10	64QAM	1	0	18.18	17.94	18.09	17.92	18.09	19	2
10	64QAM	1	25	18.06	17.89	17.95	17.83	17.89		
10	64QAM	1	49	17.99	17.77	17.73	17.79	17.83		
10	64QAM	25	0	17.39	17.19	17.29	17.10	17.28	18	3
10	64QAM	25	12	17.38	17.17	17.27	17.10	17.21		
10	64QAM	25	25	17.31	17.10	17.21	17.08	17.14		
10	64QAM	50	0	17.31	17.12	17.21	17.07	17.16		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	20.22	20.00	20.12	19.91	20.03	21	0
5	QPSK	1	12	20.22	20.02	20.09	19.99	20.04		
5	QPSK	1	24	20.13	19.93	20.02	19.91	19.92		
5	QPSK	12	0	19.27	19.10	19.12	18.98	19.07	20	1
5	QPSK	12	7	19.28	19.06	19.10	18.98	19.09		
5	QPSK	12	13	19.20	19.04	19.05	18.78	19.03		
5	QPSK	25	0	19.21	19.01	19.08	18.95	19.04		
5	16QAM	1	0	19.34	19.10	19.20	19.01	19.13	20	1
5	16QAM	1	12	19.36	19.14	19.20	19.07	19.15		
5	16QAM	1	24	19.30	19.08	19.16	19.06	19.07		
5	16QAM	12	0	18.34	18.10	18.14	17.98	18.08	19	2
5	16QAM	12	7	18.30	18.11	18.13	18.04	18.08		
5	16QAM	12	13	18.29	18.08	18.11	18.01	18.06		
5	16QAM	25	0	18.35	18.15	18.17	18.06	18.11		
5	64QAM	1	0	18.12	17.88	17.98	17.82	17.88	19	2
5	64QAM	1	12	18.09	17.88	17.95	17.83	17.89		
5	64QAM	1	24	18.06	17.82	17.91	17.81	17.84		
5	64QAM	12	0	17.33	17.13	17.21	17.06	17.10	18	3
5	64QAM	12	7	17.37	17.13	17.21	17.04	17.12		
5	64QAM	12	13	17.32	17.13	17.13	17.03	17.11		
5	64QAM	25	0	17.37	17.15	17.21	17.09	17.13		

<LTE Carrier Aggregation combinations>

General Note:

1. This device supports Carrier Aggregation on downlink only for inter and intra band, Uplink CA is not supported. For the device supports combination bands and configurations are according to 3GPP.
2. In applying the existing power measurement procedure of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of the frequency band and CCs in each row need consideration, and that configurations require power measurement should be highlighted in the below table.

2CC Downlink Carrier Aggregation			3CC Downlink Carrier Aggregation			4CC Downlink Carrier Aggregation			5CC Downlink Carrier Aggregation		
Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset
1	12A-30A	37	37	12A-30A-66A	79	79	12A-30A-66A-66A		110	2A-5B-30A-66A	
2	12A-66A	38	38	12A-66A-66A	79	80	2A-12A-30A-66A		111	2A-5B-66A-66A	
3	14A-30A	42	39	14A-66A-66A		81	2A-12A-66A-66A		112	5B-30A-66A-66A	
4	14A-66A	39	40	2A-12A-66A	80	82	2A-2A-12A-66A		113	2A-2A-5A-66C	
5	2A-12A	40	41	2A-12A-30A	80	83	2A-2A-12A-30A		114	2A-2A-5A-66B	113
6	2A-14A	42	42	2A-14A-30A		84	2A-2A-30A-66A		115	2A-5B-66C	
7	2A-29A		43	2A-2A-30A	84	85	2A-2A-5A-30A		116	2A-13A-46D	
8	2A-30A	43	44	2A-2A-5A	85	86	2A-2A-5A-66A	113	117	2A-46D-66A	
9	2A-5A	44	45	2A-2A-66A	86	87	2A-2A-5B		118	13A-46D-66A	
10	2A-66A	45	46	2A-5A-66A	86	88	2A-2A-66A-66A				
11	29A-30A	B29 RX Only	47	2A-5A-30A	85	89	2A-30A-66A-66A				
12	29A-66A	B29 RX Only	48	2A-5B	87	90	2A-5A-30A-66A	110			
13	30A-66A	49	49	2A-30A-66A	89	91	2A-5A-66A-66A	111			
14	5A-30A	47	50	2A-66A-66A	88	92	2A-5B-30A	110			
15	5A-66A	46	51	30A-66A-66A	89	93	2A-5B-66A	111			
16	5B	48	52	5A-30A-66A	90	94	5A-30A-66A-66A	112			
17	13A-66A	56	53	5A-66A-66A	91	95	5B-30A-66A	112			
18	2A-13A	58	54	5B-30A	92	96	5B-66A-66A	111			
19	2A-2A	59	55	5B-66A	93	97	2A-2A-5A-66A	113			
20	2A-4A	62	56	13A-66A-66A	112						
21	2A-5A	61	57	13A-66C	114	99	2A-46D	117			
22	2A-66A	62	58	2A-13A-66A	103	100	2A-13A-66A-66A				
23	4A-13A	63	59	2A-2A-13A	103	101	2A-13A-66B	102			
24	4A-4A	64	60	2A-2A-4A		102	2A-13A-66C				
25	4A-5A	65	61	2A-2A-5A	110	103	2A-2A-13A-66A				
26	5A-66A	67	62	2A-2A-66A	111	104	2A-2A-66B	105			
27	66A-66A	68	63	2A-4A-13A		105	2A-2A-66C	113			
28	66B	73	64	2A-4A-4A		106	2A-5A-66C	113			
29	66C	74	65	4A-4A-5A		107	2A-5A-66B	106			
30	2A-46A	99	66	2A-4A-5A		108	5B-66A-66A	111			
31	4A-46A		67	2A-5A-66A	86	109	5B-66C	115			
32	13A-46A	127	68	2A-66A-66A	88						
33	46A-66A	126	69	2A-66C	105						
34	25A-25A										
35	25A-26A		71	5A-66A-66A	108						
36	41C		72	5A-66C	106						
			73	66A-66B	74						
			74	66A-66C							
			75	66D							
			76	13A-66B	101						
			77	2A-66B	104						
			78	5A-66B	107						

<Power verification when LTE Carrier Aggregation Active>

General Note:

i. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.

ii. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.

iii. The device supports downlink two carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.

iv. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.

v. For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.

vi. For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

$$\text{Nominal channel spacing} = \left\lfloor \frac{BW_{Channel(1)} + BW_{Channel(2)} - 0.1\left|BW_{Channel(1)} - BW_{Channel(2)}\right|}{0.6} \right\rfloor 0.3 \ \ [\text{MHz}]$$

<Two Carrier power verification>

Configure		CA Configuration (BCS)	PCC							SCC				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2A-29A	2	20	1900	19100	QPSK	1	0	29	10	722.5	9715	24.08	24.11
		4A-46A	4	20	1732.5	20175	QPSK	1	0	46	20	5537.5	50665	23.75	23.73
		25A-26A	25	20	1880	26340	QPSK	1	0	26	15	876.5	8865	23.64	23.46
Intra-Band	Non-Contiguous	25A-25A	25	20	1880	26340	QPSK	1	0	25	20	1985	8590	23.58	23.46
	Contiguous	41C	41	20	2506	39750	QPSK	1	0	41	20	2525.8	39948	24.33	24.18

<Three Carrier power verification>

Configure		CA Configuration (BCS)	PCC							SCC				SCC2				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2A-2A-4A	2	20	1900	19100	QPSK	1	0	2	20	1940	700	4	20	2132.5	2175	24.16	24.11
		2A-4A-4A	2	20	1900	19100	QPSK	1	0	4	20	2132.5	2175	4	20	2145	2300	24.09	24.11
		2A-4A-5A	2	20	1900	19100	QPSK	1	0	4	20	2132.5	2175	5	10	881.5	2525	24.13	24.11
		2A-4A-13A	2	20	1900	19100	QPSK	1	0	4	20	2132.5	2175	13	10	751	5230	24.24	24.11
		2A-14A-30A	2	20	1900	19100	QPSK	1	0	14	10	763	5330	30	10	2355	9820	24.18	24.11
		4A-4A-5A	4	20	1732.5	20175	QPSK	1	0	4	20	2132.5	2175	5	10	881.5	2525	23.64	23.73
		14A-66A-66A	14	10	793	23330	QPSK	1	0	66	20	2155	66886	66	20	2190	67236	23.55	23.60
Intra-Band	Non-Contiguous	66A-66C	66	20	1745	132322	QPSK	1	0	66	20	2190	67236	66	20	2170.2	67038	23.85	23.77
	Contiguous	66D	66	20	1745	132322	QPSK	1	0	66	20	2164.8	66984	66	20	2184.6	67182	23.71	23.77

<Four Carrier power verification>

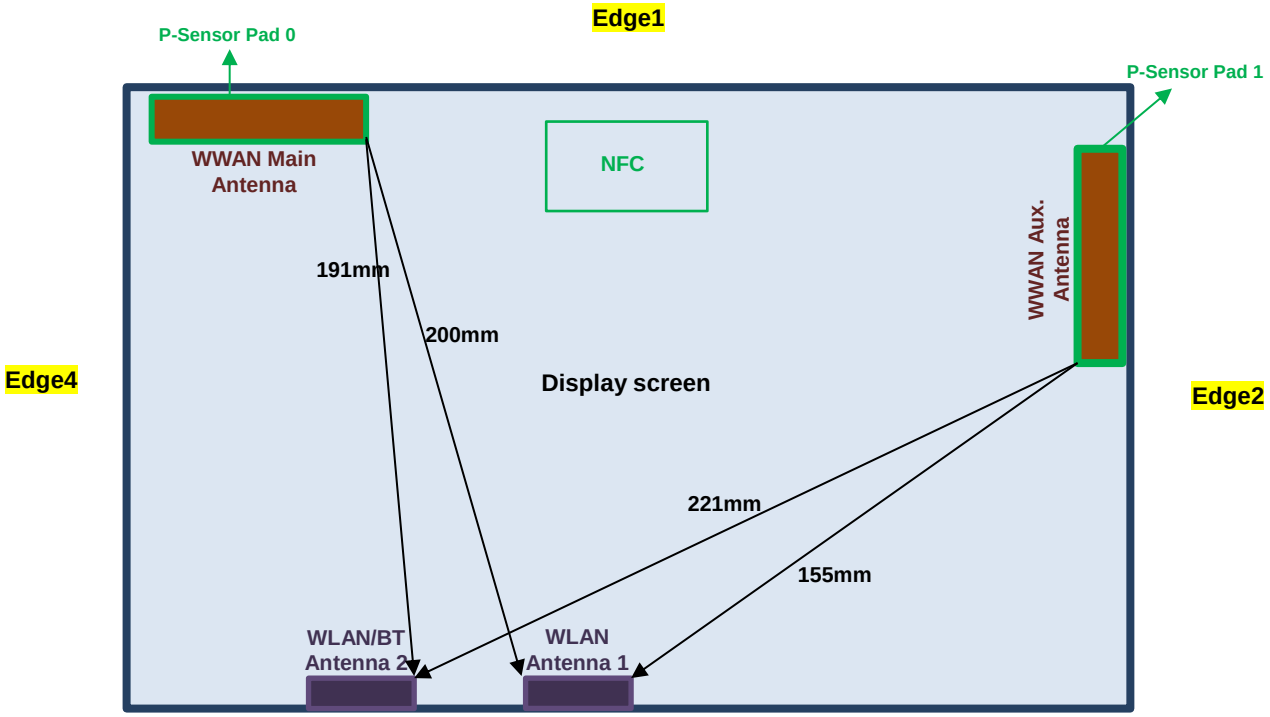
Configure	CA Configuration (BCS)	PCC							SCC1				SCC2				SCC3				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	2A-2A-5B	2	20	1900	19100	QPSK	1	0	2	20	1960	900	5	10	881.5	2525	5	10	891.4	2624	24.12	24.11
	2A-2A-5A-30A	2	20	1900	19100	QPSK	1	0	2	20	1960	900	5	10	881.5	2525	30	10	2355	9820	24.00	24.11
	2A-2A-12A-30A	2	20	1900	19100	QPSK	1	0	2	20	1960	900	12	10	737.5	5095	30	10	2355	9820	24.17	24.11
	2A-2A-12A-66A	2	20	1900	19100	QPSK	1	0	2	20	1960	900	12	10	737.5	5095	66	20	2155	66886	24.05	24.11
	2A-2A-13A-66A	2	20	1900	19100	QPSK	1	0	2	20	1960	900	13	10	751	5230	66	20	2155	66886	24.10	24.11
	2A-2A-30A-66A	2	20	1900	19100	QPSK	1	0	2	20	1960	900	30	10	2355	9820	66	20	2155	66886	23.99	24.11
	2A-2A-66A-66A	2	20	1900	19100	QPSK	1	0	2	20	1960	900	66	20	2155	66886	66	20	2190	67236	24.15	24.11
	2A-12A-30A-66A	2	20	1900	19100	QPSK	1	0	12	10	737.5	5095	30	10	2355	9820	66	20	2155	66886	24.16	24.11
	2A-12A-66A-66A	2	20	1900	19100	QPSK	1	0	12	10	737.5	5095	66	20	2155	66886	66	20	2190	67236	24.07	24.11
	2A-13A-66A-66A	2	20	1900	19100	QPSK	1	0	13	10	751	5230	66	20	2155	66886	66	20	2190	67236	23.97	24.11
	2A-13A-66C	2	20	1900	19100	QPSK	1	0	13	10	751	5230	66	20	2155	66886	66	20	2174.8	67084	24.20	24.11
	2A-30A-66A-66A	2	20	1900	19100	QPSK	1	0	30	10	2355	9820	66	20	2155	66886	66	20	2190	67236	24.16	24.11
	12A-30A-66A-66A	12	10	707.5	23095	QPSK	1	0	30	10	2355	9820	66	20	2155	66886	66	20	2190	67236	23.91	23.79

<Five Carrier power verification>

Configure	CA Configuration (BCS)	PCC							SCC1				SCC2				SCC3				SCC4				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	2A-2A-5A-66C	2	20	1900	19100	QPSK	1	0	2	20	1960	900	5	10	881.5	2525	66	20	2155	66886	66	20	2174.8	67084	24.15	24.11
	2A-5B-30A-66A	2	20	1900	19100	QPSK	1	0	5	10	881.5	2525	5	10	891.4	2624	30	10	2355	9820	66	20	2155	66886	24.22	24.11
	2A-5B-66A-66A	2	20	1900	19100	QPSK	1	0	5	10	881.5	2525	5	10	891.4	2624	66	20	2155	66886	66	20	2190	67236	24.07	24.11
	2A-5B-66C	2	20	1900	19100	QPSK	1	0	5	10	881.5	2525	5	10	891.4	2624	66	20	2155	66886	66	20	2174.8	67084	24.13	24.11
	2A-13A-46D	2	20	1900	19100	QPSK	1	0	13	10	751	5230	46	20	5537.5	50665	46	20	5557.3	50863	46	20	5577.1	51061	24.02	24.11
	2A-46D-66A	2	20	1900	19100	QPSK	1	0	46	20	5537.5	50665	46	20	5557.3	50863	46	20	5577.1	51061	66	20	2155	66886	23.98	24.11
	5B-30A-66A-66A	5	10	836.5	20525	QPSK	1	0	5	10	891.4	2624	30	10	2355	9820	66	20	2155	66886	66	20	2174.8	67084	23.59	23.47
	13A-46D-66A	13	10	782	23230	QPSK	1	0	46	20	5537.5	50665	46	20	5557.3	50863	46	20	5577.1	51061	66	20	2155	66886	23.54	23.65

13. Antenna Location

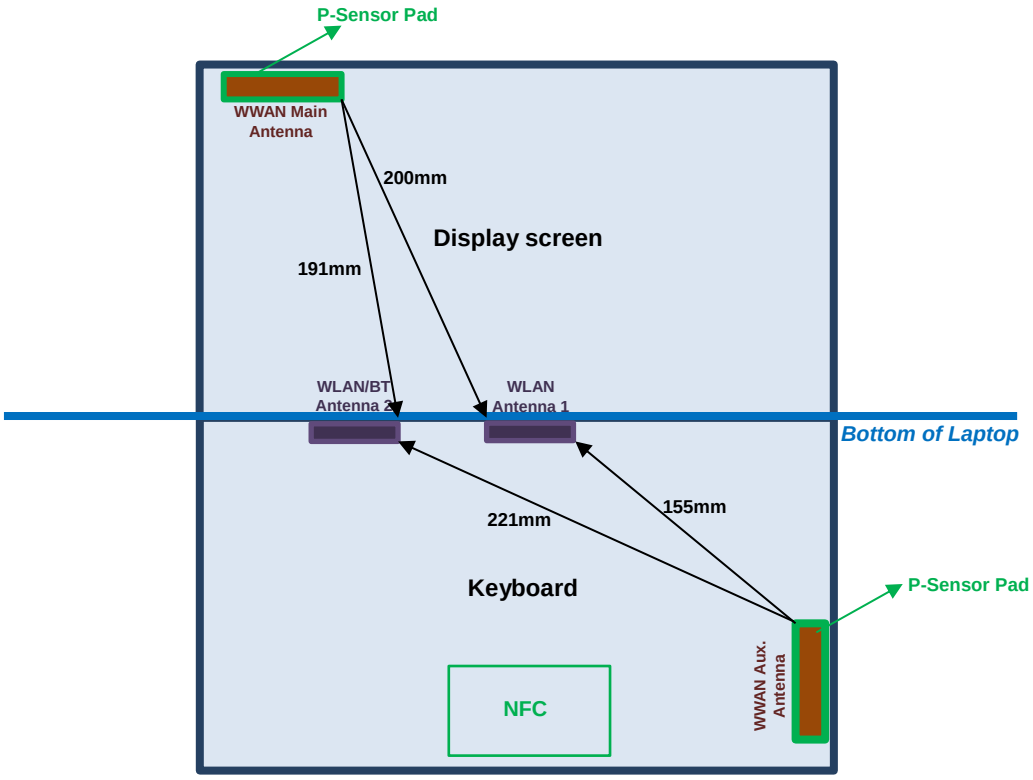
<For Tablet Mode>



Front View

Antenna distance to surface edge (mm)				
Tablet Mode	Edge 1	Edge 2	Edge 3	Edge 4
WWAN Main	5	222	193	18
WWAN Aux	13	3	110	299

<For Laptop Mode>



Antenna distance to surface edge (mm)	
Tablet Mode	Bottom of laptop
WWAN Main	202.2

<SAR test exclusion table>

General Note:

1. The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
2. Maximum power is the source-based time-average power and represents the maximum RF output power among production units
3. Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
4. Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
5. Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:
   [(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
   - f(GHz) is the RF channel transmit frequency in GHz
   - Power and distance are rounded to the nearest mW and mm before calculation
   - The result is rounded to one decimal place for comparison
6. Per KDB 447498 D01v06, at 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following
   a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
   b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz

<WWAN Main>

	Wireless Interface	WCDMA Band V	WCDMA Band IV	WCDMA Band II	LTE Band 14	LTE Band 12	LTE Band 17	LTE Band 13	LTE Band 5	LTE Band 26	LTE Band 4	LTE Band 66	LTE Band 2	LTE Band 25	LTE Band 30	LTE Band 7	LTE Band 38	LTE Band 41
Exposure Position	Calculated Frequency	846MHz	1750MHz	1907MHz	796MHz	715MHz	713MHz	784MHz	848MHz	848MHz	1754MHz	1779MHz	1909MHz	1914MHz	2312MHz	2567MHz	2617MHz	2687MHz
	Maximum power (dBm)	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	23	24.5	24.5	24.5
	Maximum rated power(mW)	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	200.0	282.0	282.0	282.0
Bottom Face	Separation distance(mm)	5.0																
	exclusion threshold	51.9	74.6	77.9	50.3	47.7	47.6	49.9	51.9	51.9	74.7	75.2	77.9	78.0	60.8	90.4	91.2	92.5
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	5.0																
	exclusion threshold	51.9	74.6	77.9	50.3	47.7	47.6	49.9	51.9	51.9	74.7	75.2	77.9	78.0	60.8	90.4	91.2	92.5
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 2	Separation distance(mm)	222.0																
	exclusion threshold	1133.0	1833.0	1829.0	965.0	997.0	995.0	1068.0	1135.0	1135.0	1833.0	1832.0	1829.0	1828.0	1819.0	1814.0	1813.0	1812.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Edge 3	Separation distance(mm)	193.0																
	exclusion threshold	970.0	1543.0	1539.0	831.0	859.0	857.0	917.0	971.0	971.0	1543.0	1542.0	1539.0	1538.0	1529.0	1524.0	1523.0	1522.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Edge 4	Separation distance(mm)	18.0																
	exclusion threshold	14.4	20.7	21.6	14.0	13.3	13.2	13.9	14.4	14.4	20.8	20.9	21.7	21.7	16.9	25.1	25.3	25.7
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bottom of Laptop	Separation distance(mm)	202.2																
	exclusion threshold	1021.0	1635.0	1631.0	873.0	903.0	901.0	965.0	1023.0	1023.0	1635.0	1634.0	1631.0	1630.0	1621.0	1616.0	1615.0	1614.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

<WWAN Aux>

	Wireless Interface	WCDMA Band V	WCDMA Band IV	WCDMA Band II	LTE Band 14	LTE Band 12	LTE Band 17	LTE Band 13	LTE Band 5	LTE Band 26	LTE Band 4	LTE Band 66	LTE Band 2	LTE Band 25	LTE Band 30	LTE Band 7	LTE Band 38	LTE Band 41
Exposure Position	Calculated Frequency	846MHz	1750MHz	1907MHz	796MHz	715MHz	713MHz	784MHz	848MHz	848MHz	1754MHz	1779MHz	1909MHz	1914MHz	2312MHz	2567MHz	2617MHz	2687MHz
	Maximum power (dBm)	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	23	24.5	24.5	24.5
	Maximum rated power(mW)	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	200.0	282.0	282.0	282.0
Bottom Face	Separation distance(mm)	5.0																
	exclusion threshold	51.9	74.6	77.9	50.3	47.7	47.6	49.9	51.9	51.9	74.7	75.2	77.9	78.0	60.8	90.4	91.2	92.5
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 1	Separation distance(mm)	13.0																
	exclusion threshold	20.0	28.7	30.0	19.4	18.3	18.3	19.2	20.0	20.0	28.7	28.9	30.0	30.0	23.4	34.8	35.1	35.6
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 2	Separation distance(mm)	5.0																
	exclusion threshold	51.9	74.6	77.9	50.3	47.7	47.6	49.9	51.9	51.9	74.7	75.2	77.9	78.0	60.8	90.4	91.2	92.5
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge 3	Separation distance(mm)	110.0																
	exclusion threshold	501.0	713.0	709.0	446.0	463.0	463.0	483.0	502.0	502.0	713.0	712.0	709.0	708.0	699.0	694.0	693.0	692.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Edge 4	Separation distance(mm)	299.0																
	exclusion threshold	1567.0	2603.0	2599.0	1322.0	1364.0	1361.0	1471.0	1571.0	1571.0	2603.0	2602.0	2599.0	2598.0	2589.0	2584.0	2583.0	2582.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Bottom of Laptop	Separation distance(mm)	5.0																
	exclusion threshold	51.9	74.6	77.9	50.3	47.7	47.6	49.9	51.9	51.9	74.7	75.2	77.9	78.0	60.8	90.4	91.2	92.5
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

14. Power reduction mechanism

General Note:

1. The device is to optimize and keep the better and suitable WWAN performance for different user scenario and operating modes accordingly by using GMR sensor and Proximity sensor and Tx switch.
2. Tablet Mode and NB mode:
   Condition 1:
   a. When proximity sensor is triggered by Main antenna human proximity, WWAN Tx swapping to Aux1 antenna, and vice versa.
   b. Either WWAN main or Aux 1 antenna can be as TX transmission, but only 1 antenna can transmit at the same time.
   Condition 2:
   a. When proximity sensor is triggered by both Main and Aux1 antenna human proximity at the same time, Tx power will be reduced for SAR consideration.
3. The table below are showing different P-sensor trigger configuration what the transmit antenna is active, due to the device is according to P-sensor trigger to define the antenna switch to get better performance, below case1 to 4, only case 1 to be consider SAR testing at 0mm distance for required test position, due to in this condition the device is connect the human body and both sensor pad is trigger, for other case even either one P-sensor is trigger which the transmit antenna will be switch and away human body, therefore, according to KDB 616217 to verify EUT transmitting full power at trigger distance -1mm.
4. For NB mode SAR testing is not necessary, due to in normal usage which the P-sensor 1 will always trigger and the transmit antenna switch to LTE main antenna and the antenna to bottom of laptop distance is higher than 200mm.
5. When the P-sensor 1 is triggered and LTE main is transmitting which edge 4 is consider full power mode SAR testing, due to the P-sensor 0 at edge 4 was not triggered, when the P-sensor 0 is triggered and LTE aux1 is transmitting which edge 1 is consider full power mode SAR testing, due to the P-sensor 1 at edge 1 was not triggered
6. When the P-sensor 0 and 1 is trigger at the same time(case1), the LTE main and Aux 1 supports different bands are list below
   a. LTE Main: WCDMA B2/4, LTE B2/4/7/12/17/25/30/38/41/66
   b. LTE Aux1: WCDMA B5, LTE B5/13/14/26

Configuration		Tx switch	Proximity Sensor 0 DPR 1	Proximity Sensor 1 DPR2	Tx location	Output power state
Tablet / NB Mode	Case 1	Activate	on	on	Main or Aux1	Reduce
	Case 2	Activate	on	off	Main	Full
	Case 3	Activate	off	on	Aux	Full
	Case 4	Activate	off	off	Main	Full

SAR Test consideration		
Tablet	Case 1	1. Bottom Face, Edge1/4 for LTE Main at reduced power, Edge 1 for LTE aux1 at full power 2. Bottom Face. Edge1/2 for LTE aux1 at reduced power,, Edge 4 for LTE Main at full power
	Case 2	according to KDB 616217 to verify EUT transmitting full power at trigger distance -1mm[(3)]
	Case 3	according to KDB 616217 to verify EUT transmitting full power at trigger distance -1mm[(3)]
	Case 4	according to KDB 616217 to verify EUT transmitting full power at trigger distance -1mm[(3)]

15. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
   a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
   b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
   c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
   d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
   e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The Reported TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix
2. Per KDB 447498 D01v06, for each exposure position, 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
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
4. For the exposure positions that proximity sensor power reduction is applied for SAR compliance, additional SAR testing with EUT transmitting full power in normal mode was performed; 24mm for Back of Display Screen for 32mm, Bottom of Laptop, 7mm for WWAN Main ANT bottom face, 23mm for WWAN Aux ANT bottom face, 13mm for edge1 and 5mm for edge2.

UMTS Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”.
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B12/B26 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, 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.
7. LTE band 4/5/17/38 SAR test was covered by Band 66/26/12/41; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
   a. The maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion.
   b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

15.1 Body SAR

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Battery	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Back of Display Screen	32mm	Main	Battery 1	OFF	9538	1907.6	23.99	24.50	1.125	0.19	0.109	0.123
	WCDMA II	RMC 12.2Kbps	Bottom of Laptop	24mm	Aux	Battery 1	OFF	9538	1907.6	23.99	24.50	1.125	-0.11	0.121	0.136
	WCDMA II	RMC 12.2Kbps	Bototm Face	7mm	Main	Battery 1	OFF	9538	1907.6	23.99	24.50	1.125	-0.06	0.102	0.115
	WCDMA II	RMC 12.2Kbps	Bototm Face	23mm	Aux	Battery 1	OFF	9538	1907.6	23.99	24.50	1.125	0.18	0.087	0.098
	WCDMA II	RMC 12.2Kbps	Edge 1	13mm	Main	Battery 1	OFF	9538	1907.6	23.99	24.50	1.125	-0.05	0.176	0.198
01	WCDMA II	RMC 12.2Kbps	Edge 2	5mm	Aux	Battery 1	OFF	9538	1907.6	23.99	24.50	1.125	0.18	0.821	0.923
	WCDMA II	RMC 12.2Kbps	Edge 2	5mm	Aux	Battery 1	OFF	9262	1852.4	23.74	24.50	1.191	0.1	0.540	0.643
	WCDMA II	RMC 12.2Kbps	Edge 2	5mm	Aux	Battery 1	OFF	9400	1880	23.82	24.50	1.169	0.14	0.622	0.727
	WCDMA II	RMC 12.2Kbps	Bottom Face	0mm	Main	Battery 1	ON	9538	1907.6	21.26	22.00	1.186	0.06	0.334	0.396
	WCDMA II	RMC 12.2Kbps	Edge 1	0mm	Main	Battery 1	ON	9538	1907.6	21.26	22.00	1.186	0.19	0.763	0.905
	WCDMA II	RMC 12.2Kbps	Edge 1	0mm	Main	Battery 1	ON	9262	1852.4	21.15	22.00	1.216	0.12	0.756	0.919
	WCDMA II	RMC 12.2Kbps	Edge 1	0mm	Main	Battery 1	ON	9400	1880	21.18	22.00	1.208	0.12	0.683	0.825
	WCDMA II	RMC 12.2Kbps	Edge 1	0mm	Aux	Battery 1	OFF	9538	1907.6	23.99	24.50	1.125	-0.17	0.082	0.092
	WCDMA II	RMC 12.2Kbps	Edge 4	0mm	Main	Battery 1	OFF	9538	1907.6	23.99	24.50	1.125	-0.13	0.098	0.110
	WCDMA II	RMC 12.2Kbps	Edge 2	5mm	Aux	Battery 2	OFF	9538	1907.6	23.99	24.50	1.125	0.11	0.692	0.901
	WCDMA II	RMC 12.2Kbps	Edge 2	5mm	Aux	Battery 3	OFF	9538	1907.6	23.99	24.50	1.125	0.08	0.667	0.882

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Battery	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV	RMC 12.2Kbps	Back of Display Screen	32mm	Main	Battery 1	OFF	1413	1732.6	24.23	24.50	1.064	0.06	0.060	0.064
	WCDMA IV	RMC 12.2Kbps	Bottom of Laptop	24mm	Aux	Battery 1	OFF	1413	1732.6	24.23	24.50	1.064	-0.11	0.126	0.134
	WCDMA IV	RMC 12.2Kbps	Bototm Face	7mm	Main	Battery 1	OFF	1413	1732.6	24.23	24.50	1.064	-0.13	0.128	0.136
	WCDMA IV	RMC 12.2Kbps	Bototm Face	23mm	Aux	Battery 1	OFF	1413	1732.6	24.23	24.50	1.064	-0.15	0.081	0.086
	WCDMA IV	RMC 12.2Kbps	Edge 1	13mm	Main	Battery 1	OFF	1413	1732.6	24.23	24.50	1.064	0.02	0.152	0.162
	WCDMA IV	RMC 12.2Kbps	Edge 2	5mm	Aux	Battery 1	OFF	1413	1732.6	24.23	24.50	1.064	0.19	0.526	0.560
02	WCDMA IV	RMC 12.2Kbps	Edge 2	5mm	Aux	Battery 1	OFF	1312	1712.4	23.64	24.50	1.219	0.13	0.532	0.649
	WCDMA IV	RMC 12.2Kbps	Edge 2	5mm	Aux	Battery 1	OFF	1513	1752.6	23.73	24.50	1.194	0.16	0.474	0.566
	WCDMA IV	RMC 12.2Kbps	Bottom Face	0mm	Main	Battery 1	ON	1413	1732.6	19.69	20.00	1.074	-0.02	0.179	0.192
	WCDMA IV	RMC 12.2Kbps	Edge 1	0mm	Main	Battery 1	ON	1413	1732.6	19.69	20.00	1.074	0.13	0.422	0.453
	WCDMA IV	RMC 12.2Kbps	Edge 1	0mm	Aux	Battery 1	OFF	1413	1732.6	24.23	24.50	1.064	-0.1	0.064	0.068
	WCDMA IV	RMC 12.2Kbps	Edge 4	0mm	Main	Battery 1	OFF	1413	1732.6	24.23	24.50	1.064	0.06	0.369	0.393
	WCDMA IV	RMC 12.2Kbps	Edge 2	5mm	Aux	Battery 2	OFF	1312	1712.4	23.64	24.50	1.219	0.1	0.496	0.605
	WCDMA IV	RMC 12.2Kbps	Edge 2	5mm	Aux	Battery 3	OFF	1312	1712.4	23.64	24.50	1.219	0.11	0.501	0.611
	WCDMA V	RMC 12.2Kbps	Back of Display Screen	32mm	Main	Battery 1	OFF	4182	836.4	23.97	24.50	1.130	0.16	0.042	0.047
	WCDMA V	RMC 12.2Kbps	Bottom of Laptop	24mm	Aux	Battery 1	OFF	4182	836.4	23.97	24.50	1.130	-0.02	0.105	0.119
	WCDMA V	RMC 12.2Kbps	Bototm Face	7mm	Main	Battery 1	OFF	4182	836.4	23.97	24.50	1.130	0.1	0.179	0.202
	WCDMA V	RMC 12.2Kbps	Bototm Face	23mm	Aux	Battery 1	OFF	4182	836.4	23.97	24.50	1.130	0.13	0.045	0.051
	WCDMA V	RMC 12.2Kbps	Edge 1	13mm	Main	Battery 1	OFF	4182	836.4	23.97	24.50	1.130	0.13	0.232	0.262
	WCDMA V	RMC 12.2Kbps	Edge 2	5mm	Aux	Battery 1	OFF	4182	836.4	23.97	24.50	1.130	0.18	0.399	0.451
03	WCDMA V	RMC 12.2Kbps	Bototm Face	0mm	Aux	Battery 1	ON	4182	836.4	21.30	23.00	1.479	-0.13	0.764	1.130
	WCDMA V	RMC 12.2Kbps	Bototm Face	0mm	Aux	Battery 1	ON	4132	826.4	21.16	23.00	1.528	-0.14	0.715	1.092
	WCDMA V	RMC 12.2Kbps	Bototm Face	0mm	Aux	Battery 1	ON	4233	846.6	21.26	23.00	1.493	0.03	0.703	1.049
	WCDMA V	RMC 12.2Kbps	Edge 1	0mm	Aux	Battery 1	OFF	4182	836.4	23.97	24.50	1.130	0.11	0.016	0.018
	WCDMA V	RMC 12.2Kbps	Edge 2	0mm	Aux	Battery 1	ON	4182	836.4	21.30	23.00	1.479	0.08	0.485	0.717
	WCDMA V	RMC 12.2Kbps	Edge 4	0mm	Main	Battery 1	OFF	4182	836.4	23.97	24.50	1.130	0.06	0.226	0.255
	WCDMA V	RMC 12.2Kbps	Bototm Face	0mm	Aux	Battery 2	ON	4182	836.4	21.30	23.00	1.479	-0.11	0.705	1.043
	WCDMA V	RMC 12.2Kbps	Bototm Face	0mm	Aux	Battery 3	ON	4182	836.4	21.30	23.00	1.479	-0.19	0.692	1.024

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Battery	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Back of Display Screen	32mm	Main	Battery 1	OFF	19100	1900	24.11	24.50	1.094	-0.13	0.086	0.094
	LTE Band 2	20M	QPSK	50	0	Back of Display Screen	32mm	Main	Battery 1	OFF	19100	1900	23.02	23.50	1.117	-0.14	0.061	0.068
	LTE Band 2	20M	QPSK	1	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	19100	1900	24.11	24.50	1.094	0.1	0.115	0.126
	LTE Band 2	20M	QPSK	50	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	19100	1900	23.02	23.50	1.117	0.11	0.087	0.097
	LTE Band 2	20M	QPSK	1	0	Bototm Face	7mm	Main	Battery 1	OFF	19100	1900	24.11	24.50	1.094	0.13	0.097	0.106
	LTE Band 2	20M	QPSK	50	0	Bototm Face	7mm	Main	Battery 1	OFF	19100	1900	23.02	23.50	1.117	0.17	0.075	0.084
	LTE Band 2	20M	QPSK	1	0	Bototm Face	23mm	Aux	Battery 1	OFF	19100	1900	24.11	24.50	1.094	0.17	0.084	0.092
	LTE Band 2	20M	QPSK	50	0	Bototm Face	23mm	Aux	Battery 1	OFF	19100	1900	23.02	23.50	1.117	0.19	0.072	0.080
	LTE Band 2	20M	QPSK	1	0	Edge 1	13mm	Main	Battery 1	OFF	19100	1900	24.11	24.50	1.094	0.06	0.103	0.113
	LTE Band 2	20M	QPSK	50	0	Edge 1	13mm	Main	Battery 1	OFF	19100	1900	23.02	23.50	1.117	0.07	0.083	0.093
	LTE Band 2	20M	QPSK	1	0	Edge 2	5mm	Aux	Battery 1	OFF	19100	1900	24.11	24.50	1.094	0.13	0.664	0.726
	LTE Band 2	20M	QPSK	50	0	Edge 2	5mm	Aux	Battery 1	OFF	19100	1900	23.02	23.50	1.117	0.12	0.525	0.586
	LTE Band 2	20M	QPSK	1	0	Bottom Face	0mm	Main	Battery 1	ON	19100	1900	21.25	22.00	1.189	0.05	0.311	0.370
	LTE Band 2	20M	QPSK	50	0	Bottom Face	0mm	Main	Battery 1	ON	19100	1900	20.09	21.00	1.233	-0.11	0.236	0.291
	LTE Band 2	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 1	ON	19100	1900	21.25	22.00	1.189	0.11	0.622	0.739
04	LTE Band 2	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 1	ON	18700	1860	20.48	22.00	1.419	0.03	0.552	0.783
	LTE Band 2	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 1	ON	18900	1880	20.66	22.00	1.361	0.03	0.541	0.737
	LTE Band 2	20M	QPSK	50	0	Edge 1	0mm	Main	Battery 1	ON	19100	1900	20.09	21.00	1.233	0.04	0.466	0.575
	LTE Band 2	20M	QPSK	1	0	Edge 1	0mm	Aux	Battery 1	OFF	19100	1900	24.11	24.50	1.094	0.02	0.012	0.013
	LTE Band 2	20M	QPSK	50	0	Edge 1	0mm	Aux	Battery 1	OFF	19100	1900	23.02	23.50	1.117	-0.09	0.005	0.006
	LTE Band 2	20M	QPSK	1	0	Edge 4	0mm	Main	Battery 1	OFF	19100	1900	24.11	24.50	1.094	0.15	0.083	0.091
	LTE Band 2	20M	QPSK	50	0	Edge 4	0mm	Main	Battery 1	OFF	19100	1900	23.02	23.50	1.117	0.03	0.074	0.083
	LTE Band 2	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 2	ON	18700	1860	20.48	22.00	1.419	0	0.543	0.771
	LTE Band 2	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 3	ON	18700	1860	20.48	22.00	1.419	0.06	0.532	0.755
	LTE Band 7	20M	QPSK	1	0	Back of Display Screen	32mm	Main	Battery 1	OFF	20850	2510	24.06	24.50	1.107	0.03	0.091	0.101
	LTE Band 7	20M	QPSK	50	0	Back of Display Screen	32mm	Main	Battery 1	OFF	20850	2510	22.86	23.50	1.159	-0.01	0.075	0.087
	LTE Band 7	20M	QPSK	1	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	20850	2510	24.06	24.50	1.107	0.15	0.076	0.084
	LTE Band 7	20M	QPSK	50	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	20850	2510	22.86	23.50	1.159	-0.02	0.051	0.059
	LTE Band 7	20M	QPSK	1	0	Bototm Face	7mm	Main	Battery 1	OFF	20850	2510	24.06	24.50	1.107	0.03	0.367	0.406
	LTE Band 7	20M	QPSK	50	0	Bototm Face	7mm	Main	Battery 1	OFF	20850	2510	22.86	23.50	1.159	-0.14	0.277	0.321
	LTE Band 7	20M	QPSK	1	0	Bototm Face	23mm	Aux	Battery 1	OFF	20850	2510	24.06	24.50	1.107	-0.17	0.029	0.032
	LTE Band 7	20M	QPSK	50	0	Bototm Face	23mm	Aux	Battery 1	OFF	20850	2510	22.86	23.50	1.159	0.15	0.021	0.024
	LTE Band 7	20M	QPSK	1	0	Edge 1	13mm	Main	Battery 1	OFF	20850	2510	24.06	24.50	1.107	0.03	0.430	0.476
	LTE Band 7	20M	QPSK	50	0	Edge 1	13mm	Main	Battery 1	OFF	20850	2510	22.86	23.50	1.159	0.08	0.316	0.366
	LTE Band 7	20M	QPSK	1	0	Edge 2	5mm	Aux	Battery 1	OFF	20850	2510	24.06	24.50	1.107	0.08	0.920	1.018
	LTE Band 7	20M	QPSK	1	0	Edge 2	5mm	Aux	Battery 1	OFF	21100	2535	24.00	24.50	1.122	0.07	0.926	1.039
05	LTE Band 7	20M	QPSK	1	0	Edge 2	5mm	Aux	Battery 1	OFF	21350	2560	23.97	24.50	1.130	0.11	1.010	1.141
	LTE Band 7	20M	QPSK	50	0	Edge 2	5mm	Aux	Battery 1	OFF	20850	2510	22.86	23.50	1.159	0.19	0.689	0.798
	LTE Band 7	20M	QPSK	100	0	Edge 2	5mm	Aux	Battery 1	OFF	20850	2510	22.81	23.50	1.172	0.08	0.679	0.796
	LTE Band 7	20M	QPSK	1	0	Bottom Face	0mm	Main	Battery 1	ON	20850	2510	18.35	19.00	1.161	0.12	0.213	0.247
	LTE Band 7	20M	QPSK	50	0	Bottom Face	0mm	Main	Battery 1	ON	20850	2510	17.21	18.00	1.199	0.07	0.181	0.217
	LTE Band 7	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 1	ON	20850	2510	18.35	19.00	1.161	0.06	0.658	0.764
	LTE Band 7	20M	QPSK	50	0	Edge 1	0mm	Main	Battery 1	ON	20850	2510	17.21	18.00	1.199	0.19	0.478	0.573
	LTE Band 7	20M	QPSK	1	0	Edge 1	0mm	Aux	Battery 1	OFF	20850	2510	24.06	24.50	1.107	-0.11	0.083	0.092
	LTE Band 7	20M	QPSK	50	0	Edge 1	0mm	Aux	Battery 1	OFF	20850	2510	22.86	23.50	1.159	-0.19	0.064	0.074
	LTE Band 7	20M	QPSK	1	0	Edge 4	0mm	Main	Battery 1	OFF	20850	2510	24.06	24.50	1.107	0.1	0.496	0.549
	LTE Band 7	20M	QPSK	50	0	Edge 4	0mm	Main	Battery 1	OFF	20850	2510	22.86	23.50	1.159	0	0.376	0.436
	LTE Band 7	20M	QPSK	1	0	Edge 2	5mm	Aux	Battery 2	ON	21350	2560	23.97	24.50	1.130	0.01	0.987	1.115
	LTE Band 7	20M	QPSK	1	0	Edge 2	5mm	Aux	Battery 3	ON	21350	2560	23.97	24.50	1.130	0.03	0.982	1.109

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Battery	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12	10M	QPSK	1	0	Back of Display Screen	32mm	Main	Battery 1	OFF	23095	707.5	23.79	24.50	1.178	0.05	0.029	0.034
	LTE Band 12	10M	QPSK	25	0	Back of Display Screen	32mm	Main	Battery 1	OFF	23095	707.5	22.48	23.50	1.265	-0.11	0.015	0.019
	LTE Band 12	10M	QPSK	1	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	23095	707.5	23.79	24.50	1.178	0.12	0.035	0.041
	LTE Band 12	10M	QPSK	25	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	23095	707.5	22.48	23.50	1.265	0.03	0.028	0.035
	LTE Band 12	10M	QPSK	1	0	Bototm Face	7mm	Main	Battery 1	OFF	23095	707.5	23.79	24.50	1.178	0.06	0.047	0.055
	LTE Band 12	10M	QPSK	25	0	Bototm Face	7mm	Main	Battery 1	OFF	23095	707.5	22.48	23.50	1.265	0.02	0.033	0.042
	LTE Band 12	10M	QPSK	1	0	Bototm Face	23mm	Aux	Battery 1	OFF	23095	707.5	23.79	24.50	1.178	0.14	0.006	0.007
	LTE Band 12	10M	QPSK	25	0	Bototm Face	23mm	Aux	Battery 1	OFF	23095	707.5	22.48	23.50	1.265	-0.02	0.005	0.006
	LTE Band 12	10M	QPSK	1	0	Edge 1	13mm	Main	Battery 1	OFF	23095	707.5	23.79	24.50	1.178	0.06	0.062	0.073
	LTE Band 12	10M	QPSK	25	0	Edge 1	13mm	Main	Battery 1	OFF	23095	707.5	22.48	23.50	1.265	-0.05	0.047	0.059
	LTE Band 12	10M	QPSK	1	0	Edge 2	5mm	Aux	Battery 1	OFF	23095	707.5	23.79	24.50	1.178	0.19	0.073	0.086
	LTE Band 12	10M	QPSK	25	0	Edge 2	5mm	Aux	Battery 1	OFF	23095	707.5	22.48	23.50	1.265	0.15	0.055	0.070
	LTE Band 12	10M	QPSK	1	0	Bottom Face	0mm	Main	Battery 1	ON	23095	707.5	22.09	23.00	1.233	-0.17	0.353	0.435
	LTE Band 12	10M	QPSK	25	0	Bottom Face	0mm	Main	Battery 1	ON	23095	707.5	20.87	22.00	1.297	-0.1	0.293	0.380
06	LTE Band 12	10M	QPSK	1	0	Edge 1	0mm	Main	Battery 1	ON	23095	707.5	22.09	23.00	1.233	0.14	0.615	0.758
	LTE Band 12	10M	QPSK	25	0	Edge 1	0mm	Main	Battery 1	ON	23095	707.5	20.87	22.00	1.297	0.18	0.521	0.676
	LTE Band 12	10M	QPSK	1	0	Edge 1	0mm	Aux	Battery 1	OFF	23095	707.5	23.79	24.50	1.178	0	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	Edge 1	0mm	Aux	Battery 1	OFF	23095	707.5	22.48	23.50	1.265	0	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	Edge 4	0mm	Main	Battery 1	OFF	23095	707.5	23.79	24.50	1.178	0.02	0.133	0.157
	LTE Band 12	10M	QPSK	25	0	Edge 4	0mm	Main	Battery 1	OFF	23095	707.5	22.48	23.50	1.265	0.03	0.109	0.138
	LTE Band 12	10M	QPSK	1	0	Edge 1	0mm	Main	Battery 2	ON	23095	707.5	22.09	23.00	1.233	0.18	0.603	0.744
	LTE Band 12	10M	QPSK	1	0	Edge 1	0mm	Main	Battery 3	ON	23095	707.5	22.09	23.00	1.233	0.19	0.586	0.723
	LTE Band 13	10M	QPSK	1	0	Back of Display Screen	32mm	Main	Battery 1	OFF	23230	782	23.65	24.50	1.216	0.03	0.035	0.043
	LTE Band 13	10M	QPSK	25	0	Back of Display Screen	32mm	Main	Battery 1	OFF	23230	782	22.60	23.50	1.230	-0.11	0.029	0.036
	LTE Band 13	10M	QPSK	1	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	23230	782	23.65	24.50	1.216	0.15	0.052	0.063
	LTE Band 13	10M	QPSK	25	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	23230	782	22.60	23.50	1.230	0.03	0.040	0.049
	LTE Band 13	10M	QPSK	1	0	Bototm Face	7mm	Main	Battery 1	OFF	23230	782	23.65	24.50	1.216	-0.14	0.063	0.077
	LTE Band 13	10M	QPSK	25	0	Bototm Face	7mm	Main	Battery 1	OFF	23230	782	22.60	23.50	1.230	0.15	0.047	0.058
	LTE Band 13	10M	QPSK	1	0	Bototm Face	23mm	Aux	Battery 1	OFF	23230	782	23.65	24.50	1.216	0.09	0.010	0.012
	LTE Band 13	10M	QPSK	25	0	Bototm Face	23mm	Aux	Battery 1	OFF	23230	782	22.60	23.50	1.230	-0.19	0.007	0.009
	LTE Band 13	10M	QPSK	1	0	Edge 1	13mm	Main	Battery 1	OFF	23230	782	23.65	24.50	1.216	0.03	0.077	0.094
	LTE Band 13	10M	QPSK	25	0	Edge 1	13mm	Main	Battery 1	OFF	23230	782	22.60	23.50	1.230	0.02	0.062	0.076
	LTE Band 13	10M	QPSK	1	0	Edge 2	5mm	Aux	Battery 1	OFF	23230	782	23.65	24.50	1.216	-0.16	0.097	0.118
	LTE Band 13	10M	QPSK	25	0	Edge 2	5mm	Aux	Battery 1	OFF	23230	782	22.60	23.50	1.230	-0.02	0.074	0.091
07	LTE Band 13	10M	QPSK	1	0	Bottom Face	0mm	Aux	Battery 1	ON	23230	782	22.83	23.00	1.040	-0.06	1.040	1.082
	LTE Band 13	10M	QPSK	25	0	Bottom Face	0mm	Aux	Battery 1	ON	23230	782	21.83	22.00	1.040	-0.11	0.889	0.924
	LTE Band 13	10M	QPSK	25	0	Bottom Face	0mm	Aux	Battery 1	ON	23230	782	21.74	22.00	1.062	-0.11	0.889	0.944
	LTE Band 13	10M	QPSK	1	0	Edge 1	0mm	Aux	Battery 1	OFF	23230	782	23.65	24.50	1.216	0	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	Edge 1	0mm	Aux	Battery 1	OFF	23230	782	22.60	23.50	1.230	0	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	Edge 2	0mm	Aux	Battery 1	ON	23230	782	22.83	23.00	1.040	-0.18	0.625	0.650
	LTE Band 13	10M	QPSK	25	0	Edge 2	0mm	Aux	Battery 1	ON	23230	782	21.83	22.00	1.040	-0.14	0.528	0.549
	LTE Band 13	10M	QPSK	1	0	Edge 4	0mm	Main	Battery 1	OFF	23230	782	23.65	24.50	1.216	0.1	0.189	0.230
	LTE Band 13	10M	QPSK	25	0	Edge 4	0mm	Main	Battery 1	OFF	23230	782	22.60	23.50	1.230	0.11	0.149	0.183
	LTE Band 13	10M	QPSK	1	0	Bottom Face	0mm	Aux	Battery 2	ON	23230	782	22.83	23.00	1.040	-0.08	0.957	0.995
	LTE Band 13	10M	QPSK	1	0	Bottom Face	0mm	Aux	Battery 3	ON	23230	782	22.83	23.00	1.040	-0.02	0.923	0.960

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Battery	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 14	10M	QPSK	1	0	Back of Display Screen	32mm	Main	Battery 1	OFF	23330	793	23.60	24.50	1.230	0.06	0.037	0.046
	LTE Band 14	10M	QPSK	25	0	Back of Display Screen	32mm	Main	Battery 1	OFF	23330	793	22.51	23.50	1.256	-0.14	0.025	0.031
	LTE Band 14	10M	QPSK	1	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	23330	793	23.60	24.50	1.230	0.11	0.050	0.062
	LTE Band 14	10M	QPSK	25	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	23330	793	22.51	23.50	1.256	0.15	0.037	0.046
	LTE Band 14	10M	QPSK	1	0	Bototm Face	7mm	Main	Battery 1	OFF	23330	793	23.60	24.50	1.230	-0.06	0.085	0.105
	LTE Band 14	10M	QPSK	25	0	Bototm Face	7mm	Main	Battery 1	OFF	23330	793	22.51	23.50	1.256	0.09	0.071	0.089
	LTE Band 14	10M	QPSK	1	0	Bototm Face	23mm	Aux	Battery 1	OFF	23330	793	23.60	24.50	1.230	-0.12	0.011	0.014
	LTE Band 14	10M	QPSK	25	0	Bototm Face	23mm	Aux	Battery 1	OFF	23330	793	22.51	23.50	1.256	0.17	0.007	0.009
	LTE Band 14	10M	QPSK	1	0	Edge 1	13mm	Main	Battery 1	OFF	23330	793	23.60	24.50	1.230	0.13	0.091	0.112
	LTE Band 14	10M	QPSK	25	0	Edge 1	13mm	Main	Battery 1	OFF	23330	793	22.51	23.50	1.256	0.05	0.079	0.099
	LTE Band 14	10M	QPSK	1	0	Edge 2	5mm	Aux	Battery 1	OFF	23330	793	23.60	24.50	1.230	0.1	0.105	0.129
	LTE Band 14	10M	QPSK	25	0	Edge 2	5mm	Aux	Battery 1	OFF	23330	793	22.51	23.50	1.256	0.06	0.073	0.092
08	LTE Band 14	10M	QPSK	1	0	Bottom Face	0mm	Aux	Battery 1	ON	23330	793	22.99	23.00	1.002	-0.05	1.130	1.133
	LTE Band 14	10M	QPSK	25	0	Bottom Face	0mm	Aux	Battery 1	ON	23330	793	21.95	22.00	1.012	-0.05	0.995	1.007
	LTE Band 14	10M	QPSK	50	0	Bottom Face	0mm	Aux	Battery 1	ON	23330	793	21.87	22.00	1.030	-0.03	0.981	1.011
	LTE Band 14	10M	QPSK	1	0	Edge 1	0mm	Aux	Battery 1	OFF	23330	793	23.60	24.50	1.230	0	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	Edge 1	0mm	Aux	Battery 1	OFF	23330	793	22.51	23.50	1.256	0	0.001	0.001
	LTE Band 14	10M	QPSK	1	0	Edge 2	0mm	Aux	Battery 1	ON	23330	793	22.99	23.00	1.002	-0.16	0.713	0.715
	LTE Band 14	10M	QPSK	25	0	Edge 2	0mm	Aux	Battery 1	ON	23330	793	21.95	22.00	1.012	-0.16	0.569	0.576
	LTE Band 14	10M	QPSK	1	0	Edge 4	0mm	Main	Battery 1	OFF	23330	793	23.60	24.50	1.230	0.06	0.263	0.324
	LTE Band 14	10M	QPSK	25	0	Edge 4	0mm	Main	Battery 1	OFF	23330	793	22.51	23.50	1.256	0.11	0.202	0.254
	LTE Band 14	10M	QPSK	1	0	Bottom Face	0mm	Aux	Battery 2	ON	23330	793	22.99	23.00	1.002	0.02	1.010	1.012
	LTE Band 14	10M	QPSK	1	0	Bottom Face	0mm	Aux	Battery 3	ON	23330	793	22.99	23.00	1.002	0	0.985	0.987
	LTE Band 25	20M	QPSK	1	0	Back of Display Screen	32mm	Main	Battery 1	OFF	26340	1880	23.46	24.50	1.271	0.06	0.079	0.100
	LTE Band 25	20M	QPSK	50	0	Back of Display Screen	32mm	Main	Battery 1	OFF	26340	1880	22.38	23.50	1.294	0.11	0.059	0.076
	LTE Band 25	20M	QPSK	1	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	26340	1880	23.46	24.50	1.271	0.01	0.115	0.146
	LTE Band 25	20M	QPSK	50	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	26340	1880	22.38	23.50	1.294	0.13	0.090	0.116
	LTE Band 25	20M	QPSK	1	0	Bototm Face	7mm	Main	Battery 1	OFF	26340	1880	23.46	24.50	1.271	0.08	0.078	0.099
	LTE Band 25	20M	QPSK	50	0	Bototm Face	7mm	Main	Battery 1	OFF	26340	1880	22.38	23.50	1.294	0.12	0.063	0.082
	LTE Band 25	20M	QPSK	1	0	Bototm Face	23mm	Aux	Battery 1	OFF	26340	1880	23.46	24.50	1.271	0.01	0.056	0.071
	LTE Band 25	20M	QPSK	50	0	Bototm Face	23mm	Aux	Battery 1	OFF	26340	1880	22.38	23.50	1.294	0.14	0.045	0.058
	LTE Band 25	20M	QPSK	1	0	Edge 1	13mm	Main	Battery 1	OFF	26340	1880	23.46	24.50	1.271	0.19	0.091	0.116
	LTE Band 25	20M	QPSK	50	0	Edge 1	13mm	Main	Battery 1	OFF	26340	1880	22.38	23.50	1.294	0.02	0.072	0.093
	LTE Band 25	20M	QPSK	1	0	Edge 2	5mm	Aux	Battery 1	OFF	26340	1880	23.46	24.50	1.271	0.02	0.527	0.670
	LTE Band 25	20M	QPSK	50	0	Edge 2	5mm	Aux	Battery 1	OFF	26340	1880	22.38	23.50	1.294	-0.01	0.403	0.522
	LTE Band 25	20M	QPSK	1	0	Bottom Face	0mm	Main	Battery 1	ON	26590	1905	20.68	21.50	1.208	0.08	0.275	0.332
	LTE Band 25	20M	QPSK	50	0	Bottom Face	0mm	Main	Battery 1	ON	26590	1905	19.41	20.50	1.285	0.12	0.212	0.272
	LTE Band 25	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 1	ON	26590	1905	20.68	21.50	1.208	0.01	0.549	0.663
09	LTE Band 25	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 1	ON	26140	1860	20.02	21.50	1.406	0.14	0.502	0.706
	LTE Band 25	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 1	ON	26340	1880	20.28	21.50	1.324	0.19	0.472	0.625
	LTE Band 25	20M	QPSK	50	0	Edge 1	0mm	Main	Battery 1	ON	26590	1905	19.41	20.50	1.285	0.02	0.431	0.554
	LTE Band 25	20M	QPSK	1	0	Edge 1	0mm	Aux	Battery 1	OFF	26340	1880	23.46	24.50	1.271	0.01	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Edge 1	0mm	Aux	Battery 1	OFF	26340	1880	22.38	23.50	1.294	0.01	0.001	0.001
	LTE Band 25	20M	QPSK	1	0	Edge 4	0mm	Main	Battery 1	OFF	26340	1880	23.43	24.50	1.279	0.06	0.059	0.075
	LTE Band 25	20M	QPSK	50	0	Edge 4	0mm	Main	Battery 1	OFF	26340	1880	22.38	23.50	1.294	-0.04	0.047	0.061
	LTE Band 25	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 2	ON	26140	1860	20.02	21.50	1.406	0.13	0.469	0.659
	LTE Band 25	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 3	ON	26140	1860	20.02	21.50	1.406	0.17	0.483	0.679

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Battery	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 26	15M	QPSK	1	0	Back of Display Screen	32mm	Main	Battery 1	OFF	26865	831.5	23.45	24.50	1.274	0.02	0.042	0.053
	LTE Band 26	15M	QPSK	36	0	Back of Display Screen	32mm	Main	Battery 1	OFF	26865	831.5	22.27	23.50	1.327	-0.03	0.030	0.040
	LTE Band 26	15M	QPSK	1	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	26865	831.5	23.45	24.50	1.274	-0.04	0.047	0.060
	LTE Band 26	15M	QPSK	36	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	26865	831.5	22.27	23.50	1.327	0.05	0.041	0.054
	LTE Band 26	15M	QPSK	1	0	Bototm Face	7mm	Main	Battery 1	OFF	26865	831.5	23.45	24.50	1.274	-0.07	0.072	0.092
	LTE Band 26	15M	QPSK	36	0	Bototm Face	7mm	Main	Battery 1	OFF	26865	831.5	22.27	23.50	1.327	0.18	0.055	0.073
	LTE Band 26	15M	QPSK	1	0	Bototm Face	23mm	Aux	Battery 1	OFF	26865	831.5	23.45	24.50	1.274	0.1	0.039	0.050
	LTE Band 26	15M	QPSK	36	0	Bototm Face	23mm	Aux	Battery 1	OFF	26865	831.5	22.27	23.50	1.327	0.12	0.024	0.032
	LTE Band 26	15M	QPSK	1	0	Edge 1	13mm	Main	Battery 1	OFF	26865	831.5	23.45	24.50	1.274	-0.04	0.061	0.078
	LTE Band 26	15M	QPSK	36	0	Edge 1	13mm	Main	Battery 1	OFF	26865	831.5	22.27	23.50	1.327	0.16	0.056	0.074
	LTE Band 26	15M	QPSK	1	0	Edge 2	5mm	Aux	Battery 1	OFF	26865	831.5	23.45	24.50	1.274	-0.09	0.098	0.125
	LTE Band 26	15M	QPSK	36	0	Edge 2	5mm	Aux	Battery 1	OFF	26865	831.5	22.27	23.50	1.327	-0.16	0.068	0.090
10	LTE Band 26	15M	QPSK	1	0	Bottom Face	0mm	Aux	Battery 1	ON	26865	831.5	21.62	23.00	1.374	-0.01	0.839	1.153
	LTE Band 26	15M	QPSK	36	0	Bottom Face	0mm	Aux	Battery 1	ON	26865	831.5	20.59	22.00	1.384	-0.01	0.673	0.931
	LTE Band 26	15M	QPSK	75	0	Bottom Face	0mm	Aux	Battery 1	ON	26865	831.5	20.52	22.00	1.406	-0.07	0.671	0.943
	LTE Band 26	15M	QPSK	1	0	Edge 1	0mm	Aux	Battery 1	OFF	26865	831.5	23.45	24.50	1.274	0	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	Edge 1	0mm	Aux	Battery 1	OFF	26865	831.5	22.27	23.50	1.327	0	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	Edge 2	0mm	Aux	Battery 1	ON	26865	831.5	21.62	23.00	1.374	-0.16	0.416	0.572
	LTE Band 26	15M	QPSK	36	0	Edge 2	0mm	Aux	Battery 1	ON	26865	831.5	20.59	22.00	1.384	-0.18	0.344	0.476
	LTE Band 26	15M	QPSK	1	0	Edge 4	0mm	Main	Battery 1	OFF	26865	831.5	23.45	24.50	1.274	0.17	0.271	0.345
	LTE Band 26	15M	QPSK	36	0	Edge 4	0mm	Main	Battery 1	OFF	26865	831.5	22.27	23.50	1.327	0.09	0.204	0.271
	LTE Band 26	15M	QPSK	1	0	Bototm Face	0mm	Aux	Battery 2	ON	26865	831.5	21.62	23.00	1.374	-0.05	0.801	1.101
	LTE Band 26	15M	QPSK	1	0	Bototm Face	0mm	Aux	Battery 3	ON	26865	831.5	20.59	22.00	1.384	-0.1	0.799	1.105
	LTE Band 30	10M	QPSK	1	0	Back of Display Screen	32mm	Main	Battery 1	OFF	27710	2310	22.11	23.00	1.227	0.06	0.072	0.088
	LTE Band 30	10M	QPSK	25	0	Back of Display Screen	32mm	Main	Battery 1	OFF	27710	2310	21.10	22.00	1.230	-0.11	0.056	0.069
	LTE Band 30	10M	QPSK	1	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	27710	2310	22.11	23.00	1.227	0.13	0.064	0.079
	LTE Band 30	10M	QPSK	25	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	27710	2310	21.10	22.00	1.230	0.12	0.049	0.060
	LTE Band 30	10M	QPSK	1	0	Bototm Face	7mm	Main	Battery 1	OFF	27710	2310	22.11	23.00	1.227	-0.06	0.317	0.389
	LTE Band 30	10M	QPSK	25	0	Bototm Face	7mm	Main	Battery 1	OFF	27710	2310	21.10	22.00	1.230	0.07	0.234	0.288
	LTE Band 30	10M	QPSK	1	0	Bototm Face	23mm	Aux	Battery 1	OFF	27710	2310	22.11	23.00	1.227	0.15	0.037	0.045
	LTE Band 30	10M	QPSK	25	0	Bototm Face	23mm	Aux	Battery 1	OFF	27710	2310	21.10	22.00	1.230	-0.19	0.028	0.034
	LTE Band 30	10M	QPSK	1	0	Edge 1	13mm	Main	Battery 1	OFF	27710	2310	22.11	23.00	1.227	0	0.447	0.549
	LTE Band 30	10M	QPSK	25	0	Edge 1	13mm	Main	Battery 1	OFF	27710	2310	21.10	22.00	1.230	0.06	0.357	0.439
11	LTE Band 30	10M	QPSK	1	0	Edge 2	5mm	Aux	Battery 1	OFF	27710	2310	22.11	23.00	1.227	-0.15	0.647	0.794
	LTE Band 30	10M	QPSK	25	0	Edge 2	5mm	Aux	Battery 1	OFF	27710	2310	21.10	22.00	1.230	-0.03	0.474	0.583
	LTE Band 30	10M	QPSK	1	0	Bottom Face	0mm	Main	Battery 1	ON	27710	2310	15.94	17.00	1.276	0.07	0.115	0.147
	LTE Band 30	10M	QPSK	25	0	Bottom Face	0mm	Main	Battery 1	ON	27710	2310	14.96	16.00	1.271	0.16	0.093	0.118
	LTE Band 30	10M	QPSK	1	0	Edge 1	0mm	Main	Battery 1	ON	27710	2310	15.94	17.00	1.276	0.12	0.509	0.650
	LTE Band 30	10M	QPSK	25	0	Edge 1	0mm	Main	Battery 1	ON	27710	2310	14.96	16.00	1.271	0.06	0.398	0.506
	LTE Band 30	10M	QPSK	1	0	Edge 1	0mm	Aux	Battery 1	OFF	27710	2310	22.11	23.00	1.227	-0.04	0.045	0.055
	LTE Band 30	10M	QPSK	25	0	Edge 1	0mm	Aux	Battery 1	OFF	27710	2310	21.10	22.00	1.230	-0.03	0.017	0.021
	LTE Band 30	10M	QPSK	1	0	Edge 4	0mm	Main	Battery 1	OFF	27710	2310	22.11	23.00	1.227	0.08	0.274	0.336
	LTE Band 30	10M	QPSK	25	0	Edge 4	0mm	Main	Battery 1	OFF	27710	2310	21.10	22.00	1.230	-0.19	0.218	0.268
	LTE Band 30	10M	QPSK	1	0	Edge 2	5mm	Aux	Battery 2	OFF	27710	2310	22.11	23.00	1.227	0.12	0.612	0.751
	LTE Band 30	10M	QPSK	1	0	Edge 2	5mm	Aux	Battery 3	OFF	27710	2310	22.11	23.00	1.227	0.06	0.623	0.765

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Battery	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66	20M	QPSK	1	0	Back of Display Screen	32mm	Main	Battery 1	OFF	132322	1745	23.77	24.50	1.183	0.17	0.129	0.153
	LTE Band 66	20M	QPSK	50	0	Back of Display Screen	32mm	Main	Battery 1	OFF	132322	1745	22.74	23.50	1.191	-0.15	0.095	0.113
	LTE Band 66	20M	QPSK	1	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	132322	1745	23.77	24.50	1.183	-0.09	0.155	0.183
	LTE Band 66	20M	QPSK	50	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	132322	1745	22.74	23.50	1.191	0	0.131	0.156
	LTE Band 66	20M	QPSK	1	0	Bototm Face	7mm	Main	Battery 1	OFF	132322	1745	23.77	24.50	1.183	0.11	0.183	0.216
	LTE Band 66	20M	QPSK	50	0	Bototm Face	7mm	Main	Battery 1	OFF	132322	1745	22.74	23.50	1.191	0.15	0.141	0.168
	LTE Band 66	20M	QPSK	1	0	Bototm Face	23mm	Aux	Battery 1	OFF	132322	1745	23.77	24.50	1.183	0.18	0.113	0.134
	LTE Band 66	20M	QPSK	50	0	Bototm Face	23mm	Aux	Battery 1	OFF	132322	1745	22.74	23.50	1.191	0.11	0.105	0.125
	LTE Band 66	20M	QPSK	1	0	Edge 1	13mm	Main	Battery 1	OFF	132322	1745	23.77	24.50	1.183	0.11	0.170	0.201
	LTE Band 66	20M	QPSK	50	0	Edge 1	13mm	Main	Battery 1	OFF	132322	1745	22.74	23.50	1.191	0.17	0.136	0.162
	LTE Band 66	20M	QPSK	1	0	Edge 2	5mm	Aux	Battery 1	OFF	132322	1745	23.77	24.50	1.183	0.13	0.653	0.773
12	LTE Band 66	20M	QPSK	1	0	Edge 2	5mm	Aux	Battery 1	OFF	132072	1720	23.62	24.50	1.225	-0.01	0.679	0.832
	LTE Band 66	20M	QPSK	1	0	Edge 2	5mm	Aux	Battery 1	OFF	132572	1770	23.75	24.50	1.189	0.13	0.622	0.739
	LTE Band 66	20M	QPSK	50	0	Edge 2	5mm	Aux	Battery 1	OFF	132322	1745	22.74	23.50	1.191	0.11	0.469	0.559
	LTE Band 66	20M	QPSK	100	0	Edge 2	5mm	Aux	Battery 1	OFF	132322	1745	22.66	23.50	1.213	0.19	0.443	0.538
	LTE Band 66	20M	QPSK	1	0	Bottom Face	0mm	Main	Battery 1	ON	132572	1770	19.67	20.50	1.211	0.16	0.128	0.155
	LTE Band 66	20M	QPSK	50	0	Bottom Face	0mm	Main	Battery 1	ON	132572	1770	18.67	19.50	1.211	0.13	0.097	0.117
	LTE Band 66	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 1	ON	132572	1770	19.67	20.50	1.211	0.09	0.409	0.495
	LTE Band 66	20M	QPSK	50	0	Edge 1	0mm	Main	Battery 1	ON	132572	1770	18.67	19.50	1.211	0.11	0.327	0.396
	LTE Band 66	20M	QPSK	1	0	Edge 1	0mm	Aux	Battery 1	OFF	132322	1745	23.77	24.50	1.183	0.06	0.055	0.065
	LTE Band 66	20M	QPSK	50	0	Edge 1	0mm	Aux	Battery 1	OFF	132322	1745	22.74	23.50	1.191	-0.14	0.041	0.049
	LTE Band 66	20M	QPSK	1	0	Edge 4	0mm	Main	Battery 1	OFF	132322	1745	23.77	24.50	1.183	0.03	0.237	0.280
	LTE Band 66	20M	QPSK	50	0	Edge 4	0mm	Main	Battery 1	OFF	132322	1745	22.74	23.50	1.191	0	0.178	0.212
	LTE Band 66	20M	QPSK	1	0	Edge 2	5mm	Aux	Battery 2	OFF	132072	1720	23.62	24.50	1.225	-0.05	0.650	0.796
	LTE Band 66	20M	QPSK	1	0	Edge 2	5mm	Aux	Battery 3	OFF	132072	1720	23.62	24.50	1.225	0.03	0.627	0.768

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Battery	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41	20M	QPSK	1	0	Back of Display Screen	32mm	Main	Battery 1	OFF	39750	2506	24.18	24.50	1.076	62.9	1.006	0.01	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Back of Display Screen	32mm	Main	Battery 1	OFF	39750	2506	23.07	23.50	1.104	62.9	1.006	0.01	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	39750	2506	24.18	24.50	1.076	62.9	1.006	0.08	0.013	0.014
	LTE Band 41	20M	QPSK	50	0	Bottom of Laptop	24mm	Aux	Battery 1	OFF	39750	2506	23.07	23.50	1.104	62.9	1.006	0.1	0.009	0.010
	LTE Band 41	20M	QPSK	1	0	Bototm Face	7mm	Main	Battery 1	OFF	39750	2506	24.18	24.50	1.076	62.9	1.006	-0.05	0.153	0.166
	LTE Band 41	20M	QPSK	50	0	Bototm Face	7mm	Main	Battery 1	OFF	39750	2506	23.07	23.50	1.104	62.9	1.006	0.16	0.118	0.131
	LTE Band 41	20M	QPSK	1	0	Bototm Face	23mm	Aux	Battery 1	OFF	39750	2506	24.18	24.50	1.076	62.9	1.006	-0.05	0.008	0.009
	LTE Band 41	20M	QPSK	50	0	Bototm Face	23mm	Aux	Battery 1	OFF	39750	2506	23.07	23.50	1.104	62.9	1.006	0.08	0.005	0.006
	LTE Band 41	20M	QPSK	1	0	Edge 1	13mm	Main	Battery 1	OFF	39750	2506	24.18	24.50	1.076	62.9	1.006	-0.13	0.169	0.183
	LTE Band 41	20M	QPSK	50	0	Edge 1	13mm	Main	Battery 1	OFF	39750	2506	23.07	23.50	1.104	62.9	1.006	0.02	0.127	0.141
	LTE Band 41	20M	QPSK	1	0	Edge 2	5mm	Aux	Battery 1	OFF	39750	2506	24.18	24.50	1.076	62.9	1.006	0.04	0.330	0.357
	LTE Band 41	20M	QPSK	50	0	Edge 2	5mm	Aux	Battery 1	OFF	39750	2506	23.07	23.50	1.104	62.9	1.006	0.11	0.252	0.280
	LTE Band 41	20M	QPSK	1	0	Bottom Face	0mm	Main	Battery 1	ON	39750	2506	20.44	21.00	1.138	62.9	1.006	0.08	0.217	0.248
	LTE Band 41	20M	QPSK	50	0	Bottom Face	0mm	Main	Battery 1	ON	39750	2506	19.31	20.00	1.172	62.9	1.006	-0.01	0.161	0.190
13	LTE Band 41	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 1	ON	39750	2506	20.44	21.00	1.138	62.9	1.006	0.19	0.630	0.721
	LTE Band 41	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 1	ON	40185	2549.5	20.23	21.00	1.194	62.9	1.006	0.19	0.466	0.560
	LTE Band 41	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 1	ON	40620	2593	20.42	21.00	1.143	62.9	1.006	0.17	0.486	0.559
	LTE Band 41	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 1	ON	41055	2636.5	20.14	21.00	1.219	62.9	1.006	0.18	0.492	0.603
	LTE Band 41	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 1	ON	41490	2680	20.23	21.00	1.194	62.9	1.006	0.17	0.460	0.553
	LTE Band 41	20M	QPSK	50	0	Edge 1	0mm	Main	Battery 1	ON	39750	2506	19.31	20.00	1.172	62.9	1.006	0.04	0.395	0.466
	LTE Band 41	20M	QPSK	100	0	Edge 1	0mm	Main	Battery 1	ON	39750	2506	19.25	20.00	1.189	62.9	1.006	0.09	0.381	0.456
	LTE Band 41	20M	QPSK	1	0	Edge 1	0mm	Aux	Battery 1	OFF	39750	2506	24.18	24.50	1.076	62.9	1.006	-0.15	0.057	0.062
	LTE Band 41	20M	QPSK	50	0	Edge 1	0mm	Aux	Battery 1	OFF	39750	2506	23.07	23.50	1.104	62.9	1.006	-0.09	0.029	0.032
	LTE Band 41	20M	QPSK	1	0	Edge 4	0mm	Main	Battery 1	OFF	39750	2506	24.18	24.50	1.076	62.9	1.006	0	0.496	0.537
	LTE Band 41	20M	QPSK	50	0	Edge 4	0mm	Main	Battery 1	OFF	39750	2506	23.07	23.50	1.104	62.9	1.006	-0.02	0.367	0.408
	LTE Band 41	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 2	ON	39750	2506	20.44	21.00	1.138	62.9	1.006	0.11	0.611	0.699
	LTE Band 41	20M	QPSK	1	0	Edge 1	0mm	Main	Battery 3	ON	39750	2506	20.44	21.00	1.138	62.9	1.006	0.17	0.604	0.691

15.2 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Battery	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WCDMA II	RMC 12.2Kbps	Edge 2	5mm	Aux	Battery 1	OFF	9538	1907.6	23.99	24.50	1.125	0.18	0.821	-	0.923
2nd	WCDMA II	RMC 12.2Kbps	Edge 2	5mm	Aux	Battery 1	OFF	9538	1907.6	23.99	24.50	1.125	0.19	0.811	1.01	0.912
1st	LTE Band 7	20M_QPSK_1_0	Edge 2	5mm	Aux	Battery 1	OFF	21350	2560	23.97	24.50	1.130	0.11	1.010	-	1.141
2nd	LTE Band 7	20M_QPSK_1_0	Edge 2	5mm	Aux	Battery 1	OFF	21350	2560	23.97	24.50	1.130	0.07	0.969	1.04	1.095
1st	LTE Band 14	10M_QPSK_1_0	Bottom Face	0mm	Aux	Battery 1	ON	23330	793	22.99	23.00	1.002	-0.05	1.130	-	1.133
2nd	LTE Band 14	10M_QPSK_1_0	Bottom Face	0mm	Aux	Battery 1	ON	23330	793	22.99	23.00	1.002	-0.02	1.090	1.04	1.093
1st	LTE Band 26	15M_QPSK_1_0	Bottom Face	0mm	Aux	Battery 1	ON	26865	831.5	21.62	23.00	1.374	-0.01	0.839	-	1.153
2nd	LTE Band 26	15M_QPSK_1_0	Bottom Face	0mm	Aux	Battery 1	ON	26865	831.5	21.62	23.00	1.374	-0.03	0.796	1.05	1.094

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.
3. The ratio is the difference in percentage between original and repeated *measured SAR*.
4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

16. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Body
1.	WWAN + 2.4GHz WLAN ANT 1 + 2.4GHz WLAN ANT 2	Yes
2.	WWAN + 5GHz WLAN ANT 1 + 5GHz WLAN ANT 2	Yes
3.	WWAN + 2.4GHz WLAN ANT 1 + Bluetooth ANT 2	Yes
4.	WWAN + 5GHz WLAN ANT 1 + Bluetooth ANT 2	Yes
5.	WWAN + 5GHz WLAN ANT 1 + 5GHz WLAN ANT 2 + Bluetooth ANT 2	Yes

General Note:

1. The Scaled SAR summation is calculated based on the same configuration and test position.
2. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
   i) Scalar SAR summation < 1.6W/kg.
   ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
   iii) If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.
   iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
   v) The SPLSR calculated results please refer to section 16.2.

16.1 Body Exposure Conditions

<WWAN + Intel 9560D2W>

WWAN Band		Exposure Position	1 WWAN Ant Main 1g SAR (W/kg)	2 WWAN Ant Aux 1g SAR (W/kg)	3 2.4GHz WLAN Ant 1 1g SAR (W/kg)	4 2.4GHz WLAN Ant 2 1g SAR (W/kg)	7 Bluetooth Ant 2 1g SAR (W/kg)	1+3+7 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)	2+3+7 Summed 1g SAR (W/kg)	2+3+4 Summed 1g SAR (W/kg)	1+3+4 Case No	1+3+4 SPLSR	2+3+7 Case No	2+3+7 SPLSR	2+3+4 Case No	2+3+4 SPLSR
WCDMA	WCDMA II	Back of Display Screen at 32mm Main	0.123					0.123	0.123	0.000	0.000						
		Bottom of Laptop at 24mm Aux		0.136	0.720	0.570	0.110	0.830	1.290	0.966	1.426						
		Bottom Face at 7mm Main	0.115		0.860	0.610	0.110	1.085	1.585	0.970	1.470						
		Bottom Face at 23mm Aux		0.098	0.860	0.610	0.110	0.970	1.470	1.068	1.568						
		Edge 1 at 13mm Main	0.198					0.198	0.198	0.000	0.000						
		Edge 2 at 5mm Aux		0.923				0.000	0.000	0.923	0.923						
		Bottom Face at 0mm Main	0.396		0.860	0.610	0.110	1.366	1.866	0.970	1.470	Case 6	0.02				
		Edge 1 at 0mm Main	0.919					0.919	0.919	0.000	0.000						
		Edge 1 at 0mm Aux		0.092				0.000	0.000	0.092	0.092						
		Edge 4 at 0mm Main	0.110					0.110	0.110	0.000	0.000						
	WCDMA IV	Back of Display Screen at 32mm Main	0.064					0.064	0.064	0.000	0.000						
		Bottom of Laptop at 24mm Aux		0.134	0.720	0.570	0.110	0.830	1.290	0.964	1.424						
		Bottom Face at 7mm Main	0.136		0.860	0.610	0.110	1.106	1.606	0.970	1.470	Case 9	0.02				
		Bottom Face at 23mm Aux		0.086	0.860	0.610	0.110	0.970	1.470	1.056	1.556						
		Edge 1 at 13mm Main	0.162					0.162	0.162	0.000	0.000						
		Edge 2 at 5mm Aux		0.649				0.000	0.000	0.649	0.649						
		Bottom Face at 0mm Main	0.192		0.860	0.610	0.110	1.162	1.662	0.970	1.470	Case 12	0.02				
		Edge 1 at 0mm Main	0.453					0.453	0.453	0.000	0.000						
		Edge 1 at 0mm Aux		0.068				0.000	0.000	0.068	0.068						
		Edge 4 at 0mm Main	0.393					0.393	0.393	0.000	0.000						
	WCDMA V	Back of Display Screen at 32mm Main	0.047					0.047	0.047	0.000	0.000						
		Bottom of Laptop at 24mm Aux		0.119	0.720	0.570	0.110	0.830	1.290	0.949	1.409						
		Bottom Face at 7mm Main	0.202		0.860	0.610	0.110	1.172	1.672	0.970	1.470	Case 15	0.02				
		Bottom Face at 23mm Aux		0.051	0.860	0.610	0.110	0.970	1.470	1.021	1.521						
		Edge 1 at 13mm Main	0.262					0.262	0.262	0.000	0.000						
		Edge 2 at 5mm Aux		0.451				0.000	0.000	0.451	0.451						
		Bototm Face at 0mm Aux		1.130	0.860	0.610	0.110	0.970	1.470	2.100	2.600			Case 18	0.02	Case 19	0.02
		Edge 1 at 0mm Aux		0.018				0.000	0.000	0.018	0.018						
		Edge 2 at 0mm Aux		0.717				0.000	0.000	0.717	0.717						
		Edge 4 at 0mm Main	0.255					0.255	0.255	0.000	0.000						
LTE	LTE Band 2	Back of Display Screen at 32mm Main	0.094					0.094	0.094	0.000	0.000						
		Bottom of Laptop at 24mm Aux		0.126	0.720	0.570	0.110	0.830	1.290	0.956	1.416						
		Bottom Face at 7mm Main	0.106		0.860	0.610	0.110	1.076	1.576	0.970	1.470						
		Bottom Face at 23mm Aux		0.092	0.860	0.610	0.110	0.970	1.470	1.062	1.562						
		Edge 1 at 13mm Main	0.113					0.113	0.113	0.000	0.000						
		Edge 2 at 5mm Aux		0.726				0.000	0.000	0.726	0.726						
		Bottom Face at 0mm Main	0.370		0.860	0.610	0.110	1.340	1.840	0.970	1.470	Case 24	0.02				
		Edge 1 at 0mm Main	0.783					0.783	0.783	0.000	0.000						
		Edge 1 at 0mm Aux		0.013				0.000	0.000	0.013	0.013						
		Edge 4 at 0mm Main	0.091					0.091	0.091	0.000	0.000						
	LTE Band 7	Back of Display Screen at 32mm Main	0.101					0.101	0.101	0.000	0.000						
		Bottom of Laptop at 24mm Aux		0.084	0.720	0.570	0.110	0.830	1.290	0.914	1.374						
		Bottom Face at 7mm Main	0.406		0.860	0.610	0.110	1.376	1.876	0.970	1.470	Case 27	0.02				
		Bottom Face at 23mm Aux		0.032	0.860	0.610	0.110	0.970	1.470	1.002	1.502						
		Edge 1 at 13mm Main	0.476					0.476	0.476	0.000	0.000						
		Edge 2 at 5mm Aux		1.141				0.000	0.000	1.141	1.141						
		Bottom Face at 0mm Main	0.247		0.860	0.610	0.110	1.217	1.717	0.970	1.470	Case 30	0.02				
		Edge 1 at 0mm Main	0.764					0.764	0.764	0.000	0.000						
		Edge 1 at 0mm Aux		0.092				0.000	0.000	0.092	0.092						

		Edge 4 at 0mm Main	0.549					0.549	0.549	0.000	0.000							
	LTE Band 12	Back of Display Screen at 32mm Main	0.034					0.034	0.034	0.000	0.000							
		Bottom of Laptop at 24mm Aux		0.041	0.720	0.570	0.110	0.830	1.290	0.871	1.331							
		Bottom Face at 7mm Main	0.055		0.860	0.610	0.110	1.025	1.525	0.970	1.470							
		Bottom Face at 23mm Aux		0.007	0.860	0.610	0.110	0.970	1.470	0.977	1.477							
		Edge 1 at 13mm Main	0.073					0.073	0.073	0.000	0.000							
		Edge 2 at 5mm Aux		0.086				0.000	0.000	0.086	0.086							
		Bottom Face at 0mm Main	0.435		0.860	0.610	0.110	1.405	1.905	0.970	1.470	Case 35	0.02					
		Edge 1 at 0mm Main	0.758					0.758	0.758	0.000	0.000							
		Edge 1 at 0mm Aux		0.001				0.000	0.000	0.001	0.001							
		Edge 4 at 0mm Main	0.157					0.157	0.157	0.000	0.000							
	LTE Band 13	Back of Display Screen at 32mm Main	0.043					0.043	0.043	0.000	0.000							
		Bottom of Laptop at 24mm Aux		0.063	0.720	0.570	0.110	0.830	1.290	0.893	1.353							
		Bottom Face at 7mm Main	0.077		0.860	0.610	0.110	1.047	1.547	0.970	1.470							
		Bottom Face at 23mm Aux		0.012	0.860	0.610	0.110	0.970	1.470	0.982	1.482							
		Edge 1 at 13mm Main	0.094					0.094	0.094	0.000	0.000							
		Edge 2 at 5mm Aux		0.118				0.000	0.000	0.118	0.118							
		Bototm Face at 0mm Aux		1.082	0.860	0.610	0.110	0.970	1.470	2.052	2.552			Case 40	0.02	Case 41	0.02	
		Edge 1 at 0mm Aux		0.001				0.000	0.000	0.001	0.001							
		Edge 2 at 0mm Aux		0.650				0.000	0.000	0.650	0.650							
		Edge 4 at 0mm Main	0.230					0.230	0.230	0.000	0.000							
	LTE Band 14	Back of Display Screen at 32mm Main	0.046					0.046	0.046	0.000	0.000							
		Bottom of Laptop at 24mm Aux		0.062	0.720	0.570	0.110	0.830	1.290	0.892	1.352							
		Bottom Face at 7mm Main	0.105		0.860	0.610	0.110	1.075	1.575	0.970	1.470							
		Bottom Face at 23mm Aux		0.014	0.860	0.610	0.110	0.970	1.470	0.984	1.484							
		Edge 1 at 13mm Main	0.112					0.112	0.112	0.000	0.000							
		Edge 2 at 5mm Aux		0.129				0.000	0.000	0.129	0.129							
		Bototm Face at 0mm Aux		1.133	0.860	0.610	0.110	0.970	1.470	2.103	2.603			Case 46	0.02	Case 47	0.02	
		Edge 1 at 0mm Aux		0.001				0.000	0.000	0.001	0.001							
		Edge 2 at 0mm Aux		0.715				0.000	0.000	0.715	0.715							
		Edge 4 at 0mm Main	0.324					0.324	0.324	0.000	0.000							
	LTE Band 25	Back of Display Screen at 32mm Main	0.100					0.100	0.100	0.000	0.000							
		Bottom of Laptop at 24mm Aux		0.146	0.720	0.570	0.110	0.830	1.290	0.976	1.436							
		Bottom Face at 7mm Main	0.099		0.860	0.610	0.110	1.069	1.569	0.970	1.470							
		Bottom Face at 23mm Aux		0.071	0.860	0.610	0.110	0.970	1.470	1.041	1.541							
		Edge 1 at 13mm Main	0.116					0.116	0.116	0.000	0.000							
		Edge 2 at 5mm Aux		0.670				0.000	0.000	0.670	0.670							
		Bottom Face at 0mm Main	0.332		0.860	0.610	0.110	1.302	1.802	0.970	1.470	Case 52	0.02					
		Edge 1 at 0mm Main	0.706					0.706	0.706	0.000	0.000							
		Edge 1 at 0mm Aux		0.001				0.000	0.000	0.001	0.001							
		Edge 4 at 0mm Main	0.075					0.075	0.075	0.000	0.000							
	LTE Band 26	Back of Display Screen at 32mm Main	0.053					0.053	0.053	0.000	0.000							
		Bottom of Laptop at 24mm Aux		0.060	0.720	0.570	0.110	0.830	1.290	0.890	1.350							
		Bottom Face at 7mm Main	0.092		0.860	0.610	0.110	1.062	1.562	0.970	1.470							
		Bottom Face at 23mm Aux		0.050	0.860	0.610	0.110	0.970	1.470	1.020	1.520							
		Edge 1 at 13mm Main	0.078					0.078	0.078	0.000	0.000							
		Edge 2 at 5mm Aux		0.125				0.000	0.000	0.125	0.125							
		Bototm Face at 0mm Aux		1.153	0.860	0.610	0.110	0.970	1.470	2.123	2.623			Case 57	0.02	Case 58	0.02	
		Edge 1 at 0mm Aux		0.001				0.000	0.000	0.001	0.001							
		Edge 2 at 0mm Aux		0.572				0.000	0.000	0.572	0.572							
		Edge 4 at 0mm Main	0.345					0.345	0.345	0.000	0.000							
	LTE Band 30	Back of Display Screen at 32mm Main	0.088					0.088	0.088	0.000	0.000							
		Bottom of Laptop at 24mm Aux		0.079	0.720	0.570	0.110	0.830	1.290	0.909	1.369							
		Bottom Face at 7mm Main	0.389		0.860	0.610	0.110	1.359	1.859	0.970	1.470	Case 61	0.02					
		Bottom Face at 23mm Aux		0.045	0.860	0.610	0.110	0.970	1.470	1.015	1.515							
		Edge 1 at 13mm Main	0.549					0.549	0.549	0.000	0.000							

		Edge 2 at 5mm Aux		0.794				0.000	0.000	0.794	0.794							
		Bottom Face at 0mm Main	0.147		0.860	0.610	0.110	1.117	1.617	0.970	1.470	Case 64	0.02					
		Edge 1 at 0mm Main	0.650					0.650	0.650	0.000	0.000							
		Edge 1 at 0mm Aux		0.055				0.000	0.000	0.055	0.055							
		Edge 4 at 0mm Main	0.336					0.336	0.336	0.000	0.000							
	LTE Band 41	Back of Display Screen at 32mm Main	0.001					0.001	0.001	0.000	0.000							
		Bottom of Laptop at 24mm Aux		0.014	0.720	0.570	0.110	0.830	1.290	0.844	1.304							
		Bottom Face at 7mm Main	0.166		0.860	0.610	0.110	1.136	1.636	0.970	1.470	Case 67	0.02					
		Bottom Face at 23mm Aux		0.009	0.860	0.610	0.110	0.970	1.470	0.979	1.479							
		Edge 1 at 13mm Main	0.183					0.183	0.183	0.000	0.000							
		Edge 2 at 5mm Aux		0.357				0.000	0.000	0.357	0.357							
		Bottom Face at 0mm Main	0.248		0.860	0.610	0.110	1.218	1.718	0.970	1.470	Case 70	0.02					
		Edge 1 at 0mm Main	0.721					0.721	0.721	0.000	0.000							
		Edge 1 at 0mm Aux		0.062				0.000	0.000	0.062	0.062							
		Edge 4 at 0mm Main	0.537					0.537	0.537	0.000	0.000							
	LTE Band 66	Back of Display Screen at 32mm Main	0.153					0.153	0.153	0.000	0.000							
		Bottom of Laptop at 24mm Aux		0.183	0.720	0.570	0.110	0.830	1.290	1.013	1.473							
		Bottom Face at 7mm Main	0.216		0.860	0.610	0.110	1.186	1.686	0.970	1.470	Case 73	0.02					
		Bottom Face at 23mm Aux		0.134	0.860	0.610	0.110	0.970	1.470	1.104	1.604					Case 75	0.02	
		Edge 1 at 13mm Main	0.201					0.201	0.201	0.000	0.000							
		Edge 2 at 5mm Aux		0.832				0.000	0.000	0.832	0.832							
		Bottom Face at 0mm Main	0.155		0.860	0.610	0.110	1.125	1.625	0.970	1.470	Case 77	0.02					
		Edge 1 at 0mm Main	0.495					0.495	0.495	0.000	0.000							
		Edge 1 at 0mm Aux		0.065				0.000	0.000	0.065	0.065							
		Edge 4 at 0mm Main	0.280					0.280	0.280	0.000	0.000							

WWAN Band		Exposure Position	1	2	5	6	7	1+5+6+7 Summed 1g SAR (W/kg)	2+5+6+7 Summed 1g SAR (W/kg)	1+5+6+7 Case No	1+5+6+7 SPLSR	2+5+6+7 Case No	2+5+6+7 SPLSR
			WWAN Ant Main	WWAN Ant Aux	5GHz WLAN Ant 1	5GHz WLAN Ant 2	Bluetooth Ant 2						
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)						
WCDMA	WCDMA II	Back of Display Screen at 32mm Main	0.123					0.123	0.000				
		Bottom of Laptop at 24mm Aux		0.136	0.750	0.750	0.110	1.610	1.746	Case 1	0.03	Case 2	0.03
		Bottom Face at 7mm Main	0.115		0.830	0.780	0.110	1.835	1.720	Case 3	0.03	Case 4	0.03
		Bottom Face at 23mm Aux		0.098	0.830	0.780	0.110	1.720	1.818	Case 4	0.03	Case 5	0.03
		Edge 1 at 13mm Main	0.198					0.198	0.000				
		Edge 2 at 5mm Aux		0.923				0.000	0.923				
		Bottom Face at 0mm Main	0.396		0.830	0.780	0.110	2.116	1.720	Case 7	0.03	Case 4	0.03
		Edge 1 at 0mm Main	0.919					0.919	0.000				
		Edge 1 at 0mm Aux		0.092				0.000	0.092				
		Edge 4 at 0mm Main	0.110					0.110	0.000				
	WCDMA IV	Back of Display Screen at 32mm Main	0.064					0.064	0.000				
		Bottom of Laptop at 24mm Aux		0.134	0.750	0.750	0.110	1.610	1.744	Case 1	0.03	Case 8	0.02
		Bottom Face at 7mm Main	0.136		0.830	0.780	0.110	1.856	1.720	Case 10	0.03	Case 4	0.03
		Bottom Face at 23mm Aux		0.086	0.830	0.780	0.110	1.720	1.806	Case 4	0.03	Case 11	0.03
		Edge 1 at 13mm Main	0.162					0.162	0.000				
		Edge 2 at 5mm Aux		0.649				0.000	0.649				
		Bottom Face at 0mm Main	0.192		0.830	0.780	0.110	1.912	1.720	Case 13	0.03	Case 4	0.03
		Edge 1 at 0mm Main	0.453					0.453	0.000				
		Edge 1 at 0mm Aux		0.068				0.000	0.068				
		Edge 4 at 0mm Main	0.393					0.393	0.000				
	WCDMA V	Back of Display Screen at 32mm Main	0.047					0.047	0.000				
		Bottom of Laptop at 24mm Aux		0.119	0.750	0.750	0.110	1.610	1.729	Case 1	0.03	Case 14	0.03
		Bottom Face at 7mm Main	0.202		0.830	0.780	0.110	1.922	1.720	Case 16	0.03	Case 4	0.03
		Bottom Face at 23mm Aux		0.051	0.830	0.780	0.110	1.720	1.771	Case 4	0.03	Case 17	0.03
		Edge 1 at 13mm Main	0.262					0.262	0.000				
		Edge 2 at 5mm Aux		0.451				0.000	0.451				

		Bototm Face at 0mm Aux		1.130	0.830	0.780	0.110	1.720	2.850	Case 1	0.03	Case 20	0.03
		Edge 1 at 0mm Aux		0.018				0.000	0.018				
		Edge 2 at 0mm Aux		0.717				0.000	0.717				
		Edge 4 at 0mm Main	0.255					0.255	0.000				
LTE	LTE Band 2	Back of Display Screen at 32mm Main	0.094					0.094	0.000				
		Bottom of Laptop at 24mm Aux		0.126	0.750	0.750	0.110	1.610	1.736	Case 1	0.03	Case 21	0.03
		Bottom Face at 7mm Main	0.106		0.830	0.780	0.110	1.826	1.720	Case 22	0.03	Case 4	0.03
		Bottom Face at 23mm Aux		0.092	0.830	0.780	0.110	1.720	1.812	Case 4	0.03	Case 23	0.03
		Edge 1 at 13mm Main	0.113					0.113	0.000				
		Edge 2 at 5mm Aux		0.726				0.000	0.726				
		Bottom Face at 0mm Main	0.370		0.830	0.780	0.110	2.090	1.720	Case 25	0.03	Case 4	0.03
		Edge 1 at 0mm Main	0.783					0.783	0.000				
		Edge 1 at 0mm Aux		0.013				0.000	0.013				
		Edge 4 at 0mm Main	0.091					0.091	0.000				
	LTE Band 7	Back of Display Screen at 32mm Main	0.101					0.101	0.000				
		Bottom of Laptop at 24mm Aux		0.084	0.750	0.750	0.110	1.610	1.694	Case 1	0.03	Case 26	0.03
		Bottom Face at 7mm Main	0.406		0.830	0.780	0.110	2.126	1.720	Case 28	0.03	Case 4	0.03
		Bottom Face at 23mm Aux		0.032	0.830	0.780	0.110	1.720	1.752	Case 4	0.03	Case 29	0.03
		Edge 1 at 13mm Main	0.476					0.476	0.000				
		Edge 2 at 5mm Aux		1.141				0.000	1.141				
		Bottom Face at 0mm Main	0.247		0.830	0.780	0.110	1.967	1.720	Case 31	0.03	Case 4	0.03
		Edge 1 at 0mm Main	0.764					0.764	0.000				
		Edge 1 at 0mm Aux		0.092				0.000	0.092				
		Edge 4 at 0mm Main	0.549					0.549	0.000				
	LTE Band 12	Back of Display Screen at 32mm Main	0.034					0.034	0.000				
		Bottom of Laptop at 24mm Aux		0.041	0.750	0.750	0.110	1.610	1.651	Case 1	0.03	Case 32	0.03
		Bottom Face at 7mm Main	0.055		0.830	0.780	0.110	1.775	1.720	Case 33	0.03	Case 4	0.03
		Bottom Face at 23mm Aux		0.007	0.830	0.780	0.110	1.720	1.727	Case 4	0.03	Case 34	0.03
		Edge 1 at 13mm Main	0.073					0.073	0.000				
		Edge 2 at 5mm Aux		0.086				0.000	0.086				
		Bottom Face at 0mm Main	0.435		0.830	0.780	0.110	2.155	1.720	Case 36	0.03	Case 4	0.03
		Edge 1 at 0mm Main	0.758					0.758	0.000				
		Edge 1 at 0mm Aux		0.001				0.000	0.001				
		Edge 4 at 0mm Main	0.157					0.157	0.000				
	LTE Band 13	Back of Display Screen at 32mm Main	0.043					0.043	0.000				
		Bottom of Laptop at 24mm Aux		0.063	0.750	0.750	0.110	1.610	1.673	Case 1	0.03	Case 37	0.03
		Bottom Face at 7mm Main	0.077		0.830	0.780	0.110	1.797	1.720	Case 38	0.03	Case 4	0.03
		Bottom Face at 23mm Aux		0.012	0.830	0.780	0.110	1.720	1.732	Case 4	0.03	Case 39	0.03
		Edge 1 at 13mm Main	0.094					0.094	0.000				
		Edge 2 at 5mm Aux		0.118				0.000	0.118				
		Bototm Face at 0mm Aux		1.082	0.830	0.780	0.110	1.720	2.802	Case 4	0.03	Case 42	0.03
		Edge 1 at 0mm Aux		0.001				0.000	0.001				
		Edge 2 at 0mm Aux		0.650				0.000	0.650				
		Edge 4 at 0mm Main	0.230					0.230	0.000				
	LTE Band 14	Back of Display Screen at 32mm Main	0.046					0.046	0.000				
		Bottom of Laptop at 24mm Aux		0.062	0.750	0.750	0.110	1.610	1.672	Case 1	0.03	Case 43	0.03
		Bottom Face at 7mm Main	0.105		0.830	0.780	0.110	1.825	1.720	Case 44	0.03	Case 4	0.03
		Bottom Face at 23mm Aux		0.014	0.830	0.780	0.110	1.720	1.734	Case 4	0.03	Case 45	0.03
		Edge 1 at 13mm Main	0.112					0.112	0.000				
		Edge 2 at 5mm Aux		0.129				0.000	0.129				
		Bototm Face at 0mm Aux		1.133	0.830	0.780	0.110	1.720	2.853	Case 4	0.03	Case 48	0.03
		Edge 1 at 0mm Aux		0.001				0.000	0.001				
		Edge 2 at 0mm Aux		0.715				0.000	0.715				
		Edge 4 at 0mm Main	0.324					0.324	0.000				
	LTE Band 25	Back of Display Screen at 32mm Main	0.100					0.100	0.000				
		Bottom of Laptop at 24mm Aux		0.146	0.750	0.750	0.110	1.610	1.756	Case 1	0.03	Case 49	0.03

		Bottom Face at 7mm Main	0.099		0.830	0.780	0.110	1.819	1.720	Case 50	0.03	Case 4	0.03
		Bottom Face at 23mm Aux		0.071	0.830	0.780	0.110	1.720	1.791	Case 4	0.03	Case 51	0.03
		Edge 1 at 13mm Main	0.116					0.116	0.000				
		Edge 2 at 5mm Aux		0.670				0.000	0.670				
		Bottom Face at 0mm Main	0.332		0.830	0.780	0.110	2.052	1.720	Case 53	0.03	Case 4	0.03
		Edge 1 at 0mm Main	0.706					0.706	0.000				
		Edge 1 at 0mm Aux		0.001				0.000	0.001				
		Edge 4 at 0mm Main	0.075					0.075	0.000				
	LTE Band 26	Back of Display Screen at 32mm Main	0.053					0.053	0.000				
		Bottom of Laptop at 24mm Aux		0.060	0.750	0.750	0.110	1.610	1.670	Case 1	0.03	Case 54	0.03
		Bottom Face at 7mm Main	0.092		0.830	0.780	0.110	1.812	1.720	Case 55	0.03	Case 4	0.03
		Bottom Face at 23mm Aux		0.050	0.830	0.780	0.110	1.720	1.770	Case 4	0.03	Case 56	0.03
		Edge 1 at 13mm Main	0.078					0.078	0.000				
		Edge 2 at 5mm Aux		0.125				0.000	0.125				
		Bototm Face at 0mm Aux		1.153	0.830	0.780	0.110	1.720	2.873	Case 4	0.03	Case 59	0.03
		Edge 1 at 0mm Aux		0.001				0.000	0.001				
		Edge 2 at 0mm Aux		0.572				0.000	0.572				
		Edge 4 at 0mm Main	0.345					0.345	0.000				
	LTE Band 30	Back of Display Screen at 32mm Main	0.088					0.088	0.000				
		Bottom of Laptop at 24mm Aux		0.079	0.750	0.750	0.110	1.610	1.689	Case 1	0.03	Case 60	0.03
		Bottom Face at 7mm Main	0.389		0.830	0.780	0.110	2.109	1.720	Case 62	0.03	Case 4	0.03
		Bottom Face at 23mm Aux		0.045	0.830	0.780	0.110	1.720	1.765	Case 4	0.03	Case 63	0.03
		Edge 1 at 13mm Main	0.549					0.549	0.000				
		Edge 2 at 5mm Aux		0.794				0.000	0.794				
		Bottom Face at 0mm Main	0.147		0.830	0.780	0.110	1.867	1.720	Case 65	0.03	Case 4	0.03
		Edge 1 at 0mm Main	0.650					0.650	0.000				
		Edge 1 at 0mm Aux		0.055				0.000	0.055				
		Edge 4 at 0mm Main	0.336					0.336	0.000				
	LTE Band 41	Back of Display Screen at 32mm Main	0.001					0.001	0.000				
		Bottom of Laptop at 24mm Aux		0.014	0.750	0.750	0.110	1.610	1.624	Case 1	0.03	Case 66	0.03
		Bottom Face at 7mm Main	0.166		0.830	0.780	0.110	1.886	1.720	Case 68	0.03	Case 4	0.03
		Bottom Face at 23mm Aux		0.009	0.830	0.780	0.110	1.720	1.729	Case 4	0.03	Case 69	0.03
		Edge 1 at 13mm Main	0.183					0.183	0.000				
		Edge 2 at 5mm Aux		0.357				0.000	0.357				
		Bottom Face at 0mm Main	0.248		0.830	0.780	0.110	1.968	1.720	Case 71	0.03	Case 4	0.03
		Edge 1 at 0mm Main	0.721					0.721	0.000				
		Edge 1 at 0mm Aux		0.062				0.000	0.062				
		Edge 4 at 0mm Main	0.537					0.537	0.000				
	LTE Band 66	Back of Display Screen at 32mm Main	0.153					0.153	0.000				
		Bottom of Laptop at 24mm Aux		0.183	0.750	0.750	0.110	1.610	1.793	Case 1	0.03	Case 72	0.03
		Bottom Face at 7mm Main	0.216		0.830	0.780	0.110	1.936	1.720	Case 74	0.03	Case 4	0.03
		Bottom Face at 23mm Aux		0.134	0.830	0.780	0.110	1.720	1.854	Case 4	0.03	Case 76	0.03
		Edge 1 at 13mm Main	0.201					0.201	0.000				
		Edge 2 at 5mm Aux		0.832				0.000	0.832				
		Bottom Face at 0mm Main	0.155		0.830	0.780	0.110	1.875	1.720	Case 78	0.03	Case 4	0.03
		Edge 1 at 0mm Main	0.495					0.495	0.000				
		Edge 1 at 0mm Aux		0.065				0.000	0.065				
		Edge 4 at 0mm Main	0.280					0.280	0.000				

<WWAN + Intel AX201D2W>

WWAN Band		Exposure Position	1	2	3	4	5	6	7	1+3+4 Summed 1g SAR (W/kg)	1+3+7 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	2+3+4 Summed 1g SAR (W/kg)	2+3+7 Summed 1g SAR (W/kg)	2+5+6 Summed 1g SAR (W/kg)	2+5+7 Summed 1g SAR (W/kg)	Case No	SPLSR
			WWAN Ant Main	WWAN Ant Aux	2.4GHz WLAN Ant 1	2.4GHz WLAN Ant 2	5GHz WLAN Ant 1	5GHz WLAN Ant 2	Bluetooth Ant 2										
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)										
WCDMA	WCDMA II	Back of Display Screen at 32mm Main	0.123							0.123	0.123	0.123	0.123	0.000	0.000	0.000	0.000		
		Bottom of Laptop at 24mm Aux		0.136	0.930	0.890	1.230	1.160	0.100	1.820	1.030	2.390	1.330	1.956	1.166	2.526	1.466	Case 1	0.04
		Bottom Face at 7mm Main	0.115		0.940	0.800	1.090	0.930	0.110	1.855	1.165	2.135	1.315	1.740	1.050	2.020	1.200	Case 14	0.03
		Bottom Face at 23mm Aux		0.098	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	1.838	1.148	2.118	1.298	Case 27	0.03
		Edge 1 at 13mm Main	0.198							0.198	0.198	0.198	0.198	0.000	0.000	0.000	0.000		
		Edge 2 at 5mm Aux		0.923						0.000	0.000	0.000	0.000	0.923	0.923	0.923	0.923		
		Bottom Face at 0mm Main	0.396		0.940	0.800	1.090	0.930	0.110	2.136	1.446	2.416	1.596	1.740	1.050	2.020	1.200	Case 40	0.03
		Edge 1 at 0mm Main	0.919							0.919	0.919	0.919	0.919	0.000	0.000	0.000	0.000		
		Edge 1 at 0mm Aux		0.092						0.000	0.000	0.000	0.000	0.092	0.092	0.092	0.092		
		Edge 4 at 0mm Main	0.110							0.110	0.110	0.110	0.110	0.000	0.000	0.000	0.000		
	WCDMA IV	Back of Display Screen at 32mm Main	0.064							0.064	0.064	0.064	0.064	0.000	0.000	0.000	0.000		
		Bottom of Laptop at 24mm Aux		0.134	0.930	0.890	1.230	1.160	0.100	1.820	1.030	2.390	1.330	1.954	1.164	2.524	1.464	Case 2	0.04
		Bottom Face at 7mm Main	0.136		0.940	0.800	1.090	0.930	0.110	1.876	1.186	2.156	1.336	1.740	1.050	2.020	1.200	Case 15	0.03
		Bottom Face at 23mm Aux		0.086	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	1.826	1.136	2.106	1.286	Case 28	0.03
		Edge 1 at 13mm Main	0.162							0.162	0.162	0.162	0.162	0.000	0.000	0.000	0.000		
		Edge 2 at 5mm Aux		0.649						0.000	0.000	0.000	0.000	0.649	0.649	0.649	0.649		
		Bottom Face at 0mm Main	0.192		0.940	0.800	1.090	0.930	0.110	1.932	1.242	2.212	1.392	1.740	1.050	2.020	1.200	Case 41	0.03
		Edge 1 at 0mm Main	0.453							0.453	0.453	0.453	0.453	0.000	0.000	0.000	0.000		
		Edge 1 at 0mm Aux		0.068						0.000	0.000	0.000	0.000	0.068	0.068	0.068	0.068		
		Edge 4 at 0mm Main	0.393							0.393	0.393	0.393	0.393	0.000	0.000	0.000	0.000		
	WCDMA V	Back of Display Screen at 32mm Main	0.047							0.047	0.047	0.047	0.047	0.000	0.000	0.000	0.000		
		Bottom of Laptop at 24mm Aux		0.119	0.930	0.890	1.230	1.160	0.100	1.820	1.030	2.390	1.330	1.939	1.149	2.509	1.449	Case 3	0.04
		Bottom Face at 7mm Main	0.202		0.940	0.800	1.090	0.930	0.110	1.942	1.252	2.222	1.402	1.740	1.050	2.020	1.200	Case 16	0.03
		Bottom Face at 23mm Aux		0.051	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	1.791	1.101	2.071	1.251	Case 29	0.03
		Edge 1 at 13mm Main	0.262							0.262	0.262	0.262	0.262	0.000	0.000	0.000	0.000		
		Edge 2 at 5mm Aux		0.451						0.000	0.000	0.000	0.000	0.451	0.451	0.451	0.451		
		Bottom Face at 0mm Aux		1.130	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	2.870	2.180	3.150	2.330	Case 42	0.03
		Edge 1 at 0mm Aux		0.018						0.000	0.000	0.000	0.000	0.018	0.018	0.018	0.018		
		Edge 2 at 0mm Aux		0.717						0.000	0.000	0.000	0.000	0.717	0.717	0.717	0.717		
		Edge 4 at 0mm Main	0.255							0.255	0.255	0.255	0.255	0.000	0.000	0.000	0.000		
LTE	LTE Band 2	Back of Display Screen at 32mm Main	0.094							0.094	0.094	0.094	0.094	0.000	0.000	0.000	0.000		
		Bottom of Laptop at 24mm Aux		0.126	0.930	0.890	1.230	1.160	0.100	1.820	1.030	2.390	1.330	1.946	1.156	2.516	1.456	Case 4	0.04
		Bottom Face at 7mm Main	0.106		0.940	0.800	1.090	0.930	0.110	1.846	1.156	2.126	1.306	1.740	1.050	2.020	1.200	Case 17	0.03
		Bottom Face at 23mm Aux		0.092	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	1.832	1.142	2.112	1.292	Case 30	0.03
		Edge 1 at 13mm Main	0.113							0.113	0.113	0.113	0.113	0.000	0.000	0.000	0.000		
		Edge 2 at 5mm Aux		0.726						0.000	0.000	0.000	0.000	0.726	0.726	0.726	0.726		
		Bottom Face at 0mm Main	0.370		0.940	0.800	1.090	0.930	0.110	2.110	1.420	2.390	1.570	1.740	1.050	2.020	1.200	Case 43	0.03
		Edge 1 at 0mm Main	0.783							0.783	0.783	0.783	0.783	0.000	0.000	0.000	0.000		
		Edge 1 at 0mm Aux		0.013						0.000	0.000	0.000	0.000	0.013	0.013	0.013	0.013		
		Edge 4 at 0mm Main	0.091							0.091	0.091	0.091	0.091	0.000	0.000	0.000	0.000		
	LTE Band 7	Back of Display Screen at 32mm Main	0.101							0.101	0.101	0.101	0.101	0.000	0.000	0.000	0.000		
		Bottom of Laptop at 24mm Aux		0.084	0.930	0.890	1.230	1.160	0.100	1.820	1.030	2.390	1.330	1.904	1.114	2.474	1.414	Case 5	0.04
		Bottom Face at 7mm Main	0.406		0.940	0.800	1.090	0.930	0.110	2.146	1.456	2.426	1.606	1.740	1.050	2.020	1.200	Case 18	0.03
		Bottom Face at 23mm Aux		0.032	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	1.772	1.082	2.052	1.232	Case 31	0.03
		Edge 1 at 13mm Main	0.476							0.476	0.476	0.476	0.476	0.000	0.000	0.000	0.000		
		Edge 2 at 5mm Aux		1.141						0.000	0.000	0.000	0.000	1.141	1.141	1.141	1.141		
		Bottom Face at 0mm Main	0.247		0.940	0.800	1.090	0.930	0.110	1.987	1.297	2.267	1.447	1.740	1.050	2.020	1.200	Case 44	0.03
		Edge 1 at 0mm Main	0.764							0.764	0.764	0.764	0.764	0.000	0.000	0.000	0.000		
		Edge 1 at 0mm Aux		0.092						0.000	0.000	0.000	0.000	0.092	0.092	0.092	0.092		
		Edge 4 at 0mm Main	0.549							0.549	0.549	0.549	0.549	0.000	0.000	0.000	0.000		
	LTE	Back of Display Screen at 32mm Main	0.034							0.034	0.034	0.034	0.034	0.000	0.000	0.000	0.000		

	Band 12	Bottom of Laptop at 24mm Aux		0.041	0.930	0.890	1.230	1.160	0.100	1.820	1.030	2.390	1.330	1.861	1.071	2.431	1.371	Case 6	0.04
		Bottom Face at 7mm Main	0.055		0.940	0.800	1.090	0.930	0.110	1.795	1.105	2.075	1.255	1.740	1.050	2.020	1.200	Case 19	0.03
		Bottom Face at 23mm Aux		0.007	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	1.747	1.057	2.027	1.207	Case 32	0.03
		Edge 1 at 13mm Main	0.073							0.073	0.073	0.073	0.073	0.000	0.000	0.000	0.000		
		Edge 2 at 5mm Aux		0.086						0.000	0.000	0.000	0.000	0.086	0.086	0.086	0.086		
		Bottom Face at 0mm Main	0.435		0.940	0.800	1.090	0.930	0.110	2.175	1.485	2.455	1.635	1.740	1.050	2.020	1.200	Case 45	0.03
		Edge 1 at 0mm Main	0.758							0.758	0.758	0.758	0.758	0.000	0.000	0.000	0.000		
		Edge 1 at 0mm Aux		0.001						0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001		
		Edge 4 at 0mm Main	0.157							0.157	0.157	0.157	0.157	0.000	0.000	0.000	0.000		
	LTE Band 13	Back of Display Screen at 32mm Main	0.043							0.043	0.043	0.043	0.043	0.000	0.000	0.000	0.000		
		Bottom of Laptop at 24mm Aux		0.063	0.930	0.890	1.230	1.160	0.100	1.820	1.030	2.390	1.330	1.883	1.093	2.453	1.393	Case 7	0.04
		Bottom Face at 7mm Main	0.077		0.940	0.800	1.090	0.930	0.110	1.817	1.127	2.097	1.277	1.740	1.050	2.020	1.200	Case 20	0.03
		Bottom Face at 23mm Aux		0.012	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	1.752	1.062	2.032	1.212	Case 33	0.03
		Edge 1 at 13mm Main	0.094							0.094	0.094	0.094	0.094	0.000	0.000	0.000	0.000		
		Edge 2 at 5mm Aux		0.118						0.000	0.000	0.000	0.000	0.118	0.118	0.118	0.118		
		Bottom Face at 0mm Aux		1.082	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	2.822	2.132	3.102	2.282	Case 46	0.03
		Edge 1 at 0mm Aux		0.001						0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001		
		Edge 2 at 0mm Aux		0.650						0.000	0.000	0.000	0.000	0.650	0.650	0.650	0.650		
		Edge 4 at 0mm Main	0.230							0.230	0.230	0.230	0.230	0.000	0.000	0.000	0.000		
	LTE Band 14	Back of Display Screen at 32mm Main	0.046							0.046	0.046	0.046	0.046	0.000	0.000	0.000	0.000		
		Bottom of Laptop at 24mm Aux		0.062	0.930	0.890	1.230	1.160	0.100	1.820	1.030	2.390	1.330	1.882	1.092	2.452	1.392	Case 8	0.04
		Bottom Face at 7mm Main	0.105		0.940	0.800	1.090	0.930	0.110	1.845	1.155	2.125	1.305	1.740	1.050	2.020	1.200	Case 21	0.03
		Bottom Face at 23mm Aux		0.014	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	1.754	1.064	2.034	1.214	Case 34	0.03
		Edge 1 at 13mm Main	0.112							0.112	0.112	0.112	0.112	0.000	0.000	0.000	0.000		
		Edge 2 at 5mm Aux		0.129						0.000	0.000	0.000	0.000	0.129	0.129	0.129	0.129		
		Bottom Face at 0mm Aux		1.133	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	2.873	2.183	3.153	2.333	Case 47	0.03
		Edge 1 at 0mm Aux		0.001						0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001		
		Edge 2 at 0mm Aux		0.715						0.000	0.000	0.000	0.000	0.715	0.715	0.715	0.715		
		Edge 4 at 0mm Main	0.324							0.324	0.324	0.324	0.324	0.000	0.000	0.000	0.000		
	LTE Band 25	Back of Display Screen at 32mm Main	0.100							0.100	0.100	0.100	0.100	0.000	0.000	0.000	0.000		
		Bottom of Laptop at 24mm Aux		0.146	0.930	0.890	1.230	1.160	0.100	1.820	1.030	2.390	1.330	1.966	1.176	2.536	1.476	Case 9	0.04
		Bottom Face at 7mm Main	0.099		0.940	0.800	1.090	0.930	0.110	1.839	1.149	2.119	1.299	1.740	1.050	2.020	1.200	Case 22	0.03
		Bottom Face at 23mm Aux		0.071	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	1.811	1.121	2.091	1.271	Case 35	0.03
		Edge 1 at 13mm Main	0.116							0.116	0.116	0.116	0.116	0.000	0.000	0.000	0.000		
		Edge 2 at 5mm Aux		0.670						0.000	0.000	0.000	0.000	0.670	0.670	0.670	0.670		
		Bottom Face at 0mm Main	0.332		0.940	0.800	1.090	0.930	0.110	2.072	1.382	2.352	1.532	1.740	1.050	2.020	1.200	Case 48	0.03
		Edge 1 at 0mm Main	0.706							0.706	0.706	0.706	0.706	0.000	0.000	0.000	0.000		
		Edge 1 at 0mm Aux		0.001						0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001		
		Edge 4 at 0mm Main	0.075							0.075	0.075	0.075	0.075	0.000	0.000	0.000	0.000		
	LTE Band 26	Back of Display Screen at 32mm Main	0.053							0.053	0.053	0.053	0.053	0.000	0.000	0.000	0.000		
		Bottom of Laptop at 24mm Aux		0.060	0.930	0.890	1.230	1.160	0.100	1.820	1.030	2.390	1.330	1.880	1.090	2.450	1.390	Case 10	0.04
		Bottom Face at 7mm Main	0.092		0.940	0.800	1.090	0.930	0.110	1.832	1.142	2.112	1.292	1.740	1.050	2.020	1.200	Case 23	0.03
		Bottom Face at 23mm Aux		0.050	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	1.790	1.100	2.070	1.250	Case 36	0.03
		Edge 1 at 13mm Main	0.078							0.078	0.078	0.078	0.078	0.000	0.000	0.000	0.000		
		Edge 2 at 5mm Aux		0.125						0.000	0.000	0.000	0.000	0.125	0.125	0.125	0.125		
		Bottom Face at 0mm Aux		1.153	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	2.893	2.203	3.173	2.353	Case 49	0.03
		Edge 1 at 0mm Aux		0.001						0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001		
		Edge 2 at 0mm Aux		0.572						0.000	0.000	0.000	0.000	0.572	0.572	0.572	0.572		
		Edge 4 at 0mm Main	0.345							0.345	0.345	0.345	0.345	0.000	0.000	0.000	0.000		
	LTE Band 30	Back of Display Screen at 32mm Main	0.088							0.088	0.088	0.088	0.088	0.000	0.000	0.000	0.000		
		Bottom of Laptop at 24mm Aux		0.079	0.930	0.890	1.230	1.160	0.100	1.820	1.030	2.390	1.330	1.899	1.109	2.469	1.409	Case 11	0.04
		Bottom Face at 7mm Main	0.389		0.940	0.800	1.090	0.930	0.110	2.129	1.439	2.409	1.589	1.740	1.050	2.020	1.200	Case 24	0.03
		Bottom Face at 23mm Aux		0.045	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	1.785	1.095	2.065	1.245	Case 37	0.03
		Edge 1 at 13mm Main	0.549							0.549	0.549	0.549	0.549	0.000	0.000	0.000	0.000		
		Edge 2 at 5mm Aux		0.794						0.000	0.000	0.000	0.000	0.794	0.794	0.794	0.794		
		Bottom Face at 0mm Main	0.147		0.940	0.800	1.090	0.930	0.110	1.887	1.197	2.167	1.347	1.740	1.050	2.020	1.200	Case 50	0.03

		Edge 1 at 0mm Main	0.650							0.650	0.650	0.650	0.650	0.000	0.000	0.000	0.000		
		Edge 1 at 0mm Aux		0.055						0.000	0.000	0.000	0.000	0.055	0.055	0.055	0.055		
		Edge 4 at 0mm Main	0.336							0.336	0.336	0.336	0.336	0.000	0.000	0.000	0.000		
	LTE Band 41	Back of Display Screen at 32mm Main	0.001							0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000		
		Bottom of Laptop at 24mm Aux		0.014	0.930	0.890	1.230	1.160	0.100	1.820	1.030	2.390	1.330	1.834	1.044	2.404	1.344	Case 12	0.04
		Bottom Face at 7mm Main	0.166		0.940	0.800	1.090	0.930	0.110	1.906	1.216	2.186	1.366	1.740	1.050	2.020	1.200	Case 25	0.03
		Bottom Face at 23mm Aux		0.009	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	1.749	1.059	2.029	1.209	Case 38	0.03
		Edge 1 at 13mm Main	0.183							0.183	0.183	0.183	0.183	0.000	0.000	0.000	0.000		
		Edge 2 at 5mm Aux		0.357						0.000	0.000	0.000	0.000	0.357	0.357	0.357	0.357		
		Bottom Face at 0mm Main	0.248		0.940	0.800	1.090	0.930	0.110	1.988	1.298	2.268	1.448	1.740	1.050	2.020	1.200	Case 51	0.03
		Edge 1 at 0mm Main	0.721							0.721	0.721	0.721	0.721	0.000	0.000	0.000	0.000		
		Edge 1 at 0mm Aux		0.062						0.000	0.000	0.000	0.000	0.062	0.062	0.062	0.062		
		Edge 4 at 0mm Main	0.537							0.537	0.537	0.537	0.537	0.000	0.000	0.000	0.000		
	LTE Band 66	Back of Display Screen at 32mm Main	0.153							0.153	0.153	0.153	0.153	0.000	0.000	0.000	0.000		
		Bottom of Laptop at 24mm Aux		0.183	0.930	0.890	1.230	1.160	0.100	1.820	1.030	2.390	1.330	2.003	1.213	2.573	1.513	Case 13	0.04
		Bottom Face at 7mm Main	0.216		0.940	0.800	1.090	0.930	0.110	1.956	1.266	2.236	1.416	1.740	1.050	2.020	1.200	Case 26	0.03
		Bottom Face at 23mm Aux		0.134	0.940	0.800	1.090	0.930	0.110	1.740	1.050	2.020	1.200	1.874	1.184	2.154	1.334	Case 39	0.03
		Edge 1 at 13mm Main	0.201							0.201	0.201	0.201	0.201	0.000	0.000	0.000	0.000		
		Edge 2 at 5mm Aux		0.832						0.000	0.000	0.000	0.000	0.832	0.832	0.832	0.832		
		Bottom Face at 0mm Main	0.155		0.940	0.800	1.090	0.930	0.110	1.895	1.205	2.175	1.355	1.740	1.050	2.020	1.200	Case 52	0.03
		Edge 1 at 0mm Main	0.495							0.495	0.495	0.495	0.495	0.000	0.000	0.000	0.000		
		Edge 1 at 0mm Aux		0.065						0.000	0.000	0.000	0.000	0.065	0.065	0.065	0.065		
		Edge 4 at 0mm Main	0.280							0.280	0.280	0.280	0.280	0.000	0.000	0.000	0.000		

16.2 SPLSR Evaluation and Analysis

General Note:

1. According to section13 antenna location, the minimum distance between each transmit antenna if used for SPLSR analysis, SPLSR = $(SAR_1 + SAR_2)^{1.5}$ / (*min. separation distance, mm*). If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary

<WWAN + Intel 9560D2W>

Case 1	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	5G_Ant 1	Bottom of Laptop	0.75	0	78.9	1.61	0.03	Not required
	BT + 5G_Ant 2		0.86	0				

Case 4	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

Case 2	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B2_Aux	Bottom of Laptop	0.136	24	155.0	0.89	0.01	Not required
	5G_Ant 1		0.75	0				
	3G B2_Aux	Bottom of Laptop	0.136	24	221.0	1.00	0.00	Not required
	BT + 5G_Ant 2		0.86	0				
	5G_Ant 1	Bottom of Laptop	0.75	0	78.9	1.61	0.03	Not required
	BT + 5G_Ant 2		0.86	0				

Case 3	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B2_Main	Bottom Face	0.115	7	200.0	0.95	0.00	Not required
	5G_Ant 1		0.83	0				
	3G B2_Main	Bottom Face	0.115	7	191.0	1.01	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

Case 5	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B2_Aux	Bottom Face	0.098	23	155.0	0.93	0.01	Not required
	5G_Ant 1		0.83	0				
	3G B2_Aux	Bottom Face	0.098	23	221.0	0.99	0.00	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

Case 6	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B2_Main	Bottom Face	0.396	0	200.0	1.26	0.01	Not required
	2.4G_Ant 1		0.86	0				
	3G B2_Main	Bottom Face	0.396	0	191.0	1.01	0.01	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

Case 7	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR

	3G B2_Main	Bottom Face	0.396	0	200.0	1.23	0.01	Not required
	5G_Ant 1		0.83	0				
	3G B2_Main	Bottom Face	0.396	0	191.0	1.29	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

Case 8	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B4_Aux	Bottom of Laptop	0.134	24	155.0	0.88	0.01	Not required
	5G_Ant 1		0.75	0				
	3G B4_Aux	Bottom of Laptop	0.134	24	221.0	0.99	0.00	Not required
	BT + 5G_Ant 2		0.86	0				
	5G_Ant 1	Bottom of Laptop	0.75	0	78.9	1.61	0.03	Not required
	BT + 5G_Ant 2		0.86	0				

Case 9	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B4_Main	Bottom Face	0.136	7	200.0	1.00	0.00	Not required
	2.4G_Ant 1		0.86	0				
	3G B4_Main	Bottom Face	0.136	7	191.0	0.75	0.00	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

Case 10	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B4_Main	Bottom Face	0.136	7	200.0	0.97	0.00	Not required
	5G_Ant 1		0.83	0				
	3G B4_Main	Bottom Face	0.136	7	191.0	1.03	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

Case 11	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B4_Aux	Bottom Face	0.086	23	155.0	0.92	0.01	Not required
	5G_Ant 1		0.83	0				
	3G B4_Aux	Bottom Face	0.086	23	221.0	0.98	0.00	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

Case 12	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B4_Main	Bottom Face	0.192	0	200.0	1.05	0.01	Not required
	2.4G_Ant 1		0.86	0				
	3G B4_Main	Bottom Face	0.192	0	191.0	0.80	0.00	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

Case 13	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B4_Main	Bottom Face	0.192	0	200.0	1.02	0.01	Not required

	5G_Ant 1		0.83	0				
	3G B4_Main	Bottom Face	0.192	0	191.0	1.08	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

Case 14	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B5_Aux	Bottom of Laptop	0.119	24	155.0	0.87	0.01	Not required
	5G_Ant 1		0.75	0				
	3G B5_Aux	Bottom of Laptop	0.119	24	221.0	0.98	0.00	Not required
	BT + 5G_Ant 2		0.86	0				
	5G_Ant 1	Bottom of Laptop	0.75	0	78.9	1.61	0.03	Not required
	BT + 5G_Ant 2		0.86	0				

Case 15	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B5_Main	Bottom Face	0.202	7	200.0	1.06	0.01	Not required
	2.4G_Ant 1		0.86	0				
	3G B5_Main	Bottom Face	0.202	7	191.0	0.81	0.00	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

Case 16	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B5_Main	Bottom Face	0.189	7	200.0	1.02	0.01	Not required
	5G_Ant 1		0.83	0				
	3G B5_Main	Bottom Face	0.189	7	191.0	1.08	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

Case 17	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B5_Aux	Bottom Face	0.051	23	155.0	0.88	0.01	Not required
	5G_Ant 1		0.83	0				
	3G B5_Aux	Bottom Face	0.051	23	221.0	0.94	0.00	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

Case 18	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B5_Aux	Bottom Face	1.13	0	155.0	1.99	0.02	Not required
	2.4G_Ant 1		0.86	0				
	3G B5_Aux	Bottom Face	1.13	0	221.0	1.24	0.01	Not required
	BT_Ant 2		0.11	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	0.97	0.01	Not required
	BT_Ant 2		0.11	0				

Case 19	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B5_Aux	Bottom Face	1.13	0	155.0	1.99	0.02	Not required
	2.4G_Ant 1		0.86	0				

	3G B5_Aux	Bottom Face	1.13	0	221.0	1.74	0.01	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 20	3G B5_Aux	Bottom Face	1.13	0	155.0	1.96	0.02	Not required
	5G_Ant 1		0.83	0				
	3G B5_Aux	Bottom Face	1.13	0	221.0	2.02	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 21	4G B2_Aux	Bottom of Laptop	0.126	24	155.0	0.88	0.01	Not required
	5G_Ant 1		0.75	0				
	4G B2_Aux	Bottom of Laptop	0.126	24	221.0	0.99	0.00	Not required
	BT + 5G_Ant 2		0.86	0				
	5G_Ant 1	Bottom of Laptop	0.75	0	78.9	1.61	0.03	Not required
	BT + 5G_Ant 2		0.86	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 22	4G B2_Main	Bottom Face	0.106	7	200.0	0.94	0.00	Not required
	5G_Ant 1		0.83	0				
	4G B2_Main	Bottom Face	0.106	7	191.0	1.00	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 23	4G B2_Aux	Bottom Face	0.092	23	155.0	0.92	0.01	Not required
	5G_Ant 1		0.83	0				
	4G B2_Aux	Bottom Face	0.092	23	221.0	0.98	0.00	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 24	4G B2_Main	Bottom Face	0.37	0	200.0	1.23	0.01	Not required
	2.4G_Ant 1		0.86	0				
	4G B2_Main	Bottom Face	0.37	0	191.0	0.98	0.01	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 25	4G B2_Main	Bottom Face	0.37	0	200.0	1.20	0.01	Not required
	5G_Ant 1		0.83	0				
	4G B2_Main	Bottom Face	0.37	0	191.0	1.26	0.01	Not required

	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 26	4G B7_Aux	Bottom of Laptop	0.084	24	155.0	0.83	0.00	Not required
	5G_Ant 1		0.75	0				
	4G B7_Aux	Bottom of Laptop	0.084	24	221.0	0.94	0.00	Not required
	BT + 5G_Ant 2		0.86	0				
	5G_Ant 1	Bottom of Laptop	0.75	0	78.9	1.61	0.03	Not required
	BT + 5G_Ant 2		0.86	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 27	4G B7_Main	Bottom Face	0.406	7	200.0	1.27	0.01	Not required
	2.4G_Ant 1		0.86	0				
	4G B7_Main	Bottom Face	0.406	7	191.0	1.02	0.01	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 28	4G B7_Main	Bottom Face	0.406	7	200.0	1.24	0.01	Not required
	5G_Ant 1		0.83	0				
	4G B7_Main	Bottom Face	0.406	7	191.0	1.30	0.01	Not required
	5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 29	4G B7_Aux	Bottom Face	0.032	23	155.0	0.86	0.01	Not required
	5G_Ant 1		0.83	0				
	4G B7_Aux	Bottom Face	0.032	23	221.0	0.92	0.00	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 30	4G B7_Main	Bottom Face	0.247	0	200.0	1.11	0.01	Not required
	2.4G_Ant 1		0.86	0				
	4G B7_Main	Bottom Face	0.247	0	191.0	0.86	0.00	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 31	4G B7_Main	Bottom Face	0.247	0	200.0	1.08	0.01	Not required
	5G_Ant 1		0.83	0				
	4G B7_Main	Bottom Face	0.247	0	191.0	1.14	0.01	Not required
	BT + 5G_Ant 2		0.89	0				

	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 32	4G B12_Aux	Bottom of Laptop	0.041	24	155.0	0.79	0.00	Not required
	5G_Ant 1		0.75	0				
	4G B12_Aux	Bottom of Laptop	0.041	24	221.0	0.90	0.00	Not required
	BT + 5G_Ant 2		0.86	0				
	5G_Ant 1	Bottom of Laptop	0.75	0	78.9	1.61	0.03	Not required
	BT + 5G_Ant 2		0.86	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 33	4G B12_Main	Bottom Face	0.055	7	200.0	0.89	0.00	Not required
	5G_Ant 1		0.83	0				
	4G B12_Main	Bottom Face	0.055	7	191.0	0.95	0.00	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 34	4G B12_Aux	Bottom Face	0.007	23	155.0	0.84	0.00	Not required
	5G_Ant 1		0.83	0				
	4G B12_Aux	Bottom Face	0.007	23	221.0	0.90	0.00	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 35	4G B12_Main	Bottom Face	0.435	0	200.0	1.30	0.01	Not required
	2.4G_Ant 1		0.86	0				
	4G B12_Main	Bottom Face	0.435	0	191.0	1.05	0.01	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 36	4G B12_Main	Bottom Face	0.435	0	200.0	1.27	0.01	Not required
	5G_Ant 1		0.83	0				
	4G B12_Main	Bottom Face	0.435	0	191.0	1.33	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 37	4G B13_Aux	Bottom of Laptop	0.063	24	155.0	0.81	0.00	Not required
	5G_Ant 1		0.75	0				
	4G B13_Aux	Bottom of Laptop	0.063	24	221.0	0.92	0.00	Not required
	BT + 5G_Ant 2		0.86	0				
	5G_Ant 1	Bottom of Laptop	0.75	0	78.9	1.61	0.03	Not required

	BT + 5G_Ant 2		0.86	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 38	4G B13_Main	Bottom Face	0.077	7	200.0	0.91	0.00	Not required
	5G_Ant 1		0.83	0				
	4G B13_Main	Bottom Face	0.077	7	191.0	0.97	0.00	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 39	4G B13_Aux	Bottom Face	0.012	23	155.0	0.84	0.00	Not required
	5G_Ant 1		0.83	0				
	4G B13_Aux	Bottom Face	0.012	23	221.0	0.90	0.00	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 40	4G B13_Aux	Bottom Face	1.082	0	155.0	1.94	0.02	Not required
	2.4G_Ant 1		0.86	0				
	4G B13_Aux	Bottom Face	1.082	0	221.0	1.19	0.01	Not required
	BT_Ant 2		0.11	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	0.97	0.01	Not required
	BT_Ant 2		0.11	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 41	4G B13_Aux	Bottom Face	1.082	0	155.0	1.94	0.02	Not required
	2.4G_Ant 1		0.86	0				
	4G B13_Aux	Bottom Face	1.082	0	221.0	1.69	0.01	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 42	4G B13_Aux	Bottom Face	1.082	0	155.0	1.91	0.02	Not required
	5G_Ant 1		0.83	0				
	4G B13_Aux	Bottom Face	1.082	0	221.0	1.97	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 49	4G B25_Aux	Bottom of Laptop	0.146	24	155.0	0.90	0.01	Not required
	5G_Ant 1		0.75	0				
	4G B25_Aux	Bottom of Laptop	0.146	24	221.0	1.01	0.00	Not required
	BT + 5G_Ant 2		0.86	0				
	5G_Ant 1	Bottom of Laptop	0.75	0	78.9	1.61	0.03	Not required
	BT + 5G_Ant 2		0.86	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 50	4G B25_Main	Bottom Face	0.099	7	200.0	0.93	0.00	Not required
	5G_Ant 1		0.83	0				
	4G B25_Main	Bottom Face	0.099	7	191.0	0.99	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 51	4G B25_Aux	Bottom Face	0.071	23	155.0	0.90	0.01	Not required
	5G_Ant 1		0.83	0				
	4G B25_Aux	Bottom Face	0.071	23	221.0	0.96	0.00	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 52	4G B25_Main	Bottom Face	0.332	0	200.0	1.19	0.01	Not required
	2.4G_Ant 1		0.86	0				
	4G B25_Main	Bottom Face	0.332	0	191.0	0.94	0.00	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 53	4G B25_Main	Bottom Face	0.332	0	200.0	1.16	0.01	Not required
	5G_Ant 1		0.83	0				
	4G B25_Main	Bottom Face	0.332	0	191.0	1.22	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 54	4G B26_Aux	Bottom of Laptop	0.06	24	155.0	0.81	0.00	Not required
	5G_Ant 1		0.75	0				
	4G B26_Aux	Bottom of Laptop	0.06	24	221.0	0.92	0.00	Not required
	BT + 5G_Ant 2		0.86	0				
	5G_Ant 1	Bottom of Laptop	0.75	0	78.9	1.61	0.03	Not required
	BT + 5G_Ant 2		0.86	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 55	4G B26_Main	Bottom Face	0.092	7	200.0	0.92	0.00	Not required
	5G_Ant 1		0.83	0				
	4G B26_Main	Bottom Face	0.092	7	191.0	0.98	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 56	4G B26_Aux	Bottom Face	0.05	23	155.0	0.88	0.01	Not required
	5G_Ant 1		0.83	0				
	4G B26_Aux	Bottom Face	0.05	23	221.0	0.94	0.00	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 57	4G B26_Aux	Bottom Face	1.153	23	155.0	2.01	0.02	Not required
	2.4G_Ant 1		0.86	0				
	4G B26_Aux	Bottom Face	1.153	23	221.0	1.26	0.01	Not required
	BT_Ant 2		0.11	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	0.97	0.01	Not required
	BT_Ant 2		0.11	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 58	4G B26_Aux	Bottom Face	1.153	0	155.0	2.01	0.02	Not required
	2.4G_Ant 1		0.86	0				
	4G B26_Aux	Bottom Face	1.153	0	221.0	1.76	0.01	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 59	4G B26_Aux	Bottom Face	1.153	0	200.0	1.98	0.01	Not required
	5G_Ant 1		0.83	0				
	4G B26_Aux	Bottom Face	1.153	0	191.0	2.04	0.02	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 60	4G B30_Aux	Bottom of Laptop	0.079	24	155.0	0.83	0.00	Not required
	5G_Ant 1		0.75	0				
	4G B30_Aux	Bottom of Laptop	0.079	24	221.0	0.94	0.00	Not required
	BT + 5G_Ant 2		0.86	0				
	5G_Ant 1	Bottom of Laptop	0.75	0	78.9	1.61	0.03	Not required
	BT + 5G_Ant 2		0.86	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 61	4G B30_Main	Bottom Face	0.389	7	200.0	1.25	0.01	Not required
	2.4G_Ant 1		0.86	0				
	4G B30_Main	Bottom Face	0.389	7	191.0	1.00	0.01	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

Case 62	Band	Position	SAR	Gap	Minimum	Summed SAR	SPLSR	Simultaneous SAR

			(W/kg)	(mm)	distance (mm)	(W/kg)	Results	
	4G B30_Main	Bottom Face	0.389	7	200.0	1.22	0.01	Not required
	5G_Ant 1		0.83	0				
	4G B30_Main	Bottom Face	0.389	7	191.0	1.28	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

Case 63	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B30_Aux	Bottom Face	0.045	23	155.0	0.88	0.01	Not required
	5G_Ant 1		0.83	0				
	4G B30_Aux	Bottom Face	0.045	23	221.0	0.94	0.00	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

Case 64	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B30_Main	Bottom Face	0.147	0	200.0	1.01	0.01	Not required
	2.4G_Ant 1		0.86	0				
	4G B30_Main	Bottom Face	0.147	0	191.0	0.76	0.00	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

Case 65	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B30_Main	Bottom Face	0.147	0	200.0	0.98	0.00	Not required
	5G_Ant 1		0.83	0				
	4G B30_Main	Bottom Face	0.147	0	191.0	1.04	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

Case 66	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B41_Aux	Bottom of Laptop	0.014	24	155.0	0.76	0.00	Not required
	5G_Ant 1		0.75	0				
	4G B41_Aux	Bottom of Laptop	0.014	24	221.0	0.87	0.00	Not required
	BT + 5G_Ant 2		0.86	0				
	5G_Ant 1	Bottom of Laptop	0.75	0	78.9	1.61	0.03	Not required
	BT + 5G_Ant 2		0.86	0				

Case 67	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B41_Main	Bottom Face	0.166	7	200.0	1.03	0.01	Not required
	2.4G_Ant 1		0.86	0				
	4G B41_Main	Bottom Face	0.166	7	191.0	0.78	0.00	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

Case 68	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR

	4G B41_Main	Bottom Face	0.166	7	200.0	1.00	0.00	Not required
	5G_Ant 1		0.83	0				
	4G B41_Main	Bottom Face	0.166	7	191.0	1.06	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

Case 69	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B41_Aux	Bottom Face	0.009	23	155.0	0.84	0.00	Not required
	5G_Ant 1		0.83	0				
	4G B41_Aux	Bottom Face	0.009	23	221.0	0.90	0.00	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

Case 70	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B41_Main	Bottom Face	0.248	0	200.0	1.11	0.01	Not required
	2.4G_Ant 1		0.86	0				
	4G B41_Main	Bottom Face	0.248	0	191.0	0.86	0.00	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

Case 71	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B41_Main	Bottom Face	0.248	0	200.0	1.08	0.01	Not required
	5G_Ant 1		0.83	0				
	4G B41_Main	Bottom Face	0.248	0	191.0	1.14	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

Case 72	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B66_Aux	Bottom of Laptop	0.183	24	155.0	0.93	0.01	Not required
	5G_Ant 1		0.75	0				
	4G B66_Aux	Bottom of Laptop	0.183	24	221.0	1.04	0.00	Not required
	BT + 5G_Ant 2		0.86	0				
	5G_Ant 1	Bottom of Laptop	0.75	0	78.9	1.61	0.03	Not required
	BT + 5G_Ant 2		0.86	0				

Case 73	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B66_Main	Bottom Face	0.216	7	200.0	1.08	0.01	Not required
	2.4G_Ant 1		0.86	0				
	4G B66_Main	Bottom Face	0.216	7	191.0	0.83	0.00	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

Case 74	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B66_Main	Bottom Face	0.216	7	200.0	1.05	0.01	Not required

	5G_Ant 1		0.83	0				
	4G B66_Main	Bottom Face	0.216	7	191.0	1.11	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 75	4G B66_Aux	Bottom Face	0.134	23	155.0	0.99	0.01	Not required
	2.4G_Ant 1		0.86	0				
	4G B66_Aux	Bottom Face	0.134	23	221.0	0.74	0.00	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 76	4G B66_Aux	Bottom Face	0.134	23	155.0	0.96	0.01	Not required
	5G_Ant 1		0.83	0				
	4G B66_Aux	Bottom Face	0.134	23	221.0	1.02	0.00	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 77	4G B66_Main	Bottom Face	0.155	0	200.0	1.02	0.01	Not required
	2.4G_Ant 1		0.86	0				
	4G B66_Main	Bottom Face	0.155	0	191.0	0.77	0.00	Not required
	2.4G_Ant 2		0.61	0				
	2.4G_Ant 1	Bottom Face	0.86	0	78.9	1.47	0.02	Not required
	2.4G_Ant 2		0.61	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 78	4G B66_Main	Bottom Face	0.155	0	200.0	0.99	0.00	Not required
	5G_Ant 1		0.83	0				
	4G B66_Main	Bottom Face	0.155	0	191.0	1.05	0.01	Not required
	BT + 5G_Ant 2		0.89	0				
	5G_Ant 1	Bottom Face	0.83	0	78.9	1.72	0.03	Not required
	BT + 5G_Ant 2		0.89	0				

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	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 1	3G B2_Aux	Bottom of Laptop	0.136	24	155.0	1.07	0.01	Not required
	2.4G_Ant 1		0.93	0				
	3G B2_Aux	Bottom of Laptop	0.136	24	221.0	1.03	0.00	Not required
	2.4G_Ant 2		0.89	0				
	3G B2_Aux	Bottom of Laptop	0.136	24	155.0	1.37	0.01	Not required
	5G_Ant 1		1.23	0				
	3G B2_Aux	Bottom of Laptop	0.136	24	221.0	1.30	0.01	Not required
	5G_Ant 2		1.16	0				
	2.4G_Ant 1	Bottom of Laptop	0.93	0	83.2	1.82	0.03	Not required
	2.4G_Ant 2		0.89	0				
	5G_Ant 1	Bottom of Laptop	1.23	0	83.2	2.39	0.04	Not required
	5G_Ant 2		1.16	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 2	3G B4_Aux	Bottom of Laptop	0.134	24	155.0	1.06	0.01	Not required
	2.4G_Ant 1		0.93	0				
	3G B4_Aux	Bottom of Laptop	0.134	24	221.0	1.02	0.00	Not required
	2.4G_Ant 2		0.89	0				
	3G B4_Aux	Bottom of Laptop	0.134	24	155.0	1.36	0.01	Not required
	5G_Ant 1		1.23	0				
	3G B4_Aux	Bottom of Laptop	0.134	24	221.0	1.29	0.01	Not required
	5G_Ant 2		1.16	0				
	2.4G_Ant 1	Bottom of Laptop	0.93	0	83.2	1.82	0.03	Not required
	2.4G_Ant 2		0.89	0				
	5G_Ant 1	Bottom of Laptop	1.23	0	83.2	2.39	0.04	Not required
	5G_Ant 2		1.16	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 3	3G B5_Aux	Bottom of Laptop	0.119	24	155.0	1.05	0.01	Not required
	2.4G_Ant 1		0.93	0				
	3G B5_Aux	Bottom of Laptop	0.119	24	221.0	1.01	0.00	Not required
	2.4G_Ant 2		0.89	0				
	3G B5_Aux	Bottom of Laptop	0.119	24	155.0	1.35	0.01	Not required
	5G_Ant 1		1.23	0				
	3G B5_Aux	Bottom of Laptop	0.119	24	221.0	1.28	0.01	Not required
	5G_Ant 2		1.16	0				
	2.4G_Ant 1	Bottom of Laptop	0.93	0	83.2	1.82	0.03	Not required
	2.4G_Ant 2		0.89	0				
	5G_Ant 1	Bottom of Laptop	1.23	0	83.2	2.39	0.04	Not required
	5G_Ant 2		1.16	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 4	4G B2_Aux	Bottom of Laptop	0.126	24	155.0	1.06	0.01	Not required
	2.4G_Ant 1		0.93	0				
	4G B2_Aux	Bottom of Laptop	0.126	24	221.0	1.02	0.00	Not required
	2.4G_Ant 2		0.89	0				
	4G B2_Aux	Bottom of Laptop	0.126	24	155.0	1.36	0.01	Not required
	5G_Ant 1		1.23	0				
	4G B2_Aux	Bottom of Laptop	0.126	24	221.0	1.29	0.01	Not required
	5G_Ant 2		1.16	0				

	2.4G_Ant 1	Bottom of Laptop	0.93	0	83.2	1.82	0.03	Not required
	2.4G_Ant 2		0.89	0				
	5G_Ant 1	Bottom of Laptop	1.23	0	83.2	2.39	0.04	Not required
	5G_Ant 2		1.16	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 5	4G B7_Aux	Bottom of Laptop	0.084	24	155.0	1.01	0.01	Not required
	2.4G_Ant 1		0.93	0				
	4G B7_Aux	Bottom of Laptop	0.084	24	221.0	0.97	0.00	Not required
	2.4G_Ant 2		0.89	0				
	4G B7_Aux	Bottom of Laptop	0.084	24	155.0	1.31	0.01	Not required
	5G_Ant 1		1.23	0				
	4G B7_Aux	Bottom of Laptop	0.084	24	221.0	1.24	0.01	Not required
	5G_Ant 2		1.16	0				
	2.4G_Ant 1	Bottom of Laptop	0.93	0	83.2	1.82	0.03	Not required
	2.4G_Ant 2		0.89	0				
	5G_Ant 1	Bottom of Laptop	1.23	0	83.2	2.39	0.04	Not required
	5G_Ant 2		1.16	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 6	4G B12_Aux	Bottom of Laptop	0.041	24	155.0	0.97	0.01	Not required
	2.4G_Ant 1		0.93	0				
	4G B12_Aux	Bottom of Laptop	0.041	24	221.0	0.93	0.00	Not required
	2.4G_Ant 2		0.89	0				
	4G B12_Aux	Bottom of Laptop	0.041	24	155.0	1.27	0.01	Not required
	5G_Ant 1		1.23	0				
	4G B12_Aux	Bottom of Laptop	0.041	24	221.0	1.20	0.01	Not required
	5G_Ant 2		1.16	0				
	2.4G_Ant 1	Bottom of Laptop	0.93	0	83.2	1.82	0.03	Not required
	2.4G_Ant 2		0.89	0				
	5G_Ant 1	Bottom of Laptop	1.23	0	83.2	2.39	0.04	Not required
	5G_Ant 2		1.16	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 7	4G B13_Aux	Bottom of Laptop	0.063	24	155.0	0.99	0.01	Not required
	2.4G_Ant 1		0.93	0				
	4G B13_Aux	Bottom of Laptop	0.063	24	221.0	0.95	0.00	Not required
	2.4G_Ant 2		0.89	0				
	4G B13_Aux	Bottom of Laptop	0.063	24	155.0	1.29	0.01	Not required
	5G_Ant 1		1.23	0				
	4G B13_Aux	Bottom of Laptop	0.063	24	221.0	1.22	0.01	Not required
	5G_Ant 2		1.16	0				
	2.4G_Ant 1	Bottom of Laptop	0.93	0	83.2	1.82	0.03	Not required
	2.4G_Ant 2		0.89	0				
	5G_Ant 1	Bottom of Laptop	1.23	0	83.2	2.39	0.04	Not required
	5G_Ant 2		1.16	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 8	4G B14_Aux	Bottom of Laptop	0.062	24	155.0	0.99	0.01	Not required
	2.4G_Ant 1		0.93	0				
	4G B14_Aux	Bottom of Laptop	0.062	24	221.0	0.95	0.00	Not required

	2.4G_Ant 2		0.89	0				
	4G B14_Aux	Bottom of Laptop	0.062	24	155.0	1.29	0.01	Not required
	5G_Ant 1		1.23	0				
	4G B14_Aux	Bottom of Laptop	0.062	24	221.0	1.22	0.01	Not required
	5G_Ant 2		1.16	0				
	2.4G_Ant 1	Bottom of Laptop	0.93	0	83.2	1.82	0.03	Not required
	2.4G_Ant 2		0.89	0				
	5G_Ant 1	Bottom of Laptop	1.23	0	83.2	2.39	0.04	Not required
	5G_Ant 2		1.16	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 9	4G B25_Aux	Bottom of Laptop	0.146	24	155.0	1.08	0.01	Not required
	2.4G_Ant 1		0.93	0				
	4G B25_Aux	Bottom of Laptop	0.146	24	221.0	1.04	0.00	Not required
	2.4G_Ant 2		0.89	0				
	4G B25_Aux	Bottom of Laptop	0.146	24	155.0	1.38	0.01	Not required
	5G_Ant 1		1.23	0				
	4G B25_Aux	Bottom of Laptop	0.146	24	221.0	1.31	0.01	Not required
	5G_Ant 2		1.16	0				
	2.4G_Ant 1	Bottom of Laptop	0.93	0	83.2	1.82	0.03	Not required
	2.4G_Ant 2		0.89	0				
	5G_Ant 1	Bottom of Laptop	1.23	0	83.2	2.39	0.04	Not required
	5G_Ant 2		1.16	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 10	4G B26_Aux	Bottom of Laptop	0.06	24	155.0	0.99	0.01	Not required
	2.4G_Ant 1		0.93	0				
	4G B26_Aux	Bottom of Laptop	0.06	24	221.0	0.95	0.00	Not required
	2.4G_Ant 2		0.89	0				
	4G B26_Aux	Bottom of Laptop	0.06	24	155.0	1.29	0.01	Not required
	5G_Ant 1		1.23	0				
	4G B26_Aux	Bottom of Laptop	0.06	24	221.0	1.22	0.01	Not required
	5G_Ant 2		1.16	0				
	2.4G_Ant 1	Bottom of Laptop	0.93	0	83.2	1.82	0.03	Not required
	2.4G_Ant 2		0.89	0				
	5G_Ant 1	Bottom of Laptop	1.23	0	83.2	2.39	0.04	Not required
	5G_Ant 2		1.16	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 11	4G B30_Aux	Bottom of Laptop	0.079	24	155.0	1.01	0.01	Not required
	2.4G_Ant 1		0.93	0				
	4G B30_Aux	Bottom of Laptop	0.079	24	221.0	0.97	0.00	Not required
	2.4G_Ant 2		0.89	0				
	4G B30_Aux	Bottom of Laptop	0.079	24	155.0	1.31	0.01	Not required
	5G_Ant 1		1.23	0				
	4G B30_Aux	Bottom of Laptop	0.079	24	221.0	1.24	0.01	Not required
	5G_Ant 2		1.16	0				
	2.4G_Ant 1	Bottom of Laptop	0.93	0	83.2	1.82	0.03	Not required
	2.4G_Ant 2		0.89	0				
	5G_Ant 1	Bottom of Laptop	1.23	0	83.2	2.39	0.04	Not required
	5G_Ant 2		1.16	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 12	4G B41_Aux	Bottom of Laptop	0.014	24	155.0	0.94	0.01	Not required
	2.4G_Ant 1		0.93	0				
	4G B41_Aux	Bottom of Laptop	0.014	24	221.0	0.90	0.00	Not required
	2.4G_Ant 2		0.89	0				
	4G B41_Aux	Bottom of Laptop	0.014	24	155.0	1.24	0.01	Not required
	5G_Ant 1		1.23	0				
	4G B41_Aux	Bottom of Laptop	0.014	24	221.0	1.17	0.01	Not required
	5G_Ant 2		1.16	0				
	2.4G_Ant 1	Bottom of Laptop	0.93	0	83.2	1.82	0.03	Not required
	2.4G_Ant 2		0.89	0				
	5G_Ant 1	Bottom of Laptop	1.23	0	83.2	2.39	0.04	Not required
	5G_Ant 2		1.16	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 13	4G B66_Aux	Bottom of Laptop	0.183	24	155.0	1.11	0.01	Not required
	2.4G_Ant 1		0.93	0				
	4G B66_Aux	Bottom of Laptop	0.183	24	221.0	1.07	0.01	Not required
	2.4G_Ant 2		0.89	0				
	4G B66_Aux	Bottom of Laptop	0.183	24	155.0	1.41	0.01	Not required
	5G_Ant 1		1.23	0				
	4G B66_Aux	Bottom of Laptop	0.183	24	221.0	1.34	0.01	Not required
	5G_Ant 2		1.16	0				
	2.4G_Ant 1	Bottom of Laptop	0.93	0	83.2	1.82	0.03	Not required
	2.4G_Ant 2		0.89	0				
	5G_Ant 1	Bottom of Laptop	1.23	0	83.2	2.39	0.04	Not required
	5G_Ant 2		1.16	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 14	3G B2_Main	Bottom Face	0.115	7	200.0	1.06	0.01	Not required
	2.4G_Ant 1		0.94	0				
	3G B2_Main	Bottom Face	0.115	7	191.0	0.92	0.00	Not required
	2.4G_Ant 2		0.8	0				
	3G B2_Main	Bottom Face	0.115	7	200.0	1.21	0.01	Not required
	5G_Ant 1		1.09	0				
	3G B2_Main	Bottom Face	0.115	7	191.0	1.05	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 15	3G B4_Main	Bottom Face	0.136	7	200.0	1.08	0.01	Not required
	2.4G_Ant 1		0.94	0				
	3G B4_Main	Bottom Face	0.136	7	191.0	0.94	0.00	Not required
	2.4G_Ant 2		0.8	0				
	3G B4_Main	Bottom Face	0.136	7	200.0	1.23	0.01	Not required
	5G_Ant 1		1.09	0				
	3G B4_Main	Bottom Face	0.136	7	191.0	1.07	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required

	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

Case 16	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B5_Main	Bottom Face	0.202	7	200.0	1.14	0.01	Not required
	2.4G_Ant 1		0.94	0				
	3G B5_Main	Bottom Face	0.202	7	191.0	1.00	0.01	Not required
	2.4G_Ant 2		0.8	0				
	3G B5_Main	Bottom Face	0.202	7	200.0	1.29	0.01	Not required
	5G_Ant 1		1.09	0				
	3G B5_Main	Bottom Face	0.202	7	191.0	1.13	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

Case 17	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B2_Main	Bottom Face	0.106	7	200.0	1.05	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B2_Main	Bottom Face	0.106	7	191.0	0.91	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B2_Main	Bottom Face	0.106	7	200.0	1.20	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B2_Main	Bottom Face	0.106	7	191.0	1.04	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

Case 18	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B7_Main	Bottom Face	0.406	7	200.0	1.35	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B7_Main	Bottom Face	0.406	7	191.0	1.21	0.01	Not required
	2.4G_Ant 2		0.8	0				
	4G B7_Main	Bottom Face	0.406	7	200.0	1.50	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B7_Main	Bottom Face	0.406	7	191.0	1.34	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				
	4G B7_Main	Bottom Face	0.406	7	191.0	0.52	0.00	Not required
	BT_Ant 2		0.11	0				
	5G_Ant 1	Bottom Face	1.09	7	83.2	1.20	0.02	Not required
	BT_Ant 2		0.11	0				

Case 19	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR

	4G B12_Main	Bottom Face	0.055	7	200.0	1.00	0.00	Not required
	2.4G_Ant 1		0.94	0				
	4G B12_Main	Bottom Face	0.055	7	191.0	0.86	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B12_Main	Bottom Face	0.055	7	200.0	1.15	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B12_Main	Bottom Face	0.055	7	191.0	0.99	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 20	4G B13_Main	Bottom Face	0.077	7	200.0	1.02	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B13_Main	Bottom Face	0.077	7	191.0	0.88	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B13_Main	Bottom Face	0.077	7	200.0	1.17	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B13_Main	Bottom Face	0.077	7	191.0	1.01	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 21	4G B14_Main	Bottom Face	0.105	7	200.0	1.05	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B14_Main	Bottom Face	0.105	7	191.0	0.91	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B14_Main	Bottom Face	0.105	7	200.0	1.20	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B14_Main	Bottom Face	0.105	7	191.0	1.04	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 22	4G B25_Main	Bottom Face	0.099	7	200.0	1.04	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B25_Main	Bottom Face	0.099	7	191.0	0.90	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B25_Main	Bottom Face	0.099	7	200.0	1.19	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B25_Main	Bottom Face	0.099	7	191.0	1.03	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				

	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 23	4G B26_Main	Bottom Face	0.092	7	200.0	1.03	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B26_Main	Bottom Face	0.092	7	191.0	0.89	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B26_Main	Bottom Face	0.092	7	200.0	1.18	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B26_Main	Bottom Face	0.092	7	191.0	1.02	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 24	4G B30_Main	Bottom Face	0.389	7	200.0	1.33	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B30_Main	Bottom Face	0.389	7	191.0	1.19	0.01	Not required
	2.4G_Ant 2		0.8	0				
	4G B30_Main	Bottom Face	0.389	7	200.0	1.48	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B30_Main	Bottom Face	0.389	7	191.0	1.32	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 25	4G B41_Main	Bottom Face	0.166	7	200.0	1.11	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B41_Main	Bottom Face	0.166	7	191.0	0.97	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B41_Main	Bottom Face	0.166	7	200.0	1.26	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B41_Main	Bottom Face	0.166	7	191.0	1.10	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 26	4G B66_Main	Bottom Face	0.216	7	200.0	1.16	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B66_Main	Bottom Face	0.216	7	191.0	1.02	0.01	Not required
	2.4G_Ant 2		0.8	0				
	4G B66_Main	Bottom Face	0.216	7	200.0	1.31	0.01	Not required

	5G_Ant 1		1.09	0				
	4G B66_Main	Bottom Face	0.216	7	191.0	1.15	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

Case 27	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B2_Aux	Bottom Face	0.098	23	200.0	1.04	0.01	Not required
	2.4G_Ant 1		0.94	0				
	3G B2_Aux	Bottom Face	0.098	23	191.0	0.90	0.00	Not required
	2.4G_Ant 2		0.8	0				
	3G B2_Aux	Bottom Face	0.098	23	200.0	1.19	0.01	Not required
	5G_Ant 1		1.09	0				
	3G B2_Aux	Bottom Face	0.098	23	191.0	1.03	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

Case 28	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B4_Aux	Bottom Face	0.086	23	200.0	1.03	0.01	Not required
	2.4G_Ant 1		0.94	0				
	3G B4_Aux	Bottom Face	0.086	23	191.0	0.89	0.00	Not required
	2.4G_Ant 2		0.8	0				
	3G B4_Aux	Bottom Face	0.086	23	200.0	1.18	0.01	Not required
	5G_Ant 1		1.09	0				
	3G B4_Aux	Bottom Face	0.086	23	191.0	1.02	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

Case 29	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	3G B5_Aux	Bottom Face	0.051	23	200.0	0.99	0.00	Not required
	2.4G_Ant 1		0.94	0				
	3G B5_Aux	Bottom Face	0.051	23	191.0	0.85	0.00	Not required
	2.4G_Ant 2		0.8	0				
	3G B5_Aux	Bottom Face	0.051	23	200.0	1.14	0.01	Not required
	5G_Ant 1		1.09	0				
	3G B5_Aux	Bottom Face	0.051	23	191.0	0.98	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

Case 30	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR

	4G B2_Aux	Bottom Face	0.092	23	200.0	1.03	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B2_Aux	Bottom Face	0.092	23	191.0	0.89	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B2_Aux	Bottom Face	0.092	23	200.0	1.18	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B2_Aux	Bottom Face	0.092	23	191.0	1.02	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 31	4G B7_Aux	Bottom Face	0.032	23	200.0	0.97	0.00	Not required
	2.4G_Ant 1		0.94	0				
	4G B7_Aux	Bottom Face	0.032	23	191.0	0.83	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B7_Aux	Bottom Face	0.032	23	200.0	1.12	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B7_Aux	Bottom Face	0.032	23	191.0	0.96	0.00	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 32	4G B12_Aux	Bottom Face	0.007	23	200.0	0.95	0.00	Not required
	2.4G_Ant 1		0.94	0				
	4G B12_Aux	Bottom Face	0.007	23	191.0	0.81	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B12_Aux	Bottom Face	0.007	23	200.0	1.10	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B12_Aux	Bottom Face	0.007	23	191.0	0.94	0.00	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 33	4G B13_Aux	Bottom Face	0.012	23	200.0	0.95	0.00	Not required
	2.4G_Ant 1		0.94	0				
	4G B13_Aux	Bottom Face	0.012	23	191.0	0.81	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B13_Aux	Bottom Face	0.012	23	200.0	1.10	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B13_Aux	Bottom Face	0.012	23	191.0	0.94	0.00	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				

	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 34	4G B14_Aux	Bottom Face	0.014	23	200.0	0.95	0.00	Not required
	2.4G_Ant 1		0.94	0				
	4G B14_Aux	Bottom Face	0.014	23	191.0	0.81	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B14_Aux	Bottom Face	0.014	23	200.0	1.10	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B14_Aux	Bottom Face	0.014	23	191.0	0.94	0.00	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 35	4G B25_Aux	Bottom Face	0.071	23	200.0	1.01	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B25_Aux	Bottom Face	0.071	23	191.0	0.87	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B25_Aux	Bottom Face	0.071	23	200.0	1.16	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B25_Aux	Bottom Face	0.071	23	191.0	1.00	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 36	4G B26_Aux	Bottom Face	0.05	23	200.0	0.99	0.00	Not required
	2.4G_Ant 1		0.94	0				
	4G B26_Aux	Bottom Face	0.05	23	191.0	0.85	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B26_Aux	Bottom Face	0.05	23	200.0	1.14	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B26_Aux	Bottom Face	0.05	23	191.0	0.98	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 37	4G B30_Aux	Bottom Face	0.045	23	200.0	0.99	0.00	Not required
	2.4G_Ant 1		0.94	0				
	4G B30_Aux	Bottom Face	0.045	23	191.0	0.85	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B30_Aux	Bottom Face	0.045	23	200.0	1.14	0.01	Not required

	5G_Ant 1		1.09	0				
	4G B30_Aux	Bottom Face	0.045	23	191.0	0.98	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 38	4G B41_Aux	Bottom Face	0.009	23	200.0	0.95	0.00	Not required
	2.4G_Ant 1		0.94	0				
	4G B41_Aux	Bottom Face	0.009	23	191.0	0.81	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B41_Aux	Bottom Face	0.009	23	200.0	1.10	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B41_Aux	Bottom Face	0.009	23	191.0	0.94	0.00	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 39	4G B66_Aux	Bottom Face	0.134	23	200.0	1.07	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B66_Aux	Bottom Face	0.134	23	191.0	0.93	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B66_Aux	Bottom Face	0.134	23	200.0	1.22	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B66_Aux	Bottom Face	0.134	23	191.0	1.06	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 40	3G B2_Main	Bottom Face	0.396	0	200.0	1.34	0.01	Not required
	2.4G_Ant 1		0.94	0				
	3G B2_Main	Bottom Face	0.396	0	191.0	1.20	0.01	Not required
	2.4G_Ant 2		0.8	0				
	3G B2_Main	Bottom Face	0.396	0	200.0	1.49	0.01	Not required
	5G_Ant 1		1.09	0				
	3G B2_Main	Bottom Face	0.396	0	191.0	1.33	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				
	3G B2_Main	Bottom Face	0.396	0	191.0	0.51	0.00	Not required
	BT_Ant 2		0.11	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	1.20	0.02	Not required
	BT_Ant 2		0.11	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 41	3G B4_Main	Bottom Face	0.192	0	200.0	1.13	0.01	Not required
	2.4G_Ant 1		0.94	0				
	3G B4_Main	Bottom Face	0.192	0	191.0	0.99	0.01	Not required
	2.4G_Ant 2		0.8	0				
	3G B4_Main	Bottom Face	0.192	0	200.0	1.28	0.01	Not required
	5G_Ant 1		1.09	0				
	3G B4_Main	Bottom Face	0.192	0	191.0	1.12	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 42	3G B5_Aux	Bottom Face	1.13	0	155.0	2.07	0.02	Not required
	2.4G_Ant 1		0.94	0				
	3G B5_Aux	Bottom Face	1.13	0	221.0	1.93	0.01	Not required
	2.4G_Ant 2		0.8	0				
	3G B5_Aux	Bottom Face	1.13	0	155.0	2.22	0.02	Not required
	5G_Ant 1		1.09	0				
	3G B5_Aux	Bottom Face	1.13	0	221.0	2.06	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				
	3G B5_Aux	Bottom Face	1.13	0	221.0	1.24	0.01	Not required
	BT_Ant 2		0.11	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.05	0.01	Not required
	BT_Ant 2		0.11	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	1.20	0.02	Not required
	BT_Ant 2		0.11	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 43	4G B2_Main	Bottom Face	0.37	0	200.0	1.31	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B2_Main	Bottom Face	0.37	0	191.0	1.17	0.01	Not required
	2.4G_Ant 2		0.8	0				
	4G B2_Main	Bottom Face	0.37	0	200.0	1.46	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B2_Main	Bottom Face	0.37	0	191.0	1.30	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

Case 44	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B7_Main	Bottom Face	0.247	0	200.0	1.19	0.01	Not required

	2.4G_Ant 1		0.94	0				
	4G B7_Main	Bottom Face	0.247	0	191.0	1.05	0.01	Not required
	2.4G_Ant 2		0.8	0				
	4G B7_Main	Bottom Face	0.247	0	200.0	1.34	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B7_Main	Bottom Face	0.247	0	191.0	1.18	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

Case 45	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B12_Main	Bottom Face	0.435	0	200.0	1.38	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B12_Main	Bottom Face	0.435	0	191.0	1.24	0.01	Not required
	2.4G_Ant 2		0.8	0				
	4G B12_Main	Bottom Face	0.435	0	200.0	1.53	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B12_Main	Bottom Face	0.435	0	191.0	1.37	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				
	4G B12_Main	Bottom Face	0.435	0	191.0	0.55	0.00	Not required
	BT_Ant 2		0.11	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	1.20	0.02	Not required
	BT_Ant 2		0.11	0				

Case 46	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B13_Aux	Bottom Face	1.082	0	155.0	2.02	0.02	Not required
	2.4G_Ant 1		0.94	0				
	4G B13_Aux	Bottom Face	1.082	0	221.0	1.88	0.01	Not required
	2.4G_Ant 2		0.8	0				
	4G B13_Aux	Bottom Face	1.082	0	155.0	2.17	0.02	Not required
	5G_Ant 1		1.09	0				
	4G B13_Aux	Bottom Face	1.082	0	221.0	2.01	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				
	4G B13_Aux	Bottom Face	1.082	0	221.0	1.19	0.01	Not required
	BT_Ant 2		0.11	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.05	0.01	Not required
	BT_Ant 2		0.11	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	1.20	0.02	Not required
	BT_Ant 2		0.11	0				

Case 47	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B14_Aux	Bottom Face	1.133	0	155.0	2.07	0.02	Not required

	2.4G_Ant 1		0.94	0				
	4G B14_Aux	Bottom Face	1.133	0	221.0	1.93	0.01	Not required
	2.4G_Ant 2		0.8	0				
	4G B14_Aux	Bottom Face	1.133	0	155.0	2.22	0.02	Not required
	5G_Ant 1		1.09	0				
	4G B14_Aux	Bottom Face	1.133	0	221.0	2.06	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				
	4G B14_Aux	Bottom Face	1.133	0	221.0	1.24	0.01	Not required
	BT_Ant 2		0.11	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.05	0.01	Not required
	BT_Ant 2		0.11	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	1.20	0.02	Not required
	BT_Ant 2		0.11	0				

Case 48	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B25_Main	Bottom Face	0.332	0	200.0	1.27	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B25_Main	Bottom Face	0.332	0	191.0	1.13	0.01	Not required
	2.4G_Ant 2		0.8	0				
	4G B25_Main	Bottom Face	0.332	0	200.0	1.42	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B25_Main	Bottom Face	0.332	0	191.0	1.26	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

Case 49	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	4G B26_Aux	Bottom Face	1.153	0	155.0	2.09	0.02	Not required
	2.4G_Ant 1		0.94	0				
	4G B26_Aux	Bottom Face	1.153	0	221.0	1.95	0.01	Not required
	2.4G_Ant 2		0.8	0				
	4G B26_Aux	Bottom Face	1.153	0	155.0	2.24	0.02	Not required
	5G_Ant 1		1.09	0				
	4G B26_Aux	Bottom Face	1.153	0	221.0	2.08	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				
	4G B26_Aux	Bottom Face	1.153	0	221.0	1.26	0.01	Not required
	BT_Ant 2		0.11	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.05	0.01	Not required
	BT_Ant 2		0.11	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	1.20	0.02	Not required
	BT_Ant 2		0.11	0				

Case 50	Band	Position	SAR (W/kg)	Gap	Minimum	Summed SAR	SPLSR	Simultaneous

				(mm)	distance (mm)	(W/kg)	Results	SAR
	4G B30_Main	Bottom Face	0.147	0	200.0	1.09	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B30_Main	Bottom Face	0.147	0	191.0	0.95	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B30_Main	Bottom Face	0.147	0	200.0	1.24	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B30_Main	Bottom Face	0.147	0	191.0	1.08	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 51	4G B41_Main	Bottom Face	0.248	0	200.0	1.19	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B41_Main	Bottom Face	0.248	0	191.0	1.05	0.01	Not required
	2.4G_Ant 2		0.8	0				
	4G B41_Main	Bottom Face	0.248	0	200.0	1.34	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B41_Main	Bottom Face	0.248	0	191.0	1.18	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 52	4G B66_Main	Bottom Face	0.155	0	200.0	1.10	0.01	Not required
	2.4G_Ant 1		0.94	0				
	4G B66_Main	Bottom Face	0.155	0	191.0	0.96	0.00	Not required
	2.4G_Ant 2		0.8	0				
	4G B66_Main	Bottom Face	0.155	0	200.0	1.25	0.01	Not required
	5G_Ant 1		1.09	0				
	4G B66_Main	Bottom Face	0.155	0	191.0	1.09	0.01	Not required
	5G_Ant 2		0.93	0				
	2.4G_Ant 1	Bottom Face	0.94	0	83.2	1.74	0.03	Not required
	2.4G_Ant 2		0.8	0				
	5G_Ant 1	Bottom Face	1.09	0	83.2	2.02	0.03	Not required
	5G_Ant 2		0.93	0				

Test Engineer：Mood Huang Sing Lim Jacky Chen Ken Lin Ginger Chiang and Jerry Hsu

17. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be ≤ 30%, for a confidence interval of k = 2. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg. Therefore, the measurement uncertainty table is not required in this report.

18. References

[1] FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”

[2] ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992

[3] 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”, Sep 2013

[4] SPEAG DASY System Handbook

[5] FCC KDB 447498 D01 v06, “Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies”, Oct 2015

[6] FCC KDB 941225 D01 v03r01, “3G SAR MEAUREMENT PROCEDURES”, Oct 2015

[7] FCC KDB 941225 D05 v02r05, “SAR Evaluation Considerations for LTE Devices”, Dec 2015

[8] FCC KDB 941225 D05A v01r02, “Rel. 10 LTE SAR Test Guidance and KDB Inquiries”, Oct 2015

[9] FCC KDB 616217 D04 v01r02, “SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers”, Oct 2015

[10] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.

[11] FCC KDB 865664 D02 v01r02, “RF Exposure Compliance Reporting and Documentation Considerations” Oct 2015.