

FCC SAR TEST REPORT

FCC ID : B94TNC183PRN
Equipment : Convertible PC
Brand Name : HP
Model Name : TPN-C183
Applicant : HP Inc.
1501 Page Mill Road, Palo Alto CA 94304 USA
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Jul. 22, 2026 and testing was started from Jul. 22, 2026 and completed on Aug. 03, 2026. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

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



Approved by: Cona Huang / Deputy Manager



Sporton International Inc. Wensan Laboratory

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History of this test report

Report No.	Version	Description	Issued Date
FA660828B	01	Initial issue of report	Aug. 25, 2026

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for HP Inc., Convertible PC, TPN-C183, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary	Highest Body Simultaneous Transmission 1g SAR (W/kg)
		Body (Separation: 0 mm)	
		1g SAR (W/kg)	
Licensed	LTE Band 7	0.91	1.19
	LTE Band 12/17	0.98	
	LTE Band 13	0.66	
	LTE Band 14	0.89	
	LTE Band 2/25	1.14	
	LTE Band 5/26	0.87	
	LTE Band 30	0.71	
	LTE Band 4/66	0.89	
	LTE Band 71	0.90	
	LTE Band 106	0.25	
	LTE Band 38/41	1.19	
	LTE Band 42	1.14	
	LTE Band 43	0.78	
	LTE Band 48	0.92	
	FR1 n7	0.91	
	FR1 n12	0.96	
	FR1 n13	0.69	
	FR1 n14	0.89	
	FR1 n2/n25	1.15	
	FR1 n5/n26	0.86	
	FR1 n30	0.60	
	FR1 n66	0.83	
	FR1 n71	0.87	
	FR1 n38/n41	1.18	
	FR1 n48	1.19	
	FR1 n77/n78	0.83	
Date of Testing:		2026/07/25 ~ 2026/08/13	

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW3786 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 for Partial-Body 1g SAR) 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: Paula Chen

2. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- 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 D05 SAR for LTE Devices v02r05

3. Equipment Under Test (EUT) Information

3.1 General Information

Product Feature & Specification	
Equipment Name	Convertible PC
Brand Name	HP
Model Name	TPN-C183
FCC ID	B94TNC183PRN
Integrated WWAN Module	Brand Name: Rolling Wireless Model Name: RW135R-GL
Integrated WLAN Module1	Brand Name: MediaTek Model Name: MT7922A22M
Integrated WLAN Module2	Brand Name: MediaTek Model Name: MT7925B22M
Wireless Technology and Frequency Range	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3550 MHz ~ 3600 MHz LTE Band 43: 3600 MHz ~ 3800 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz LTE Band 106: 897.5 MHz ~ 900.5 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13 : 777 MHz ~ 787 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3550MHz WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 5.9 GHz Band: 5850 MHz ~ 5895 MHz WLAN 6GHz Band: 5925 MHz ~ 6425 MHz, 6425 MHz ~ 6525 MHz, 6525 MHz ~ 6875 MHz, 6875 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz
Mode	LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN: 802.11a/b/g/n/ac/ax/be HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160 Bluetooth BR/EDR/LE
Remark: - The MediaTek MT7922A22M WLAN/Bluetooth module is integrated into this host, WLAN/Bluetooth power and WLAN SAR testing data, which can be referred to Sporton SAR Test Report, Report No.: FA660806-03(FCC ID: B94-MT7922A22MM) and the result is used to do simultaneous transmission analysis. - The MediaTek MT7925B22M WLAN/Bluetooth module is integrated into this host, WLAN/Bluetooth power and WLAN SAR testing data, which can be referred to Sporton SAR Test Report, Report No.: FA660806-04(FCC ID: B94-MT7925B22MR) and the result is used to do simultaneous transmission analysis. - This device is convertible type notebook PC, and there have Laptop and Tablet two usage way, when end user is used different mode which the device will according current mode to limit different maximum power. This device has three antenna vendors. Vendor 1 was selected as the main test for the RF exposure evaluation. Vendors 2 and 3 were spot-checked, and the worst case was found in Vendor 1.	



FCC SAR TEST REPORT

Report No. : FA660828B

Communication System	Band	Frequency(MHz) from low to high spectrum		1A Part Number for Antenna Assembly	1B Antenna Manufacturer Name	1C Description of Antenna Type	1D Tx Antenna Gain (dBi) Ant5
LTE	2	1850	1910	Ant5 : DC330036E30 MDA-S6G1-02-008	Vendor 1	PIFA	0.1
LTE	4	1710	1755				-0.5
LTE	5	824	849				1.5
LTE	7	2500	2570				1.3
LTE	12	699	716				1.8
LTE	13	777	787				1.2
LTE	14	788	798				-0.1
LTE	17	704	716				-0.1
LTE	25	1850	1915				1.3
LTE	26	814	849				1.5
LTE	30	2305	2315				0.7
LTE	38	2570	2620				0.2
LTE	41	2496	2690				1.6
LTE	42	3400	3600				1.5
LTE	43	3600	3800				0.7
LTE	48	3550	3700				0.7
LTE	66	1710	1780				-0.5
LTE	71	663	698				1.5
LTE	106	896	901				0.49
5G NR FR1	2	1850	1910				0.45
5G NR FR1	5	824	849				1.0
5G NR FR1	7	2500	2570				1.3
5G NR FR1	12	699	716				1.8
5G NR FR1	13	777	787				1.2
5G NR FR1	14	788	798				-0.1
5G NR FR1	25	1850	1915				1.3
5G NR FR1	26	814	849				1.5
5G NR FR1	30	2305	2315				0.7
5G NR FR1	38	2570	2620				0.2
5G NR FR1	41	2496	2690				1.6
5G NR FR1	48	3550	3700				0.7
5G NR FR1	66	1710	1780				-0.5
5G NR FR1	71	663	698				1.5
5G NR FR1	77	3300	4200				0.7
5G NR FR1	77	3300	4200				0.7
5G NR FR1	78	3300	3800				0.7



Communication System	Band	Frequency(MHz) from low to high spectrum		1A Part Number for Antenna Assembly	1B Antenna Manufacturer Name	1C Description of Antenna Type	1D Tx Antenna Gain (dBi) Ant5
LTE	2	1850	1910	Ant5 : DC330036M30 (81ELBF15.GBB)	Vendor 2	PIFA	-0.96
LTE	4	1710	1755				0.6
LTE	5	824	849				-0.61
LTE	7	2500	2570				2.08
LTE	12	699	716				0.43
LTE	13	777	787				-0.61
LTE	14	788	798				-0.67
LTE	17	704	716				0.48
LTE	25	1850	1915				-0.96
LTE	26	814	849				-0.6
LTE	30	2305	2315				0.99
LTE	38	2570	2620				1.32
LTE	41	2496	2690				0.96
LTE	42	3400	3600				2.21
LTE	43	3600	3800				0.95
LTE	48	3550	3700				0.97
LTE	66	1710	1780				0.6
LTE	71	663	698				0.02
LTE	106	896	901				-2.23
5G NR FR1	2	1850	1910				-0.96
5G NR FR1	5	824	849				-0.6
5G NR FR1	7	2500	2570				2.08
5G NR FR1	12	699	716				0.48
5G NR FR1	13	777	787				-0.61
5G NR FR1	14	788	798				-0.67
5G NR FR1	25	1850	1915				-0.96
5G NR FR1	26	814	849				-0.6
5G NR FR1	30	2305	2315				0.99
5G NR FR1	38	2570	2620				1.32
5G NR FR1	41	2496	2690				2.08
5G NR FR1	48	3550	3700				0.97
5G NR FR1	66	1710	1780				0.6
5G NR FR1	71	663	698				0.02
5G NR FR1	77	3300	4200				2.27
5G NR FR1	78	3300	3800				2.27



Communication System	Band	Frequency(MHz) from low to high spectrum		1A Part Number for Antenna Assembly	1B Antenna Manufacturer Name	1C Description of Antenna Type	1D Tx Antenna Gain (dBi) Ant5
LTE	2	1850	1910	Ant5 : DC330036K30 (330-24075)	Vendor 3	PIFA	0.54
LTE	4	1710	1755				-1.25
LTE	5	824	849				-1.27
LTE	7	2500	2570				-1.09
LTE	12	699	716				-2.76
LTE	13	777	787				-0.71
LTE	14	788	798				-0.90
LTE	17	704	716				-2.76
LTE	25	1850	1915				0.68
LTE	26	814	849				-0.90
LTE	30	2305	2315				-0.81
LTE	38	2570	2620				-1.35
LTE	41	2496	2690				-1.09
LTE	42	3400	3600				-0.28
LTE	43	3600	3800				0.12
LTE	48	3550	3700				-0.01
LTE	66	1710	1780				-1.25
LTE	71	663	698				-2.92
LTE	106	896	901				-2.34
5G NR FR1	2	1850	1910				0.54
5G NR FR1	5	824	849				-1.27
5G NR FR1	7	2500	2570				-1.09
5G NR FR1	12	699	716				-2.76
5G NR FR1	13	777	787				-0.71
5G NR FR1	14	788	798				-0.90
5G NR FR1	25	1850	1915				0.68
5G NR FR1	26	814	849				-0.90
5G NR FR1	30	2305	2315				-0.81
5G NR FR1	38	2570	2620				-1.35
5G NR FR1	41	2496	2690				-1.09
5G NR FR1	48	3550	3700				-0.01
5G NR FR1	66	1710	1780				-1.25
5G NR FR1	71	663	698				-2.92
5G NR FR1	77	3300	4200				1.50
5G NR FR1	78	3300	3800				0.12

Antenna Information									
Vendor 1	Ant. Type	PIFA			Vendor 1	Ant. Type	PIFA		
	Model No.	Main/Tx2 DC330036E20 (WA-P-LELE-02-040)				Model No.	Aux/Tx1 DC330036E20 (WA-P-LELE-02-040)		
	Peak Gain (dBi)					Peak Gain (dBi)			
	2400~2483.5MHz	0.87	5725~5850MHz	0.58		2400~2483.5MHz	2.52	5725~5850MHz	0.12
	5150~5250MHz	0.2	5850~5895MHz	0.58		5150~5250MHz	0.57	5850~5895MHz	0.13
	5250~5350MHz	0.48	5925~7125MHz	0.98		5250~5350MHz	0.57	5925~7125MHz	1.35
	5470~5725MHz	0.8				5470~5725MHz	0.39		
Vendor 2	Ant. Type	PIFA			Vendor 2	Ant. Type	PIFA		
	Model No.	Main/Tx2 DC330036M20 (81ELBF15.GBA)				Model No.	Aux/Tx1 DC330036M20 (81ELBF15.GBA)		
	Peak Gain (dBi)					Peak Gain (dBi)			
	2400~2483.5MHz	-0.23	5725~5850MHz	-0.27		2400~2483.5MHz	1.6	5725~5850MHz	0.55
	5150~5250MHz	0.53	5850~5895MHz	0.13		5150~5250MHz	1.35	5850~5895MHz	0.55
	5250~5350MHz	0.53	5925~7125MHz	0.96		5250~5350MHz	0.95	5925~7125MHz	0.65
	5470~5725MHz	0.03				5470~5725MHz	0.2		
Vendor 3	Ant. Type	PIFA			Vendor 3	Ant. Type	PIFA		
	Model No.	Main/Tx2 DC330036K20 (260-24494)				Model No.	Aux/Tx1 DC330036K20 (260-24494)		
	Peak Gain (dBi)					Peak Gain (dBi)			
	2400~2483.5MHz	2.76	5725~5850MHz	0.15		2400~2483.5MHz	1.5	5725~5850MHz	-1.36
	5150~5250MHz	0.35	5850~5895MHz	0.42		5150~5250MHz	2.03	5850~5895MHz	-1.73
	5250~5350MHz	-0.13	5925~7125MHz	0.88		5250~5350MHz	2.03	5925~7125MHz	1.04
	5470~5725MHz	0.13				5470~5725MHz	1.08		

3.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																													
FCC ID	B94TNC183PRN																																																																												
Equipment Name	Convertible PC																																																																												
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3400 MHz ~ 3600 MHz LTE Band 43: 3600 MHz ~ 3800 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz LTE Band 106: 897.5 MHz ~ 900.5 MHz																																																																												
Channel Bandwidth	LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 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: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 42: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 43: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 106: 1.4MHz, 3MHz																																																																												
uplink modulations used	QPSK / 16QAM / 64QAM / 256QAM																																																																												
LTE Voice / Data requirements	Data only																																																																												
LTE MPR permanently built-in by design	<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>							Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3								Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3																																																																													
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	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																																																																						
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.																																																																												



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Transmission (H, M, L) channel numbers and frequencies in each LTE band

LTE Band 2												
	Bandwidth 1.4MHz		Bandwidth 3MHz		Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	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 1.4MHz		Bandwidth 3MHz		Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	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 1.4MHz		Bandwidth 3MHz		Bandwidth 5MHz		Bandwidth 10MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (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	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844				
LTE Band 7												
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (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	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560				
LTE Band 12												
	Bandwidth 1.4MHz		Bandwidth 3MHz		Bandwidth 5MHz		Bandwidth 10MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (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	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23115	713.5	23130	711				
LTE Band 13												
	Bandwidth 5MHz				Bandwidth 10MHz							
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)					
L	23205		779.5									
M	23230		782		23230		782					
H	23255		784.5									
LTE Band 14												
	Bandwidth 5MHz				Bandwidth 10MHz							
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)					
L	23305		790.5									
M	23330		793		23330		793					
H	23355		795.5									
LTE Band 17												
	Bandwidth 5MHz				Bandwidth 10MHz							
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)					
L	23755		706.5		23780		709					
M	23790		710		23790		710					
H	23825		713.5		23800		711					
LTE Band 25												
	Bandwidth 1.4MHz		Bandwidth 3MHz		Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	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 1.4MHz		Bandwidth 3MHz		Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz			
	Ch. #	Freq. (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	26865	831.5
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5		



LTE Band 30												
	Bandwidth 5MHz					Bandwidth 10MHz						
	Ch. #		Freq. (MHz)			Ch. #		Freq. (MHz)				
L	27685		2307.5			-						
M	27710		2310			27710		2310				
H	27735		2312.5			-						
LTE Band 66												
	Bandwidth 1.4MHz		Bandwidth 3MHz		Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	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
LTE Band 71												
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133147	665.5	133172	668	133197	670.5	133222	673				
M	133297	680.5	133297	680.5	133297	680.5	133297	680.5				
H	133447	695.5	133422	693	133397	690.5	133372	688				
LTE Band 106												
	Bandwidth 1.4MHz				Bandwidth 3MHz							
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)					
L	134314		898.2				-					
M	134322		899		134322		899					
H	134330		899.8		-							
LTE Band 38												
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (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 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506				
LM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5				
M	40620	2593	40620	2593	40620	2593	40620	2593				
HM	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680				
LTE Band 42 (96)												
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	43115	3552.5	43140	3555	43165	3557.5	43190	3560				
M	43340	3575	43340	3575	43340	3575	43340	3575				
H	43565	3597.5	43540	3595	43515	3592.5	43490	3590				
LTE Band 43 (96)												
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	43615	3602.5	43640	3605	43665	3607.5	43690	3610				
M	44090	3650	44090	3650	44090	3650	44090	3650				
H	44565	3697.5	44540	3695	44515	3692.5	44490	3690				
LTE Band 48												
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560				
LM	55810	3607	55815	3607.5	55820	3608	55830	3609				
HM	56170	3643	56165	3642.5	56160	3642	56150	3641				
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690				



3.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
FCC ID	B94TNC183PRN
Equipment Name	Convertible PC
Operating Frequency Range of each 5G NR transmission band	5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13 : 777 MHz ~ 787 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3550MHz
Channel Bandwidth	5G NR n2: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n7: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n12: 5MHz, 10MHz, 15MHz 5G NR n13: 5MHz, 10MHz 5G NR n14: 5MHz, 10MHz 5G NR n25: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n26: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n30: 5MHz, 10MHz 5G NR n38: 10MHz, 15MHz, 20MHz 5G NR n41: 10MHz, 15MHz, 20MHz 5G NR n48: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n66: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n71: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n77/n78: 10MHz, 15MHz, 20MHz
SCS	FDD: SCS15KHz, TDD: SCS30KHz
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM QPSK / 16QAM / 64QAM / 256QAM
A-MPR (Additional MPR) disabled for SAR Testing?	Yes



Transmission (H, M, L) channel numbers and frequencies in each FR1 band

FR1 n2								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860
M	376000	1880	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900
FR1 n5								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	165300	826.5	165800	829	166300	831.5	166800	834
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5
H	169300	846.5	168800	844	168300	841.5	167800	839
FR1 n7								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510
M	507000	2535	507000	2535	507000	2535	507000	2535
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560
FR1 n12								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	140300	701.5	140800	704	141300	706.5	141800	709
M	141500	707.5	141500	707.5	141500	707.5	141500	707.5
H	142700	713.5	142200	711	141700	708.5	141200	705.5
FR1 n13								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	155900	779.5	156400	782	156900	785	157400	788
M	156400	782	156400	782	156400	782	156400	782
H	156900	784.5	156400	782	155900	779.5	155400	776.5
FR1 n14								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	158100	790.5	158600	793	159100	795.5	159600	798.5
M	158600	793	158600	793	158600	793	158600	793
H	159100	795.5	158600	793	158100	790.5	157600	787.5
FR1 n25								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860
M	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5
H	382500	1912.5	382000	1910	381500	1907.5	381000	1905
FR1 n26								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	163300	816.5	163800	819	164300	821.5	164800	824
M	166300	831.5	166300	831.5	166300	831.5	166300	831.5
H	169300	846.5	168800	844	168300	841.5	167800	839
FR1 n30								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	461500	2307.5	462000	2310	462500	2312.5	463000	2315
M	462000	2310	462000	2310	462000	2310	462000	2310
H	462500	2312.5	462000	2310	461500	2307.5	461000	2304.5
FR1 n66								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720
M	349000	1745	349000	1745	349000	1745	349000	1745
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770



FR1 n71								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133100	665.5	133600	668	134100	670.5	134600	673
M	136100	680.5	136100	680.5	136100	680.5	136100	680.5
H	139100	695.5	138600	693	138100	690.5	137600	688
FR1 n38								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	515000	2575	515500	2577.5	516000	2580		
M	519000	2595	519000	2595	519000	2595		
H	523000	2615	522500	2612.5	522000	2610		
FR1 n41								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500202	2501.01	500700	2503.5	501204	2506.02		
M	518598	2592.99	518598	2592.99	518598	2592.99		
H	537000	2685	536496	2682.48	535998	2679.99		
FR1 n48								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	636834	3552.51	637000	3555	637168	3557.52	637334	3560.01
M	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99
H	646500	3697.5	646332	3694.98	646166	3692.49	646000	3690
FR1 n77 (27Q)								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	630668	3460.02		
M	633332	3499.98	633332	3499.98	633332	3499.98		
H	636332	3544.98	636166	3542.49	636000	3540		
FR1 n77 (27O)								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	647334	3710.01		
M	656000	3840	656000	3840	656000	3840		
H	665000	3975	664832	3972.48	664666	3969.99		
FR1 n78 (27Q)								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	630668	3460.02		
M	633332	3499.98	633332	3499.98	633332	3499.98		
H	636332	3544.98	636166	3542.49	636000	3540		
FR1 n78 (27O)								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	647334	3710.01		
M	650000	3750	650000	3750	650000	3750		
H	653000	3795	652832	3792.48	652666	3789.99		

4. Smart Transmit feature for RF Exposure compliance

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit, for each characterized technology and band (refer to RF exposure part0 report).

Smart Transmit allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Plimit EFS settings and maximum tune up output power Pmax configured for this EUT for various transmit conditions (Device State Index DSI).

<Plimit for supported technologies and bands (Plimit in EFS file)>

Technology	Band	Antenna	Notebook Mode Plimit (dBm)	Tablet Mode Plimit (dBm)	Pmax (dBm)
LTE	2	ANT5	22.0	18.0	22.0
	4	ANT5	22.0	17.5	22.0
	5	ANT5	23.0	19.0	23.0
	7	ANT5	22.0	15.0	22.0
	12	ANT5	23.0	20.5	23.0
	13	ANT5	23.0	18.5	23.0
	14	ANT5	23.0	19.5	23.0
	17	ANT5	23.0	20.5	23.0
	25	ANT5	22.0	18.0	22.0
	26	ANT5	23.0	19.0	23.0
	30	ANT5	21.0	17.0	21.0
	38	ANT5	20.0	16.5	20.0
	41	ANT5	20.0	16.5	20.0
	42	ANT5	20.0	14.0	20.0
	43	ANT5	20.0	13.0	20.0
	48	ANT5	18.0	14.0	18.0
	66	ANT5	22.0	17.5	22.0
	71	ANT5	23.0	21.0	23.0
	106	ANT5	23.0	19.0	23.0
5G NR	2	ANT5	22.0	18.5	22.0
	5	ANT5	23.0	19.0	23.0
	7	ANT5	22.0	15.0	22.0
	12	ANT5	23.0	20.5	23.0
	13	ANT5	23.0	18.5	23.0
	14	ANT5	23.0	19.5	23.0
	25	ANT5	22.0	18.5	22.0
	26	ANT5	23.0	19.0	23.0
	30	ANT5	21.0	17.0	21.0
	38	ANT5	22.0	17.5	22.0
	41	ANT5	22.0	17.5	22.0
	41 (HPUE)	ANT5	25.0	17.5	25.0
	48	ANT5	20.0	15.5	20.0
	66	ANT5	22.0	17.5	22.0
	71	ANT5	23.0	21.0	23.0
	77	ANT5	22.0	14.0	22.0
	77 (HPUE)	ANT5	25.0	14.0	25.0
	78	ANT5	22.0	14.0	22.0
	78 (HPUE)	ANT5	25.0	14.0	25.0

Pmax is used for the RF tune-up procedure. The maximum allowed output power is equal to Pmax + device uncertainty.

All Plimit power levels entered in the table correspond to average power levels after accounting for the duty cycle in the case of TDD modulation schemes (e.g., GSM TDD, LTE TDD, and NR TDD).

The maximum allowed output power is Plimit + device uncertainty. However, if Plimit is higher than Pmax, the device output power will be limited to Pmax.

5. Sensor Triggering angle and power verification

General Note:

- The following guidance should be applied to laptops/tablets that use Hall Effect or gravity sensors to detect lid angle for the purpose of power reduction:

Step 1: With the lid is in closed mode (0 degrees), open the screen in 10 degree steps until laptop mode is obtained
 Step 2: Lower the screen 5 degrees. Closed mode should be reobtained. If not keep lowering in 5 degree steps
 Step 3: Open the screen in 1 degree steps until laptop mode is reobtained
 Step 4: Continue opening the screen in 1 degree steps until at least 5 degrees past where laptop mode was obtained
 Step 5: Then continue opening the screen in 10 degree steps until tablet mode is obtained
 Step 6: Power measurements should be taken at each step
 Step 7: Reverse this procedure going from tablet mode back down to closed mode

when the screen angle is from 0 degree to 360 degree				
Screen angle (degree) v.s. power	Band		LTE B7 Ant 5	FR1 n77 Ant 5
	Lid Close	0	standby	standby
		1	standby	standby
		2	standby	standby
		3	standby	standby
		4	standby	standby
		5	standby	standby
		10	standby	standby
		20	standby	standby
		30	standby	standby
	Laptop	35	22.19	21.61
		40	21.61	22.03
		50	21.73	21.96
		60	22.21	21.53
		70	21.91	22.38
		80	21.82	22.46
		90	22.09	21.95
		100	21.59	22.23
		110	21.96	21.95
		120	22.29	22.47
		125	22.35	22.32
		126	22.34	22.31
	Tablet	127	21.53	21.80
		128	21.87	22.18
		129	22.36	22.09
		130	14.80	14.09
		131	15.29	14.12
		132	14.60	14.14
		133	14.80	14.03
		134	15.45	13.69
		135	14.54	13.92
		140	15.31	14.21
		150	14.66	13.67
		160	14.74	13.61
		170	14.53	13.51
		180	15.41	14.08
		190	14.56	14.40
		200	15.26	13.81
		210	14.94	14.44
		220	15.44	14.06
		230	15.11	14.44
		240	15.21	13.54
		250	14.76	14.38
		260	14.69	14.16
		270	14.52	14.50
		280	15.30	14.26
		290	14.63	13.64
		300	15.50	14.28
		310	15.11	14.33
		320	14.79	13.74
		330	14.61	14.00
		340	15.11	13.94
		350	15.33	14.18
		360	15.11	14.06



when the screen angle is from 360 degree to 0 degree				
Screen angle (degree) v.s. power	Wireless		LTE B7 Ant 5	FR1 n77 Ant 5
	Tablet	360	14.52	13.87
		350	14.91	13.94
		340	15.04	14.30
		330	15.21	13.95
		320	15.19	14.20
		310	14.67	14.22
		300	14.65	13.87
		290	14.85	14.00
		280	15.01	13.97
		270	15.38	13.55
		260	14.56	14.36
		250	15.17	14.18
		240	14.75	13.76
		230	15.37	13.65
		220	15.50	13.51
		210	15.33	13.78
		205	14.66	14.00
		204	15.43	13.98
		203	15.21	13.61
		202	14.88	14.45
	Laptop	201	14.91	14.10
		200	21.99	21.73
		199	22.46	22.15
		198	22.34	21.77
		197	22.02	21.89
		196	21.67	21.74
		195	21.52	21.67
		190	22.10	22.03
		180	21.80	22.24
		170	21.91	21.80
		160	21.97	22.22
		150	22.43	21.84
		140	21.82	21.96
		130	22.48	21.81
		120	21.50	21.74
		110	21.61	22.10
		100	21.67	22.31
		90	22.03	22.12
		80	22.47	21.55
		70	22.21	21.60
	Lid Close	60	21.81	21.74
		50	22.40	22.35
		40	21.75	22.02
		35	21.50	22.10
		30	standby	standby
		20	standby	standby
		10	standby	standby
		5	standby	standby
		4	standby	standby
		3	standby	standby
		2	standby	standby
		1	standby	standby
		0	standby	standby

6. RF Exposure Limits

6.1 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.

6.2 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.

6.3 RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

7. Specific Absorption Rate (SAR)

7.1 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.

7.2 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:

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

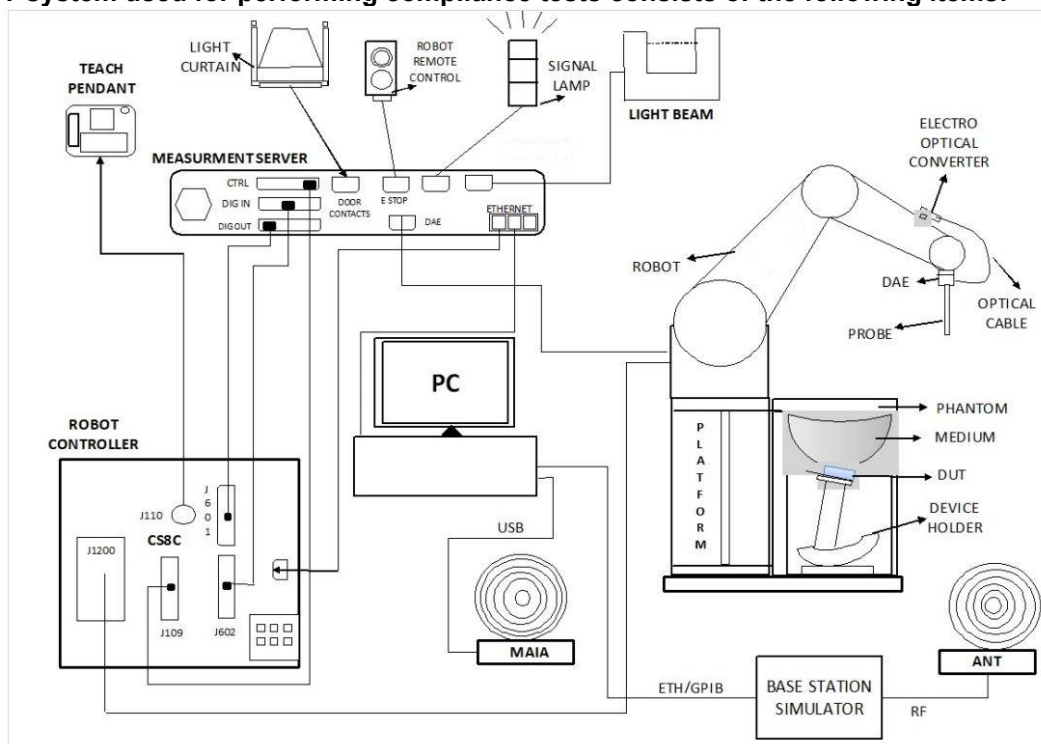
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

8. System Description and Setup

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



- The DASY system in SAR Configuration is shown above
- 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 windows software and the DASY 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.

8.1 Test Site Location

The SAR measurement facilities used to collect data are within both Sporton Lab list below test site location are accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190 and 3786) and the FCC designation No. TW1190 and TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

Laboratory	EMC & Wireless Communications Laboratory		Wensan Laboratory					
Test Site Location	TW1190		TW3786					
	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan		No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan					
Test Site No.	SAR01-HY	SAR03-HY	SAR08-HY	SAR09-HY	SAR15-HY	SAR18-HY	SAR21-HY	
	SAR04-HY	SAR05-HY	SAR11-HY	SAR12-HY	SAR16-HY	SAR19-HY	SAR22-HY	
	SAR06-HY	SAR10-HY	SAR13-HY	SAR14-HY	SAR17-HY	SAR20-HY		

8.2 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	4 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 μ W/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	4 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 μ W/g – > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/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	

8.3 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.

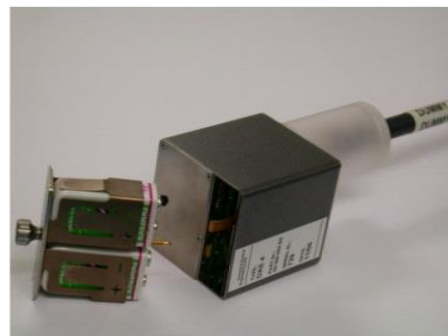


Fig 5.1 Photo of DAE

8.4 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.

8.5 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

9. Measurement Procedures

The measurement procedures are as follows:

- (a) Configure the device RF transmitters to be in continuous transmission mode., 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

9.1 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 from 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

9.2 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.

9.3 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	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
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 $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

9.4 Zoom Scan

Zoom scans are used to 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 whose 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: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 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: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
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 <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> 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.				

9.5 Volume Scan Procedures

The volume scan is used to 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.

9.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASYS 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.

10. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	750MHz System Validation Kit ⁽²⁾	D750V3	1117	Mar. 12, 2025	Mar. 10, 2027
SPEAG	835MHz System Validation Kit	D835V2	4d167	Apr. 23, 2026	Apr. 22, 2027
SPEAG	900MHz System Validation Kit ⁽²⁾	D900V2	1d165	Jun. 11, 2025	Jun. 09, 2027
SPEAG	1750MHz System Validation Kit ⁽²⁾	D1750V2	1112	Feb. 20, 2025	Feb. 18, 2027
SPEAG	1900MHz System Validation Kit ⁽²⁾	D1900V2	5d185	Jun. 11, 2025	Jun. 09, 2027
SPEAG	2300MHz System Validation Kit ⁽²⁾	D2300V2	1006	Jan. 14, 2025	Jan. 12, 2027
SPEAG	2600MHz System Validation Kit ⁽²⁾	D2600V2	1078	Jun. 11, 2025	Jun. 09, 2027
SPEAG	3500MHz System Validation Kit ⁽²⁾	D3500V2	1014	Jan. 15, 2025	Jan. 13, 2027
SPEAG	3700MHz System Validation Kit ⁽²⁾	D3700V2	1006	Jun. 12, 2025	Jun. 10, 2027
SPEAG	3900MHz System Validation Kit	D3900V2	1092	May. 11, 2026	May. 10, 2027
SPEAG	Data Acquisition Electronics	DAE3	577	Mar. 13, 2026	Mar. 12, 2027
SPEAG	Data Acquisition Electronics	DAE4	1696	Jun. 02, 2026	Jun. 01, 2027
SPEAG	Dosimetric E-Field Probe	EX3DV4	7625	Dec. 09, 2025	Dec. 08, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7700	Jan. 26, 2026	Jan. 25, 2027
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 16, 2025	Sep. 15, 2026
Testo	Hygro meter	608-H1	45196600	Nov. 04, 2025	Nov. 03, 2026
Testo	Hygro meter	608-H1	45207528	Nov. 04, 2025	Nov. 03, 2026
Anritsu	Radio Communication Analyzer	MT8821C	6201074414	Aug. 19, 2025	Aug. 18, 2026
Keysight	5G Wireless Test Platform	E7515B	MY58300712	Sep. 09, 2025	Sep. 08, 2026
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Sep. 24, 2025	Sep. 23, 2026
Keysight	ENA Network Analyzer	E5071C	MY46104758	Oct. 14, 2025	Oct. 13, 2026
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3690	Aug. 14, 2025	Aug. 13, 2026
Anritsu	Power Meter	ML2495A	1804003	Aug. 18, 2025	Aug. 17, 2026
Anritsu	Power Sensor	MA2411B	1726150	Aug. 18, 2025	Aug. 17, 2026
Anritsu	Spectrum Analyzer	MS2830A	6272625959	Aug. 14, 2025	Aug. 13, 2026
Mini-Circuits	Power Amplifier	ZHL-42W+	N147802518	Jul. 30, 2025	Jul. 29, 2026
Mini-Circuits	Power Amplifier	ZHL-42W+	QA1344002	Oct. 17, 2025	Oct. 16, 2026
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Warison	Directional Coupler	WCOU-10-50S-10	WR889BMC4B1	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. The dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.

11. System Verification

11.1 Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18°C to 25°C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements.

The liquid tissue depth was at least 15cm in the phantom for all SAR testing

The SPEAG Dasy Measurement system implement a SAR error compensation algorithm as documented in IEEE Std 1528-2013 to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, according to KDB 865664 D01 and IEC/IEEE 62209-1528, the tolerance for "Delta (σ)" and "Delta (ϵ_r)" can be relaxed to $\pm 10\%$

< Tissue Dielectric Parameter Check Results >

Frequency (MHz)	Liquid Temp (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
750	22.9	0.875	44.2	0.89	41.9	-1.69	5.49	± 10.0	2026-07-29
750	22.2	0.904	44.6	0.89	41.9	1.57	6.44	± 10.0	2026-08-02
750	22.3	0.906	44.6	0.89	41.9	1.80	6.44	± 10.0	2026-08-03
750	22.5	0.869	45.3	0.89	41.9	-2.36	8.11	± 10.0	2026-08-05
835	22.9	0.912	43.9	0.90	41.5	1.33	5.78	± 10.0	2026-07-29
835	22.4	0.876	43.7	0.90	41.5	-2.67	5.30	± 10.0	2026-08-04
835	22.5	0.903	45.2	0.90	41.5	0.33	8.92	± 10.0	2026-08-05
900	22.9	0.939	43.7	0.97	41.5	-3.20	5.30	± 10.0	2026-07-29
900	22.5	0.929	45	0.97	41.5	-4.23	8.43	± 10.0	2026-08-05
1750	22.4	1.36	41.5	1.37	40.1	-0.73	3.49	± 10.0	2026-07-29
1750	22	1.37	40.9	1.37	40.1	0.00	2.00	± 10.0	2026-07-30
1900	22.6	1.38	39.4	1.40	40.0	-1.43	-1.50	± 10.0	2026-07-28
1900	22	1.46	40.7	1.40	40.0	4.29	1.75	± 10.0	2026-07-30
2300	22.1	1.72	42.7	1.67	39.5	2.99	8.10	± 10.0	2026-07-31
2300	22.8	1.69	43.1	1.67	39.5	1.20	9.11	± 10.0	2026-08-08
2600	22.1	1.96	42.3	1.96	39.0	0.00	8.46	± 10.0	2026-07-31
2600	22.6	1.91	42.4	1.96	39.0	-2.55	8.72	± 10.0	2026-08-06
2600	22.7	1.97	42.1	1.96	39.0	0.51	7.95	± 10.0	2026-08-07
2600	22.8	1.91	42.8	1.96	39.0	-2.55	9.74	± 10.0	2026-08-08
3500	22.5	2.68	39.4	2.91	37.9	-7.90	3.96	± 10.0	2026-07-25
3500	22.1	2.78	37.9	2.91	37.9	-4.47	0.00	± 10.0	2026-08-01
3500	22.9	2.69	39.9	2.91	37.9	-7.56	5.28	± 10.0	2026-08-09
3500	22.5	2.78	37.9	2.91	37.9	-4.47	0.00	± 10.0	2026-08-10
3500	22.1	2.69	39	2.91	37.9	-7.56	2.90	± 10.0	2026-08-11
3500	22.2	2.68	39.3	2.91	37.9	-7.90	3.69	± 10.0	2026-08-12
3500	22.3	2.7	38	2.91	37.9	-7.22	0.26	± 10.0	2026-08-13
3700	22.5	2.86	39.1	3.12	37.7	-8.33	3.71	± 10.0	2026-07-25
3700	22.1	2.96	37.6	3.12	37.7	-5.13	-0.27	± 10.0	2026-08-01
3700	22.9	2.87	39.6	3.12	37.7	-8.01	5.04	± 10.0	2026-08-09
3700	22.5	2.96	37.6	3.12	37.7	-5.13	-0.27	± 10.0	2026-08-10
3700	22.1	2.86	38.6	3.12	37.7	-8.33	2.39	± 10.0	2026-08-11
3700	22.2	2.85	39	3.12	37.7	-8.65	3.45	± 10.0	2026-08-12
3700	22.3	2.87	37.7	3.12	37.7	-8.01	0.00	± 10.0	2026-08-13
3900	22.5	3.05	38.8	3.33	37.5	-8.41	3.47	± 10.0	2026-07-25
3900	22.1	3.13	37.3	3.33	37.5	-6.01	-0.53	± 10.0	2026-08-01
3900	22.9	3.07	39.4	3.33	37.5	-7.81	5.07	± 10.0	2026-08-09
3900	22.5	3.13	37.3	3.33	37.5	-6.01	-0.53	± 10.0	2026-08-10
3900	22.1	3.04	38.3	3.33	37.5	-8.71	2.13	± 10.0	2026-08-11
3900	22.2	3.04	38.8	3.33	37.5	-8.71	3.47	± 10.0	2026-08-12
3900	22.3	3.06	37.4	3.33	37.5	-8.11	-0.27	± 10.0	2026-08-13

11.2 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.

Test Site	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 (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
SAR10	2026-07-29	750	50.1187	D750V3 - SN1117	EX3DV4 - SN7700	DAE3 Sn577	0.427	8.6	8.5198	-0.93	0.287	5.57	5.7264	2.81
SAR10	2026-08-02	750	50.1187	D750V3 - SN1117	EX3DV4 - SN7700	DAE3 Sn577	0.431	8.6	8.5996	-0.00	0.289	5.57	5.7663	3.52
SAR10	2026-08-03	750	50.1187	D750V3 - SN1117	EX3DV4 - SN7700	DAE3 Sn577	0.431	8.6	8.5996	-0.00	0.29	5.57	5.7863	3.88
SAR10	2026-08-05	750	50.1187	D750V3 - SN1117	EX3DV4 - SN7700	DAE3 Sn577	0.429	8.6	8.5597	-0.47	0.286	5.57	5.7065	2.45
SAR10	2026-07-29	835	50.1187	D835V2 - SN4d167	EX3DV4 - SN7700	DAE3 Sn577	0.471	9.55	9.3977	-1.59	0.313	6.25	6.2452	-0.08
SAR10	2026-08-04	835	50.1187	D835V2 - SN4d167	EX3DV4 - SN7700	DAE3 Sn577	0.47	9.55	9.3777	-1.80	0.31	6.25	6.1853	-1.04
SAR10	2026-08-05	835	50.1187	D835V2 - SN4d167	EX3DV4 - SN7700	DAE3 Sn577	0.478	9.55	9.5374	-0.13	0.316	6.25	6.305	0.88
SAR10	2026-07-29	900	50.1187	D900V2 - SN1d165	EX3DV4 - SN7700	DAE3 Sn577	0.516	11	10.2956	-6.40	0.341	7.13	6.8038	-4.58
SAR10	2026-08-05	900	50.1187	D900V2 - SN1d165	EX3DV4 - SN7700	DAE3 Sn577	0.536	11	10.6946	-2.78	0.35	7.13	6.9834	-2.06
SAR14	2026-07-29	1750	50.1187	D1750V2 - SN1112	EX3DV4 - SN7625	DAE4 Sn1696	1.85	36.3	36.9124	1.69	1.01	19.3	20.1522	4.42
SAR10	2026-07-30	1750	50.1187	D1750V2 - SN1112	EX3DV4 - SN7700	DAE3 Sn577	1.81	36.3	36.1143	-0.51	0.97	19.3	19.3541	0.28
SAR14	2026-07-28	1900	50.1187	D1900V2 - SN5d185	EX3DV4 - SN7625	DAE4 Sn1696	1.93	39.6	38.5086	-2.76	1.03	20.8	20.5512	-1.20
SAR10	2026-07-30	1900	50.1187	D1900V2 - SN5d185	EX3DV4 - SN7700	DAE3 Sn577	1.9	39.6	37.91	-4.27	0.995	20.8	19.8529	-4.55
SAR10	2026-07-31	2300	50.1187	D2300V2 - SN1006	EX3DV4 - SN7700	DAE3 Sn577	2.29	48.2	45.6915	-5.20	1.1	23.2	21.9479	-5.40
SAR10	2026-08-08	2300	50.1187	D2300V2 - SN1006	EX3DV4 - SN7700	DAE3 Sn577	2.26	48.2	45.0929	-6.45	1.08	23.2	21.5488	-7.12
SAR10	2026-07-31	2600	50.1187	D2600V2 - SN1078	EX3DV4 - SN7700	DAE3 Sn577	2.64	55.3	52.6749	-4.75	1.18	24.9	23.5441	-5.45
SAR10	2026-08-06	2600	50.1187	D2600V2 - SN1078	EX3DV4 - SN7700	DAE3 Sn577	2.59	55.3	51.6773	-6.55	1.14	24.9	22.746	-8.65
SAR10	2026-08-07	2600	50.1187	D2600V2 - SN1078	EX3DV4 - SN7700	DAE3 Sn577	2.63	55.3	52.4754	-5.11	1.17	24.9	23.3446	-6.25
SAR10	2026-08-08	2600	50.1187	D2600V2 - SN1078	EX3DV4 - SN7700	DAE3 Sn577	2.59	55.3	51.6773	-6.55	1.14	24.9	22.746	-8.65
SAR10	2026-07-25	3500	50.1187	D3500V2 - SN1014	EX3DV4 - SN7700	DAE3 Sn577	3.27	65.7	65.2451	-0.69	1.23	24.9	24.5417	-1.44
SAR10	2026-08-01	3500	50.1187	D3500V2 - SN1014	EX3DV4 - SN7700	DAE3 Sn577	3.32	65.7	66.2427	0.83	1.26	24.9	25.1403	0.97
SAR10	2026-08-09	3500	50.1187	D3500V2 - SN1014	EX3DV4 - SN7700	DAE3 Sn577	3.33	65.7	66.4423	1.13	1.25	24.9	24.9408	0.16
SAR10	2026-08-10	3500	50.1187	D3500V2 - SN1014	EX3DV4 - SN7700	DAE3 Sn577	3.37	65.7	67.2404	2.34	1.27	24.9	25.3398	1.77
SAR10	2026-08-11	3500	50.1187	D3500V2 - SN1014	EX3DV4 - SN7700	DAE3 Sn577	3.33	65.7	66.4423	1.13	1.26	24.9	25.1403	0.97
SAR10	2026-08-12	3500	50.1187	D3500V2 - SN1014	EX3DV4 - SN7700	DAE3 Sn577	3.3	65.7	65.8437	0.22	1.24	24.9	24.7413	-0.64
SAR10	2026-08-13	3500	50.1187	D3500V2 - SN1014	EX3DV4 - SN7700	DAE3 Sn577	3.29	65.7	65.6442	-0.08	1.24	24.9	24.7413	-0.64
SAR10	2026-07-25	3700	50.1187	D3700V2 - SN1006	EX3DV4 - SN7700	DAE3 Sn577	3.21	69.9	64.048	-8.37	1.18	25.6	23.5441	-8.03
SAR10	2026-08-01	3700	50.1187	D3700V2 - SN1006	EX3DV4 - SN7700	DAE3 Sn577	3.23	69.9	64.447	-7.80	1.19	25.6	23.7436	-7.25
SAR10	2026-08-09	3700	50.1187	D3700V2 - SN1006	EX3DV4 - SN7700	DAE3 Sn577	3.26	69.9	65.0456	-6.94	1.19	25.6	23.7436	-7.25
SAR10	2026-08-10	3700	50.1187	D3700V2 - SN1006	EX3DV4 - SN7700	DAE3 Sn577	3.3	69.9	65.8437	-5.80	1.21	25.6	24.1427	-5.69
SAR10	2026-08-11	3700	50.1187	D3700V2 - SN1006	EX3DV4 - SN7700	DAE3 Sn577	3.23	69.9	64.447	-7.80	1.18	25.6	23.5441	-8.03
SAR10	2026-08-12	3700	50.1187	D3700V2 - SN1006	EX3DV4 - SN7700	DAE3 Sn577	3.22	69.9	64.2475	-8.09	1.17	25.6	23.3446	-8.81
SAR10	2026-08-13	3700	50.1187	D3700V2 - SN1006	EX3DV4 - SN7700	DAE3 Sn577	3.22	69.9	64.2475	-8.09	1.18	25.6	23.5441	-8.03
SAR10	2026-07-25	3900	100	D3900V2 - SN1092	EX3DV4 - SN7700	DAE3 Sn577	6.08	65.7	60.8	-7.46	2.13	23.1	21.3	-7.79
SAR10	2026-08-01	3900	100	D3900V2 - SN1092	EX3DV4 - SN7700	DAE3 Sn577	6.17	65.7	61.7	-6.09	2.17	23.1	21.7	-6.06
SAR10	2026-08-09	3900	100	D3900V2 - SN1092	EX3DV4 - SN7700	DAE3 Sn577	6.07	65.7	60.7	-7.61	2.13	23.1	21.3	-7.79
SAR10	2026-08-10	3900	100	D3900V2 - SN1092	EX3DV4 - SN7700	DAE3 Sn577	6.21	65.7	62.1	-5.48	2.18	23.1	21.8	-5.63
SAR10	2026-08-11	3900	100	D3900V2 - SN1092	EX3DV4 - SN7700	DAE3 Sn577	6.1	65.7	61	-7.15	2.14	23.1	21.4	-7.36
SAR10	2026-08-12	3900	100	D3900V2 - SN1092	EX3DV4 - SN7700	DAE3 Sn577	6.15	65.7	61.5	-6.39	2.15	23.1	21.5	-6.93
SAR10	2026-08-13	3900	100	D3900V2 - SN1092	EX3DV4 - SN7700	DAE3 Sn577	6.29	65.7	62.9	-4.26	2.2	23.1	22	-4.76

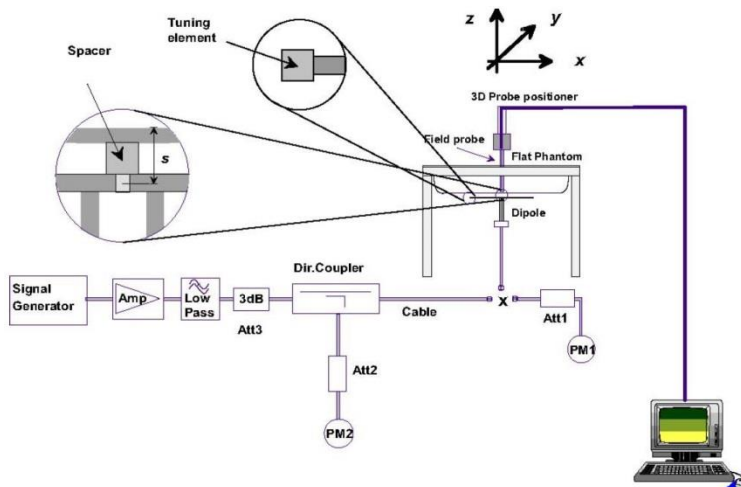


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo



12. RF Exposure Positions

12.1 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.

13. LTE Output Power (Unit: dBm)

< LTE Conducted Power >

General Note:

1. A 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 $\frac{1}{2}$ 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 $\frac{1}{2}$ 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 B4/B5/B12/B17/B26/B38/B71 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 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; 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 $\leq$ 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

< 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.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “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
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Base station simulator was used for LTE output power measurements and SAR testing.

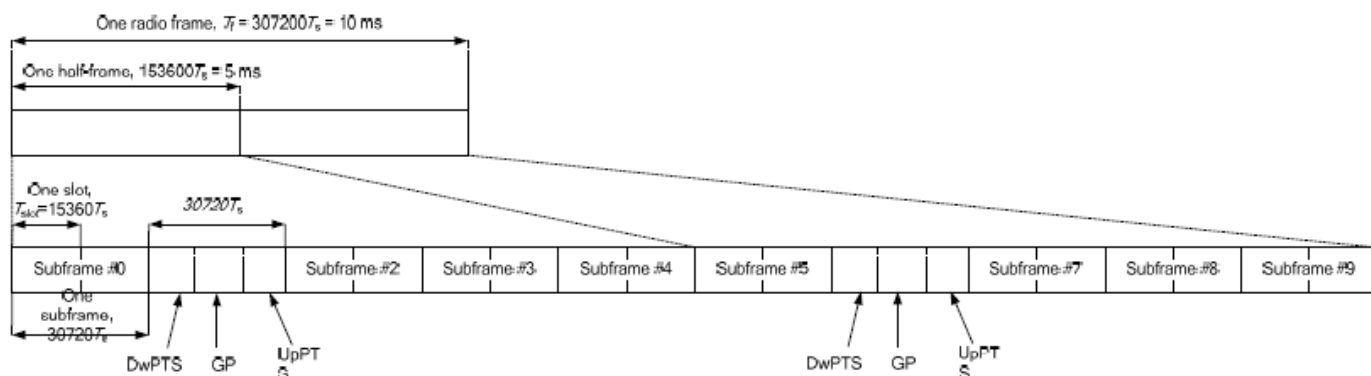


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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

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 subframes, 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.



【LTE Band 2_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.44	22.50	22.48	23.00
20	QPSK	1	49	22.40	22.50	22.45	23.00
20	QPSK	1	99	22.42	22.46	22.33	23.00
20	QPSK	50	0	21.54	21.56	21.55	22.00
20	QPSK	50	24	21.44	21.47	21.51	22.00
20	QPSK	50	50	21.42	21.48	21.25	22.00
20	QPSK	100	0	21.43	21.54	21.44	22.00
20	16QAM	1	0	21.56	21.58	21.81	22.00
20	16QAM	1	49	21.77	21.96	21.71	22.00
20	16QAM	1	99	21.77	21.77	21.55	22.00
20	16QAM	50	0	20.37	20.60	20.37	21.00
20	16QAM	50	24	20.33	20.59	20.51	21.00
20	16QAM	50	50	20.49	20.49	20.15	21.00
20	16QAM	100	0	20.45	20.54	20.41	21.00
20	64QAM	1	0	20.64	20.75	20.40	21.00
20	64QAM	1	49	20.61	20.88	20.60	21.00
20	64QAM	1	99	20.55	20.66	20.75	21.00
20	64QAM	50	0	19.31	19.54	19.37	20.00
20	64QAM	50	24	19.30	19.56	19.33	20.00
20	64QAM	50	50	19.46	19.51	19.32	20.00
20	64QAM	100	0	19.47	19.58	19.42	20.00
20	256QAM	1	0	17.32	17.39	17.38	18.00
20	256QAM	1	49	17.53	17.80	17.74	18.00
20	256QAM	1	99	17.33	17.39	17.40	18.00
20	256QAM	50	0	17.37	17.58	17.44	18.00
20	256QAM	50	24	17.49	17.65	17.44	18.00
20	256QAM	50	50	17.44	17.47	17.29	18.00
20	256QAM	100	0	17.47	17.62	17.46	18.00
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.16	22.36	22.37	23.00
15	QPSK	1	37	22.29	22.47	22.40	23.00
15	QPSK	1	74	22.27	22.34	22.28	23.00
15	QPSK	36	0	21.22	21.50	21.51	22.00
15	QPSK	36	20	21.39	21.32	21.39	22.00
15	QPSK	36	39	21.47	21.34	21.22	22.00
15	QPSK	75	0	21.38	21.45	21.34	22.00
15	16QAM	1	0	21.44	21.43	21.76	22.00
15	16QAM	1	37	21.62	21.89	21.56	22.00
15	16QAM	1	74	21.70	21.67	21.46	22.00
15	16QAM	36	0	20.28	20.55	20.24	21.00
15	16QAM	36	20	20.21	20.53	20.42	21.00
15	16QAM	36	39	20.42	20.37	20.07	21.00
15	16QAM	75	0	20.40	20.50	20.34	21.00
15	64QAM	1	0	20.53	20.64	20.30	21.00
15	64QAM	1	37	20.57	20.84	20.53	21.00
15	64QAM	1	74	20.51	20.59	20.67	21.00
15	64QAM	36	0	19.27	19.52	19.24	20.00
15	64QAM	36	20	19.22	19.46	19.27	20.00
15	64QAM	36	39	19.33	19.47	19.27	20.00
15	64QAM	75	0	19.34	19.45	19.41	20.00
15	256QAM	1	0	17.20	17.26	17.28	18.00
15	256QAM	1	37	17.49	17.76	17.68	18.00
15	256QAM	1	74	17.31	17.26	17.29	18.00
15	256QAM	36	0	17.34	17.48	17.37	18.00
15	256QAM	36	20	17.41	17.59	17.36	18.00
15	256QAM	36	39	17.43	17.38	17.20	18.00
15	256QAM	75	0	17.38	17.57	17.36	18.00
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.15	22.39	22.27	23.00
10	QPSK	1	25	22.28	22.48	22.37	23.00
10	QPSK	1	49	22.28	22.37	22.20	23.00
10	QPSK	25	0	21.21	21.43	21.50	22.00
10	QPSK	25	12	21.31	21.39	21.47	22.00
10	QPSK	25	25	21.40	21.44	21.20	22.00
10	QPSK	50	0	21.28	21.43	21.42	22.00
10	16QAM	1	0	21.51	21.48	21.75	22.00
10	16QAM	1	25	21.72	21.82	21.62	22.00
10	16QAM	1	49	21.72	21.68	21.42	22.00



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10	16QAM	25	0	20.23	20.48	20.22	21.00
10	16QAM	25	12	20.24	20.49	20.48	21.00
10	16QAM	25	25	20.39	20.42	20.04	21.00
10	16QAM	50	0	20.31	20.52	20.33	21.00
10	64QAM	1	0	20.54	20.64	20.37	21.00
10	64QAM	1	25	20.53	20.81	20.59	21.00
10	64QAM	1	49	20.43	20.61	20.71	21.00
10	64QAM	25	0	19.23	19.39	19.32	20.00
10	64QAM	25	12	19.29	19.54	19.19	20.00
10	64QAM	25	25	19.38	19.45	19.25	20.00
10	64QAM	50	0	19.34	19.51	19.38	20.00
10	256QAM	1	0	17.19	17.30	17.37	18.00
10	256QAM	1	25	17.50	17.70	17.66	18.00
10	256QAM	1	49	17.25	17.35	17.30	18.00
10	256QAM	25	0	17.33	17.46	17.33	18.00
10	256QAM	25	12	17.43	17.59	17.38	18.00
10	256QAM	25	25	17.30	17.37	17.18	18.00
10	256QAM	50	0	17.32	17.57	17.35	18.00
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.17	22.40	22.34	23.00
5	QPSK	1	12	22.29	22.40	22.35	23.00
5	QPSK	1	24	22.28	22.34	22.29	23.00
5	QPSK	12	0	21.19	21.43	21.41	22.00
5	QPSK	12	7	21.35	21.45	21.50	22.00
5	QPSK	12	13	21.47	21.42	21.21	22.00
5	QPSK	25	0	21.38	21.40	21.37	22.00
5	16QAM	1	0	21.54	21.45	21.68	22.00
5	16QAM	1	12	21.67	21.82	21.69	22.00
5	16QAM	1	24	21.72	21.68	21.51	22.00
5	16QAM	12	0	20.24	20.54	20.23	21.00
5	16QAM	12	7	20.25	20.54	20.48	21.00
5	16QAM	12	13	20.37	20.47	20.04	21.00
5	16QAM	25	0	20.35	20.41	20.27	21.00
5	64QAM	1	0	20.53	20.68	20.35	21.00
5	64QAM	1	12	20.48	20.82	20.59	21.00
5	64QAM	1	24	20.48	20.61	20.68	21.00
5	64QAM	12	0	19.29	19.41	19.31	20.00
5	64QAM	12	7	19.21	19.52	19.27	20.00
5	64QAM	12	13	19.44	19.41	19.31	20.00
5	64QAM	25	0	19.37	19.47	19.29	20.00
5	256QAM	1	0	17.23	17.25	17.36	18.00
5	256QAM	1	12	17.40	17.79	17.65	18.00
5	256QAM	1	24	17.30	17.31	17.27	18.00
5	256QAM	12	0	17.28	17.57	17.29	18.00
5	256QAM	12	7	17.43	17.52	17.32	18.00
5	256QAM	12	13	17.39	17.34	17.15	18.00
5	256QAM	25	0	17.37	17.49	17.44	18.00
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.24	22.36	22.33	23.00
3	QPSK	1	8	22.28	22.40	22.39	23.00
3	QPSK	1	14	22.27	22.41	22.23	23.00
3	QPSK	8	0	21.24	21.47	21.49	22.00
3	QPSK	8	4	21.34	21.35	21.40	22.00
3	QPSK	8	7	21.50	21.41	21.12	22.00
3	QPSK	15	0	21.39	21.41	21.38	22.00
3	16QAM	1	0	21.45	21.51	21.67	22.00
3	16QAM	1	8	21.71	21.89	21.60	22.00
3	16QAM	1	14	21.68	21.65	21.46	22.00
3	16QAM	8	0	20.34	20.47	20.30	21.00
3	16QAM	8	4	20.19	20.47	20.40	21.00
3	16QAM	8	7	20.42	20.36	20.13	21.00
3	16QAM	15	0	20.35	20.40	20.27	21.00
3	64QAM	1	0	20.58	20.63	20.26	21.00
3	64QAM	1	8	20.47	20.81	20.48	21.00
3	64QAM	1	14	20.47	20.62	20.71	21.00
3	64QAM	8	0	19.17	19.47	19.29	20.00
3	64QAM	8	4	19.16	19.45	19.26	20.00
3	64QAM	8	7	19.37	19.48	19.20	20.00
3	64QAM	15	0	19.39	19.48	19.28	20.00
3	256QAM	1	0	17.18	17.35	17.24	18.00
3	256QAM	1	8	17.51	17.78	17.71	18.00
3	256QAM	1	14	17.26	17.38	17.38	18.00
3	256QAM	8	0	17.25	17.51	17.38	18.00
3	256QAM	8	4	17.42	17.54	17.38	18.00
3	256QAM	8	7	17.39	17.34	17.15	18.00
3	256QAM	15	0	17.42	17.59	17.41	18.00



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Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.24	22.42	22.27	23.00
1.4	QPSK	1	3	22.29	22.38	22.37	23.00
1.4	QPSK	1	5	22.28	22.32	22.26	23.00
1.4	QPSK	3	0	22.27	22.45	22.40	23.00
1.4	QPSK	3	1	22.29	22.41	22.39	23.00
1.4	QPSK	3	3	22.28	22.41	22.24	23.00
1.4	QPSK	6	0	21.33	21.48	21.38	22.00
1.4	16QAM	1	0	21.51	21.53	21.72	22.00
1.4	16QAM	1	3	21.67	21.83	21.60	22.00
1.4	16QAM	1	5	21.69	21.74	21.46	22.00
1.4	16QAM	3	0	21.26	21.51	21.32	22.00
1.4	16QAM	3	1	21.20	21.45	21.38	22.00
1.4	16QAM	3	3	21.39	21.38	21.02	22.00
1.4	16QAM	6	0	20.39	20.44	20.28	21.00
1.4	64QAM	1	0	20.58	20.66	20.39	21.00
1.4	64QAM	1	3	20.53	20.79	20.47	21.00
1.4	64QAM	1	5	20.53	20.55	20.70	21.00
1.4	64QAM	3	0	20.20	20.50	20.25	21.00
1.4	64QAM	3	1	20.25	20.52	20.32	21.00
1.4	64QAM	3	3	20.44	20.38	20.19	21.00
1.4	64QAM	6	0	19.33	19.55	19.39	20.00
1.4	256QAM	1	0	17.27	17.33	17.37	18.00
1.4	256QAM	1	3	17.39	17.73	17.72	18.00
1.4	256QAM	1	5	17.19	17.24	17.29	18.00
1.4	256QAM	3	0	17.24	17.56	17.37	18.00
1.4	256QAM	3	1	17.46	17.63	17.31	18.00
1.4	256QAM	3	3	17.30	17.44	17.18	18.00
1.4	256QAM	6	0	17.43	17.48	17.38	18.00

【LTE Band 2_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	18.46	18.72	18.48	19.00
20	QPSK	1	49	18.25	18.64	18.38	19.00
20	QPSK	1	99	18.18	18.56	18.28	19.00
20	QPSK	50	0	18.29	18.61	18.28	19.00
20	QPSK	50	24	18.22	18.54	18.25	19.00
20	QPSK	50	50	18.10	18.44	18.10	19.00
20	QPSK	100	0	18.24	18.59	18.33	19.00
20	16QAM	1	0	18.31	18.66	18.34	19.00
20	16QAM	1	49	18.34	18.70	18.42	19.00
20	16QAM	1	99	18.33	18.67	18.34	19.00
20	16QAM	50	0	18.19	18.54	18.23	19.00
20	16QAM	50	24	18.25	18.64	18.35	19.00
20	16QAM	50	50	18.20	18.50	18.12	19.00
20	16QAM	100	0	18.25	18.58	18.31	19.00
20	64QAM	1	0	18.29	18.69	18.34	19.00
20	64QAM	1	49	18.31	18.66	18.35	19.00
20	64QAM	1	99	18.33	18.64	18.28	19.00
20	64QAM	50	0	18.23	18.58	18.21	19.00
20	64QAM	50	24	18.30	18.61	18.27	19.00
20	64QAM	50	50	18.32	18.62	18.33	19.00
20	64QAM	100	0	18.20	18.59	18.24	19.00
20	256QAM	1	0	17.19	17.48	17.22	18.00
20	256QAM	1	49	17.42	17.77	17.40	18.00
20	256QAM	1	99	17.14	17.46	17.22	18.00
20	256QAM	50	0	17.20	17.53	17.27	18.00
20	256QAM	50	24	17.33	17.65	17.36	18.00
20	256QAM	50	50	17.19	17.53	17.25	18.00
20	256QAM	100	0	17.21	17.54	17.21	18.00
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.31	18.69	18.44	19.00
15	QPSK	1	37	18.17	18.53	18.28	19.00
15	QPSK	1	74	18.13	18.53	18.20	19.00
15	QPSK	36	0	18.22	18.48	18.23	19.00
15	QPSK	36	20	18.17	18.50	18.12	19.00
15	QPSK	36	39	17.96	18.42	17.98	19.00
15	QPSK	75	0	18.17	18.58	18.28	19.00
15	16QAM	1	0	18.27	18.55	18.29	19.00



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15	16QAM	1	37	18.20	18.59	18.28	19.00
15	16QAM	1	74	18.20	18.56	18.23	19.00
15	16QAM	36	0	18.16	18.48	18.16	19.00
15	16QAM	36	20	18.12	18.51	18.31	19.00
15	16QAM	36	39	18.11	18.45	18.08	19.00
15	16QAM	75	0	18.17	18.50	18.25	19.00
15	64QAM	1	0	18.18	18.55	18.28	19.00
15	64QAM	1	37	18.28	18.63	18.20	19.00
15	64QAM	1	74	18.28	18.61	18.13	19.00
15	64QAM	36	0	18.13	18.46	18.15	19.00
15	64QAM	36	20	18.18	18.50	18.17	19.00
15	64QAM	36	39	18.27	18.51	18.29	19.00
15	64QAM	75	0	18.08	18.56	18.15	19.00
15	256QAM	1	0	17.07	17.44	17.09	18.00
15	256QAM	1	37	17.32	17.66	17.28	18.00
15	256QAM	1	74	17.00	17.38	17.11	18.00
15	256QAM	36	0	17.08	17.50	17.22	18.00
15	256QAM	36	20	17.19	17.58	17.23	18.00
15	256QAM	36	39	17.08	17.50	17.17	18.00
15	256QAM	75	0	17.15	17.44	17.08	18.00
Channel				18650	18900	19150	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	QPSK	1	0	18.40	18.61	18.40	19.00
10	QPSK	1	25	18.21	18.58	18.26	19.00
10	QPSK	1	49	18.12	18.47	18.23	19.00
10	QPSK	25	0	18.17	18.55	18.16	19.00
10	QPSK	25	12	18.12	18.41	18.19	19.00
10	QPSK	25	25	18.00	18.43	18.09	19.00
10	QPSK	50	0	18.10	18.54	18.27	19.00
10	16QAM	1	0	18.20	18.56	18.23	19.00
10	16QAM	1	25	18.19	18.57	18.31	19.00
10	16QAM	1	49	18.21	18.61	18.32	19.00
10	16QAM	25	0	18.09	18.41	18.18	19.00
10	16QAM	25	12	18.21	18.58	18.30	19.00
10	16QAM	25	25	18.17	18.49	18.01	19.00
10	16QAM	50	0	18.13	18.53	18.30	19.00
10	64QAM	1	0	18.21	18.55	18.25	19.00
10	64QAM	1	25	18.28	18.64	18.28	19.00
10	64QAM	1	49	18.25	18.61	18.19	19.00
10	64QAM	25	0	18.10	18.55	18.15	19.00
10	64QAM	25	12	18.27	18.54	18.22	19.00
10	64QAM	25	25	18.29	18.59	18.21	19.00
10	64QAM	50	0	18.08	18.50	18.18	19.00
10	256QAM	1	0	17.16	17.39	17.11	18.00
10	256QAM	1	25	17.31	17.63	17.26	18.00
10	256QAM	1	49	17.12	17.41	17.18	18.00
10	256QAM	25	0	17.13	17.43	17.20	18.00
10	256QAM	25	12	17.23	17.52	17.32	18.00
10	256QAM	25	25	17.10	17.42	17.17	18.00
10	256QAM	50	0	17.14	17.52	17.15	18.00
Channel				18625	18900	19175	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	QPSK	1	0	18.38	18.67	18.44	19.00
5	QPSK	1	12	18.18	18.60	18.34	19.00
5	QPSK	1	24	18.06	18.44	18.21	19.00
5	QPSK	12	0	18.25	18.55	18.18	19.00
5	QPSK	12	7	18.20	18.51	18.16	19.00
5	QPSK	12	13	18.02	18.32	18.02	19.00
5	QPSK	25	0	18.14	18.47	18.31	19.00
5	16QAM	1	0	18.21	18.56	18.24	19.00
5	16QAM	1	12	18.23	18.66	18.31	19.00
5	16QAM	1	24	18.30	18.65	18.27	19.00
5	16QAM	12	0	18.09	18.47	18.13	19.00
5	16QAM	12	7	18.17	18.61	18.23	19.00
5	16QAM	12	13	18.07	18.47	18.06	19.00
5	16QAM	25	0	18.21	18.47	18.27	19.00
5	64QAM	1	0	18.23	18.61	18.24	19.00
5	64QAM	1	12	18.21	18.57	18.23	19.00
5	64QAM	1	24	18.23	18.55	18.21	19.00
5	64QAM	12	0	18.15	18.51	18.15	19.00
5	64QAM	12	7	18.26	18.49	18.25	19.00
5	64QAM	12	13	18.23	18.55	18.32	19.00
5	64QAM	25	0	18.07	18.57	18.13	19.00
5	256QAM	1	0	17.12	17.44	17.12	18.00
5	256QAM	1	12	17.34	17.73	17.32	18.00
5	256QAM	1	24	17.07	17.43	17.21	18.00
5	256QAM	12	0	17.14	17.49	17.25	18.00
5	256QAM	12	7	17.20	17.53	17.28	18.00



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5	256QAM	12	13	17.10	17.50	17.20	18.00
5	256QAM	25	0	17.16	17.52	17.15	18.00
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	18.36	18.67	18.39	19.00
3	QPSK	1	8	18.16	18.61	18.24	19.00
3	QPSK	1	14	18.15	18.46	18.20	19.00
3	QPSK	8	0	18.25	18.54	18.21	19.00
3	QPSK	8	4	18.11	18.40	18.22	19.00
3	QPSK	8	7	17.97	18.31	17.98	19.00
3	QPSK	15	0	18.12	18.57	18.26	19.00
3	16QAM	1	0	18.27	18.55	18.24	19.00
3	16QAM	1	8	18.21	18.63	18.33	19.00
3	16QAM	1	14	18.22	18.65	18.25	19.00
3	16QAM	8	0	18.10	18.47	18.17	19.00
3	16QAM	8	4	18.10	18.60	18.31	19.00
3	16QAM	8	7	18.19	18.42	18.05	19.00
3	16QAM	15	0	18.23	18.51	18.18	19.00
3	64QAM	1	0	18.20	18.56	18.27	19.00
3	64QAM	1	8	18.30	18.58	18.32	19.00
3	64QAM	1	14	18.21	18.54	18.27	19.00
3	64QAM	8	0	18.12	18.51	18.10	19.00
3	64QAM	8	4	18.19	18.55	18.19	19.00
3	64QAM	8	7	18.18	18.50	18.31	19.00
3	64QAM	15	0	18.16	18.49	18.20	19.00
3	256QAM	1	0	17.08	17.43	17.19	18.00
3	256QAM	1	8	17.28	17.71	17.32	18.00
3	256QAM	1	14	17.07	17.42	17.19	18.00
3	256QAM	8	0	17.12	17.49	17.18	18.00
3	256QAM	8	4	17.26	17.57	17.32	18.00
3	256QAM	8	7	17.15	17.47	17.19	18.00
3	256QAM	15	0	17.10	17.45	17.06	18.00
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.31	18.58	18.36	19.00
1.4	QPSK	1	3	18.23	18.50	18.28	19.00
1.4	QPSK	1	5	18.11	18.47	18.23	19.00
1.4	QPSK	3	0	18.24	18.48	18.27	19.00
1.4	QPSK	3	1	18.12	18.49	18.12	19.00
1.4	QPSK	3	3	18.04	18.43	18.05	19.00
1.4	QPSK	6	0	18.14	18.47	18.20	19.00
1.4	16QAM	1	0	18.17	18.62	18.25	19.00
1.4	16QAM	1	3	18.25	18.57	18.32	19.00
1.4	16QAM	1	5	18.32	18.66	18.19	19.00
1.4	16QAM	3	0	18.04	18.43	18.09	19.00
1.4	16QAM	3	1	18.13	18.62	18.25	19.00
1.4	16QAM	3	3	18.17	18.46	18.06	19.00
1.4	16QAM	6	0	18.16	18.52	18.25	19.00
1.4	64QAM	1	0	18.25	18.58	18.31	19.00
1.4	64QAM	1	3	18.27	18.54	18.27	19.00
1.4	64QAM	1	5	18.32	18.62	18.18	19.00
1.4	64QAM	3	0	18.21	18.52	18.10	19.00
1.4	64QAM	3	1	18.26	18.54	18.19	19.00
1.4	64QAM	3	3	18.22	18.61	18.32	19.00
1.4	64QAM	6	0	18.07	18.58	18.16	19.00
1.4	256QAM	1	0	17.05	17.44	17.19	18.00
1.4	256QAM	1	3	17.38	17.62	17.29	18.00
1.4	256QAM	1	5	17.04	17.33	17.15	18.00
1.4	256QAM	3	0	17.06	17.47	17.22	18.00
1.4	256QAM	3	1	17.29	17.55	17.22	18.00
1.4	256QAM	3	3	17.09	17.46	17.20	18.00
1.4	256QAM	6	0	17.13	17.43	17.17	18.00



【LTE Band 4_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	Tune-up limit (dBm)
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.86	22.91	22.84	23.00
20	QPSK	1	49	22.83	22.72	22.79	23.00
20	QPSK	1	99	22.81	22.71	22.74	23.00
20	QPSK	50	0	21.80	21.83	21.76	22.00
20	QPSK	50	24	21.75	21.74	21.65	22.00
20	QPSK	50	50	21.77	21.65	21.73	22.00
20	QPSK	100	0	21.96	21.77	21.65	22.00
20	16QAM	1	0	21.73	21.92	21.75	22.00
20	16QAM	1	49	21.83	21.99	21.96	22.00
20	16QAM	1	99	21.81	21.89	21.73	22.00
20	16QAM	50	0	20.82	20.76	20.74	21.00
20	16QAM	50	24	20.89	20.70	20.84	21.00
20	16QAM	50	50	20.76	20.72	20.82	21.00
20	16QAM	100	0	20.91	20.76	20.64	21.00
20	64QAM	1	0	20.91	20.91	20.79	21.00
20	64QAM	1	49	20.84	20.95	20.96	21.00
20	64QAM	1	99	20.85	21.00	20.91	21.00
20	64QAM	50	0	19.97	19.76	19.61	20.00
20	64QAM	50	24	19.59	19.75	19.63	20.00
20	64QAM	50	50	19.76	19.76	19.62	20.00
20	64QAM	100	0	19.89	19.81	19.71	20.00
20	256QAM	1	0	17.99	17.77	17.68	18.00
20	256QAM	1	49	17.67	17.83	17.94	18.00
20	256QAM	1	99	17.77	17.62	17.67	18.00
20	256QAM	50	0	17.89	17.93	17.76	18.00
20	256QAM	50	24	17.91	17.82	17.77	18.00
20	256QAM	50	50	17.87	17.77	17.71	18.00
20	256QAM	100	0	17.96	17.75	17.68	18.00
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.75	22.85	22.78	23.00
15	QPSK	1	37	22.73	22.58	22.74	23.00
15	QPSK	1	74	22.70	22.66	22.71	23.00
15	QPSK	36	0	21.67	21.78	21.66	22.00
15	QPSK	36	20	21.62	21.70	21.57	22.00
15	QPSK	36	39	21.62	21.54	21.70	22.00
15	QPSK	75	0	21.84	21.67	21.52	22.00
15	16QAM	1	0	21.65	21.80	21.63	22.00
15	16QAM	1	37	21.74	21.92	21.92	22.00
15	16QAM	1	74	21.71	21.75	21.67	22.00
15	16QAM	36	0	20.70	20.71	20.69	21.00
15	16QAM	36	20	20.76	20.58	20.71	21.00
15	16QAM	36	39	20.63	20.70	20.68	21.00
15	16QAM	75	0	20.78	20.66	20.55	21.00
15	64QAM	1	0	20.89	20.84	20.68	21.00
15	64QAM	1	37	20.78	20.91	20.85	21.00
15	64QAM	1	74	20.72	20.86	20.86	21.00
15	64QAM	36	0	19.87	19.67	19.52	20.00
15	64QAM	36	20	19.46	19.72	19.61	20.00
15	64QAM	36	39	19.71	19.69	19.49	20.00
15	64QAM	75	0	19.81	19.74	19.68	20.00
15	256QAM	1	0	17.89	17.69	17.64	18.00
15	256QAM	1	37	17.63	17.73	17.80	18.00
15	256QAM	1	74	17.75	17.51	17.54	18.00
15	256QAM	36	0	17.79	17.87	17.68	18.00
15	256QAM	36	20	17.87	17.69	17.68	18.00
15	256QAM	36	39	17.76	17.62	17.62	18.00
15	256QAM	75	0	17.92	17.66	17.65	18.00
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.83	22.87	22.76	23.00
10	QPSK	1	25	22.72	22.59	22.73	23.00
10	QPSK	1	49	22.72	22.57	22.72	23.00
10	QPSK	25	0	21.66	21.71	21.70	22.00
10	QPSK	25	12	21.68	21.63	21.55	22.00
10	QPSK	25	25	21.68	21.57	21.65	22.00
10	QPSK	50	0	21.93	21.71	21.62	22.00
10	16QAM	1	0	21.61	21.85	21.65	22.00
10	16QAM	1	25	21.74	21.89	21.94	22.00
10	16QAM	1	49	21.73	21.84	21.61	22.00



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10	16QAM	25	0	20.74	20.70	20.68	21.00
10	16QAM	25	12	20.74	20.69	20.72	21.00
10	16QAM	25	25	20.71	20.70	20.71	21.00
10	16QAM	50	0	20.77	20.64	20.54	21.00
10	64QAM	1	0	20.83	20.80	20.73	21.00
10	64QAM	1	25	20.78	20.81	20.91	21.00
10	64QAM	1	49	20.78	20.90	20.80	21.00
10	64QAM	25	0	19.94	19.67	19.55	20.00
10	64QAM	25	12	19.57	19.63	19.50	20.00
10	64QAM	25	25	19.75	19.73	19.50	20.00
10	64QAM	50	0	19.85	19.77	19.64	20.00
10	256QAM	1	0	17.92	17.75	17.60	18.00
10	256QAM	1	25	17.56	17.68	17.92	18.00
10	256QAM	1	49	17.73	17.49	17.65	18.00
10	256QAM	25	0	17.86	17.86	17.67	18.00
10	256QAM	25	12	17.81	17.78	17.68	18.00
10	256QAM	25	25	17.73	17.71	17.66	18.00
10	256QAM	50	0	17.86	17.66	17.65	18.00
Channel				19975	20175	20375	Tune-up limit
Frequency (MHz)				1712.5	1732.5	1752.5	(dBm)
5	QPSK	1	0	22.74	22.89	22.81	23.00
5	QPSK	1	12	22.69	22.71	22.66	23.00
5	QPSK	1	24	22.74	22.58	22.67	23.00
5	QPSK	12	0	21.73	21.72	21.69	22.00
5	QPSK	12	7	21.68	21.60	21.51	22.00
5	QPSK	12	13	21.73	21.53	21.69	22.00
5	QPSK	25	0	21.82	21.65	21.59	22.00
5	16QAM	1	0	21.68	21.78	21.63	22.00
5	16QAM	1	12	21.72	21.97	21.92	22.00
5	16QAM	1	24	21.70	21.77	21.61	22.00
5	16QAM	12	0	20.69	20.65	20.70	21.00
5	16QAM	12	7	20.78	20.55	20.75	21.00
5	16QAM	12	13	20.73	20.58	20.70	21.00
5	16QAM	25	0	20.77	20.68	20.52	21.00
5	64QAM	1	0	20.81	20.82	20.66	21.00
5	64QAM	1	12	20.81	20.86	20.81	21.00
5	64QAM	1	24	20.83	20.91	20.77	21.00
5	64QAM	12	0	19.89	19.73	19.57	20.00
5	64QAM	12	7	19.55	19.65	19.58	20.00
5	64QAM	12	13	19.64	19.67	19.56	20.00
5	64QAM	25	0	19.88	19.80	19.62	20.00
5	256QAM	1	0	17.87	17.72	17.62	18.00
5	256QAM	1	12	17.53	17.76	17.86	18.00
5	256QAM	1	24	17.74	17.49	17.65	18.00
5	256QAM	12	0	17.82	17.81	17.72	18.00
5	256QAM	12	7	17.79	17.77	17.72	18.00
5	256QAM	12	13	17.72	17.70	17.56	18.00
5	256QAM	25	0	17.84	17.63	17.60	18.00
Channel				19965	20175	20385	Tune-up limit
Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	22.75	22.77	22.77	23.00
3	QPSK	1	8	22.74	22.66	22.76	23.00
3	QPSK	1	14	22.77	22.62	22.65	23.00
3	QPSK	8	0	21.77	21.80	21.74	22.00
3	QPSK	8	4	21.64	21.66	21.62	22.00
3	QPSK	8	7	21.69	21.59	21.71	22.00
3	QPSK	15	0	21.89	21.73	21.62	22.00
3	16QAM	1	0	21.68	21.85	21.71	22.00
3	16QAM	1	8	21.70	21.89	21.93	22.00
3	16QAM	1	14	21.71	21.87	21.66	22.00
3	16QAM	8	0	20.72	20.71	20.59	21.00
3	16QAM	8	4	20.78	20.58	20.77	21.00
3	16QAM	8	7	20.62	20.70	20.69	21.00
3	16QAM	15	0	20.79	20.63	20.61	21.00
3	64QAM	1	0	20.84	20.81	20.65	21.00
3	64QAM	1	8	20.73	20.85	20.85	21.00
3	64QAM	1	14	20.71	20.86	20.77	21.00
3	64QAM	8	0	19.92	19.64	19.49	20.00
3	64QAM	8	4	19.54	19.73	19.59	20.00
3	64QAM	8	7	19.70	19.73	19.49	20.00
3	64QAM	15	0	19.86	19.71	19.67	20.00
3	256QAM	1	0	17.86	17.68	17.59	18.00
3	256QAM	1	8	17.60	17.76	17.85	18.00
3	256QAM	1	14	17.74	17.58	17.56	18.00
3	256QAM	8	0	17.84	17.90	17.66	18.00
3	256QAM	8	4	17.86	17.71	17.70	18.00
3	256QAM	8	7	17.77	17.69	17.56	18.00
3	256QAM	15	0	17.95	17.71	17.67	18.00



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Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.76	22.81	22.81	23.00
1.4	QPSK	1	3	22.72	22.59	22.76	23.00
1.4	QPSK	1	5	22.67	22.60	22.66	23.00
1.4	QPSK	3	0	22.67	22.68	22.69	23.00
1.4	QPSK	3	1	22.65	22.66	22.56	23.00
1.4	QPSK	3	3	22.66	22.52	22.70	23.00
1.4	QPSK	6	0	21.89	21.63	21.52	22.00
1.4	16QAM	1	0	21.60	21.85	21.71	22.00
1.4	16QAM	1	3	21.79	21.93	21.83	22.00
1.4	16QAM	1	5	21.68	21.75	21.65	22.00
1.4	16QAM	3	0	21.72	21.68	21.63	22.00
1.4	16QAM	3	1	21.87	21.60	21.81	22.00
1.4	16QAM	3	3	21.74	21.62	21.80	22.00
1.4	16QAM	6	0	20.86	20.66	20.61	21.00
1.4	64QAM	1	0	20.84	20.84	20.77	21.00
1.4	64QAM	1	3	20.81	20.92	20.86	21.00
1.4	64QAM	1	5	20.81	20.95	20.76	21.00
1.4	64QAM	3	0	20.87	20.70	20.59	21.00
1.4	64QAM	3	1	20.57	20.71	20.58	21.00
1.4	64QAM	3	3	20.66	20.64	20.54	21.00
1.4	64QAM	6	0	19.78	19.75	19.59	20.00
1.4	256QAM	1	0	17.85	17.65	17.61	18.00
1.4	256QAM	1	3	17.57	17.72	17.85	18.00
1.4	256QAM	1	5	17.70	17.48	17.53	18.00
1.4	256QAM	3	0	17.85	17.84	17.64	18.00
1.4	256QAM	3	1	17.83	17.72	17.65	18.00
1.4	256QAM	3	3	17.78	17.64	17.60	18.00
1.4	256QAM	6	0	17.83	17.62	17.63	18.00

【LTE Band 4_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	17.92	17.97	17.74	18.50
20	QPSK	1	49	17.65	17.75	17.37	18.50
20	QPSK	1	99	17.52	17.68	17.41	18.50
20	QPSK	50	0	17.75	17.84	17.52	18.50
20	QPSK	50	24	17.66	17.79	17.51	18.50
20	QPSK	50	50	17.64	17.83	17.45	18.50
20	QPSK	100	0	17.55	17.73	17.45	18.50
20	16QAM	1	0	17.72	17.90	17.60	18.50
20	16QAM	1	49	17.73	17.92	17.65	18.50
20	16QAM	1	99	17.72	17.87	17.61	18.50
20	16QAM	50	0	17.60	17.79	17.47	18.50
20	16QAM	50	24	17.70	17.80	17.42	18.50
20	16QAM	50	50	17.67	17.77	17.44	18.50
20	16QAM	100	0	17.72	17.78	17.50	18.50
20	64QAM	1	0	17.81	17.92	17.58	18.50
20	64QAM	1	49	17.71	17.87	17.53	18.50
20	64QAM	1	99	17.60	17.77	17.52	18.50
20	64QAM	50	0	17.69	17.83	17.48	18.50
20	64QAM	50	24	17.70	17.82	17.52	18.50
20	64QAM	50	50	17.61	17.79	17.45	18.50
20	64QAM	100	0	17.63	17.70	17.42	18.50
20	256QAM	1	0	17.65	17.85	17.57	18.00
20	256QAM	1	49	17.71	17.84	17.46	18.00
20	256QAM	1	99	17.54	17.68	17.34	18.00
20	256QAM	50	0	17.63	17.80	17.51	18.00
20	256QAM	50	24	17.69	17.78	17.44	18.00
20	256QAM	50	50	17.56	17.70	17.41	18.00
20	256QAM	100	0	17.60	17.76	17.47	18.00
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	17.81	17.84	17.72	18.50
15	QPSK	1	37	17.54	17.72	17.24	18.50
15	QPSK	1	74	17.50	17.55	17.37	18.50
15	QPSK	36	0	17.63	17.74	17.43	18.50
15	QPSK	36	20	17.60	17.70	17.48	18.50
15	QPSK	36	39	17.60	17.70	17.43	18.50
15	QPSK	75	0	17.42	17.71	17.38	18.50
15	16QAM	1	0	17.59	17.85	17.46	18.50



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15	16QAM	1	37	17.67	17.90	17.64	18.50
15	16QAM	1	74	17.63	17.84	17.60	18.50
15	16QAM	36	0	17.59	17.65	17.38	18.50
15	16QAM	36	20	17.56	17.73	17.39	18.50
15	16QAM	36	39	17.57	17.70	17.36	18.50
15	16QAM	75	0	17.66	17.71	17.37	18.50
15	64QAM	1	0	17.69	17.88	17.54	18.50
15	64QAM	1	37	17.70	17.74	17.43	18.50
15	64QAM	1	74	17.51	17.73	17.40	18.50
15	64QAM	36	0	17.65	17.72	17.37	18.50
15	64QAM	36	20	17.64	17.74	17.38	18.50
15	64QAM	36	39	17.59	17.75	17.34	18.50
15	64QAM	75	0	17.50	17.66	17.37	18.50
15	256QAM	1	0	17.55	17.83	17.56	18.00
15	256QAM	1	37	17.58	17.75	17.44	18.00
15	256QAM	1	74	17.48	17.59	17.28	18.00
15	256QAM	36	0	17.55	17.75	17.47	18.00
15	256QAM	36	20	17.64	17.65	17.41	18.00
15	256QAM	36	39	17.53	17.68	17.27	18.00
15	256QAM	75	0	17.56	17.73	17.45	18.00
Channel				20000	20175	20350	Tune-up limit
Frequency (MHz)				1715	1732.5	1750	(dBm)
10	QPSK	1	0	17.85	17.90	17.72	18.50
10	QPSK	1	25	17.56	17.60	17.29	18.50
10	QPSK	1	49	17.50	17.61	17.39	18.50
10	QPSK	25	0	17.61	17.77	17.43	18.50
10	QPSK	25	12	17.59	17.72	17.47	18.50
10	QPSK	25	25	17.62	17.73	17.40	18.50
10	QPSK	50	0	17.48	17.68	17.30	18.50
10	16QAM	1	0	17.63	17.87	17.52	18.50
10	16QAM	1	25	17.67	17.87	17.54	18.50
10	16QAM	1	49	17.67	17.79	17.50	18.50
10	16QAM	25	0	17.55	17.65	17.38	18.50
10	16QAM	25	12	17.61	17.74	17.32	18.50
10	16QAM	25	25	17.65	17.75	17.42	18.50
10	16QAM	50	0	17.63	17.73	17.44	18.50
10	64QAM	1	0	17.71	17.90	17.56	18.50
10	64QAM	1	25	17.60	17.73	17.44	18.50
10	64QAM	1	49	17.51	17.75	17.44	18.50
10	64QAM	25	0	17.54	17.82	17.47	18.50
10	64QAM	25	12	17.62	17.68	17.41	18.50
10	64QAM	25	25	17.55	17.77	17.32	18.50
10	64QAM	50	0	17.54	17.56	17.33	18.50
10	256QAM	1	0	17.57	17.76	17.50	18.00
10	256QAM	1	25	17.60	17.70	17.33	18.00
10	256QAM	1	49	17.53	17.60	17.21	18.00
10	256QAM	25	0	17.53	17.77	17.47	18.00
10	256QAM	25	12	17.57	17.75	17.31	18.00
10	256QAM	25	25	17.52	17.65	17.39	18.00
10	256QAM	50	0	17.57	17.71	17.44	18.00
Channel				19975	20175	20375	Tune-up limit
Frequency (MHz)				1712.5	1732.5	1752.5	(dBm)
5	QPSK	1	0	17.80	17.88	17.70	18.50
5	QPSK	1	12	17.60	17.63	17.31	18.50
5	QPSK	1	24	17.47	17.63	17.35	18.50
5	QPSK	12	0	17.63	17.70	17.38	18.50
5	QPSK	12	7	17.60	17.73	17.50	18.50
5	QPSK	12	13	17.58	17.79	17.41	18.50
5	QPSK	25	0	17.43	17.68	17.31	18.50
5	16QAM	1	0	17.67	17.88	17.47	18.50
5	16QAM	1	12	17.67	17.82	17.62	18.50
5	16QAM	1	24	17.61	17.77	17.53	18.50
5	16QAM	12	0	17.50	17.71	17.41	18.50
5	16QAM	12	7	17.60	17.77	17.31	18.50
5	16QAM	12	13	17.61	17.66	17.38	18.50
5	16QAM	25	0	17.68	17.71	17.35	18.50
5	64QAM	1	0	17.77	17.78	17.57	18.50
5	64QAM	1	12	17.66	17.81	17.51	18.50
5	64QAM	1	24	17.52	17.74	17.40	18.50
5	64QAM	12	0	17.68	17.81	17.39	18.50
5	64QAM	12	7	17.67	17.75	17.40	18.50
5	64QAM	12	13	17.49	17.65	17.38	18.50
5	64QAM	25	0	17.60	17.69	17.35	18.50
5	256QAM	1	0	17.55	17.83	17.46	18.00
5	256QAM	1	12	17.56	17.76	17.41	18.00
5	256QAM	1	24	17.46	17.66	17.23	18.00
5	256QAM	12	0	17.49	17.72	17.47	18.00
5	256QAM	12	7	17.56	17.70	17.31	18.00



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5	256QAM	12	13	17.47	17.67	17.39	18.00
5	256QAM	25	0	17.48	17.71	17.41	18.00
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	17.82	17.87	17.69	18.50
3	QPSK	1	8	17.59	17.62	17.27	18.50
3	QPSK	1	14	17.47	17.58	17.36	18.50
3	QPSK	8	0	17.70	17.74	17.40	18.50
3	QPSK	8	4	17.55	17.74	17.39	18.50
3	QPSK	8	7	17.62	17.76	17.39	18.50
3	QPSK	15	0	17.49	17.61	17.33	18.50
3	16QAM	1	0	17.69	17.80	17.46	18.50
3	16QAM	1	8	17.71	17.79	17.60	18.50
3	16QAM	1	14	17.68	17.74	17.48	18.50
3	16QAM	8	0	17.56	17.69	17.33	18.50
3	16QAM	8	4	17.67	17.70	17.33	18.50
3	16QAM	8	7	17.59	17.62	17.39	18.50
3	16QAM	15	0	17.62	17.67	17.39	18.50
3	64QAM	1	0	17.74	17.89	17.53	18.50
3	64QAM	1	8	17.65	17.79	17.41	18.50
3	64QAM	1	14	17.48	17.63	17.45	18.50
3	64QAM	8	0	17.61	17.76	17.39	18.50
3	64QAM	8	4	17.62	17.72	17.45	18.50
3	64QAM	8	7	17.55	17.72	17.41	18.50
3	64QAM	15	0	17.57	17.63	17.37	18.50
3	256QAM	1	0	17.56	17.80	17.50	18.00
3	256QAM	1	8	17.59	17.79	17.34	18.00
3	256QAM	1	14	17.49	17.58	17.29	18.00
3	256QAM	8	0	17.60	17.73	17.46	18.00
3	256QAM	8	4	17.64	17.65	17.39	18.00
3	256QAM	8	7	17.45	17.57	17.38	18.00
3	256QAM	15	0	17.55	17.66	17.34	18.00
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	17.88	17.91	17.61	18.50
1.4	QPSK	1	3	17.56	17.69	17.34	18.50
1.4	QPSK	1	5	17.44	17.63	17.34	18.50
1.4	QPSK	3	0	17.63	17.78	17.49	18.50
1.4	QPSK	3	1	17.52	17.69	17.40	18.50
1.4	QPSK	3	3	17.59	17.77	17.37	18.50
1.4	QPSK	6	0	17.40	17.63	17.34	18.50
1.4	16QAM	1	0	17.70	17.84	17.45	18.50
1.4	16QAM	1	3	17.59	17.82	17.61	18.50
1.4	16QAM	1	5	17.70	17.74	17.60	18.50
1.4	16QAM	3	0	17.57	17.74	17.33	18.50
1.4	16QAM	3	1	17.67	17.76	17.30	18.50
1.4	16QAM	3	3	17.61	17.68	17.35	18.50
1.4	16QAM	6	0	17.66	17.70	17.43	18.50
1.4	64QAM	1	0	17.68	17.80	17.48	18.50
1.4	64QAM	1	3	17.60	17.76	17.41	18.50
1.4	64QAM	1	5	17.47	17.64	17.50	18.50
1.4	64QAM	3	0	17.65	17.75	17.35	18.50
1.4	64QAM	3	1	17.65	17.67	17.42	18.50
1.4	64QAM	3	3	17.50	17.75	17.43	18.50
1.4	64QAM	6	0	17.59	17.68	17.28	18.50
1.4	256QAM	1	0	17.61	17.70	17.49	18.00
1.4	256QAM	1	3	17.60	17.71	17.31	18.00
1.4	256QAM	1	5	17.49	17.62	17.29	18.00
1.4	256QAM	3	0	17.58	17.71	17.47	18.00
1.4	256QAM	3	1	17.63	17.72	17.37	18.00
1.4	256QAM	3	3	17.51	17.66	17.30	18.00
1.4	256QAM	6	0	17.53	17.74	17.41	18.00



【LTE Band 5_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.80	23.87	23.67	24.00
10	QPSK	1	25	23.69	23.69	23.59	24.00
10	QPSK	1	49	23.59	23.69	23.64	24.00
10	QPSK	25	0	22.86	22.86	22.78	23.00
10	QPSK	25	12	22.81	22.83	22.73	23.00
10	QPSK	25	25	22.80	22.86	22.70	23.00
10	QPSK	50	0	22.81	22.89	22.80	23.00
10	16QAM	1	0	22.64	22.83	22.61	23.00
10	16QAM	1	25	22.70	22.84	22.55	23.00
10	16QAM	1	49	22.58	22.77	22.46	23.00
10	16QAM	25	0	21.83	21.81	21.79	22.00
10	16QAM	25	12	21.88	21.83	21.78	22.00
10	16QAM	25	25	21.84	21.93	21.78	22.00
10	16QAM	50	0	21.89	21.88	21.72	22.00
10	64QAM	1	0	21.76	21.89	21.68	22.00
10	64QAM	1	25	21.68	21.81	21.49	22.00
10	64QAM	1	49	21.84	21.74	21.80	22.00
10	64QAM	25	0	20.80	20.80	20.73	21.00
10	64QAM	25	12	20.92	20.85	20.73	21.00
10	64QAM	25	25	20.85	20.88	20.78	21.00
10	64QAM	50	0	20.87	20.86	20.81	21.00
10	256QAM	1	0	18.96	18.96	18.93	19.00
10	256QAM	1	25	18.93	18.91	18.85	19.00
10	256QAM	1	49	18.83	18.81	18.62	19.00
10	256QAM	25	0	18.78	18.89	18.76	19.00
10	256QAM	25	12	18.88	18.86	18.73	19.00
10	256QAM	25	25	18.83	18.90	18.73	19.00
10	256QAM	50	0	18.84	18.79	18.77	19.00
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.66	23.75	23.58	24.00
5	QPSK	1	12	23.67	23.64	23.48	24.00
5	QPSK	1	24	23.54	23.64	23.56	24.00
5	QPSK	12	0	22.75	22.82	22.66	23.00
5	QPSK	12	7	22.71	22.69	22.62	23.00
5	QPSK	12	13	22.69	22.84	22.64	23.00
5	QPSK	25	0	22.75	22.84	22.77	23.00
5	16QAM	1	0	22.57	22.70	22.57	23.00
5	16QAM	1	12	22.58	22.82	22.50	23.00
5	16QAM	1	24	22.53	22.63	22.36	23.00
5	16QAM	12	0	21.77	21.77	21.76	22.00
5	16QAM	12	7	21.84	21.68	21.64	22.00
5	16QAM	12	13	21.75	21.85	21.65	22.00
5	16QAM	25	0	21.79	21.85	21.62	22.00
5	64QAM	1	0	21.64	21.82	21.56	22.00
5	64QAM	1	12	21.54	21.79	21.45	22.00
5	64QAM	1	24	21.83	21.61	21.73	22.00
5	64QAM	12	0	20.67	20.68	20.67	21.00
5	64QAM	12	7	20.84	20.75	20.62	21.00
5	64QAM	12	13	20.81	20.77	20.72	21.00
5	64QAM	25	0	20.77	20.80	20.79	21.00
5	256QAM	1	0	18.83	18.92	18.83	19.00
5	256QAM	1	12	18.91	18.89	18.78	19.00
5	256QAM	1	24	18.76	18.67	18.59	19.00
5	256QAM	12	0	18.74	18.78	18.73	19.00
5	256QAM	12	7	18.80	18.73	18.65	19.00
5	256QAM	12	13	18.75	18.78	18.62	19.00
5	256QAM	25	0	18.74	18.74	18.70	19.00
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.75	23.83	23.60	24.00
3	QPSK	1	8	23.55	23.57	23.47	24.00
3	QPSK	1	14	23.56	23.60	23.63	24.00
3	QPSK	8	0	22.76	22.79	22.69	23.00
3	QPSK	8	4	22.72	22.72	22.70	23.00
3	QPSK	8	7	22.79	22.85	22.64	23.00
3	QPSK	15	0	22.67	22.74	22.76	23.00
3	16QAM	1	0	22.56	22.79	22.58	23.00
3	16QAM	1	8	22.62	22.75	22.43	23.00
3	16QAM	1	14	22.53	22.68	22.34	23.00



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3	16QAM	8	0	21.78	21.71	21.69	22.00
3	16QAM	8	4	21.81	21.69	21.71	22.00
3	16QAM	8	7	21.83	21.78	21.76	22.00
3	16QAM	15	0	21.78	21.74	21.64	22.00
3	64QAM	1	0	21.70	21.76	21.65	22.00
3	64QAM	1	8	21.59	21.79	21.38	22.00
3	64QAM	1	14	21.72	21.66	21.69	22.00
3	64QAM	8	0	20.68	20.68	20.65	21.00
3	64QAM	8	4	20.80	20.79	20.65	21.00
3	64QAM	8	7	20.77	20.80	20.72	21.00
3	64QAM	15	0	20.83	20.82	20.70	21.00
3	256QAM	1	0	18.92	18.92	18.87	19.00
3	256QAM	1	8	18.84	18.79	18.71	19.00
3	256QAM	1	14	18.77	18.69	18.58	19.00
3	256QAM	8	0	18.75	18.75	18.69	19.00
3	256QAM	8	4	18.85	18.78	18.70	19.00
3	256QAM	8	7	18.74	18.79	18.67	19.00
3	256QAM	15	0	18.77	18.78	18.76	19.00
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.67	23.81	23.60	24.00
1.4	QPSK	1	3	23.61	23.57	23.44	24.00
1.4	QPSK	1	5	23.57	23.61	23.52	24.00
1.4	QPSK	3	0	23.71	23.85	23.66	24.00
1.4	QPSK	3	1	23.79	23.76	23.62	24.00
1.4	QPSK	3	3	23.70	23.85	23.55	24.00
1.4	QPSK	6	0	22.67	22.79	22.73	23.00
1.4	16QAM	1	0	22.52	22.75	22.55	23.00
1.4	16QAM	1	3	22.63	22.78	22.41	23.00
1.4	16QAM	1	5	22.46	22.73	22.39	23.00
1.4	16QAM	3	0	22.69	22.75	22.76	23.00
1.4	16QAM	3	1	22.80	22.72	22.65	23.00
1.4	16QAM	3	3	22.75	22.79	22.64	23.00
1.4	16QAM	6	0	21.80	21.87	21.69	22.00
1.4	64QAM	1	0	21.64	21.76	21.67	22.00
1.4	64QAM	1	3	21.60	21.68	21.48	22.00
1.4	64QAM	1	5	21.81	21.61	21.68	22.00
1.4	64QAM	3	0	21.68	21.75	21.61	22.00
1.4	64QAM	3	1	21.81	21.81	21.63	22.00
1.4	64QAM	3	3	21.78	21.83	21.72	22.00
1.4	64QAM	6	0	20.77	20.83	20.70	21.00
1.4	256QAM	1	0	18.88	18.92	18.83	19.00
1.4	256QAM	1	3	18.87	18.85	18.80	19.00
1.4	256QAM	1	5	18.77	18.77	18.49	19.00
1.4	256QAM	3	0	18.72	18.80	18.68	19.00
1.4	256QAM	3	1	18.80	18.81	18.60	19.00
1.4	256QAM	3	3	18.75	18.89	18.58	19.00
1.4	256QAM	6	0	18.73	18.67	18.71	19.00

【LTE Band 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	19.29	19.45	19.33	20.00
10	QPSK	1	25	19.16	19.37	19.19	20.00
10	QPSK	1	49	19.07	19.28	19.03	20.00
10	QPSK	25	0	19.23	19.43	19.23	20.00
10	QPSK	25	12	18.98	19.28	19.09	20.00
10	QPSK	25	25	19.06	19.29	19.04	20.00
10	QPSK	50	0	18.97	19.27	19.09	20.00
10	16QAM	1	0	19.20	19.43	19.27	20.00
10	16QAM	1	25	19.13	19.38	19.16	20.00
10	16QAM	1	49	19.13	19.32	19.15	20.00
10	16QAM	25	0	19.09	19.35	19.20	20.00
10	16QAM	25	12	19.08	19.36	19.22	20.00
10	16QAM	25	25	19.06	19.34	19.12	20.00
10	16QAM	50	0	18.99	19.29	19.16	20.00
10	64QAM	1	0	19.12	19.42	19.29	20.00
10	64QAM	1	25	19.16	19.42	19.25	20.00
10	64QAM	1	49	19.12	19.31	19.04	20.00
10	64QAM	25	0	19.09	19.32	19.12	20.00
10	64QAM	25	12	19.06	19.35	19.21	20.00
10	64QAM	25	25	19.06	19.37	19.14	20.00



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10	64QAM	50	0	19.14	19.33	19.07	20.00
10	256QAM	1	0	18.68	18.91	18.68	19.00
10	256QAM	1	25	18.60	18.86	18.72	19.00
10	256QAM	1	49	18.70	18.89	18.73	19.00
10	256QAM	25	0	18.61	18.88	18.72	19.00
10	256QAM	25	12	18.68	18.94	18.72	19.00
10	256QAM	25	25	18.75	18.96	18.83	19.00
10	256QAM	50	0	18.59	18.88	18.61	19.00
Channel				20425	20525	20625	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	(dBm)
5	QPSK	1	0	19.15	19.37	19.21	20.00
5	QPSK	1	12	19.04	19.26	19.08	20.00
5	QPSK	1	24	18.93	19.23	18.95	20.00
5	QPSK	12	0	19.21	19.33	19.22	20.00
5	QPSK	12	7	18.86	19.26	18.98	20.00
5	QPSK	12	13	18.92	19.16	18.99	20.00
5	QPSK	25	0	18.89	19.14	18.95	20.00
5	16QAM	1	0	19.15	19.35	19.13	20.00
5	16QAM	1	12	19.06	19.37	19.10	20.00
5	16QAM	1	24	19.00	19.22	19.12	20.00
5	16QAM	12	0	19.08	19.23	19.10	20.00
5	16QAM	12	7	19.04	19.30	19.09	20.00
5	16QAM	12	13	19.00	19.21	19.00	20.00
5	16QAM	25	0	18.90	19.19	19.01	20.00
5	64QAM	1	0	18.97	19.32	19.24	20.00
5	64QAM	1	12	19.12	19.31	19.23	20.00
5	64QAM	1	24	19.10	19.22	18.94	20.00
5	64QAM	12	0	18.99	19.28	19.05	20.00
5	64QAM	12	7	18.93	19.23	19.11	20.00
5	64QAM	12	13	19.03	19.33	19.10	20.00
5	64QAM	25	0	19.04	19.31	19.02	20.00
5	256QAM	1	0	18.63	18.89	18.65	19.00
5	256QAM	1	12	18.56	18.78	18.63	19.00
5	256QAM	1	24	18.60	18.87	18.68	19.00
5	256QAM	12	0	18.57	18.86	18.62	19.00
5	256QAM	12	7	18.56	18.92	18.64	19.00
5	256QAM	12	13	18.63	18.94	18.71	19.00
5	256QAM	25	0	18.48	18.75	18.56	19.00
Channel				20415	20525	20635	Tune-up limit
Frequency (MHz)				825.5	836.5	847.5	(dBm)
3	QPSK	1	0	19.18	19.40	19.27	20.00
3	QPSK	1	8	19.07	19.31	19.18	20.00
3	QPSK	1	14	19.04	19.18	18.96	20.00
3	QPSK	8	0	19.13	19.40	19.22	20.00
3	QPSK	8	4	18.89	19.22	18.96	20.00
3	QPSK	8	7	18.92	19.17	18.91	20.00
3	QPSK	15	0	18.91	19.22	18.99	20.00
3	16QAM	1	0	19.08	19.35	19.16	20.00
3	16QAM	1	8	19.05	19.32	19.15	20.00
3	16QAM	1	14	19.10	19.26	19.09	20.00
3	16QAM	8	0	19.03	19.31	19.07	20.00
3	16QAM	8	4	19.02	19.33	19.13	20.00
3	16QAM	8	7	18.97	19.31	19.02	20.00
3	16QAM	15	0	18.86	19.26	19.07	20.00
3	64QAM	1	0	19.02	19.37	19.17	20.00
3	64QAM	1	8	19.04	19.36	19.20	20.00
3	64QAM	1	14	18.97	19.22	18.90	20.00
3	64QAM	8	0	19.04	19.27	19.05	20.00
3	64QAM	8	4	19.02	19.34	19.15	20.00
3	64QAM	8	7	18.95	19.24	18.99	20.00
3	64QAM	15	0	19.00	19.28	18.99	20.00
3	256QAM	1	0	18.64	18.76	18.60	19.00
3	256QAM	1	8	18.55	18.84	18.69	19.00
3	256QAM	1	14	18.65	18.86	18.67	19.00
3	256QAM	8	0	18.56	18.83	18.67	19.00
3	256QAM	8	4	18.58	18.89	18.67	19.00
3	256QAM	8	7	18.72	18.83	18.70	19.00
3	256QAM	15	0	18.56	18.81	18.52	19.00
Channel				20407	20525	20643	Tune-up limit
Frequency (MHz)				824.7	836.5	848.3	(dBm)
1.4	QPSK	1	0	19.18	19.33	19.20	20.00
1.4	QPSK	1	3	19.06	19.25	19.13	20.00
1.4	QPSK	1	5	18.97	19.24	18.93	20.00
1.4	QPSK	3	0	19.22	19.37	19.11	20.00
1.4	QPSK	3	1	18.85	19.23	19.03	20.00
1.4	QPSK	3	3	18.96	19.25	19.02	20.00
1.4	QPSK	6	0	18.92	19.19	18.99	20.00
1.4	16QAM	1	0	19.09	19.35	19.19	20.00



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1.4	16QAM	1	3	19.08	19.36	19.08	20.00
1.4	16QAM	1	5	19.12	19.19	19.07	20.00
1.4	16QAM	3	0	18.97	19.33	19.13	20.00
1.4	16QAM	3	1	18.97	19.34	19.18	20.00
1.4	16QAM	3	3	18.92	19.19	18.97	20.00
1.4	16QAM	6	0	18.86	19.14	19.11	20.00
1.4	64QAM	1	0	18.99	19.39	19.27	20.00
1.4	64QAM	1	3	19.14	19.40	19.19	20.00
1.4	64QAM	1	5	19.01	19.24	18.96	20.00
1.4	64QAM	3	0	19.01	19.18	19.08	20.00
1.4	64QAM	3	1	18.95	19.28	19.06	20.00
1.4	64QAM	3	3	18.98	19.31	19.10	20.00
1.4	64QAM	6	0	19.05	19.26	18.97	20.00
1.4	256QAM	1	0	18.60	18.82	18.56	19.00
1.4	256QAM	1	3	18.54	18.82	18.68	19.00
1.4	256QAM	1	5	18.57	18.78	18.63	19.00
1.4	256QAM	3	0	18.47	18.81	18.70	19.00
1.4	256QAM	3	1	18.57	18.86	18.66	19.00
1.4	256QAM	3	3	18.63	18.91	18.73	19.00
1.4	256QAM	6	0	18.48	18.87	18.46	19.00

【LTE Band 7_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.91	22.94	22.84	23.00
20	QPSK	1	49	22.85	22.67	22.83	23.00
20	QPSK	1	99	22.70	22.69	22.82	23.00
20	QPSK	50	0	21.89	21.91	21.88	22.00
20	QPSK	50	24	21.84	21.61	21.87	22.00
20	QPSK	50	50	21.69	21.64	21.85	22.00
20	QPSK	100	0	21.96	21.66	21.97	22.00
20	16QAM	1	0	21.90	21.99	21.87	22.00
20	16QAM	1	49	21.93	21.98	21.81	22.00
20	16QAM	1	99	21.99	21.98	21.92	22.00
20	16QAM	50	0	20.62	20.70	20.97	21.00
20	16QAM	50	24	20.90	20.71	21.00	21.00
20	16QAM	50	50	20.67	20.69	20.84	21.00
20	16QAM	100	0	20.91	20.69	20.95	21.00
20	64QAM	1	0	20.76	20.80	20.68	21.00
20	64QAM	1	49	20.93	20.75	20.53	21.00
20	64QAM	1	99	20.91	20.93	20.72	21.00
20	64QAM	50	0	20.00	19.67	19.95	20.00
20	64QAM	50	24	19.90	19.68	19.93	20.00
20	64QAM	50	50	19.77	19.54	19.92	20.00
20	64QAM	100	0	19.92	19.75	19.97	20.00
20	256QAM	1	0	17.92	17.56	17.37	18.00
20	256QAM	1	49	17.60	17.76	17.55	18.00
20	256QAM	1	99	17.60	17.85	17.64	18.00
20	256QAM	50	0	17.64	17.71	17.48	18.00
20	256QAM	50	24	17.96	17.67	17.94	18.00
20	256QAM	50	50	17.70	17.61	17.90	18.00
20	256QAM	100	0	17.96	17.71	17.98	18.00
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.79	22.86	22.74	23.00
15	QPSK	1	37	22.71	22.63	22.74	23.00
15	QPSK	1	74	22.67	22.54	22.81	23.00
15	QPSK	36	0	21.75	21.83	21.83	22.00
15	QPSK	36	20	21.76	21.47	21.77	22.00
15	QPSK	36	39	21.54	21.57	21.82	22.00
15	QPSK	75	0	21.92	21.56	21.87	22.00
15	16QAM	1	0	21.76	21.90	21.79	22.00
15	16QAM	1	37	21.87	21.92	21.76	22.00
15	16QAM	1	74	21.85	21.96	21.80	22.00
15	16QAM	36	0	20.98	20.64	20.86	21.00
15	16QAM	36	20	20.89	20.58	20.91	21.00
15	16QAM	36	39	20.59	20.65	20.75	21.00
15	16QAM	75	0	20.86	20.68	20.84	21.00
15	64QAM	1	0	20.75	20.71	20.60	21.00
15	64QAM	1	37	20.88	20.65	20.49	21.00
15	64QAM	1	74	20.83	20.83	20.64	21.00
15	64QAM	36	0	19.96	19.61	19.88	20.00



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15	64QAM	36	20	19.82	19.67	19.90	20.00
15	64QAM	36	39	19.72	19.42	19.85	20.00
15	64QAM	75	0	19.89	19.73	19.90	20.00
15	256QAM	1	0	17.84	17.42	17.35	18.00
15	256QAM	1	37	17.52	17.66	17.47	18.00
15	256QAM	1	74	17.51	17.81	17.59	18.00
15	256QAM	36	0	17.52	17.65	17.45	18.00
15	256QAM	36	20	17.83	17.62	17.93	18.00
15	256QAM	36	39	17.63	17.54	17.86	18.00
15	256QAM	75	0	17.83	17.69	17.85	18.00
Channel				20800	21100	21400	Tune-up limit
Frequency (MHz)				2505	2535	2565	(dBm)
10	QPSK	1	0	22.83	22.92	22.69	23.00
10	QPSK	1	25	22.83	22.64	22.74	23.00
10	QPSK	1	49	22.62	22.55	22.75	23.00
10	QPSK	25	0	21.86	21.77	21.82	22.00
10	QPSK	25	12	21.83	21.47	21.76	22.00
10	QPSK	25	25	21.57	21.53	21.72	22.00
10	QPSK	50	0	21.93	21.59	21.95	22.00
10	16QAM	1	0	21.85	21.87	21.81	22.00
10	16QAM	1	25	21.84	21.95	21.68	22.00
10	16QAM	1	49	21.90	21.84	21.90	22.00
10	16QAM	25	0	20.99	20.61	20.83	21.00
10	16QAM	25	12	20.80	20.58	20.96	21.00
10	16QAM	25	25	20.64	20.61	20.81	21.00
10	16QAM	50	0	20.89	20.67	20.93	21.00
10	64QAM	1	0	20.71	20.72	20.63	21.00
10	64QAM	1	25	20.90	20.65	20.46	21.00
10	64QAM	1	49	20.84	20.83	20.71	21.00
10	64QAM	25	0	19.90	19.60	19.82	20.00
10	64QAM	25	12	19.86	19.54	19.88	20.00
10	64QAM	25	25	19.74	19.47	19.83	20.00
10	64QAM	50	0	19.85	19.61	19.85	20.00
10	256QAM	1	0	17.89	17.51	17.29	18.00
10	256QAM	1	25	17.50	17.74	17.53	18.00
10	256QAM	1	49	17.47	17.78	17.55	18.00
10	256QAM	25	0	17.55	17.67	17.37	18.00
10	256QAM	25	12	17.85	17.57	17.81	18.00
10	256QAM	25	25	17.62	17.54	17.77	18.00
10	256QAM	50	0	17.85	17.61	17.96	18.00
Channel				20775	21100	21425	Tune-up limit
Frequency (MHz)				2502.5	2535	2567.5	(dBm)
5	QPSK	1	0	22.77	22.82	22.71	23.00
5	QPSK	1	12	22.76	22.54	22.77	23.00
5	QPSK	1	24	22.68	22.61	22.79	23.00
5	QPSK	12	0	21.86	21.86	21.78	22.00
5	QPSK	12	7	21.75	21.56	21.75	22.00
5	QPSK	12	13	21.56	21.54	21.80	22.00
5	QPSK	25	0	21.81	21.55	21.92	22.00
5	16QAM	1	0	21.82	21.92	21.74	22.00
5	16QAM	1	12	21.91	21.92	21.73	22.00
5	16QAM	1	24	21.86	21.93	21.91	22.00
5	16QAM	12	0	20.92	20.58	20.95	21.00
5	16QAM	12	7	20.83	20.59	20.95	21.00
5	16QAM	12	13	20.52	20.62	20.74	21.00
5	16QAM	25	0	20.89	20.55	20.82	21.00
5	64QAM	1	0	20.73	20.69	20.57	21.00
5	64QAM	1	12	20.89	20.74	20.46	21.00
5	64QAM	1	24	20.85	20.88	20.58	21.00
5	64QAM	12	0	19.93	19.58	19.82	20.00
5	64QAM	12	7	19.81	19.55	19.84	20.00
5	64QAM	12	13	19.68	19.52	19.88	20.00
5	64QAM	25	0	19.84	19.65	19.93	20.00
5	256QAM	1	0	17.89	17.49	17.31	18.00
5	256QAM	1	12	17.55	17.69	17.47	18.00
5	256QAM	1	24	17.56	17.70	17.52	18.00
5	256QAM	12	0	17.51	17.67	17.44	18.00
5	256QAM	12	7	17.94	17.62	17.87	18.00
5	256QAM	12	13	17.68	17.56	17.76	18.00
5	256QAM	25	0	17.89	17.59	17.90	18.00



【LTE Band 7_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	15.70	15.88	15.57	16.00
20	QPSK	1	49	15.52	15.72	15.39	16.00
20	QPSK	1	99	15.44	15.77	15.42	16.00
20	QPSK	50	0	15.58	15.80	15.42	16.00
20	QPSK	50	24	15.48	15.77	15.37	16.00
20	QPSK	50	50	15.38	15.70	15.26	16.00
20	QPSK	100	0	15.43	15.72	15.32	16.00
20	16QAM	1	0	15.55	15.85	15.39	16.00
20	16QAM	1	49	15.63	15.83	15.38	16.00
20	16QAM	1	99	15.52	15.82	15.49	16.00
20	16QAM	50	0	15.52	15.74	15.39	16.00
20	16QAM	50	24	15.50	15.76	15.44	16.00
20	16QAM	50	50	15.43	15.75	15.30	16.00
20	16QAM	100	0	15.46	15.74	15.29	16.00
20	64QAM	1	0	15.58	15.78	15.33	16.00
20	64QAM	1	49	15.49	15.79	15.42	16.00
20	64QAM	1	99	15.62	15.82	15.38	16.00
20	64QAM	50	0	15.42	15.73	15.39	16.00
20	64QAM	50	24	15.54	15.74	15.29	16.00
20	64QAM	50	50	15.45	15.64	15.32	16.00
20	64QAM	100	0	15.52	15.75	15.42	16.00
20	256QAM	1	0	15.47	15.67	15.32	16.00
20	256QAM	1	49	15.58	15.78	15.41	16.00
20	256QAM	1	99	15.32	15.57	15.16	16.00
20	256QAM	50	0	15.41	15.71	15.35	16.00
20	256QAM	50	24	15.52	15.75	15.35	16.00
20	256QAM	50	50	15.39	15.66	15.28	16.00
20	256QAM	100	0	15.40	15.72	15.31	16.00
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	15.55	15.87	15.55	16.00
15	QPSK	1	37	15.45	15.64	15.36	16.00
15	QPSK	1	74	15.37	15.64	15.30	16.00
15	QPSK	36	0	15.56	15.77	15.35	16.00
15	QPSK	36	20	15.43	15.71	15.39	16.00
15	QPSK	36	39	15.27	15.63	15.19	16.00
15	QPSK	75	0	15.32	15.71	15.25	16.00
15	16QAM	1	0	15.41	15.82	15.35	16.00
15	16QAM	1	37	15.57	15.71	15.30	16.00
15	16QAM	1	74	15.43	15.72	15.45	16.00
15	16QAM	36	0	15.42	15.72	15.24	16.00
15	16QAM	36	20	15.36	15.74	15.30	16.00
15	16QAM	36	39	15.39	15.73	15.16	16.00
15	16QAM	75	0	15.44	15.60	15.15	16.00
15	64QAM	1	0	15.45	15.71	15.22	16.00
15	64QAM	1	37	15.46	15.70	15.35	16.00
15	64QAM	1	74	15.54	15.74	15.28	16.00
15	64QAM	36	0	15.34	15.64	15.28	16.00
15	64QAM	36	20	15.53	15.61	15.26	16.00
15	64QAM	36	39	15.32	15.52	15.27	16.00
15	64QAM	75	0	15.44	15.60	15.39	16.00
15	256QAM	1	0	15.40	15.54	15.23	16.00
15	256QAM	1	37	15.48	15.65	15.32	16.00
15	256QAM	1	74	15.29	15.55	15.06	16.00
15	256QAM	36	0	15.34	15.57	15.31	16.00
15	256QAM	36	20	15.42	15.61	15.26	16.00
15	256QAM	36	39	15.35	15.61	15.22	16.00
15	256QAM	75	0	15.33	15.70	15.16	16.00
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	15.61	15.77	15.48	16.00
10	QPSK	1	25	15.44	15.68	15.30	16.00
10	QPSK	1	49	15.35	15.70	15.35	16.00
10	QPSK	25	0	15.50	15.78	15.33	16.00
10	QPSK	25	12	15.47	15.73	15.33	16.00
10	QPSK	25	25	15.31	15.60	15.21	16.00
10	QPSK	50	0	15.33	15.67	15.27	16.00
10	16QAM	1	0	15.53	15.80	15.33	16.00
10	16QAM	1	25	15.49	15.71	15.25	16.00
10	16QAM	1	49	15.46	15.76	15.35	16.00



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10	16QAM	25	0	15.42	15.65	15.27	16.00
10	16QAM	25	12	15.36	15.64	15.34	16.00
10	16QAM	25	25	15.41	15.63	15.22	16.00
10	16QAM	50	0	15.36	15.62	15.24	16.00
10	64QAM	1	0	15.49	15.67	15.27	16.00
10	64QAM	1	25	15.43	15.70	15.30	16.00
10	64QAM	1	49	15.60	15.75	15.26	16.00
10	64QAM	25	0	15.40	15.62	15.30	16.00
10	64QAM	25	12	15.42	15.63	15.20	16.00
10	64QAM	25	25	15.32	15.57	15.29	16.00
10	64QAM	50	0	15.47	15.71	15.38	16.00
10	256QAM	1	0	15.39	15.60	15.27	16.00
10	256QAM	1	25	15.56	15.65	15.36	16.00
10	256QAM	1	49	15.19	15.55	15.09	16.00
10	256QAM	25	0	15.27	15.62	15.30	16.00
10	256QAM	25	12	15.44	15.61	15.22	16.00
10	256QAM	25	25	15.37	15.51	15.15	16.00
10	256QAM	50	0	15.30	15.70	15.26	16.00
Channel				20775	21100	21425	Tune-up limit
Frequency (MHz)				2502.5	2535	2567.5	(dBm)
5	QPSK	1	0	15.56	15.84	15.45	16.00
5	QPSK	1	12	15.40	15.59	15.35	16.00
5	QPSK	1	24	15.36	15.66	15.32	16.00
5	QPSK	12	0	15.55	15.78	15.23	16.00
5	QPSK	12	7	15.36	15.71	15.36	16.00
5	QPSK	12	13	15.25	15.56	15.16	16.00
5	QPSK	25	0	15.40	15.63	15.19	16.00
5	16QAM	1	0	15.41	15.74	15.31	16.00
5	16QAM	1	12	15.61	15.69	15.29	16.00
5	16QAM	1	24	15.38	15.70	15.45	16.00
5	16QAM	12	0	15.50	15.65	15.25	16.00
5	16QAM	12	7	15.42	15.68	15.36	16.00
5	16QAM	12	13	15.42	15.62	15.18	16.00
5	16QAM	25	0	15.44	15.60	15.26	16.00
5	64QAM	1	0	15.57	15.63	15.27	16.00
5	64QAM	1	12	15.46	15.72	15.33	16.00
5	64QAM	1	24	15.55	15.72	15.32	16.00
5	64QAM	12	0	15.38	15.63	15.38	16.00
5	64QAM	12	7	15.45	15.63	15.15	16.00
5	64QAM	12	13	15.31	15.52	15.20	16.00
5	64QAM	25	0	15.37	15.65	15.36	16.00
5	256QAM	1	0	15.44	15.62	15.29	16.00
5	256QAM	1	12	15.50	15.66	15.36	16.00
5	256QAM	1	24	15.19	15.56	15.14	16.00
5	256QAM	12	0	15.36	15.57	15.32	16.00
5	256QAM	12	7	15.40	15.71	15.29	16.00
5	256QAM	12	13	15.31	15.55	15.25	16.00
5	256QAM	25	0	15.39	15.65	15.27	16.00



【LTE Band 12_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.82	23.87	23.84	24.00
10	QPSK	1	25	23.79	23.84	23.79	24.00
10	QPSK	1	49	23.68	23.70	23.78	24.00
10	QPSK	25	0	22.93	22.98	22.93	23.00
10	QPSK	25	12	22.90	22.88	22.89	23.00
10	QPSK	25	25	22.85	22.89	22.87	23.00
10	QPSK	50	0	22.97	22.87	22.98	23.00
10	16QAM	1	0	22.79	22.99	22.91	23.00
10	16QAM	1	25	22.77	22.96	22.90	23.00
10	16QAM	1	49	22.70	22.81	22.71	23.00
10	16QAM	25	0	21.86	21.84	21.87	22.00
10	16QAM	25	12	21.95	21.88	21.97	22.00
10	16QAM	25	25	21.83	21.97	21.91	22.00
10	16QAM	50	0	21.91	21.85	21.98	22.00
10	64QAM	1	0	21.90	21.99	21.84	22.00
10	64QAM	1	25	21.81	21.97	21.81	22.00
10	64QAM	1	49	21.95	22.00	21.94	22.00
10	64QAM	25	0	20.95	20.91	20.94	21.00
10	64QAM	25	12	20.97	20.89	20.97	21.00
10	64QAM	25	25	20.95	20.92	20.94	21.00
10	64QAM	50	0	20.94	20.88	20.94	21.00
10	256QAM	1	0	18.93	18.94	18.82	19.00
10	256QAM	1	25	18.93	18.98	18.86	19.00
10	256QAM	1	49	18.83	18.95	18.88	19.00
10	256QAM	25	0	18.89	18.89	18.96	19.00
10	256QAM	25	12	18.97	18.90	18.98	19.00
10	256QAM	25	25	18.91	18.87	18.93	19.00
10	256QAM	50	0	18.87	18.90	18.96	19.00
Channel				23035	23095	23115	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.78	23.83	23.76	24.00
5	QPSK	1	12	23.74	23.78	23.67	24.00
5	QPSK	1	24	23.66	23.62	23.65	24.00
5	QPSK	12	0	22.91	22.90	22.85	23.00
5	QPSK	12	7	22.87	22.81	22.79	23.00
5	QPSK	12	13	22.72	22.87	22.77	23.00
5	QPSK	25	0	22.85	22.82	22.85	23.00
5	16QAM	1	0	22.74	22.95	22.87	23.00
5	16QAM	1	12	22.62	22.89	22.88	23.00
5	16QAM	1	24	22.65	22.70	22.68	23.00
5	16QAM	12	0	21.73	21.73	21.74	22.00
5	16QAM	12	7	21.83	21.87	21.91	22.00
5	16QAM	12	13	21.77	21.85	21.84	22.00
5	16QAM	25	0	21.81	21.71	21.95	22.00
5	64QAM	1	0	21.81	21.86	21.75	22.00
5	64QAM	1	12	21.78	21.92	21.69	22.00
5	64QAM	1	24	21.92	21.90	21.86	22.00
5	64QAM	12	0	20.93	20.77	20.89	21.00
5	64QAM	12	7	20.83	20.78	20.94	21.00
5	64QAM	12	13	20.92	20.78	20.88	21.00
5	64QAM	25	0	20.80	20.84	20.82	21.00
5	256QAM	1	0	18.85	18.85	18.79	19.00
5	256QAM	1	12	18.80	18.89	18.78	19.00
5	256QAM	1	24	18.76	18.87	18.86	19.00
5	256QAM	12	0	18.86	18.76	18.83	19.00
5	256QAM	12	7	18.86	18.85	18.83	19.00
5	256QAM	12	13	18.89	18.77	18.87	19.00
5	256QAM	25	0	18.85	18.81	18.82	19.00
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.80	23.86	23.72	24.00
3	QPSK	1	8	23.68	23.74	23.68	24.00
3	QPSK	1	14	23.59	23.66	23.64	24.00
3	QPSK	8	0	22.82	22.89	22.91	23.00
3	QPSK	8	4	22.87	22.83	22.83	23.00
3	QPSK	8	7	22.74	22.75	22.84	23.00
3	QPSK	15	0	22.83	22.78	22.94	23.00
3	16QAM	1	0	22.78	22.85	22.86	23.00
3	16QAM	1	8	22.69	22.84	22.77	23.00
3	16QAM	1	14	22.67	22.75	22.69	23.00



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3	16QAM	8	0	21.82	21.82	21.85	22.00
3	16QAM	8	4	21.92	21.86	21.88	22.00
3	16QAM	8	7	21.79	21.96	21.76	22.00
3	16QAM	15	0	21.80	21.70	21.90	22.00
3	64QAM	1	0	21.82	21.97	21.74	22.00
3	64QAM	1	8	21.76	21.87	21.75	22.00
3	64QAM	1	14	21.89	21.93	21.91	22.00
3	64QAM	8	0	20.91	20.88	20.90	21.00
3	64QAM	8	4	20.92	20.75	20.89	21.00
3	64QAM	8	7	20.94	20.88	20.89	21.00
3	64QAM	15	0	20.91	20.85	20.83	21.00
3	256QAM	1	0	18.84	18.81	18.68	19.00
3	256QAM	1	8	18.84	18.86	18.79	19.00
3	256QAM	1	14	18.69	18.90	18.80	19.00
3	256QAM	8	0	18.86	18.75	18.93	19.00
3	256QAM	8	4	18.95	18.84	18.86	19.00
3	256QAM	8	7	18.79	18.84	18.85	19.00
3	256QAM	15	0	18.83	18.77	18.90	19.00
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.68	23.82	23.75	24.00
1.4	QPSK	1	3	23.69	23.78	23.74	24.00
1.4	QPSK	1	5	23.59	23.68	23.64	24.00
1.4	QPSK	3	0	23.82	23.85	23.84	24.00
1.4	QPSK	3	1	23.78	23.85	23.84	24.00
1.4	QPSK	3	3	23.73	23.75	23.82	24.00
1.4	QPSK	6	0	22.96	22.76	22.86	23.00
1.4	16QAM	1	0	22.68	22.90	22.80	23.00
1.4	16QAM	1	3	22.72	22.86	22.75	23.00
1.4	16QAM	1	5	22.60	22.68	22.63	23.00
1.4	16QAM	3	0	22.76	22.72	22.84	23.00
1.4	16QAM	3	1	22.93	22.79	22.86	23.00
1.4	16QAM	3	3	22.75	22.95	22.85	23.00
1.4	16QAM	6	0	21.87	21.81	21.96	22.00
1.4	64QAM	1	0	21.80	21.86	21.74	22.00
1.4	64QAM	1	3	21.72	21.90	21.70	22.00
1.4	64QAM	1	5	21.82	21.90	21.90	22.00
1.4	64QAM	3	0	21.81	21.77	21.88	22.00
1.4	64QAM	3	1	21.91	21.78	21.88	22.00
1.4	64QAM	3	3	21.90	21.86	21.84	22.00
1.4	64QAM	6	0	20.83	20.79	20.80	21.00
1.4	256QAM	1	0	18.81	18.91	18.74	19.00
1.4	256QAM	1	3	18.90	18.86	18.80	19.00
1.4	256QAM	1	5	18.71	18.82	18.75	19.00
1.4	256QAM	3	0	18.82	18.77	18.94	19.00
1.4	256QAM	3	1	18.87	18.80	18.92	19.00
1.4	256QAM	3	3	18.77	18.78	18.87	19.00
1.4	256QAM	6	0	18.78	18.77	18.90	19.00

**【LTE Band 12_Tablet】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	21.18	21.27	21.23	21.50
10	QPSK	1	25	20.93	21.15	20.98	21.50
10	QPSK	1	49	20.91	21.11	21.01	21.50
10	QPSK	25	0	21.14	21.24	21.17	21.50
10	QPSK	25	12	21.02	21.21	21.14	21.50
10	QPSK	25	25	20.97	21.20	21.10	21.50
10	QPSK	50	0	21.02	21.18	21.06	21.50
10	16QAM	1	0	21.14	21.24	21.12	21.50
10	16QAM	1	25	21.04	21.15	21.04	21.50
10	16QAM	1	49	20.84	21.02	20.96	21.50
10	16QAM	25	0	21.06	21.25	21.11	21.50
10	16QAM	25	12	21.12	21.24	21.06	21.50
10	16QAM	25	25	21.18	21.23	21.15	21.50
10	16QAM	50	0	20.96	21.17	21.04	21.50
10	64QAM	1	0	21.06	21.21	21.03	21.50
10	64QAM	1	25	21.03	21.18	21.13	21.50
10	64QAM	1	49	20.97	21.18	21.01	21.50
10	64QAM	25	0	20.78	20.93	20.82	21.00
10	64QAM	25	12	20.67	20.85	20.80	21.00
10	64QAM	25	25	20.77	20.92	20.74	21.00
10	64QAM	50	0	20.75	20.86	20.73	21.00
10	256QAM	1	0	18.73	18.94	18.84	19.00
10	256QAM	1	25	18.70	18.91	18.76	19.00
10	256QAM	1	49	18.78	18.94	18.87	19.00
10	256QAM	25	0	18.70	18.89	18.79	19.00
10	256QAM	25	12	18.66	18.82	18.72	19.00
10	256QAM	25	25	18.69	18.79	18.69	19.00
10	256QAM	50	0	18.57	18.80	18.65	19.00
Channel				23035	23095	23115	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	21.12	21.23	21.17	21.50
5	QPSK	1	12	20.86	21.13	20.85	21.50
5	QPSK	1	24	20.80	21.09	20.94	21.50
5	QPSK	12	0	21.02	21.14	21.02	21.50
5	QPSK	12	7	20.97	21.14	21.13	21.50
5	QPSK	12	13	20.94	21.19	21.08	21.50
5	QPSK	25	0	20.87	21.06	20.93	21.50
5	16QAM	1	0	21.11	21.23	20.98	21.50
5	16QAM	1	12	20.94	21.08	21.00	21.50
5	16QAM	1	24	20.77	20.92	20.88	21.50
5	16QAM	12	0	20.93	21.22	21.05	21.50
5	16QAM	12	7	21.04	21.14	20.91	21.50
5	16QAM	12	13	21.10	21.22	21.13	21.50
5	16QAM	25	0	20.89	21.05	20.90	21.50
5	64QAM	1	0	21.03	21.09	20.95	21.50
5	64QAM	1	12	21.01	21.10	21.11	21.50
5	64QAM	1	24	20.88	21.14	20.98	21.50
5	64QAM	12	0	20.67	20.80	20.79	21.00
5	64QAM	12	7	20.62	20.77	20.74	21.00
5	64QAM	12	13	20.75	20.83	20.65	21.00
5	64QAM	25	0	20.72	20.84	20.61	21.00
5	256QAM	1	0	18.66	18.91	18.79	19.00
5	256QAM	1	12	18.55	18.79	18.75	19.00
5	256QAM	1	24	18.64	18.86	18.79	19.00
5	256QAM	12	0	18.69	18.79	18.65	19.00
5	256QAM	12	7	18.55	18.77	18.70	19.00
5	256QAM	12	13	18.58	18.72	18.68	19.00
5	256QAM	25	0	18.50	18.76	18.55	19.00
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	21.07	21.15	21.19	21.50
3	QPSK	1	8	20.82	21.13	20.95	21.50
3	QPSK	1	14	20.84	21.09	20.96	21.50
3	QPSK	8	0	21.01	21.11	21.15	21.50
3	QPSK	8	4	20.98	21.19	21.11	21.50
3	QPSK	8	7	20.87	21.14	20.97	21.50
3	QPSK	15	0	21.00	21.04	21.00	21.50
3	16QAM	1	0	21.01	21.14	20.97	21.50
3	16QAM	1	8	20.98	21.13	21.01	21.50
3	16QAM	1	14	20.80	20.89	20.93	21.50



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3	16QAM	8	0	21.05	21.21	21.02	21.50
3	16QAM	8	4	21.05	21.19	21.05	21.50
3	16QAM	8	7	21.07	21.21	21.01	21.50
3	16QAM	15	0	20.89	21.10	20.94	21.50
3	64QAM	1	0	20.98	21.14	20.88	21.50
3	64QAM	1	8	20.96	21.05	21.06	21.50
3	64QAM	1	14	20.90	21.09	20.92	21.50
3	64QAM	8	0	20.71	20.84	20.79	21.00
3	64QAM	8	4	20.62	20.82	20.71	21.00
3	64QAM	8	7	20.75	20.87	20.71	21.00
3	64QAM	15	0	20.73	20.81	20.61	21.00
3	256QAM	1	0	18.61	18.89	18.77	19.00
3	256QAM	1	8	18.62	18.82	18.65	19.00
3	256QAM	1	14	18.75	18.87	18.85	19.00
3	256QAM	8	0	18.67	18.78	18.68	19.00
3	256QAM	8	4	18.51	18.73	18.62	19.00
3	256QAM	8	7	18.66	18.67	18.54	19.00
3	256QAM	15	0	18.51	18.69	18.53	19.00
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	21.05	21.17	21.13	21.50
1.4	QPSK	1	3	20.84	21.05	20.90	21.50
1.4	QPSK	1	5	20.89	21.05	20.97	21.50
1.4	QPSK	3	0	21.00	21.14	21.12	21.50
1.4	QPSK	3	1	20.88	21.16	21.11	21.50
1.4	QPSK	3	3	20.96	21.09	21.02	21.50
1.4	QPSK	6	0	20.96	21.11	21.03	21.50
1.4	16QAM	1	0	21.10	21.12	21.03	21.50
1.4	16QAM	1	3	20.91	21.11	20.90	21.50
1.4	16QAM	1	5	20.76	20.99	20.92	21.50
1.4	16QAM	3	0	21.01	21.20	21.09	21.50
1.4	16QAM	3	1	21.01	21.15	20.93	21.50
1.4	16QAM	3	3	21.16	21.26	21.11	21.50
1.4	16QAM	6	0	20.90	21.08	20.91	21.50
1.4	64QAM	1	0	21.03	21.16	20.96	21.50
1.4	64QAM	1	3	21.01	21.10	21.03	21.50
1.4	64QAM	1	5	20.93	21.08	20.99	21.50
1.4	64QAM	3	0	21.18	21.27	21.23	21.50
1.4	64QAM	3	1	21.12	21.24	21.23	21.50
1.4	64QAM	3	3	21.17	21.26	21.12	21.50
1.4	64QAM	6	0	20.60	20.81	20.63	21.00
1.4	256QAM	1	0	18.70	18.90	18.75	19.00
1.4	256QAM	1	3	18.63	18.87	18.66	19.00
1.4	256QAM	1	5	18.68	18.86	18.73	19.00
1.4	256QAM	3	0	18.55	18.80	18.75	19.00
1.4	256QAM	3	1	18.61	18.77	18.58	19.00
1.4	256QAM	3	3	18.66	18.64	18.64	19.00
1.4	256QAM	6	0	18.48	18.73	18.64	19.00

**【LTE Band 13_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23230		Tune-up limit (dBm)
Frequency (MHz)					782		
10	QPSK	1	0		23.89		24.00
10	QPSK	1	25		23.87		24.00
10	QPSK	1	49		23.69		24.00
10	QPSK	25	0		22.86		23.00
10	QPSK	25	12		22.81		23.00
10	QPSK	25	25		22.78		23.00
10	QPSK	50	0		22.82		23.00
10	16QAM	1	0		22.97		23.00
10	16QAM	1	25		22.92		23.00
10	16QAM	1	49		22.91		23.00
10	16QAM	25	0		21.91		22.00
10	16QAM	25	12		21.87		22.00
10	16QAM	25	25		21.77		22.00
10	16QAM	50	0		21.82		22.00
10	64QAM	1	0		21.93		22.00
10	64QAM	1	25		21.84		22.00
10	64QAM	1	49		21.84		22.00
10	64QAM	25	0		20.88		21.00
10	64QAM	25	12		20.87		21.00
10	64QAM	25	25		20.75		21.00
10	64QAM	50	0		20.84		21.00
10	256QAM	1	0		18.99		19.00
10	256QAM	1	25		18.90		19.00
10	256QAM	1	49		18.85		19.00
10	256QAM	25	0		18.93		19.00
10	256QAM	25	12		18.88		19.00
10	256QAM	25	25		18.72		19.00
10	256QAM	50	0		18.90		19.00
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.78	23.83	23.80	24.00
5	QPSK	1	12	23.62	23.77	23.76	24.00
5	QPSK	1	24	23.49	23.61	23.49	24.00
5	QPSK	12	0	22.55	22.70	22.67	23.00
5	QPSK	12	7	22.55	22.61	22.62	23.00
5	QPSK	12	13	22.47	22.61	22.56	23.00
5	QPSK	25	0	22.60	22.75	22.72	23.00
5	16QAM	1	0	22.70	22.84	22.87	23.00
5	16QAM	1	12	22.61	22.73	22.70	23.00
5	16QAM	1	24	22.67	22.75	22.76	23.00
5	16QAM	12	0	21.62	21.71	21.74	22.00
5	16QAM	12	7	21.48	21.67	21.67	22.00
5	16QAM	12	13	21.45	21.58	21.56	22.00
5	16QAM	25	0	21.60	21.75	21.72	22.00
5	64QAM	1	0	21.60	21.77	21.70	22.00
5	64QAM	1	12	21.63	21.77	21.70	22.00
5	64QAM	1	24	21.51	21.64	21.62	22.00
5	64QAM	12	0	20.74	20.81	20.75	21.00
5	64QAM	12	7	20.58	20.77	20.67	21.00
5	64QAM	12	13	20.57	20.66	20.56	21.00
5	64QAM	25	0	20.58	20.69	20.73	21.00
5	256QAM	1	0	18.80	18.90	18.88	19.00
5	256QAM	1	12	18.58	18.76	18.77	19.00
5	256QAM	1	24	18.67	18.75	18.75	19.00
5	256QAM	12	0	18.60	18.79	18.83	19.00
5	256QAM	12	7	18.63	18.81	18.76	19.00
5	256QAM	12	13	18.50	18.61	18.55	19.00
5	256QAM	25	0	18.66	18.82	18.69	19.00

**【LTE Band 13_Tablet】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23230		
Frequency (MHz)					782		
10	QPSK	1	0		19.28		19.50
10	QPSK	1	25		19.09		19.50
10	QPSK	1	49		19.07		19.50
10	QPSK	25	0		19.31		19.50
10	QPSK	25	12		19.15		19.50
10	QPSK	25	25		19.13		19.50
10	QPSK	50	0		19.12		19.50
10	16QAM	1	0		19.17		19.50
10	16QAM	1	25		19.02		19.50
10	16QAM	1	49		19.08		19.50
10	16QAM	25	0		19.15		19.50
10	16QAM	25	12		19.06		19.50
10	16QAM	25	25		18.91		19.50
10	16QAM	50	0		19.04		19.50
10	64QAM	1	0		19.23		19.50
10	64QAM	1	25		19.07		19.50
10	64QAM	1	49		19.14		19.50
10	64QAM	25	0		19.23		19.50
10	64QAM	25	12		19.12		19.50
10	64QAM	25	25		19.00		19.50
10	64QAM	50	0		19.10		19.50
10	256QAM	1	0		18.99		19.00
10	256QAM	1	25		18.85		19.00
10	256QAM	1	49		18.78		19.00
10	256QAM	25	0		18.87		19.00
10	256QAM	25	12		18.84		19.00
10	256QAM	25	25		18.71		19.00
10	256QAM	50	0		18.82		19.00
Channel				23205	23230	23255	Tune-up limit
Frequency (MHz)				779.5	782	784.5	(dBm)
5	QPSK	1	0	19.20	19.26	19.23	19.50
5	QPSK	1	12	18.81	18.99	18.83	19.50
5	QPSK	1	24	18.82	19.01	18.90	19.50
5	QPSK	12	0	19.07	19.21	19.08	19.50
5	QPSK	12	7	19.01	19.11	19.05	19.50
5	QPSK	12	13	18.87	19.07	18.92	19.50
5	QPSK	25	0	18.87	18.98	18.92	19.50
5	16QAM	1	0	18.81	19.01	18.93	19.50
5	16QAM	1	12	18.87	18.97	18.80	19.50
5	16QAM	1	24	18.84	18.92	18.74	19.50
5	16QAM	12	0	18.91	19.07	18.93	19.50
5	16QAM	12	7	18.87	18.97	18.87	19.50
5	16QAM	12	13	18.78	18.87	18.74	19.50
5	16QAM	25	0	18.75	18.90	18.80	19.50
5	64QAM	1	0	18.94	19.14	19.01	19.50
5	64QAM	1	12	18.91	19.00	18.89	19.50
5	64QAM	1	24	18.90	19.00	18.86	19.50
5	64QAM	12	0	19.07	19.16	19.03	19.50
5	64QAM	12	7	18.91	19.05	18.96	19.50
5	64QAM	12	13	18.64	18.84	18.75	19.50
5	64QAM	25	0	18.82	18.99	18.88	19.50
5	256QAM	1	0	18.79	18.94	18.79	19.00
5	256QAM	1	12	18.62	18.75	18.61	19.00
5	256QAM	1	24	18.57	18.74	18.65	19.00
5	256QAM	12	0	18.60	18.73	18.63	19.00
5	256QAM	12	7	18.65	18.72	18.61	19.00
5	256QAM	12	13	18.56	18.64	18.47	19.00
5	256QAM	25	0	18.56	18.72	18.60	19.00

**【LTE Band 14_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23330		Tune-up limit (dBm)
Frequency (MHz)					793		
10	QPSK	1	0		23.78		24.00
10	QPSK	1	25		23.73		24.00
10	QPSK	1	49		23.63		24.00
10	QPSK	25	0		22.83		23.00
10	QPSK	25	12		22.78		23.00
10	QPSK	25	25		22.77		23.00
10	QPSK	50	0		22.75		23.00
10	16QAM	1	0		22.89		23.00
10	16QAM	1	25		22.84		23.00
10	16QAM	1	49		22.92		23.00
10	16QAM	25	0		21.78		22.00
10	16QAM	25	12		21.86		22.00
10	16QAM	25	25		21.83		22.00
10	16QAM	50	0		21.83		22.00
10	64QAM	1	0		21.96		22.00
10	64QAM	1	25		21.89		22.00
10	64QAM	1	49		21.92		22.00
10	64QAM	25	0		20.80		21.00
10	64QAM	25	12		20.76		21.00
10	64QAM	25	25		20.76		21.00
10	64QAM	50	0		20.86		21.00
10	256QAM	1	0		18.93		19.00
10	256QAM	1	25		18.95		19.00
10	256QAM	1	49		18.81		19.00
10	256QAM	25	0		18.85		19.00
10	256QAM	25	12		18.81		19.00
10	256QAM	25	25		18.82		19.00
10	256QAM	50	0		18.83		19.00
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	23.71	23.75	23.68	24.00
5	QPSK	1	12	23.63	23.61	23.45	24.00
5	QPSK	1	24	23.47	23.58	23.44	24.00
5	QPSK	12	0	22.66	22.66	22.46	23.00
5	QPSK	12	7	22.59	22.65	22.52	23.00
5	QPSK	12	13	22.68	22.65	22.44	23.00
5	QPSK	25	0	22.61	22.71	22.59	23.00
5	16QAM	1	0	22.73	22.76	22.55	23.00
5	16QAM	1	12	22.64	22.69	22.61	23.00
5	16QAM	1	24	22.79	22.85	22.70	23.00
5	16QAM	12	0	21.66	21.71	21.53	22.00
5	16QAM	12	7	21.76	21.70	21.52	22.00
5	16QAM	12	13	21.66	21.77	21.61	22.00
5	16QAM	25	0	21.69	21.79	21.61	22.00
5	64QAM	1	0	21.81	21.82	21.68	22.00
5	64QAM	1	12	21.70	21.73	21.52	22.00
5	64QAM	1	24	21.78	21.86	21.67	22.00
5	64QAM	12	0	20.63	20.76	20.60	21.00
5	64QAM	12	7	20.55	20.61	20.45	21.00
5	64QAM	12	13	20.66	20.68	20.59	21.00
5	64QAM	25	0	20.76	20.75	20.61	21.00
5	256QAM	1	0	18.77	18.87	18.80	19.00
5	256QAM	1	12	18.76	18.84	18.71	19.00
5	256QAM	1	24	18.62	18.76	18.58	19.00
5	256QAM	12	0	18.73	18.76	18.57	19.00
5	256QAM	12	7	18.64	18.76	18.64	19.00
5	256QAM	12	13	18.70	18.74	18.66	19.00
5	256QAM	25	0	18.72	18.77	18.67	19.00

**【LTE Band 14_Tablet】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23330		Tune-up limit (dBm)
Frequency (MHz)					793		
10	QPSK	1	0		20.25		20.50
10	QPSK	1	25		20.12		20.50
10	QPSK	1	49		19.93		20.50
10	QPSK	25	0		20.14		20.50
10	QPSK	25	12		20.11		20.50
10	QPSK	25	25		20.11		20.50
10	QPSK	50	0		20.07		20.50
10	16QAM	1	0		20.14		20.50
10	16QAM	1	25		20.01		20.50
10	16QAM	1	49		20.11		20.50
10	16QAM	25	0		20.20		20.50
10	16QAM	25	12		20.17		20.50
10	16QAM	25	25		20.15		20.50
10	16QAM	50	0		20.24		20.50
10	64QAM	1	0		20.20		20.50
10	64QAM	1	25		20.07		20.50
10	64QAM	1	49		20.06		20.50
10	64QAM	25	0		20.19		20.50
10	64QAM	25	12		20.11		20.50
10	64QAM	25	25		20.06		20.50
10	64QAM	50	0		20.19		20.50
10	256QAM	1	0		18.93		19.00
10	256QAM	1	25		18.89		19.00
10	256QAM	1	49		18.80		19.00
10	256QAM	25	0		18.76		19.00
10	256QAM	25	12		18.76		19.00
10	256QAM	25	25		18.78		19.00
10	256QAM	50	0		18.75		19.00
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	20.20	20.22	20.17	20.50
5	QPSK	1	12	20.01	19.99	19.91	20.50
5	QPSK	1	24	19.74	19.76	19.58	20.50
5	QPSK	12	0	20.02	20.06	19.88	20.50
5	QPSK	12	7	19.95	20.00	19.90	20.50
5	QPSK	12	13	19.94	20.04	19.84	20.50
5	QPSK	25	0	19.88	19.94	19.75	20.50
5	16QAM	1	0	20.07	19.97	19.88	20.50
5	16QAM	1	12	19.93	19.94	19.74	20.50
5	16QAM	1	24	19.94	19.96	19.83	20.50
5	16QAM	12	0	20.14	20.02	19.93	20.50
5	16QAM	12	7	20.19	20.10	19.96	20.50
5	16QAM	12	13	20.00	20.02	19.92	20.50
5	16QAM	25	0	20.07	20.13	19.96	20.50
5	64QAM	1	0	20.14	20.12	19.93	20.50
5	64QAM	1	12	19.91	19.95	19.78	20.50
5	64QAM	1	24	19.88	19.90	19.71	20.50
5	64QAM	12	0	20.05	20.01	19.94	20.50
5	64QAM	12	7	20.04	20.05	19.95	20.50
5	64QAM	12	13	20.00	19.94	19.81	20.50
5	64QAM	25	0	20.04	20.15	20.06	20.50
5	256QAM	1	0	18.83	18.82	18.73	19.00
5	256QAM	1	12	18.71	18.77	18.70	19.00
5	256QAM	1	24	18.64	18.72	18.65	19.00
5	256QAM	12	0	18.66	18.62	18.43	19.00
5	256QAM	12	7	18.65	18.61	18.46	19.00
5	256QAM	12	13	18.66	18.66	18.56	19.00
5	256QAM	25	0	18.59	18.65	18.54	19.00

**【LTE Band 17_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	Tune-up limit (dBm)
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.85	23.90	23.87	24.00
10	QPSK	1	25	23.77	23.82	23.80	24.00
10	QPSK	1	49	23.76	23.76	23.71	24.00
10	QPSK	25	0	22.91	22.93	22.89	23.00
10	QPSK	25	12	22.90	22.86	22.85	23.00
10	QPSK	25	25	22.89	22.89	22.88	23.00
10	QPSK	50	0	22.87	22.86	22.96	23.00
10	16QAM	1	0	22.66	22.91	22.87	23.00
10	16QAM	1	25	22.65	22.91	22.84	23.00
10	16QAM	1	49	22.58	22.82	22.67	23.00
10	16QAM	25	0	21.91	21.93	21.94	22.00
10	16QAM	25	12	21.79	21.94	21.90	22.00
10	16QAM	25	25	21.93	21.92	21.84	22.00
10	16QAM	50	0	21.93	21.91	21.90	22.00
10	64QAM	1	0	21.69	21.92	21.81	22.00
10	64QAM	1	25	21.67	21.89	21.80	22.00
10	64QAM	1	49	21.75	21.91	21.84	22.00
10	64QAM	25	0	20.91	21.00	20.92	21.00
10	64QAM	25	12	20.97	20.94	20.91	21.00
10	64QAM	25	25	20.97	20.94	20.94	21.00
10	64QAM	50	0	20.84	20.95	20.85	21.00
10	256QAM	1	0	18.86	18.92	18.95	19.00
10	256QAM	1	25	18.69	18.92	18.82	19.00
10	256QAM	1	49	18.92	18.80	18.96	19.00
10	256QAM	25	0	18.99	18.90	18.95	19.00
10	256QAM	25	12	18.80	18.95	18.87	19.00
10	256QAM	25	25	18.94	18.89	18.97	19.00
10	256QAM	50	0	18.92	18.87	18.92	19.00
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.68	23.81	23.76	24.00
5	QPSK	1	12	23.77	23.76	23.79	24.00
5	QPSK	1	24	23.71	23.74	23.61	24.00
5	QPSK	12	0	22.77	22.87	22.76	23.00
5	QPSK	12	7	22.89	22.79	22.81	23.00
5	QPSK	12	13	22.83	22.84	22.80	23.00
5	QPSK	25	0	22.84	22.72	22.94	23.00
5	16QAM	1	0	22.62	22.79	22.81	23.00
5	16QAM	1	12	22.51	22.78	22.80	23.00
5	16QAM	1	24	22.55	22.71	22.57	23.00
5	16QAM	12	0	21.86	21.89	21.85	22.00
5	16QAM	12	7	21.70	21.87	21.85	22.00
5	16QAM	12	13	21.80	21.84	21.80	22.00
5	16QAM	25	0	21.79	21.85	21.78	22.00
5	64QAM	1	0	21.61	21.90	21.68	22.00
5	64QAM	1	12	21.60	21.76	21.76	22.00
5	64QAM	1	24	21.67	21.77	21.71	22.00
5	64QAM	12	0	20.76	20.86	20.82	21.00
5	64QAM	12	7	20.84	20.87	20.81	21.00
5	64QAM	12	13	20.87	20.82	20.93	21.00
5	64QAM	25	0	20.81	20.88	20.70	21.00
5	256QAM	1	0	18.73	18.78	18.92	19.00
5	256QAM	1	12	18.56	18.79	18.80	19.00
5	256QAM	1	24	18.84	18.67	18.88	19.00
5	256QAM	12	0	18.91	18.85	18.84	19.00
5	256QAM	12	7	18.71	18.85	18.78	19.00
5	256QAM	12	13	18.89	18.82	18.86	19.00
5	256QAM	25	0	18.89	18.79	18.86	19.00

**【LTE Band 17_Tablet】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	Tune-up limit (dBm)
Frequency (MHz)				709	710	711	
10	QPSK	1	0	21.08	21.29	21.13	21.50
10	QPSK	1	25	20.89	21.19	20.92	21.50
10	QPSK	1	49	20.90	21.16	20.95	21.50
10	QPSK	25	0	21.00	21.26	21.04	21.50
10	QPSK	25	12	20.98	21.25	20.99	21.50
10	QPSK	25	25	20.98	21.24	21.03	21.50
10	QPSK	50	0	20.95	21.23	20.98	21.50
10	16QAM	1	0	20.90	21.22	20.99	21.50
10	16QAM	1	25	20.90	21.20	20.96	21.50
10	16QAM	1	49	20.72	21.07	20.89	21.50
10	16QAM	25	0	20.88	21.20	20.93	21.50
10	16QAM	25	12	20.82	21.13	20.90	21.50
10	16QAM	25	25	20.78	21.13	20.88	21.50
10	16QAM	50	0	20.93	21.17	20.88	21.50
10	64QAM	1	0	20.93	21.28	20.99	21.50
10	64QAM	1	25	20.93	21.23	21.06	21.50
10	64QAM	1	49	20.98	21.23	21.01	21.50
10	64QAM	25	0	20.71	21.00	20.83	21.00
10	64QAM	25	12	20.56	20.87	20.65	21.00
10	64QAM	25	25	20.59	20.91	20.72	21.00
10	64QAM	50	0	20.69	20.95	20.72	21.00
10	256QAM	1	0	18.62	18.92	18.69	19.00
10	256QAM	1	25	18.66	18.90	18.70	19.00
10	256QAM	1	49	18.54	18.79	18.53	19.00
10	256QAM	25	0	18.59	18.81	18.53	19.00
10	256QAM	25	12	18.61	18.91	18.64	19.00
10	256QAM	25	25	18.54	18.79	18.50	19.00
10	256QAM	50	0	18.57	18.77	18.49	19.00
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	21.02	21.23	21.04	21.50
5	QPSK	1	12	20.84	21.05	20.80	21.50
5	QPSK	1	24	20.81	21.01	20.90	21.50
5	QPSK	12	0	20.87	21.21	20.93	21.50
5	QPSK	12	7	20.87	21.23	21.02	21.50
5	QPSK	12	13	20.84	21.23	20.93	21.50
5	QPSK	25	0	20.84	21.13	20.94	21.50
5	16QAM	1	0	20.86	21.21	20.92	21.50
5	16QAM	1	12	20.89	21.16	20.87	21.50
5	16QAM	1	24	20.60	21.03	20.74	21.50
5	16QAM	12	0	20.74	21.17	20.80	21.50
5	16QAM	12	7	20.70	21.11	20.79	21.50
5	16QAM	12	13	20.73	21.01	20.79	21.50
5	16QAM	25	0	20.90	21.06	20.79	21.50
5	64QAM	1	0	20.87	21.25	20.84	21.50
5	64QAM	1	12	20.90	21.20	21.00	21.50
5	64QAM	1	24	20.93	21.13	20.90	21.50
5	64QAM	12	0	20.58	20.96	20.69	21.00
5	64QAM	12	7	20.46	20.84	20.62	21.00
5	64QAM	12	13	20.50	20.89	20.62	21.00
5	64QAM	25	0	20.66	20.91	20.67	21.00
5	256QAM	1	0	18.49	18.83	18.61	19.00
5	256QAM	1	12	18.55	18.79	18.57	19.00
5	256QAM	1	24	18.51	18.69	18.45	19.00
5	256QAM	12	0	18.47	18.72	18.41	19.00
5	256QAM	12	7	18.53	18.80	18.51	19.00
5	256QAM	12	13	18.50	18.72	18.43	19.00
5	256QAM	25	0	18.42	18.67	18.39	19.00



【LTE Band 25_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	22.40	22.46	22.43	23.00
20	QPSK	1	49	22.39	22.44	22.38	23.00
20	QPSK	1	99	22.39	22.39	22.30	23.00
20	QPSK	50	0	21.42	21.67	21.46	22.00
20	QPSK	50	24	21.39	21.55	21.40	22.00
20	QPSK	50	50	21.34	21.63	21.27	22.00
20	QPSK	100	0	21.43	21.51	21.49	22.00
20	16QAM	1	0	21.57	21.84	21.64	22.00
20	16QAM	1	49	21.71	21.96	21.64	22.00
20	16QAM	1	99	21.65	21.87	21.43	22.00
20	16QAM	50	0	20.35	20.51	20.42	21.00
20	16QAM	50	24	20.43	20.67	20.40	21.00
20	16QAM	50	50	20.35	20.62	20.22	21.00
20	16QAM	100	0	20.43	20.49	20.51	21.00
20	64QAM	1	0	20.35	20.47	20.62	21.00
20	64QAM	1	49	20.44	20.65	20.73	21.00
20	64QAM	1	99	20.70	20.79	20.55	21.00
20	64QAM	50	0	19.35	19.50	19.47	20.00
20	64QAM	50	24	19.31	19.63	19.35	20.00
20	64QAM	50	50	19.43	19.53	19.24	20.00
20	64QAM	100	0	19.41	19.49	19.39	20.00
20	256QAM	1	0	17.19	17.51	17.28	18.00
20	256QAM	1	49	17.44	17.69	17.43	18.00
20	256QAM	1	99	17.37	17.40	17.21	18.00
20	256QAM	50	0	17.26	17.50	17.38	18.00
20	256QAM	50	24	17.50	17.60	17.47	18.00
20	256QAM	50	50	17.33	17.56	17.28	18.00
20	256QAM	100	0	17.39	17.46	17.45	18.00
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	22.34	22.39	22.36	23.00
15	QPSK	1	37	22.29	22.31	22.30	23.00
15	QPSK	1	74	22.36	22.37	22.19	23.00
15	QPSK	36	0	21.38	21.63	21.44	22.00
15	QPSK	36	20	21.31	21.40	21.28	22.00
15	QPSK	36	39	21.21	21.60	21.23	22.00
15	QPSK	75	0	21.33	21.47	21.39	22.00
15	16QAM	1	0	21.49	21.83	21.50	22.00
15	16QAM	1	37	21.66	21.83	21.53	22.00
15	16QAM	1	74	21.53	21.85	21.33	22.00
15	16QAM	36	0	20.34	20.43	20.31	21.00
15	16QAM	36	20	20.35	20.54	20.26	21.00
15	16QAM	36	39	20.27	20.51	20.13	21.00
15	16QAM	75	0	20.40	20.38	20.44	21.00
15	64QAM	1	0	20.33	20.32	20.56	21.00
15	64QAM	1	37	20.35	20.62	20.72	21.00
15	64QAM	1	74	20.66	20.70	20.47	21.00
15	64QAM	36	0	19.23	19.37	19.42	20.00
15	64QAM	36	20	19.25	19.56	19.33	20.00
15	64QAM	36	39	19.33	19.50	19.15	20.00
15	64QAM	75	0	19.35	19.41	19.31	20.00
15	256QAM	1	0	17.17	17.47	17.20	18.00
15	256QAM	1	37	17.42	17.65	17.32	18.00
15	256QAM	1	74	17.30	17.35	17.06	18.00
15	256QAM	36	0	17.11	17.38	17.30	18.00
15	256QAM	36	20	17.38	17.48	17.44	18.00
15	256QAM	36	39	17.32	17.41	17.25	18.00
15	256QAM	75	0	17.30	17.43	17.40	18.00
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	22.27	22.42	22.32	23.00
10	QPSK	1	25	22.29	22.31	22.24	23.00
10	QPSK	1	49	22.26	22.31	22.25	23.00
10	QPSK	25	0	21.28	21.56	21.44	22.00
10	QPSK	25	12	21.35	21.53	21.28	22.00
10	QPSK	25	25	21.24	21.55	21.24	22.00
10	QPSK	50	0	21.33	21.44	21.44	22.00
10	16QAM	1	0	21.44	21.77	21.62	22.00
10	16QAM	1	25	21.57	21.92	21.61	22.00
10	16QAM	1	49	21.56	21.79	21.36	22.00



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10	16QAM	25	0	20.29	20.38	20.39	21.00
10	16QAM	25	12	20.38	20.59	20.25	21.00
10	16QAM	25	25	20.31	20.52	20.13	21.00
10	16QAM	50	0	20.32	20.36	20.38	21.00
10	64QAM	1	0	20.21	20.39	20.51	21.00
10	64QAM	1	25	20.36	20.62	20.68	21.00
10	64QAM	1	49	20.62	20.78	20.42	21.00
10	64QAM	25	0	19.33	19.42	19.36	20.00
10	64QAM	25	12	19.29	19.51	19.23	20.00
10	64QAM	25	25	19.41	19.45	19.20	20.00
10	64QAM	50	0	19.39	19.44	19.36	20.00
10	256QAM	1	0	17.12	17.43	17.20	18.00
10	256QAM	1	25	17.40	17.64	17.37	18.00
10	256QAM	1	49	17.27	17.31	17.18	18.00
10	256QAM	25	0	17.19	17.43	17.27	18.00
10	256QAM	25	12	17.40	17.47	17.46	18.00
10	256QAM	25	25	17.18	17.52	17.19	18.00
10	256QAM	50	0	17.37	17.33	17.31	18.00
Channel				26065	26340	26665	Tune-up limit
Frequency (MHz)				1852.5	1880	1912.5	(dBm)
5	QPSK	1	0	22.32	22.44	22.30	23.00
5	QPSK	1	12	22.26	22.34	22.28	23.00
5	QPSK	1	24	22.24	22.36	22.25	23.00
5	QPSK	12	0	21.30	21.56	21.45	22.00
5	QPSK	12	7	21.35	21.52	21.34	22.00
5	QPSK	12	13	21.20	21.52	21.18	22.00
5	QPSK	25	0	21.29	21.42	21.43	22.00
5	16QAM	1	0	21.46	21.78	21.50	22.00
5	16QAM	1	12	21.65	21.86	21.53	22.00
5	16QAM	1	24	21.55	21.82	21.40	22.00
5	16QAM	12	0	20.26	20.39	20.32	21.00
5	16QAM	12	7	20.30	20.54	20.37	21.00
5	16QAM	12	13	20.29	20.49	20.15	21.00
5	16QAM	25	0	20.35	20.41	20.46	21.00
5	64QAM	1	0	20.28	20.44	20.57	21.00
5	64QAM	1	12	20.35	20.64	20.67	21.00
5	64QAM	1	24	20.69	20.67	20.49	21.00
5	64QAM	12	0	19.27	19.42	19.35	20.00
5	64QAM	12	7	19.30	19.51	19.30	20.00
5	64QAM	12	13	19.34	19.44	19.16	20.00
5	64QAM	25	0	19.29	19.48	19.31	20.00
5	256QAM	1	0	17.08	17.39	17.16	18.00
5	256QAM	1	12	17.34	17.64	17.29	18.00
5	256QAM	1	24	17.30	17.31	17.16	18.00
5	256QAM	12	0	17.15	17.49	17.26	18.00
5	256QAM	12	7	17.39	17.55	17.38	18.00
5	256QAM	12	13	17.24	17.48	17.22	18.00
5	256QAM	25	0	17.29	17.35	17.42	18.00
Channel				26055	26340	26675	Tune-up limit
Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	22.30	22.43	22.29	23.00
3	QPSK	1	8	22.27	22.29	22.36	23.00
3	QPSK	1	14	22.34	22.37	22.24	23.00
3	QPSK	8	0	21.34	21.58	21.40	22.00
3	QPSK	8	4	21.25	21.45	21.30	22.00
3	QPSK	8	7	21.25	21.60	21.17	22.00
3	QPSK	15	0	21.37	21.42	21.45	22.00
3	16QAM	1	0	21.44	21.75	21.61	22.00
3	16QAM	1	8	21.59	21.82	21.60	22.00
3	16QAM	1	14	21.54	21.75	21.29	22.00
3	16QAM	8	0	20.29	20.45	20.36	21.00
3	16QAM	8	4	20.39	20.62	20.37	21.00
3	16QAM	8	7	20.24	20.52	20.13	21.00
3	16QAM	15	0	20.41	20.39	20.39	21.00
3	64QAM	1	0	20.30	20.33	20.52	21.00
3	64QAM	1	8	20.30	20.61	20.72	21.00
3	64QAM	1	14	20.67	20.77	20.51	21.00
3	64QAM	8	0	19.28	19.45	19.36	20.00
3	64QAM	8	4	19.23	19.53	19.20	20.00
3	64QAM	8	7	19.40	19.43	19.11	20.00
3	64QAM	15	0	19.29	19.40	19.31	20.00
3	256QAM	1	0	17.11	17.45	17.14	18.00
3	256QAM	1	8	17.42	17.66	17.39	18.00
3	256QAM	1	14	17.25	17.26	17.10	18.00
3	256QAM	8	0	17.14	17.38	17.37	18.00
3	256QAM	8	4	17.36	17.58	17.36	18.00
3	256QAM	8	7	17.25	17.42	17.24	18.00
3	256QAM	15	0	17.34	17.41	17.36	18.00



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Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	22.35	22.32	22.42	23.00
1.4	QPSK	1	3	22.34	22.42	22.34	23.00
1.4	QPSK	1	5	22.25	22.28	22.24	23.00
1.4	QPSK	3	0	22.37	22.46	22.34	23.00
1.4	QPSK	3	1	22.29	22.43	22.30	23.00
1.4	QPSK	3	3	22.25	22.46	22.22	23.00
1.4	QPSK	6	0	21.38	21.39	21.44	22.00
1.4	16QAM	1	0	21.53	21.77	21.61	22.00
1.4	16QAM	1	3	21.61	21.94	21.62	22.00
1.4	16QAM	1	5	21.59	21.76	21.38	22.00
1.4	16QAM	3	0	21.26	21.48	21.41	22.00
1.4	16QAM	3	1	21.38	21.56	21.31	22.00
1.4	16QAM	3	3	21.26	21.47	21.17	22.00
1.4	16QAM	6	0	20.34	20.41	20.48	21.00
1.4	64QAM	1	0	20.24	20.36	20.48	21.00
1.4	64QAM	1	3	20.39	20.61	20.59	21.00
1.4	64QAM	1	5	20.68	20.68	20.48	21.00
1.4	64QAM	3	0	20.30	20.39	20.44	21.00
1.4	64QAM	3	1	20.24	20.58	20.21	21.00
1.4	64QAM	3	3	20.32	20.48	20.21	21.00
1.4	64QAM	6	0	19.32	19.37	19.36	20.00
1.4	256QAM	1	0	17.08	17.43	17.14	18.00
1.4	256QAM	1	3	17.40	17.64	17.36	18.00
1.4	256QAM	1	5	17.33	17.35	17.12	18.00
1.4	256QAM	3	0	17.18	17.40	17.33	18.00
1.4	256QAM	3	1	17.40	17.57	17.41	18.00
1.4	256QAM	3	3	17.23	17.50	17.18	18.00
1.4	256QAM	6	0	17.31	17.37	17.38	18.00

【LTE Band 25_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	18.38	18.66	18.43	19.00
20	QPSK	1	49	18.18	18.56	18.24	19.00
20	QPSK	1	99	18.11	18.53	18.26	19.00
20	QPSK	50	0	18.18	18.51	18.22	19.00
20	QPSK	50	24	18.07	18.47	18.16	19.00
20	QPSK	50	50	18.09	18.49	18.19	19.00
20	QPSK	100	0	18.12	18.48	18.13	19.00
20	16QAM	1	0	18.31	18.62	18.27	19.00
20	16QAM	1	49	18.26	18.59	18.26	19.00
20	16QAM	1	99	18.11	18.49	18.24	19.00
20	16QAM	50	0	18.15	18.44	18.07	19.00
20	16QAM	50	24	17.97	18.38	18.12	19.00
20	16QAM	50	50	18.01	18.33	18.07	19.00
20	16QAM	100	0	17.99	18.33	18.03	19.00
20	64QAM	1	0	18.24	18.59	18.23	19.00
20	64QAM	1	49	18.07	18.46	18.19	19.00
20	64QAM	1	99	18.25	18.54	18.25	19.00
20	64QAM	50	0	18.14	18.46	18.18	19.00
20	64QAM	50	24	18.11	18.40	18.16	19.00
20	64QAM	50	50	18.02	18.33	18.03	19.00
20	64QAM	100	0	18.10	18.39	18.10	19.00
20	256QAM	1	0	17.03	17.43	17.18	18.00
20	256QAM	1	49	16.95	17.33	16.97	18.00
20	256QAM	1	99	16.98	17.30	16.98	18.00
20	256QAM	50	0	17.02	17.31	16.98	18.00
20	256QAM	50	24	17.11	17.44	17.11	18.00
20	256QAM	50	50	16.93	17.30	17.00	18.00
20	256QAM	100	0	17.10	17.37	17.14	18.00
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	18.31	18.54	18.40	19.00
15	QPSK	1	37	18.14	18.54	18.17	19.00
15	QPSK	1	74	18.07	18.50	18.16	19.00
15	QPSK	36	0	18.07	18.42	18.14	19.00
15	QPSK	36	20	17.97	18.45	18.10	19.00
15	QPSK	36	39	18.12	18.41	18.16	19.00
15	QPSK	75	0	18.08	18.41	18.11	19.00
15	16QAM	1	0	18.30	18.53	18.23	19.00



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15	16QAM	1	37	18.23	18.53	18.18	19.00
15	16QAM	1	74	18.09	18.41	18.15	19.00
15	16QAM	36	0	18.07	18.33	18.01	19.00
15	16QAM	36	20	17.93	18.37	18.01	19.00
15	16QAM	36	39	17.92	18.28	17.93	19.00
15	16QAM	75	0	17.86	18.22	18.02	19.00
15	64QAM	1	0	18.15	18.49	18.21	19.00
15	64QAM	1	37	17.92	18.41	18.16	19.00
15	64QAM	1	74	18.14	18.51	18.21	19.00
15	64QAM	36	0	18.09	18.37	18.12	19.00
15	64QAM	36	20	18.00	18.30	18.07	19.00
15	64QAM	36	39	17.97	18.25	17.94	19.00
15	64QAM	75	0	18.04	18.27	17.97	19.00
15	256QAM	1	0	17.02	17.28	17.11	18.00
15	256QAM	1	37	16.83	17.32	16.94	18.00
15	256QAM	1	74	16.90	17.22	16.84	18.00
15	256QAM	36	0	16.91	17.21	16.95	18.00
15	256QAM	36	20	16.98	17.41	17.07	18.00
15	256QAM	36	39	16.79	17.24	16.92	18.00
15	256QAM	75	0	17.08	17.22	17.03	18.00
Channel				26090	26340	26640	Tune-up limit
Frequency (MHz)				1855	1880	1910	(dBm)
10	QPSK	1	0	18.24	18.53	18.28	19.00
10	QPSK	1	25	18.05	18.48	18.20	19.00
10	QPSK	1	49	18.05	18.49	18.21	19.00
10	QPSK	25	0	18.05	18.40	18.10	19.00
10	QPSK	25	12	18.04	18.36	18.08	19.00
10	QPSK	25	25	18.11	18.44	18.10	19.00
10	QPSK	50	0	18.09	18.42	18.08	19.00
10	16QAM	1	0	18.29	18.52	18.18	19.00
10	16QAM	1	25	18.21	18.55	18.17	19.00
10	16QAM	1	49	17.97	18.38	18.20	19.00
10	16QAM	25	0	18.12	18.32	18.05	19.00
10	16QAM	25	12	17.88	18.29	18.05	19.00
10	16QAM	25	25	18.00	18.21	18.05	19.00
10	16QAM	50	0	17.88	18.30	17.92	19.00
10	64QAM	1	0	18.18	18.55	18.21	19.00
10	64QAM	1	25	18.01	18.31	18.12	19.00
10	64QAM	1	49	18.15	18.51	18.11	19.00
10	64QAM	25	0	18.09	18.34	18.14	19.00
10	64QAM	25	12	18.10	18.36	18.05	19.00
10	64QAM	25	25	17.90	18.21	17.96	19.00
10	64QAM	50	0	18.01	18.29	17.96	19.00
10	256QAM	1	0	16.88	17.33	17.16	18.00
10	256QAM	1	25	16.81	17.22	16.90	18.00
10	256QAM	1	49	16.95	17.15	16.83	18.00
10	256QAM	25	0	16.90	17.20	16.85	18.00
10	256QAM	25	12	17.02	17.34	16.99	18.00
10	256QAM	25	25	16.88	17.17	16.88	18.00
10	256QAM	50	0	17.08	17.33	17.00	18.00
Channel				26065	26340	26665	Tune-up limit
Frequency (MHz)				1852.5	1880	1912.5	(dBm)
5	QPSK	1	0	18.35	18.60	18.39	19.00
5	QPSK	1	12	18.12	18.49	18.17	19.00
5	QPSK	1	24	18.08	18.46	18.25	19.00
5	QPSK	12	0	18.02	18.43	18.16	19.00
5	QPSK	12	7	18.00	18.46	18.06	19.00
5	QPSK	12	13	18.16	18.36	18.08	19.00
5	QPSK	25	0	18.06	18.37	18.09	19.00
5	16QAM	1	0	18.21	18.55	18.19	19.00
5	16QAM	1	12	18.20	18.49	18.22	19.00
5	16QAM	1	24	18.03	18.36	18.13	19.00
5	16QAM	12	0	18.06	18.39	17.97	19.00
5	16QAM	12	7	17.83	18.35	18.11	19.00
5	16QAM	12	13	18.00	18.25	18.00	19.00
5	16QAM	25	0	17.93	18.29	17.93	19.00
5	64QAM	1	0	18.14	18.53	18.11	19.00
5	64QAM	1	12	18.01	18.43	18.05	19.00
5	64QAM	1	24	18.12	18.39	18.17	19.00
5	64QAM	12	0	18.09	18.44	18.09	19.00
5	64QAM	12	7	18.02	18.34	18.12	19.00
5	64QAM	12	13	17.91	18.27	17.90	19.00
5	64QAM	25	0	18.05	18.34	18.07	19.00
5	256QAM	1	0	16.99	17.30	17.16	18.00
5	256QAM	1	12	16.93	17.24	16.94	18.00
5	256QAM	1	24	16.84	17.19	16.88	18.00
5	256QAM	12	0	16.90	17.30	16.93	18.00
5	256QAM	12	7	17.06	17.40	17.04	18.00



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5	256QAM	12	13	16.85	17.25	16.90	18.00
5	256QAM	25	0	17.06	17.25	17.02	18.00
Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	18.34	18.61	18.35	19.00
3	QPSK	1	8	18.05	18.47	18.22	19.00
3	QPSK	1	14	18.02	18.51	18.13	19.00
3	QPSK	8	0	17.96	18.45	18.14	19.00
3	QPSK	8	4	18.04	18.35	18.04	19.00
3	QPSK	8	7	18.13	18.35	18.05	19.00
3	QPSK	15	0	18.07	18.34	18.02	19.00
3	16QAM	1	0	18.17	18.49	18.20	19.00
3	16QAM	1	8	18.13	18.50	18.24	19.00
3	16QAM	1	14	18.02	18.36	18.12	19.00
3	16QAM	8	0	18.14	18.41	17.93	19.00
3	16QAM	8	4	17.96	18.30	18.08	19.00
3	16QAM	8	7	17.97	18.24	17.93	19.00
3	16QAM	15	0	17.89	18.26	18.01	19.00
3	64QAM	1	0	18.15	18.49	18.19	19.00
3	64QAM	1	8	18.05	18.35	18.15	19.00
3	64QAM	1	14	18.18	18.41	18.15	19.00
3	64QAM	8	0	18.00	18.34	18.03	19.00
3	64QAM	8	4	18.06	18.37	18.08	19.00
3	64QAM	8	7	17.88	18.29	17.94	19.00
3	64QAM	15	0	17.99	18.27	18.09	19.00
3	256QAM	1	0	16.97	17.33	17.05	18.00
3	256QAM	1	8	16.80	17.20	16.88	18.00
3	256QAM	1	14	16.96	17.15	16.87	18.00
3	256QAM	8	0	16.95	17.21	16.91	18.00
3	256QAM	8	4	16.97	17.36	17.03	18.00
3	256QAM	8	7	16.86	17.28	16.89	18.00
3	256QAM	15	0	17.04	17.25	17.08	18.00
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	18.29	18.54	18.41	19.00
1.4	QPSK	1	3	18.10	18.46	18.12	19.00
1.4	QPSK	1	5	18.06	18.42	18.14	19.00
1.4	QPSK	3	0	17.99	18.50	18.17	19.00
1.4	QPSK	3	1	17.96	18.41	18.05	19.00
1.4	QPSK	3	3	18.05	18.46	18.07	19.00
1.4	QPSK	6	0	18.08	18.34	18.02	19.00
1.4	16QAM	1	0	18.27	18.51	18.16	19.00
1.4	16QAM	1	3	18.15	18.58	18.22	19.00
1.4	16QAM	1	5	18.04	18.37	18.15	19.00
1.4	16QAM	3	0	18.03	18.41	17.98	19.00
1.4	16QAM	3	1	17.89	18.30	18.01	19.00
1.4	16QAM	3	3	17.93	18.20	17.97	19.00
1.4	16QAM	6	0	17.85	18.21	17.89	19.00
1.4	64QAM	1	0	18.13	18.57	18.21	19.00
1.4	64QAM	1	3	18.00	18.35	18.15	19.00
1.4	64QAM	1	5	18.18	18.52	18.21	19.00
1.4	64QAM	3	0	18.08	18.37	18.11	19.00
1.4	64QAM	3	1	18.00	18.29	18.14	19.00
1.4	64QAM	3	3	17.99	18.24	18.01	19.00
1.4	64QAM	6	0	18.03	18.33	18.04	19.00
1.4	256QAM	1	0	16.96	17.34	17.17	18.00
1.4	256QAM	1	3	16.82	17.21	16.87	18.00
1.4	256QAM	1	5	16.88	17.18	16.91	18.00
1.4	256QAM	3	0	16.90	17.16	16.92	18.00
1.4	256QAM	3	1	17.01	17.34	17.00	18.00
1.4	256QAM	3	3	16.83	17.15	16.89	18.00
1.4	256QAM	6	0	17.07	17.25	17.11	18.00



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【LTE Band 26_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	23.83	23.87	23.73	24.00
15	QPSK	1	37	23.81	23.78	23.68	24.00
15	QPSK	1	74	23.64	23.79	23.60	24.00
15	QPSK	36	0	22.85	22.95	22.91	23.00
15	QPSK	36	20	22.82	22.85	22.85	23.00
15	QPSK	36	39	22.82	22.87	22.82	23.00
15	QPSK	75	0	22.80	22.85	22.84	23.00
15	16QAM	1	0	22.92	22.94	22.92	23.00
15	16QAM	1	37	22.81	22.91	22.65	23.00
15	16QAM	1	74	22.88	22.94	22.88	23.00
15	16QAM	36	0	21.82	21.81	21.81	22.00
15	16QAM	36	20	21.87	21.88	21.88	22.00
15	16QAM	36	39	21.83	21.94	21.90	22.00
15	16QAM	75	0	21.81	21.83	21.88	22.00
15	64QAM	1	0	21.92	21.92	21.65	22.00
15	64QAM	1	37	21.77	21.93	21.78	22.00
15	64QAM	1	74	21.67	21.83	21.98	22.00
15	64QAM	36	0	20.83	20.87	20.78	21.00
15	64QAM	36	20	20.87	20.90	20.87	21.00
15	64QAM	36	39	20.83	20.93	20.90	21.00
15	64QAM	75	0	20.82	20.93	20.86	21.00
15	256QAM	1	0	18.85	18.98	18.98	19.00
15	256QAM	1	37	18.91	18.93	18.99	19.00
15	256QAM	1	74	18.86	18.93	18.89	19.00
15	256QAM	36	0	18.77	19.00	18.80	19.00
15	256QAM	36	20	18.90	18.89	18.93	19.00
15	256QAM	36	39	18.74	18.89	18.82	19.00
15	256QAM	75	0	18.88	18.85	18.95	19.00
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.74	23.85	23.60	24.00
10	QPSK	1	25	23.70	23.69	23.62	24.00
10	QPSK	1	49	23.50	23.71	23.58	24.00
10	QPSK	25	0	22.73	22.86	22.90	23.00
10	QPSK	25	12	22.79	22.73	22.80	23.00
10	QPSK	25	25	22.70	22.83	22.77	23.00
10	QPSK	50	0	22.78	22.77	22.79	23.00
10	16QAM	1	0	22.86	22.82	22.80	23.00
10	16QAM	1	25	22.78	22.79	22.54	23.00
10	16QAM	1	49	22.83	22.88	22.83	23.00
10	16QAM	25	0	21.73	21.70	21.71	22.00
10	16QAM	25	12	21.74	21.81	21.81	22.00
10	16QAM	25	25	21.80	21.93	21.82	22.00
10	16QAM	50	0	21.70	21.76	21.73	22.00
10	64QAM	1	0	21.78	21.85	21.60	22.00
10	64QAM	1	25	21.67	21.88	21.74	22.00
10	64QAM	1	49	21.53	21.82	21.87	22.00
10	64QAM	25	0	20.76	20.80	20.77	21.00
10	64QAM	25	12	20.75	20.85	20.74	21.00
10	64QAM	25	25	20.71	20.83	20.88	21.00
10	64QAM	50	0	20.73	20.83	20.83	21.00
10	256QAM	1	0	18.74	18.90	18.91	19.00
10	256QAM	1	25	18.83	18.79	18.88	19.00
10	256QAM	1	49	18.77	18.79	18.74	19.00
10	256QAM	25	0	18.72	18.90	18.74	19.00
10	256QAM	25	12	18.81	18.81	18.89	19.00
10	256QAM	25	25	18.69	18.76	18.80	19.00
10	256QAM	50	0	18.73	18.81	18.92	19.00
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.73	23.85	23.59	24.00
5	QPSK	1	12	23.75	23.71	23.57	24.00
5	QPSK	1	24	23.58	23.69	23.58	24.00
5	QPSK	12	0	22.73	22.82	22.81	23.00
5	QPSK	12	7	22.80	22.75	22.82	23.00
5	QPSK	12	13	22.77	22.80	22.76	23.00
5	QPSK	25	0	22.70	22.78	22.77	23.00
5	16QAM	1	0	22.80	22.88	22.90	23.00
5	16QAM	1	12	22.73	22.83	22.64	23.00
5	16QAM	1	24	22.82	22.82	22.76	23.00
5	16QAM	12	0	21.67	21.78	21.79	22.00
5	16QAM	12	7	21.79	21.80	21.81	22.00



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5	16QAM	12	13	21.81	21.81	21.80	22.00
5	16QAM	25	0	21.73	21.71	21.79	22.00
5	64QAM	1	0	21.79	21.82	21.58	22.00
5	64QAM	1	12	21.70	21.78	21.75	22.00
5	64QAM	1	24	21.59	21.78	21.91	22.00
5	64QAM	12	0	20.71	20.83	20.67	21.00
5	64QAM	12	7	20.83	20.82	20.78	21.00
5	64QAM	12	13	20.72	20.90	20.80	21.00
5	64QAM	25	0	20.81	20.80	20.81	21.00
5	256QAM	1	0	18.72	18.85	18.89	19.00
5	256QAM	1	12	18.89	18.82	18.90	19.00
5	256QAM	1	24	18.83	18.89	18.84	19.00
5	256QAM	12	0	18.72	18.92	18.73	19.00
5	256QAM	12	7	18.84	18.87	18.80	19.00
5	256QAM	12	13	18.72	18.78	18.80	19.00
5	256QAM	25	0	18.77	18.74	18.87	19.00
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	23.70	23.82	23.64	24.00
3	QPSK	1	8	23.74	23.74	23.67	24.00
3	QPSK	1	14	23.55	23.64	23.49	24.00
3	QPSK	8	0	22.75	22.86	22.80	23.00
3	QPSK	8	4	22.76	22.81	22.71	23.00
3	QPSK	8	7	22.78	22.81	22.75	23.00
3	QPSK	15	0	22.72	22.72	22.72	23.00
3	16QAM	1	0	22.78	22.82	22.83	23.00
3	16QAM	1	8	22.70	22.86	22.59	23.00
3	16QAM	1	14	22.83	22.79	22.85	23.00
3	16QAM	8	0	21.68	21.66	21.80	22.00
3	16QAM	8	4	21.80	21.84	21.82	22.00
3	16QAM	8	7	21.75	21.80	21.87	22.00
3	16QAM	15	0	21.78	21.73	21.80	22.00
3	64QAM	1	0	21.81	21.89	21.62	22.00
3	64QAM	1	8	21.64	21.86	21.75	22.00
3	64QAM	1	14	21.59	21.71	21.89	22.00
3	64QAM	8	0	20.75	20.76	20.71	21.00
3	64QAM	8	4	20.84	20.88	20.82	21.00
3	64QAM	8	7	20.80	20.90	20.77	21.00
3	64QAM	15	0	20.69	20.92	20.77	21.00
3	256QAM	1	0	18.72	18.88	18.91	19.00
3	256QAM	1	8	18.82	18.87	18.97	19.00
3	256QAM	1	14	18.72	18.80	18.81	19.00
3	256QAM	8	0	18.72	18.90	18.78	19.00
3	256QAM	8	4	18.82	18.84	18.83	19.00
3	256QAM	8	7	18.60	18.75	18.78	19.00
3	256QAM	15	0	18.85	18.80	18.90	19.00
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	23.78	23.81	23.68	24.00
1.4	QPSK	1	3	23.71	23.73	23.58	24.00
1.4	QPSK	1	5	23.51	23.68	23.51	24.00
1.4	QPSK	3	0	23.71	23.81	23.73	24.00
1.4	QPSK	3	1	23.75	23.78	23.73	24.00
1.4	QPSK	3	3	23.70	23.78	23.73	24.00
1.4	QPSK	6	0	22.69	22.77	22.81	23.00
1.4	16QAM	1	0	22.89	22.82	22.89	23.00
1.4	16QAM	1	3	22.66	22.88	22.59	23.00
1.4	16QAM	1	5	22.80	22.80	22.76	23.00
1.4	16QAM	3	0	22.78	22.71	22.71	23.00
1.4	16QAM	3	1	22.83	22.84	22.87	23.00
1.4	16QAM	3	3	22.77	22.86	22.88	23.00
1.4	16QAM	6	0	21.77	21.70	21.76	22.00
1.4	64QAM	1	0	21.81	21.91	21.50	22.00
1.4	64QAM	1	3	21.68	21.81	21.70	22.00
1.4	64QAM	1	5	21.59	21.68	21.97	22.00
1.4	64QAM	3	0	21.79	21.77	21.66	22.00
1.4	64QAM	3	1	21.80	21.75	21.74	22.00
1.4	64QAM	3	3	21.73	21.83	21.76	22.00
1.4	64QAM	6	0	20.76	20.89	20.83	21.00
1.4	256QAM	1	0	18.75	18.97	18.95	19.00
1.4	256QAM	1	3	18.79	18.89	18.97	19.00
1.4	256QAM	1	5	18.74	18.83	18.77	19.00
1.4	256QAM	3	0	18.71	18.99	18.77	19.00
1.4	256QAM	3	1	18.78	18.76	18.81	19.00
1.4	256QAM	3	3	18.68	18.79	18.68	19.00
1.4	256QAM	6	0	18.74	18.83	18.83	19.00



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【LTE Band 26_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	19.18	19.31	19.11	20.00
15	QPSK	1	37	18.90	19.06	18.88	20.00
15	QPSK	1	74	18.79	19.00	18.82	20.00
15	QPSK	36	0	18.83	19.11	18.92	20.00
15	QPSK	36	20	18.67	18.90	18.72	20.00
15	QPSK	36	39	18.81	18.95	18.86	20.00
15	QPSK	75	0	18.73	18.94	18.85	20.00
15	16QAM	1	0	18.99	19.16	18.90	20.00
15	16QAM	1	37	18.82	19.00	18.86	20.00
15	16QAM	1	74	18.84	18.99	18.84	20.00
15	16QAM	36	0	18.72	18.93	18.84	20.00
15	16QAM	36	20	18.66	18.85	18.74	20.00
15	16QAM	36	39	18.70	18.87	18.70	20.00
15	16QAM	75	0	18.66	18.83	18.72	20.00
15	64QAM	1	0	18.88	19.14	18.95	20.00
15	64QAM	1	37	18.92	19.15	18.90	20.00
15	64QAM	1	74	18.92	19.13	18.82	20.00
15	64QAM	36	0	18.89	19.06	18.90	20.00
15	64QAM	36	20	18.80	18.96	18.71	20.00
15	64QAM	36	39	18.69	18.94	18.77	20.00
15	64QAM	75	0	18.65	18.93	18.86	20.00
15	256QAM	1	0	18.54	18.78	18.68	19.00
15	256QAM	1	37	18.64	18.78	18.56	19.00
15	256QAM	1	74	18.44	18.68	18.51	19.00
15	256QAM	36	0	18.35	18.62	18.54	19.00
15	256QAM	36	20	18.37	18.64	18.49	19.00
15	256QAM	36	39	18.49	18.75	18.48	19.00
15	256QAM	75	0	18.52	18.68	18.46	19.00
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	19.14	19.25	19.03	20.00
10	QPSK	1	25	18.87	19.00	18.84	20.00
10	QPSK	1	49	18.68	18.94	18.76	20.00
10	QPSK	25	0	18.71	19.02	18.80	20.00
10	QPSK	25	12	18.63	18.78	18.66	20.00
10	QPSK	25	25	18.79	18.93	18.83	20.00
10	QPSK	50	0	18.65	18.81	18.79	20.00
10	16QAM	1	0	18.85	19.03	18.81	20.00
10	16QAM	1	25	18.72	18.94	18.74	20.00
10	16QAM	1	49	18.73	18.89	18.75	20.00
10	16QAM	25	0	18.59	18.85	18.76	20.00
10	16QAM	25	12	18.59	18.70	18.73	20.00
10	16QAM	25	25	18.61	18.73	18.56	20.00
10	16QAM	50	0	18.54	18.80	18.66	20.00
10	64QAM	1	0	18.78	19.02	18.91	20.00
10	64QAM	1	25	18.88	19.08	18.76	20.00
10	64QAM	1	49	18.82	19.06	18.76	20.00
10	64QAM	25	0	18.86	19.03	18.87	20.00
10	64QAM	25	12	18.79	18.90	18.58	20.00
10	64QAM	25	25	18.58	18.91	18.63	20.00
10	64QAM	50	0	18.57	18.80	18.79	20.00
10	256QAM	1	0	18.47	18.72	18.54	19.00
10	256QAM	1	25	18.52	18.69	18.48	19.00
10	256QAM	1	49	18.35	18.61	18.49	19.00
10	256QAM	25	0	18.32	18.53	18.50	19.00
10	256QAM	25	12	18.28	18.58	18.37	19.00
10	256QAM	25	25	18.44	18.63	18.36	19.00
10	256QAM	50	0	18.43	18.59	18.42	19.00
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	19.08	19.22	19.07	20.00
5	QPSK	1	12	18.87	18.93	18.84	20.00
5	QPSK	1	24	18.68	18.97	18.80	20.00
5	QPSK	12	0	18.69	19.06	18.83	20.00
5	QPSK	12	7	18.57	18.87	18.67	20.00
5	QPSK	12	13	18.72	18.87	18.74	20.00
5	QPSK	25	0	18.66	18.80	18.70	20.00
5	16QAM	1	0	18.93	19.13	18.77	20.00
5	16QAM	1	12	18.67	18.98	18.76	20.00
5	16QAM	1	24	18.82	18.87	18.77	20.00
5	16QAM	12	0	18.65	18.84	18.73	20.00
5	16QAM	12	7	18.59	18.82	18.66	20.00



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5	16QAM	12	13	18.64	18.76	18.68	20.00
5	16QAM	25	0	18.59	18.81	18.60	20.00
5	64QAM	1	0	18.84	19.04	18.80	20.00
5	64QAM	1	12	18.79	19.10	18.83	20.00
5	64QAM	1	24	18.91	19.02	18.78	20.00
5	64QAM	12	0	18.79	18.99	18.77	20.00
5	64QAM	12	7	18.73	18.91	18.62	20.00
5	64QAM	12	13	18.55	18.80	18.72	20.00
5	64QAM	25	0	18.52	18.85	18.84	20.00
5	256QAM	1	0	18.43	18.66	18.60	19.00
5	256QAM	1	12	18.55	18.69	18.50	19.00
5	256QAM	1	24	18.38	18.59	18.43	19.00
5	256QAM	12	0	18.30	18.56	18.51	19.00
5	256QAM	12	7	18.30	18.50	18.35	19.00
5	256QAM	12	13	18.47	18.73	18.44	19.00
5	256QAM	25	0	18.41	18.66	18.33	19.00
Channel				26705	26865	27025	Tune-up limit
Frequency (MHz)				815.5	831.5	847.5	(dBm)
3	QPSK	1	0	19.05	19.19	19.03	20.00
3	QPSK	1	8	18.83	19.01	18.78	20.00
3	QPSK	1	14	18.71	18.91	18.81	20.00
3	QPSK	8	0	18.75	19.08	18.82	20.00
3	QPSK	8	4	18.55	18.89	18.59	20.00
3	QPSK	8	7	18.66	18.88	18.81	20.00
3	QPSK	15	0	18.71	18.84	18.80	20.00
3	16QAM	1	0	18.93	19.04	18.82	20.00
3	16QAM	1	8	18.75	18.87	18.78	20.00
3	16QAM	1	14	18.70	18.97	18.74	20.00
3	16QAM	8	0	18.69	18.84	18.79	20.00
3	16QAM	8	4	18.60	18.77	18.69	20.00
3	16QAM	8	7	18.68	18.75	18.59	20.00
3	16QAM	15	0	18.52	18.72	18.62	20.00
3	64QAM	1	0	18.77	19.06	18.87	20.00
3	64QAM	1	8	18.80	19.08	18.79	20.00
3	64QAM	1	14	18.85	19.03	18.77	20.00
3	64QAM	8	0	18.81	18.97	18.87	20.00
3	64QAM	8	4	18.67	18.87	18.64	20.00
3	64QAM	8	7	18.63	18.88	18.74	20.00
3	64QAM	15	0	18.51	18.78	18.76	20.00
3	256QAM	1	0	18.39	18.73	18.54	19.00
3	256QAM	1	8	18.51	18.66	18.42	19.00
3	256QAM	1	14	18.33	18.58	18.41	19.00
3	256QAM	8	0	18.23	18.51	18.42	19.00
3	256QAM	8	4	18.29	18.55	18.39	19.00
3	256QAM	8	7	18.38	18.67	18.36	19.00
3	256QAM	15	0	18.47	18.61	18.33	19.00
Channel				26697	26865	27033	Tune-up limit
Frequency (MHz)				814.7	831.5	848.3	(dBm)
1.4	QPSK	1	0	19.12	19.21	19.06	20.00
1.4	QPSK	1	3	18.85	19.04	18.76	20.00
1.4	QPSK	1	5	18.73	18.98	18.70	20.00
1.4	QPSK	3	0	18.80	19.06	18.91	20.00
1.4	QPSK	3	1	18.64	18.76	18.65	20.00
1.4	QPSK	3	3	18.72	18.87	18.73	20.00
1.4	QPSK	6	0	18.65	18.90	18.76	20.00
1.4	16QAM	1	0	18.88	19.03	18.88	20.00
1.4	16QAM	1	3	18.75	18.93	18.83	20.00
1.4	16QAM	1	5	18.81	18.93	18.80	20.00
1.4	16QAM	3	0	18.70	18.79	18.73	20.00
1.4	16QAM	3	1	18.55	18.71	18.59	20.00
1.4	16QAM	3	3	18.57	18.79	18.64	20.00
1.4	16QAM	6	0	18.54	18.74	18.60	20.00
1.4	64QAM	1	0	18.86	19.02	18.81	20.00
1.4	64QAM	1	3	18.90	19.07	18.88	20.00
1.4	64QAM	1	5	18.80	19.00	18.69	20.00
1.4	64QAM	3	0	18.81	18.92	18.77	20.00
1.4	64QAM	3	1	18.70	18.86	18.63	20.00
1.4	64QAM	3	3	18.56	18.91	18.72	20.00
1.4	64QAM	6	0	18.61	18.92	18.75	20.00
1.4	256QAM	1	0	18.41	18.67	18.61	19.00
1.4	256QAM	1	3	18.52	18.73	18.44	19.00
1.4	256QAM	1	5	18.42	18.67	18.39	19.00
1.4	256QAM	3	0	18.21	18.61	18.53	19.00
1.4	256QAM	3	1	18.22	18.57	18.41	19.00
1.4	256QAM	3	3	18.38	18.66	18.46	19.00
1.4	256QAM	6	0	18.44	18.65	18.43	19.00

**【LTE Band 30_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		21.34		22.00
10	QPSK	1	25		21.31		22.00
10	QPSK	1	49		21.10		22.00
10	QPSK	25	0		20.29		21.00
10	QPSK	25	12		20.28		21.00
10	QPSK	25	25		20.28		21.00
10	QPSK	50	0		20.27		21.00
10	16QAM	1	0		20.65		21.00
10	16QAM	1	25		20.54		21.00
10	16QAM	1	49		20.51		21.00
10	16QAM	25	0		19.41		20.00
10	16QAM	25	12		19.34		20.00
10	16QAM	25	25		19.25		20.00
10	16QAM	50	0		19.31		20.00
10	64QAM	1	0		19.44		20.00
10	64QAM	1	25		19.59		20.00
10	64QAM	1	49		19.32		20.00
10	64QAM	25	0		18.42		19.00
10	64QAM	25	12		18.45		19.00
10	64QAM	25	25		18.27		19.00
10	64QAM	50	0		18.34		19.00
10	256QAM	1	0		16.42		17.00
10	256QAM	1	25		16.53		17.00
10	256QAM	1	49		16.17		17.00
10	256QAM	25	0		16.43		17.00
10	256QAM	25	12		16.40		17.00
10	256QAM	25	25		16.34		17.00
10	256QAM	50	0		16.34		17.00
Channel				27685	27710	27735	
Frequency (MHz)				2307.5	2310	2312.5	Tune-up limit (dBm)
5	QPSK	1	0	21.25	21.30	21.29	22.00
5	QPSK	1	12	21.15	21.16	21.13	22.00
5	QPSK	1	24	20.94	20.99	20.86	22.00
5	QPSK	12	0	20.08	20.11	19.95	21.00
5	QPSK	12	7	20.10	20.23	20.13	21.00
5	QPSK	12	13	20.14	20.17	20.05	21.00
5	QPSK	25	0	20.11	20.18	20.13	21.00
5	16QAM	1	0	20.46	20.47	20.43	21.00
5	16QAM	1	12	20.38	20.46	20.36	21.00
5	16QAM	1	24	20.30	20.37	20.34	21.00
5	16QAM	12	0	19.28	19.31	19.15	20.00
5	16QAM	12	7	19.16	19.18	19.13	20.00
5	16QAM	12	13	19.08	19.14	19.03	20.00
5	16QAM	25	0	19.18	19.17	19.02	20.00
5	64QAM	1	0	19.27	19.33	19.20	20.00
5	64QAM	1	12	19.39	19.41	19.39	20.00
5	64QAM	1	24	19.18	19.18	19.07	20.00
5	64QAM	12	0	18.29	18.36	18.27	19.00
5	64QAM	12	7	18.32	18.36	18.22	19.00
5	64QAM	12	13	18.09	18.19	18.15	19.00
5	64QAM	25	0	18.22	18.25	18.23	19.00
5	256QAM	1	0	16.31	16.38	16.28	17.00
5	256QAM	1	12	16.42	16.46	16.36	17.00
5	256QAM	1	24	16.07	16.09	16.05	17.00
5	256QAM	12	0	16.23	16.32	16.29	17.00
5	256QAM	12	7	16.28	16.28	16.15	17.00
5	256QAM	12	13	16.24	16.17	16.05	17.00
5	256QAM	25	0	16.23	16.24	16.13	17.00

**【LTE Band 30_Tablet】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		17.37		18.00
10	QPSK	1	25		17.33		18.00
10	QPSK	1	49		17.15		18.00
10	QPSK	25	0		17.36		18.00
10	QPSK	25	12		17.35		18.00
10	QPSK	25	25		17.29		18.00
10	QPSK	50	0		17.30		18.00
10	16QAM	1	0		17.28		18.00
10	16QAM	1	25		17.13		18.00
10	16QAM	1	49		17.11		18.00
10	16QAM	25	0		17.29		18.00
10	16QAM	25	12		17.16		18.00
10	16QAM	25	25		17.13		18.00
10	16QAM	50	0		17.15		18.00
10	64QAM	1	0		17.34		18.00
10	64QAM	1	25		17.26		18.00
10	64QAM	1	49		17.22		18.00
10	64QAM	25	0		17.31		18.00
10	64QAM	25	12		17.34		18.00
10	64QAM	25	25		17.15		18.00
10	64QAM	50	0		17.18		18.00
10	256QAM	1	0		16.42		17.00
10	256QAM	1	25		16.44		17.00
10	256QAM	1	49		16.07		17.00
10	256QAM	25	0		16.34		17.00
10	256QAM	25	12		16.35		17.00
10	256QAM	25	25		16.27		17.00
10	256QAM	50	0		16.32		17.00
Channel				27685	27710	27735	Tune-up limit
Frequency (MHz)				2307.5	2310	2312.5	(dBm)
5	QPSK	1	0	17.30	17.33	17.27	18.00
5	QPSK	1	12	17.12	17.15	17.00	18.00
5	QPSK	1	24	17.05	16.97	16.79	18.00
5	QPSK	12	0	17.21	17.22	17.04	18.00
5	QPSK	12	7	17.23	17.17	17.05	18.00
5	QPSK	12	13	17.14	17.14	17.04	18.00
5	QPSK	25	0	17.12	17.15	16.99	18.00
5	16QAM	1	0	17.19	17.19	17.03	18.00
5	16QAM	1	12	16.96	17.01	16.94	18.00
5	16QAM	1	24	16.89	16.93	16.81	18.00
5	16QAM	12	0	17.15	17.19	17.07	18.00
5	16QAM	12	7	16.97	17.03	16.87	18.00
5	16QAM	12	13	16.94	16.97	16.88	18.00
5	16QAM	25	0	17.05	17.03	16.88	18.00
5	64QAM	1	0	17.12	17.21	17.02	18.00
5	64QAM	1	12	17.29	17.33	17.23	18.00
5	64QAM	1	24	17.12	17.11	16.95	18.00
5	64QAM	12	0	17.14	17.23	17.12	18.00
5	64QAM	12	7	17.14	17.15	16.98	18.00
5	64QAM	12	13	17.03	17.09	16.89	18.00
5	64QAM	25	0	16.96	17.09	16.93	18.00
5	256QAM	1	0	16.26	16.24	16.17	17.00
5	256QAM	1	12	16.28	16.31	16.12	17.00
5	256QAM	1	24	15.88	16.00	15.84	17.00
5	256QAM	12	0	16.20	16.22	16.08	17.00
5	256QAM	12	7	16.21	16.27	16.09	17.00
5	256QAM	12	13	16.12	16.12	16.03	17.00
5	256QAM	25	0	16.24	16.21	16.07	17.00



【LTE Band 38_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.87	22.89	22.74	23.00
20	QPSK	1	49	22.79	22.69	22.71	23.00
20	QPSK	1	99	22.71	22.63	22.70	23.00
20	QPSK	50	0	21.87	21.79	21.79	22.00
20	QPSK	50	24	21.84	21.78	21.69	22.00
20	QPSK	50	50	21.74	21.68	21.76	22.00
20	QPSK	100	0	21.83	21.72	21.76	22.00
20	16QAM	1	0	21.96	21.77	21.77	22.00
20	16QAM	1	49	21.84	21.77	21.85	22.00
20	16QAM	1	99	21.63	21.64	21.70	22.00
20	16QAM	50	0	20.82	20.65	20.71	21.00
20	16QAM	50	24	20.84	20.73	20.78	21.00
20	16QAM	50	50	20.74	20.65	20.78	21.00
20	16QAM	100	0	20.86	20.70	20.75	21.00
20	64QAM	1	0	20.82	20.74	20.71	21.00
20	64QAM	1	49	20.79	20.65	20.65	21.00
20	64QAM	1	99	20.52	20.64	20.75	21.00
20	64QAM	50	0	19.85	19.71	19.68	20.00
20	64QAM	50	24	19.85	19.74	19.76	20.00
20	64QAM	50	50	19.77	19.67	19.70	20.00
20	64QAM	100	0	19.77	19.68	19.73	20.00
20	256QAM	1	0	17.74	17.69	17.48	18.00
20	256QAM	1	49	17.78	17.61	17.65	18.00
20	256QAM	1	99	17.37	17.42	17.57	18.00
20	256QAM	50	0	17.82	17.70	17.68	18.00
20	256QAM	50	24	17.84	17.72	17.78	18.00
20	256QAM	50	50	17.71	17.61	17.69	18.00
20	256QAM	100	0	17.81	17.71	17.72	18.00
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.77	22.75	22.67	23.00
15	QPSK	1	37	22.65	22.65	22.63	23.00
15	QPSK	1	74	22.63	22.61	22.63	23.00
15	QPSK	36	0	21.74	21.76	21.62	22.00
15	QPSK	36	20	21.84	21.65	21.73	22.00
15	QPSK	36	39	21.64	21.66	21.66	22.00
15	QPSK	75	0	21.68	21.63	21.72	22.00
15	16QAM	1	0	21.86	21.70	21.70	22.00
15	16QAM	1	37	21.73	21.69	21.81	22.00
15	16QAM	1	74	21.54	21.49	21.66	22.00
15	16QAM	36	0	20.68	20.50	20.60	21.00
15	16QAM	36	20	20.75	20.71	20.71	21.00
15	16QAM	36	39	20.72	20.55	20.67	21.00
15	16QAM	75	0	20.78	20.62	20.70	21.00
15	64QAM	1	0	20.69	20.66	20.57	21.00
15	64QAM	1	37	20.77	20.52	20.54	21.00
15	64QAM	1	74	20.42	20.54	20.61	21.00
15	64QAM	36	0	19.75	19.57	19.64	20.00
15	64QAM	36	20	19.72	19.65	19.67	20.00
15	64QAM	36	39	19.63	19.57	19.62	20.00
15	64QAM	75	0	19.67	19.62	19.61	20.00
15	256QAM	1	0	17.68	17.62	17.41	18.00
15	256QAM	1	37	17.68	17.55	17.63	18.00
15	256QAM	1	74	17.29	17.36	17.44	18.00
15	256QAM	36	0	17.70	17.66	17.66	18.00
15	256QAM	36	20	17.71	17.66	17.75	18.00
15	256QAM	36	39	17.60	17.46	17.63	18.00
15	256QAM	75	0	17.69	17.57	17.61	18.00
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.84	22.76	22.67	23.00
10	QPSK	1	25	22.78	22.58	22.70	23.00
10	QPSK	1	49	22.60	22.61	22.64	23.00
10	QPSK	25	0	21.83	21.69	21.58	22.00
10	QPSK	25	12	21.83	21.70	21.67	22.00
10	QPSK	25	25	21.73	21.65	21.73	22.00
10	QPSK	50	0	21.75	21.59	21.65	22.00
10	16QAM	1	0	21.88	21.74	21.74	22.00
10	16QAM	1	25	21.80	21.65	21.82	22.00
10	16QAM	1	49	21.53	21.59	21.58	22.00



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10	16QAM	25	0	20.80	20.60	20.57	21.00
10	16QAM	25	12	20.82	20.61	20.76	21.00
10	16QAM	25	25	20.61	20.55	20.63	21.00
10	16QAM	50	0	20.71	20.61	20.65	21.00
10	64QAM	1	0	20.70	20.71	20.59	21.00
10	64QAM	1	25	20.64	20.55	20.60	21.00
10	64QAM	1	49	20.47	20.55	20.67	21.00
10	64QAM	25	0	19.73	19.60	19.56	20.00
10	64QAM	25	12	19.78	19.62	19.65	20.00
10	64QAM	25	25	19.65	19.65	19.67	20.00
10	64QAM	50	0	19.64	19.64	19.66	20.00
10	256QAM	1	0	17.72	17.54	17.36	18.00
10	256QAM	1	25	17.76	17.53	17.58	18.00
10	256QAM	1	49	17.30	17.30	17.48	18.00
10	256QAM	25	0	17.81	17.65	17.60	18.00
10	256QAM	25	12	17.81	17.70	17.64	18.00
10	256QAM	25	25	17.61	17.57	17.63	18.00
10	256QAM	50	0	17.67	17.65	17.62	18.00
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.85	22.75	22.55	23.00
5	QPSK	1	12	22.64	22.67	22.63	23.00
5	QPSK	1	24	22.70	22.55	22.66	23.00
5	QPSK	12	0	21.71	21.71	21.57	22.00
5	QPSK	12	7	21.75	21.64	21.71	22.00
5	QPSK	12	13	21.60	21.54	21.62	22.00
5	QPSK	25	0	21.74	21.63	21.66	22.00
5	16QAM	1	0	21.94	21.68	21.75	22.00
5	16QAM	1	12	21.70	21.73	21.78	22.00
5	16QAM	1	24	21.51	21.56	21.57	22.00
5	16QAM	12	0	20.75	20.64	20.66	21.00
5	16QAM	12	7	20.77	20.62	20.77	21.00
5	16QAM	12	13	20.62	20.52	20.69	21.00
5	16QAM	25	0	20.78	20.59	20.60	21.00
5	64QAM	1	0	20.81	20.68	20.59	21.00
5	64QAM	1	12	20.77	20.51	20.61	21.00
5	64QAM	1	24	20.44	20.53	20.66	21.00
5	64QAM	12	0	19.82	19.59	19.61	20.00
5	64QAM	12	7	19.83	19.71	19.61	20.00
5	64QAM	12	13	19.70	19.59	19.65	20.00
5	64QAM	25	0	19.74	19.55	19.66	20.00
5	256QAM	1	0	17.66	17.55	17.41	18.00
5	256QAM	1	12	17.77	17.58	17.62	18.00
5	256QAM	1	24	17.28	17.41	17.50	18.00
5	256QAM	12	0	17.72	17.63	17.66	18.00
5	256QAM	12	7	17.71	17.62	17.72	18.00
5	256QAM	12	13	17.68	17.54	17.56	18.00
5	256QAM	25	0	17.66	17.59	17.63	18.00



【LTE Band 38_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	18.74	18.77	18.65	19.50
20	QPSK	1	49	18.55	18.64	18.46	19.50
20	QPSK	1	99	18.49	18.57	18.43	19.50
20	QPSK	50	0	18.53	18.63	18.43	19.50
20	QPSK	50	24	18.43	18.61	18.46	19.50
20	QPSK	50	50	18.51	18.57	18.35	19.50
20	QPSK	100	0	18.59	18.64	18.39	19.50
20	16QAM	1	0	18.55	18.65	18.48	19.50
20	16QAM	1	49	18.58	18.65	18.46	19.50
20	16QAM	1	99	18.35	18.42	18.19	19.50
20	16QAM	50	0	18.59	18.64	18.48	19.50
20	16QAM	50	24	18.61	18.69	18.51	19.50
20	16QAM	50	50	18.49	18.64	18.50	19.50
20	16QAM	100	0	18.50	18.68	18.51	19.50
20	64QAM	1	0	18.59	18.70	18.55	19.50
20	64QAM	1	49	18.41	18.56	18.43	19.50
20	64QAM	1	99	18.46	18.56	18.31	19.50
20	64QAM	50	0	18.52	18.60	18.41	19.50
20	64QAM	50	24	18.53	18.60	18.43	19.50
20	64QAM	50	50	18.42	18.48	18.33	19.50
20	64QAM	100	0	18.50	18.56	18.38	19.50
20	256QAM	1	0	17.66	17.76	17.54	18.00
20	256QAM	1	49	17.55	17.62	17.46	18.00
20	256QAM	1	99	17.41	17.46	17.21	18.00
20	256QAM	50	0	17.55	17.70	17.54	18.00
20	256QAM	50	24	17.68	17.79	17.55	18.00
20	256QAM	50	50	17.44	17.58	17.33	18.00
20	256QAM	100	0	17.58	17.70	17.54	18.00
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	18.62	18.70	18.62	19.50
15	QPSK	1	37	18.44	18.55	18.37	19.50
15	QPSK	1	74	18.35	18.53	18.31	19.50
15	QPSK	36	0	18.45	18.61	18.37	19.50
15	QPSK	36	20	18.30	18.58	18.35	19.50
15	QPSK	36	39	18.43	18.48	18.31	19.50
15	QPSK	75	0	18.55	18.52	18.29	19.50
15	16QAM	1	0	18.49	18.52	18.34	19.50
15	16QAM	1	37	18.49	18.58	18.32	19.50
15	16QAM	1	74	18.22	18.28	18.13	19.50
15	16QAM	36	0	18.47	18.57	18.43	19.50
15	16QAM	36	20	18.60	18.58	18.44	19.50
15	16QAM	36	39	18.45	18.50	18.46	19.50
15	16QAM	75	0	18.41	18.63	18.49	19.50
15	64QAM	1	0	18.56	18.60	18.50	19.50
15	64QAM	1	37	18.29	18.44	18.40	19.50
15	64QAM	1	74	18.33	18.41	18.21	19.50
15	64QAM	36	0	18.42	18.50	18.31	19.50
15	64QAM	36	20	18.43	18.51	18.34	19.50
15	64QAM	36	39	18.38	18.41	18.29	19.50
15	64QAM	75	0	18.35	18.53	18.24	19.50
15	256QAM	1	0	17.56	17.74	17.46	18.00
15	256QAM	1	37	17.42	17.55	17.37	18.00
15	256QAM	1	74	17.29	17.31	17.13	18.00
15	256QAM	36	0	17.48	17.59	17.48	18.00
15	256QAM	36	20	17.60	17.77	17.40	18.00
15	256QAM	36	39	17.30	17.56	17.21	18.00
15	256QAM	75	0	17.57	17.62	17.52	18.00
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	18.67	18.64	18.56	19.50
10	QPSK	1	25	18.51	18.51	18.45	19.50
10	QPSK	1	49	18.38	18.46	18.29	19.50
10	QPSK	25	0	18.51	18.49	18.30	19.50
10	QPSK	25	12	18.32	18.58	18.34	19.50
10	QPSK	25	25	18.44	18.52	18.22	19.50
10	QPSK	50	0	18.54	18.55	18.36	19.50
10	16QAM	1	0	18.51	18.61	18.42	19.50
10	16QAM	1	25	18.46	18.57	18.38	19.50
10	16QAM	1	49	18.26	18.38	18.11	19.50



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10	16QAM	25	0	18.46	18.58	18.35	19.50
10	16QAM	25	12	18.57	18.64	18.40	19.50
10	16QAM	25	25	18.36	18.59	18.45	19.50
10	16QAM	50	0	18.46	18.61	18.38	19.50
10	64QAM	1	0	18.52	18.59	18.42	19.50
10	64QAM	1	25	18.33	18.47	18.34	19.50
10	64QAM	1	49	18.34	18.53	18.27	19.50
10	64QAM	25	0	18.39	18.59	18.35	19.50
10	64QAM	25	12	18.51	18.55	18.37	19.50
10	64QAM	25	25	18.29	18.34	18.24	19.50
10	64QAM	50	0	18.47	18.46	18.33	19.50
10	256QAM	1	0	17.58	17.73	17.39	18.00
10	256QAM	1	25	17.52	17.54	17.32	18.00
10	256QAM	1	49	17.33	17.44	17.10	18.00
10	256QAM	25	0	17.45	17.64	17.39	18.00
10	256QAM	25	12	17.67	17.65	17.51	18.00
10	256QAM	25	25	17.42	17.55	17.26	18.00
10	256QAM	50	0	17.51	17.61	17.47	18.00
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	18.72	18.73	18.59	19.50
5	QPSK	1	12	18.53	18.58	18.45	19.50
5	QPSK	1	24	18.47	18.55	18.36	19.50
5	QPSK	12	0	18.47	18.48	18.39	19.50
5	QPSK	12	7	18.29	18.59	18.40	19.50
5	QPSK	12	13	18.45	18.48	18.26	19.50
5	QPSK	25	0	18.49	18.63	18.29	19.50
5	16QAM	1	0	18.40	18.56	18.44	19.50
5	16QAM	1	12	18.44	18.60	18.36	19.50
5	16QAM	1	24	18.29	18.39	18.13	19.50
5	16QAM	12	0	18.49	18.59	18.43	19.50
5	16QAM	12	7	18.53	18.66	18.44	19.50
5	16QAM	12	13	18.45	18.50	18.37	19.50
5	16QAM	25	0	18.45	18.59	18.45	19.50
5	64QAM	1	0	18.50	18.65	18.52	19.50
5	64QAM	1	12	18.30	18.54	18.35	19.50
5	64QAM	1	24	18.32	18.50	18.16	19.50
5	64QAM	12	0	18.45	18.56	18.30	19.50
5	64QAM	12	7	18.43	18.48	18.30	19.50
5	64QAM	12	13	18.29	18.34	18.32	19.50
5	64QAM	25	0	18.47	18.49	18.32	19.50
5	256QAM	1	0	17.55	17.70	17.40	18.00
5	256QAM	1	12	17.42	17.56	17.40	18.00
5	256QAM	1	24	17.33	17.43	17.07	18.00
5	256QAM	12	0	17.52	17.61	17.50	18.00
5	256QAM	12	7	17.64	17.64	17.45	18.00
5	256QAM	12	13	17.33	17.54	17.23	18.00
5	256QAM	25	0	17.47	17.57	17.43	18.00



【LTE Band 41_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.22	22.00	22.27	22.07	21.66	23.00
20	QPSK	1	49	22.14	21.98	22.01	22.01	21.45	23.00
20	QPSK	1	99	21.85	21.87	21.86	21.94	21.23	23.00
20	QPSK	50	0	21.10	21.00	21.14	21.07	20.53	22.00
20	QPSK	50	24	21.06	20.98	21.06	21.03	20.42	22.00
20	QPSK	50	50	20.92	20.89	20.95	21.02	20.38	22.00
20	QPSK	100	0	21.12	20.96	21.05	21.04	20.40	22.00
20	16QAM	1	0	21.22	20.92	21.20	21.02	20.66	22.00
20	16QAM	1	49	21.17	21.04	21.03	20.98	20.53	22.00
20	16QAM	1	99	20.90	20.92	20.82	20.90	20.22	22.00
20	16QAM	50	0	20.19	19.95	20.17	19.94	19.45	21.00
20	16QAM	50	24	20.16	20.01	20.08	20.05	19.38	21.00
20	16QAM	50	50	19.91	19.90	19.94	19.97	19.36	21.00
20	16QAM	100	0	20.10	19.96	20.06	20.04	19.40	21.00
20	64QAM	1	0	20.21	19.92	20.15	19.91	19.58	21.00
20	64QAM	1	49	20.08	19.96	19.96	19.97	19.41	21.00
20	64QAM	1	99	19.93	19.95	19.91	19.84	19.19	21.00
20	64QAM	50	0	19.18	18.98	19.10	18.98	18.53	20.00
20	64QAM	50	24	19.12	19.04	19.08	19.06	18.40	20.00
20	64QAM	50	50	18.89	18.94	18.96	19.02	18.40	20.00
20	64QAM	100	0	19.07	18.95	19.04	19.01	18.38	20.00
20	256QAM	1	0	17.06	16.86	17.11	16.81	16.58	18.00
20	256QAM	1	49	17.05	16.97	16.94	16.94	16.49	18.00
20	256QAM	1	99	16.61	16.70	16.83	16.91	16.29	18.00
20	256QAM	50	0	17.19	16.96	17.12	16.95	16.47	18.00
20	256QAM	50	24	17.15	17.04	17.08	17.08	16.46	18.00
20	256QAM	50	50	16.89	16.88	16.99	17.04	16.36	18.00
20	256QAM	100	0	17.12	17.01	17.08	17.04	16.46	18.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.09	21.97	22.17	22.03	21.52	23.00
15	QPSK	1	37	22.12	21.89	21.86	21.99	21.33	23.00
15	QPSK	1	74	21.83	21.80	21.83	21.91	21.19	23.00
15	QPSK	36	0	20.98	20.98	21.03	21.00	20.39	22.00
15	QPSK	36	20	21.02	20.93	21.05	20.94	20.33	22.00
15	QPSK	36	39	20.89	20.84	20.81	20.88	20.28	22.00
15	QPSK	75	0	20.98	20.87	20.94	20.95	20.38	22.00
15	16QAM	1	0	21.09	20.80	21.09	20.90	20.62	22.00
15	16QAM	1	37	21.07	20.99	20.92	20.86	20.48	22.00
15	16QAM	1	74	20.84	20.88	20.68	20.86	20.18	22.00
15	16QAM	36	0	20.07	19.82	20.10	19.91	19.35	21.00
15	16QAM	36	20	20.05	19.93	19.93	20.03	19.25	21.00
15	16QAM	36	39	19.77	19.88	19.86	19.86	19.31	21.00
15	16QAM	75	0	20.04	19.86	19.93	19.96	19.38	21.00
15	64QAM	1	0	20.08	19.86	20.10	19.78	19.44	21.00
15	64QAM	1	37	20.01	19.91	19.85	19.82	19.30	21.00
15	64QAM	1	74	19.91	19.92	19.85	19.73	19.13	21.00
15	64QAM	36	0	19.15	18.95	18.98	18.88	18.48	20.00
15	64QAM	36	20	19.02	19.02	19.04	19.03	18.25	20.00
15	64QAM	36	39	18.78	18.89	18.88	18.90	18.28	20.00
15	64QAM	75	0	19.01	18.85	18.90	18.87	18.27	20.00
15	256QAM	1	0	16.94	16.79	17.09	16.66	16.44	18.00
15	256QAM	1	37	17.03	16.94	16.81	16.83	16.39	18.00
15	256QAM	1	74	16.57	16.67	16.73	16.79	16.26	18.00
15	256QAM	36	0	17.13	16.94	16.99	16.85	16.43	18.00
15	256QAM	36	20	17.09	16.94	16.98	16.96	16.37	18.00
15	256QAM	36	39	16.81	16.76	16.97	16.95	16.29	18.00
15	256QAM	75	0	17.06	16.95	17.00	16.99	16.32	18.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.10	21.94	22.24	22.03	21.52	23.00
10	QPSK	1	25	22.12	21.95	21.90	21.96	21.31	23.00
10	QPSK	1	49	21.76	21.78	21.73	21.89	21.13	23.00
10	QPSK	25	0	21.03	20.96	21.08	21.06	20.44	22.00
10	QPSK	25	12	21.01	20.96	20.94	20.97	20.32	22.00
10	QPSK	25	25	20.87	20.82	20.90	20.89	20.26	22.00
10	QPSK	50	0	20.97	20.85	21.03	21.02	20.26	22.00
10	16QAM	1	0	21.10	20.82	21.09	20.91	20.65	22.00
10	16QAM	1	25	21.09	20.99	21.00	20.97	20.45	22.00
10	16QAM	1	49	20.77	20.86	20.70	20.86	20.14	22.00



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10	16QAM	25	0	20.07	19.90	20.07	19.88	19.42	21.00
10	16QAM	25	12	20.02	19.96	20.06	19.96	19.33	21.00
10	16QAM	25	25	19.90	19.86	19.92	19.89	19.27	21.00
10	16QAM	50	0	20.08	19.92	19.99	20.01	19.29	21.00
10	64QAM	1	0	20.08	19.86	20.03	19.88	19.52	21.00
10	64QAM	1	25	19.95	19.94	19.92	19.83	19.33	21.00
10	64QAM	1	49	19.88	19.81	19.77	19.80	19.14	21.00
10	64QAM	25	0	19.15	18.84	19.02	18.84	18.48	20.00
10	64QAM	25	12	18.99	18.93	18.99	18.95	18.38	20.00
10	64QAM	25	25	18.79	18.88	18.91	19.00	18.38	20.00
10	64QAM	50	0	19.02	18.87	18.94	18.99	18.24	20.00
10	256QAM	1	0	17.01	16.77	16.97	16.77	16.46	18.00
10	256QAM	1	25	16.99	16.88	16.84	16.86	16.40	18.00
10	256QAM	1	49	16.46	16.64	16.79	16.85	16.18	18.00
10	256QAM	25	0	17.09	16.90	17.05	16.86	16.41	18.00
10	256QAM	25	12	17.07	16.91	16.99	17.04	16.42	18.00
10	256QAM	25	25	16.81	16.84	16.88	17.02	16.29	18.00
10	256QAM	50	0	17.09	16.94	17.02	16.97	16.43	18.00
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	(dBm)
5	QPSK	1	0	22.20	21.96	22.18	21.93	21.63	23.00
5	QPSK	1	12	22.01	21.93	21.89	21.90	21.35	23.00
5	QPSK	1	24	21.82	21.75	21.82	21.92	21.16	23.00
5	QPSK	12	0	20.98	20.90	21.08	21.02	20.51	22.00
5	QPSK	12	7	20.97	20.85	20.92	20.91	20.36	22.00
5	QPSK	12	13	20.91	20.84	20.88	20.96	20.30	22.00
5	QPSK	25	0	21.00	20.82	20.98	21.02	20.32	22.00
5	16QAM	1	0	21.08	20.85	21.10	20.96	20.52	22.00
5	16QAM	1	12	21.03	20.97	21.01	20.86	20.38	22.00
5	16QAM	1	24	20.89	20.89	20.78	20.87	20.16	22.00
5	16QAM	12	0	20.10	19.85	20.08	19.85	19.34	21.00
5	16QAM	12	7	20.14	19.88	20.00	20.00	19.25	21.00
5	16QAM	12	13	19.82	19.89	19.87	19.84	19.27	21.00
5	16QAM	25	0	20.00	19.88	19.98	19.97	19.34	21.00
5	64QAM	1	0	20.18	19.88	20.05	19.85	19.53	21.00
5	64QAM	1	12	19.98	19.85	19.89	19.83	19.40	21.00
5	64QAM	1	24	19.90	19.92	19.77	19.77	19.17	21.00
5	64QAM	12	0	19.12	18.93	19.00	18.96	18.44	20.00
5	64QAM	12	7	18.97	18.89	19.06	18.96	18.34	20.00
5	64QAM	12	13	18.78	18.81	18.92	18.91	18.26	20.00
5	64QAM	25	0	18.92	18.81	18.96	18.94	18.27	20.00
5	256QAM	1	0	16.95	16.85	17.10	16.76	16.49	18.00
5	256QAM	1	12	16.92	16.89	16.86	16.93	16.46	18.00
5	256QAM	1	24	16.52	16.56	16.82	16.84	16.23	18.00
5	256QAM	12	0	17.16	16.87	17.06	16.84	16.43	18.00
5	256QAM	12	7	17.14	16.94	16.99	16.99	16.35	18.00
5	256QAM	12	13	16.78	16.83	16.88	16.94	16.34	18.00
5	256QAM	25	0	17.01	16.91	17.00	16.91	16.43	18.00

**【LTE Band 41_Tablet】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	19.09	18.90	19.12	18.90	18.62	19.50
20	QPSK	1	49	18.88	18.65	19.02	18.68	18.38	19.50
20	QPSK	1	99	18.73	18.55	18.85	18.54	18.30	19.50
20	QPSK	50	0	19.03	18.79	19.13	18.82	18.52	19.50
20	QPSK	50	24	18.90	18.77	19.08	18.72	18.50	19.50
20	QPSK	50	50	18.88	18.61	19.00	18.77	18.48	19.50
20	QPSK	100	0	18.99	18.69	19.07	18.83	18.45	19.50
20	16QAM	1	0	18.93	18.71	19.07	18.71	18.49	19.50
20	16QAM	1	49	18.81	18.52	18.88	18.52	18.37	19.50
20	16QAM	1	99	18.51	18.36	18.63	18.38	18.13	19.50
20	16QAM	50	0	18.95	18.76	19.06	18.79	18.55	19.50
20	16QAM	50	24	18.84	18.53	18.93	18.68	18.42	19.50
20	16QAM	50	50	18.76	18.49	18.81	18.51	18.30	19.50
20	16QAM	100	0	18.78	18.59	18.87	18.62	18.32	19.50
20	64QAM	1	0	18.97	18.79	19.12	18.85	18.52	19.50
20	64QAM	1	49	18.72	18.46	18.86	18.52	18.28	19.50
20	64QAM	1	99	18.80	18.49	18.86	18.58	18.31	19.50
20	64QAM	50	0	19.06	18.71	19.11	18.77	18.52	19.50
20	64QAM	50	24	18.96	18.64	19.03	18.77	18.51	19.50
20	64QAM	50	50	18.80	18.62	18.92	18.67	18.32	19.50
20	64QAM	100	0	18.98	18.72	19.05	18.72	18.49	19.50
20	256QAM	1	0	17.01	16.92	17.18	16.95	16.71	18.00
20	256QAM	1	49	16.79	16.58	16.93	16.59	16.36	18.00
20	256QAM	1	99	16.71	16.49	16.83	16.50	16.26	18.00
20	256QAM	50	0	17.01	16.90	17.18	16.83	16.68	18.00
20	256QAM	50	24	16.92	16.75	17.08	16.83	16.55	18.00
20	256QAM	50	50	16.93	16.70	17.00	16.78	16.52	18.00
20	256QAM	100	0	17.02	16.78	17.12	16.79	16.60	18.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	18.95	18.80	19.09	18.76	18.49	19.50
15	QPSK	1	37	18.86	18.53	18.96	18.54	18.24	19.50
15	QPSK	1	74	18.70	18.47	18.80	18.40	18.23	19.50
15	QPSK	36	0	18.96	18.76	18.99	18.77	18.48	19.50
15	QPSK	36	20	18.84	18.76	19.07	18.66	18.44	19.50
15	QPSK	36	39	18.84	18.51	18.91	18.64	18.41	19.50
15	QPSK	75	0	18.89	18.68	19.04	18.76	18.41	19.50
15	16QAM	1	0	18.85	18.67	18.92	18.58	18.35	19.50
15	16QAM	1	37	18.72	18.50	18.79	18.48	18.32	19.50
15	16QAM	1	74	18.38	18.27	18.57	18.24	18.10	19.50
15	16QAM	36	0	18.84	18.65	18.97	18.76	18.47	19.50
15	16QAM	36	20	18.70	18.51	18.90	18.67	18.33	19.50
15	16QAM	36	39	18.68	18.37	18.70	18.44	18.22	19.50
15	16QAM	75	0	18.66	18.44	18.79	18.61	18.18	19.50
15	64QAM	1	0	18.93	18.67	19.01	18.78	18.46	19.50
15	64QAM	1	37	18.61	18.34	18.75	18.49	18.26	19.50
15	64QAM	1	74	18.78	18.45	18.75	18.54	18.25	19.50
15	64QAM	36	0	19.05	18.67	19.02	18.71	18.40	19.50
15	64QAM	36	20	18.94	18.56	18.93	18.63	18.47	19.50
15	64QAM	36	39	18.77	18.47	18.83	18.58	18.23	19.50
15	64QAM	75	0	18.91	18.66	18.92	18.58	18.36	19.50
15	256QAM	1	0	16.97	16.78	17.10	16.86	16.60	18.00
15	256QAM	1	37	16.71	16.49	16.87	16.55	16.24	18.00
15	256QAM	1	74	16.60	16.39	16.78	16.39	16.25	18.00
15	256QAM	36	0	16.88	16.81	17.08	16.77	16.64	18.00
15	256QAM	36	20	16.87	16.60	17.05	16.82	16.43	18.00
15	256QAM	36	39	16.85	16.67	16.93	16.66	16.48	18.00
15	256QAM	75	0	17.00	16.65	17.05	16.64	16.49	18.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	18.97	18.77	19.04	18.85	18.57	19.50
10	QPSK	1	25	18.84	18.58	18.93	18.55	18.26	19.50
10	QPSK	1	49	18.60	18.50	18.72	18.47	18.24	19.50
10	QPSK	25	0	19.01	18.77	19.06	18.67	18.40	19.50
10	QPSK	25	12	18.88	18.71	19.00	18.63	18.50	19.50
10	QPSK	25	25	18.75	18.57	18.94	18.68	18.36	19.50
10	QPSK	50	0	18.87	18.66	19.03	18.73	18.40	19.50
10	16QAM	1	0	18.80	18.65	19.01	18.65	18.44	19.50
10	16QAM	1	25	18.74	18.48	18.77	18.39	18.28	19.50
10	16QAM	1	49	18.44	18.26	18.58	18.25	18.05	19.50



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10	16QAM	25	0	18.83	18.72	19.03	18.68	18.51	19.50
10	16QAM	25	12	18.82	18.40	18.83	18.63	18.36	19.50
10	16QAM	25	25	18.69	18.47	18.67	18.49	18.22	19.50
10	16QAM	50	0	18.69	18.55	18.82	18.60	18.25	19.50
10	64QAM	1	0	18.95	18.64	19.02	18.77	18.49	19.50
10	64QAM	1	25	18.67	18.44	18.76	18.49	18.15	19.50
10	64QAM	1	49	18.74	18.38	18.72	18.44	18.17	19.50
10	64QAM	25	0	18.91	18.60	19.03	18.75	18.38	19.50
10	64QAM	25	12	18.84	18.53	18.95	18.63	18.45	19.50
10	64QAM	25	25	18.78	18.59	18.81	18.55	18.24	19.50
10	64QAM	50	0	18.87	18.60	18.96	18.71	18.40	19.50
10	256QAM	1	0	16.88	16.87	17.15	16.92	16.70	18.00
10	256QAM	1	25	16.72	16.56	16.92	16.57	16.28	18.00
10	256QAM	1	49	16.63	16.47	16.74	16.48	16.25	18.00
10	256QAM	25	0	16.94	16.77	17.16	16.70	16.65	18.00
10	256QAM	25	12	16.81	16.62	16.98	16.72	16.51	18.00
10	256QAM	25	25	16.87	16.63	16.99	16.66	16.43	18.00
10	256QAM	50	0	17.00	16.74	17.00	16.72	16.51	18.00
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	(dBm)
5	QPSK	1	0	18.99	18.83	18.99	18.78	18.54	19.50
5	QPSK	1	12	18.84	18.61	19.00	18.57	18.33	19.50
5	QPSK	1	24	18.58	18.41	18.71	18.50	18.16	19.50
5	QPSK	12	0	19.01	18.71	19.09	18.77	18.41	19.50
5	QPSK	12	7	18.88	18.75	19.07	18.67	18.43	19.50
5	QPSK	12	13	18.80	18.58	18.93	18.71	18.44	19.50
5	QPSK	25	0	18.94	18.66	18.93	18.78	18.43	19.50
5	16QAM	1	0	18.82	18.68	19.00	18.62	18.37	19.50
5	16QAM	1	12	18.79	18.37	18.78	18.42	18.24	19.50
5	16QAM	1	24	18.39	18.35	18.55	18.31	18.05	19.50
5	16QAM	12	0	18.85	18.71	19.00	18.75	18.50	19.50
5	16QAM	12	7	18.74	18.43	18.81	18.63	18.28	19.50
5	16QAM	12	13	18.69	18.36	18.68	18.44	18.19	19.50
5	16QAM	25	0	18.72	18.48	18.81	18.50	18.30	19.50
5	64QAM	1	0	18.92	18.71	19.03	18.83	18.48	19.50
5	64QAM	1	12	18.68	18.34	18.74	18.50	18.13	19.50
5	64QAM	1	24	18.73	18.39	18.82	18.57	18.17	19.50
5	64QAM	12	0	18.93	18.66	19.07	18.62	18.51	19.50
5	64QAM	12	7	18.82	18.56	18.93	18.63	18.39	19.50
5	64QAM	12	13	18.77	18.58	18.79	18.60	18.26	19.50
5	64QAM	25	0	18.87	18.58	19.03	18.65	18.43	19.50
5	256QAM	1	0	16.89	16.77	17.04	16.88	16.66	18.00
5	256QAM	1	12	16.73	16.56	16.82	16.53	16.30	18.00
5	256QAM	1	24	16.61	16.42	16.73	16.40	16.17	18.00
5	256QAM	12	0	16.98	16.76	17.14	16.68	16.56	18.00
5	256QAM	12	7	16.79	16.73	16.97	16.74	16.54	18.00
5	256QAM	12	13	16.92	16.67	16.91	16.66	16.46	18.00
5	256QAM	25	0	16.88	16.68	16.98	16.77	16.48	18.00



【LTE Band 42 (96)_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				43190	43340	43490	Tune-up limit (dBm)
Frequency (MHz)				3560	3575	3590	
20	QPSK	1	0	22.89	22.93	22.89	23.00
20	QPSK	1	49	22.84	22.92	22.85	23.00
20	QPSK	1	99	22.81	22.89	22.82	23.00
20	QPSK	50	0	21.94	21.97	21.94	22.00
20	QPSK	50	24	21.89	21.89	21.92	22.00
20	QPSK	50	50	21.87	21.87	21.90	22.00
20	QPSK	100	0	21.92	21.96	21.95	22.00
20	16QAM	1	0	21.99	21.87	21.94	22.00
20	16QAM	1	49	21.86	21.98	21.96	22.00
20	16QAM	1	99	21.93	21.83	21.88	22.00
20	16QAM	50	0	20.91	20.93	20.92	21.00
20	16QAM	50	24	20.91	20.98	20.95	21.00
20	16QAM	50	50	20.90	20.99	20.94	21.00
20	16QAM	100	0	20.92	20.96	20.93	21.00
20	64QAM	1	0	20.88	20.87	20.77	21.00
20	64QAM	1	49	20.93	20.88	20.85	21.00
20	64QAM	1	99	20.85	20.84	20.83	21.00
20	64QAM	50	0	19.90	19.89	19.91	20.00
20	64QAM	50	24	19.91	19.98	19.98	20.00
20	64QAM	50	50	19.82	19.94	19.94	20.00
20	64QAM	100	0	19.89	19.96	19.91	20.00
20	256QAM	1	0	17.87	17.78	17.78	18.00
20	256QAM	1	49	17.96	17.82	17.79	18.00
20	256QAM	1	99	17.86	17.61	17.59	18.00
20	256QAM	50	0	17.97	17.96	18.00	18.00
20	256QAM	50	24	17.97	17.99	17.95	18.00
20	256QAM	50	50	17.91	17.94	17.89	18.00
20	256QAM	100	0	17.93	18.00	17.96	18.00
Channel				43165	43340	43515	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3575	3592.5	
15	QPSK	1	0	22.75	22.81	22.81	23.00
15	QPSK	1	37	22.72	22.82	22.81	23.00
15	QPSK	1	74	22.73	22.75	22.72	23.00
15	QPSK	36	0	21.91	21.93	21.90	22.00
15	QPSK	36	20	21.78	21.85	21.86	22.00
15	QPSK	36	39	21.75	21.77	21.77	22.00
15	QPSK	75	0	21.83	21.90	21.87	22.00
15	16QAM	1	0	21.93	21.83	21.80	22.00
15	16QAM	1	37	21.82	21.94	21.93	22.00
15	16QAM	1	74	21.90	21.73	21.82	22.00
15	16QAM	36	0	20.86	20.83	20.85	21.00
15	16QAM	36	20	20.85	20.89	20.84	21.00
15	16QAM	36	39	20.78	20.85	20.92	21.00
15	16QAM	75	0	20.84	20.92	20.87	21.00
15	64QAM	1	0	20.85	20.83	20.68	21.00
15	64QAM	1	37	20.85	20.83	20.76	21.00
15	64QAM	1	74	20.81	20.79	20.81	21.00
15	64QAM	36	0	19.78	19.76	19.83	20.00
15	64QAM	36	20	19.89	19.86	19.96	20.00
15	64QAM	36	39	19.72	19.90	19.85	20.00
15	64QAM	75	0	19.84	19.93	19.77	20.00
15	256QAM	1	0	17.83	17.74	17.72	18.00
15	256QAM	1	37	17.83	17.79	17.77	18.00
15	256QAM	1	74	17.77	17.60	17.46	18.00
15	256QAM	36	0	17.84	17.82	17.86	18.00
15	256QAM	36	20	17.93	17.88	17.84	18.00
15	256QAM	36	39	17.77	17.91	17.88	18.00
15	256QAM	75	0	17.84	17.87	17.85	18.00
Channel				43140	43340	43540	Tune-up limit (dBm)
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	22.87	22.80	22.76	23.00
10	QPSK	1	25	22.70	22.77	22.76	23.00
10	QPSK	1	49	22.79	22.78	22.69	23.00
10	QPSK	25	0	21.89	21.92	21.80	22.00
10	QPSK	25	12	21.77	21.81	21.79	22.00
10	QPSK	25	25	21.85	21.85	21.84	22.00
10	QPSK	50	0	21.79	21.91	21.90	22.00
10	16QAM	1	0	21.97	21.84	21.80	22.00
10	16QAM	1	25	21.73	21.91	21.91	22.00
10	16QAM	1	49	21.84	21.81	21.85	22.00



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10	16QAM	25	0	20.83	20.88	20.80	21.00
10	16QAM	25	12	20.84	20.84	20.87	21.00
10	16QAM	25	25	20.79	20.91	20.86	21.00
10	16QAM	50	0	20.90	20.84	20.81	21.00
10	64QAM	1	0	20.83	20.86	20.75	21.00
10	64QAM	1	25	20.84	20.78	20.75	21.00
10	64QAM	1	49	20.74	20.74	20.72	21.00
10	64QAM	25	0	19.76	19.74	19.82	20.00
10	64QAM	25	12	19.89	19.86	19.85	20.00
10	64QAM	25	25	19.69	19.92	19.92	20.00
10	64QAM	50	0	19.87	19.84	19.88	20.00
10	256QAM	1	0	17.75	17.74	17.74	18.00
10	256QAM	1	25	17.89	17.67	17.67	18.00
10	256QAM	1	49	17.83	17.55	17.56	18.00
10	256QAM	25	0	17.85	17.81	17.96	18.00
10	256QAM	25	12	17.88	17.97	17.90	18.00
10	256QAM	25	25	17.86	17.79	17.78	18.00
10	256QAM	50	0	17.86	17.93	17.92	18.00
Channel				43115	43340	43565	Tune-up limit
Frequency (MHz)				3552.5	3575	3597.5	(dBm)
5	QPSK	1	0	22.78	22.82	22.87	23.00
5	QPSK	1	12	22.76	22.78	22.71	23.00
5	QPSK	1	24	22.75	22.78	22.73	23.00
5	QPSK	12	0	21.89	21.93	21.86	22.00
5	QPSK	12	7	21.76	21.74	21.82	22.00
5	QPSK	12	13	21.75	21.77	21.76	22.00
5	QPSK	25	0	21.88	21.91	21.85	22.00
5	16QAM	1	0	21.89	21.76	21.82	22.00
5	16QAM	1	12	21.79	21.86	21.89	22.00
5	16QAM	1	24	21.92	21.76	21.78	22.00
5	16QAM	12	0	20.85	20.89	20.81	21.00
5	16QAM	12	7	20.83	20.91	20.90	21.00
5	16QAM	12	13	20.85	20.96	20.87	21.00
5	16QAM	25	0	20.84	20.82	20.79	21.00
5	64QAM	1	0	20.87	20.78	20.75	21.00
5	64QAM	1	12	20.91	20.84	20.79	21.00
5	64QAM	1	24	20.75	20.83	20.79	21.00
5	64QAM	12	0	19.86	19.79	19.79	20.00
5	64QAM	12	7	19.86	19.90	19.86	20.00
5	64QAM	12	13	19.74	19.87	19.85	20.00
5	64QAM	25	0	19.75	19.95	19.89	20.00
5	256QAM	1	0	17.83	17.67	17.71	18.00
5	256QAM	1	12	17.94	17.81	17.64	18.00
5	256QAM	1	24	17.80	17.59	17.50	18.00
5	256QAM	12	0	17.90	17.88	17.86	18.00
5	256QAM	12	7	17.84	17.95	17.82	18.00
5	256QAM	12	13	17.79	17.82	17.83	18.00
5	256QAM	25	0	17.86	17.90	17.81	18.00

**【LTE Band 42 (96)_Tablet】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				43190	43340	43490	Tune-up limit (dBm)
Frequency (MHz)				3560	3575	3590	
20	QPSK	1	0	16.98	16.98	16.97	17.00
20	QPSK	1	49	16.80	16.96	16.88	17.00
20	QPSK	1	99	16.78	16.90	16.80	17.00
20	QPSK	50	0	16.96	17.00	16.97	17.00
20	QPSK	50	24	16.95	16.99	16.86	17.00
20	QPSK	50	50	16.90	16.97	16.92	17.00
20	QPSK	100	0	16.92	16.97	16.85	17.00
20	16QAM	1	0	16.85	16.94	16.81	17.00
20	16QAM	1	49	16.92	16.99	16.94	17.00
20	16QAM	1	99	16.69	16.82	16.76	17.00
20	16QAM	50	0	16.92	16.97	16.99	17.00
20	16QAM	50	24	16.92	16.95	16.88	17.00
20	16QAM	50	50	16.97	16.94	16.88	17.00
20	16QAM	100	0	16.84	16.97	16.89	17.00
20	64QAM	1	0	16.82	16.97	16.83	17.00
20	64QAM	1	49	16.89	16.97	16.95	17.00
20	64QAM	1	99	16.79	16.87	16.79	17.00
20	64QAM	50	0	16.78	16.95	16.85	17.00
20	64QAM	50	24	16.78	16.95	16.94	17.00
20	64QAM	50	50	16.84	16.93	16.88	17.00
20	64QAM	100	0	16.92	16.96	16.91	17.00
20	256QAM	1	0	16.80	16.92	16.89	17.00
20	256QAM	1	49	16.80	16.93	16.83	17.00
20	256QAM	1	99	16.54	16.71	16.67	17.00
20	256QAM	50	0	16.76	16.83	16.78	17.00
20	256QAM	50	24	16.79	16.91	16.78	17.00
20	256QAM	50	50	16.75	16.89	16.78	17.00
20	256QAM	100	0	16.79	16.88	16.75	17.00
Channel				43165	43340	43515	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3575	3592.5	
15	QPSK	1	0	16.94	16.88	16.83	17.00
15	QPSK	1	37	16.79	16.91	16.75	17.00
15	QPSK	1	74	16.65	16.82	16.78	17.00
15	QPSK	36	0	16.85	16.92	16.86	17.00
15	QPSK	36	20	16.81	16.95	16.84	17.00
15	QPSK	36	39	16.78	16.90	16.78	17.00
15	QPSK	75	0	16.81	16.85	16.81	17.00
15	16QAM	1	0	16.82	16.87	16.70	17.00
15	16QAM	1	37	16.90	16.92	16.92	17.00
15	16QAM	1	74	16.56	16.75	16.65	17.00
15	16QAM	36	0	16.89	16.89	16.85	17.00
15	16QAM	36	20	16.82	16.98	16.84	17.00
15	16QAM	36	39	16.85	16.90	16.82	17.00
15	16QAM	75	0	16.70	16.93	16.85	17.00
15	64QAM	1	0	16.73	16.88	16.82	17.00
15	64QAM	1	37	16.83	16.86	16.92	17.00
15	64QAM	1	74	16.69	16.82	16.71	17.00
15	64QAM	36	0	16.76	16.89	16.71	17.00
15	64QAM	36	20	16.71	16.91	16.88	17.00
15	64QAM	36	39	16.71	16.88	16.79	17.00
15	64QAM	75	0	16.85	16.88	16.78	17.00
15	256QAM	1	0	16.71	16.91	16.76	17.00
15	256QAM	1	37	16.77	16.88	16.80	17.00
15	256QAM	1	74	16.48	16.63	16.61	17.00
15	256QAM	36	0	16.69	16.70	16.75	17.00
15	256QAM	36	20	16.75	16.88	16.76	17.00
15	256QAM	36	39	16.68	16.82	16.67	17.00
15	256QAM	75	0	16.76	16.81	16.63	17.00
Channel				43140	43340	43540	Tune-up limit (dBm)
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	16.93	16.84	16.95	17.00
10	QPSK	1	25	16.73	16.90	16.79	17.00
10	QPSK	1	49	16.67	16.87	16.69	17.00
10	QPSK	25	0	16.89	16.98	16.83	17.00
10	QPSK	25	12	16.89	16.93	16.83	17.00
10	QPSK	25	25	16.78	16.89	16.89	17.00
10	QPSK	50	0	16.89	16.88	16.77	17.00
10	16QAM	1	0	16.70	16.83	16.76	17.00
10	16QAM	1	25	16.87	16.91	16.85	17.00
10	16QAM	1	49	16.59	16.70	16.72	17.00



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10	16QAM	25	0	16.89	16.90	16.95	17.00
10	16QAM	25	12	16.82	16.95	16.77	17.00
10	16QAM	25	25	16.92	16.88	16.80	17.00
10	16QAM	50	0	16.78	16.95	16.87	17.00
10	64QAM	1	0	16.70	16.83	16.72	17.00
10	64QAM	1	25	16.76	16.89	16.94	17.00
10	64QAM	1	49	16.76	16.74	16.68	17.00
10	64QAM	25	0	16.75	16.85	16.82	17.00
10	64QAM	25	12	16.63	16.91	16.89	17.00
10	64QAM	25	25	16.79	16.82	16.86	17.00
10	64QAM	50	0	16.81	16.91	16.86	17.00
10	256QAM	1	0	16.66	16.84	16.77	17.00
10	256QAM	1	25	16.77	16.88	16.81	17.00
10	256QAM	1	49	16.46	16.70	16.62	17.00
10	256QAM	25	0	16.63	16.81	16.65	17.00
10	256QAM	25	12	16.69	16.79	16.65	17.00
10	256QAM	25	25	16.63	16.85	16.71	17.00
10	256QAM	50	0	16.71	16.77	16.67	17.00
Channel				43115	43340	43565	Tune-up limit
Frequency (MHz)				3552.5	3575	3597.5	(dBm)
5	QPSK	1	0	16.90	16.89	16.93	17.00
5	QPSK	1	12	16.71	16.94	16.77	17.00
5	QPSK	1	24	16.70	16.77	16.72	17.00
5	QPSK	12	0	16.94	16.95	16.85	17.00
5	QPSK	12	7	16.87	16.84	16.80	17.00
5	QPSK	12	13	16.83	16.87	16.84	17.00
5	QPSK	25	0	16.86	16.82	16.73	17.00
5	16QAM	1	0	16.75	16.87	16.74	17.00
5	16QAM	1	12	16.90	16.85	16.79	17.00
5	16QAM	1	24	16.65	16.80	16.64	17.00
5	16QAM	12	0	16.86	16.91	16.95	17.00
5	16QAM	12	7	16.91	16.98	16.78	17.00
5	16QAM	12	13	16.88	16.82	16.86	17.00
5	16QAM	25	0	16.74	16.89	16.74	17.00
5	64QAM	1	0	16.74	16.90	16.73	17.00
5	64QAM	1	12	16.76	16.87	16.93	17.00
5	64QAM	1	24	16.65	16.80	16.65	17.00
5	64QAM	12	0	16.75	16.94	16.82	17.00
5	64QAM	12	7	16.72	16.87	16.84	17.00
5	64QAM	12	13	16.73	16.88	16.82	17.00
5	64QAM	25	0	16.81	16.89	16.82	17.00
5	256QAM	1	0	16.78	16.79	16.84	17.00
5	256QAM	1	12	16.70	16.87	16.75	17.00
5	256QAM	1	24	16.42	16.60	16.57	17.00
5	256QAM	12	0	16.75	16.80	16.66	17.00
5	256QAM	12	7	16.77	16.77	16.65	17.00
5	256QAM	12	13	16.70	16.77	16.71	17.00
5	256QAM	25	0	16.71	16.80	16.72	17.00



【LTE Band 43 (96)_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				43690	44090	44490	Tune-up limit (dBm)
Frequency (MHz)				3610	3650	3690	
20	QPSK	1	0	22.95	22.97	22.68	23.00
20	QPSK	1	49	22.79	22.95	22.63	23.00
20	QPSK	1	99	22.82	22.92	22.65	23.00
20	QPSK	50	0	21.96	21.99	21.75	22.00
20	QPSK	50	24	21.87	21.94	21.68	22.00
20	QPSK	50	50	21.94	21.93	21.60	22.00
20	QPSK	100	0	21.98	21.90	21.63	22.00
20	16QAM	1	0	21.82	21.95	21.63	22.00
20	16QAM	1	49	21.84	21.93	21.66	22.00
20	16QAM	1	99	21.82	21.99	21.65	22.00
20	16QAM	50	0	20.87	20.94	20.70	21.00
20	16QAM	50	24	20.79	20.93	20.70	21.00
20	16QAM	50	50	21.00	20.94	20.62	21.00
20	16QAM	100	0	20.95	20.90	20.67	21.00
20	64QAM	1	0	20.73	20.89	20.58	21.00
20	64QAM	1	49	21.00	20.90	20.58	21.00
20	64QAM	1	99	20.93	20.86	20.51	21.00
20	64QAM	50	0	19.79	19.91	19.69	20.00
20	64QAM	50	24	19.73	19.87	19.67	20.00
20	64QAM	50	50	20.00	19.97	19.57	20.00
20	64QAM	100	0	19.96	19.87	19.62	20.00
20	256QAM	1	0	17.92	17.89	17.46	18.00
20	256QAM	1	49	17.97	17.98	17.51	18.00
20	256QAM	1	99	17.73	17.59	17.19	18.00
20	256QAM	50	0	17.86	17.93	17.68	18.00
20	256QAM	50	24	17.99	17.94	17.68	18.00
20	256QAM	50	50	17.87	17.82	17.49	18.00
20	256QAM	100	0	17.97	17.93	17.63	18.00
Channel				43665	44090	44515	Tune-up limit (dBm)
Frequency (MHz)				3607.5	3650	3692.5	
15	QPSK	1	0	22.89	22.90	22.61	23.00
15	QPSK	1	37	22.66	22.86	22.60	23.00
15	QPSK	1	74	22.70	22.86	22.58	23.00
15	QPSK	36	0	21.79	21.86	21.71	22.00
15	QPSK	36	20	21.77	21.79	21.60	22.00
15	QPSK	36	39	21.97	21.84	21.52	22.00
15	QPSK	75	0	21.87	21.76	21.60	22.00
15	16QAM	1	0	21.68	21.80	21.57	22.00
15	16QAM	1	37	21.79	21.82	21.63	22.00
15	16QAM	1	74	21.73	21.90	21.50	22.00
15	16QAM	36	0	20.78	20.87	20.59	21.00
15	16QAM	36	20	20.74	20.81	20.67	21.00
15	16QAM	36	39	20.91	20.85	20.60	21.00
15	16QAM	75	0	20.85	20.84	20.61	21.00
15	64QAM	1	0	20.63	20.75	20.43	21.00
15	64QAM	1	37	20.87	20.78	20.48	21.00
15	64QAM	1	74	20.89	20.84	20.42	21.00
15	64QAM	36	0	19.74	19.90	19.58	20.00
15	64QAM	36	20	19.60	19.80	19.60	20.00
15	64QAM	36	39	19.88	19.83	19.52	20.00
15	64QAM	75	0	19.87	19.77	19.50	20.00
15	256QAM	1	0	17.84	17.80	17.37	18.00
15	256QAM	1	37	18.00	17.86	17.41	18.00
15	256QAM	1	74	17.59	17.58	17.14	18.00
15	256QAM	36	0	17.78	17.79	17.55	18.00
15	256QAM	36	20	17.90	17.88	17.62	18.00
15	256QAM	36	39	17.84	17.75	17.39	18.00
15	256QAM	75	0	17.90	17.82	17.48	18.00
Channel				43640	44090	44540	Tune-up limit (dBm)
Frequency (MHz)				3605	3650	3695	
10	QPSK	1	0	22.88	22.90	22.61	23.00
10	QPSK	1	25	22.72	22.82	22.50	23.00
10	QPSK	1	49	22.71	22.91	22.53	23.00
10	QPSK	25	0	21.81	21.93	21.68	22.00
10	QPSK	25	12	21.78	21.90	21.61	22.00
10	QPSK	25	25	21.96	21.91	21.58	22.00
10	QPSK	50	0	21.93	21.82	21.49	22.00
10	16QAM	1	0	21.79	21.83	21.57	22.00
10	16QAM	1	25	21.80	21.86	21.53	22.00
10	16QAM	1	49	21.73	21.91	21.58	22.00



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10	16QAM	25	0	20.76	20.83	20.57	21.00
10	16QAM	25	12	20.74	20.88	20.66	21.00
10	16QAM	25	25	20.86	20.88	20.55	21.00
10	16QAM	50	0	20.85	20.79	20.63	21.00
10	64QAM	1	0	20.65	20.76	20.51	21.00
10	64QAM	1	25	20.90	20.88	20.53	21.00
10	64QAM	1	49	20.88	20.71	20.49	21.00
10	64QAM	25	0	19.67	19.83	19.65	20.00
10	64QAM	25	12	19.72	19.75	19.59	20.00
10	64QAM	25	25	19.91	19.86	19.48	20.00
10	64QAM	50	0	19.83	19.77	19.56	20.00
10	256QAM	1	0	17.91	17.83	17.37	18.00
10	256QAM	1	25	17.96	17.86	17.39	18.00
10	256QAM	1	49	17.68	17.58	17.12	18.00
10	256QAM	25	0	17.74	17.92	17.56	18.00
10	256QAM	25	12	17.94	17.91	17.65	18.00
10	256QAM	25	25	17.76	17.76	17.40	18.00
10	256QAM	50	0	17.93	17.91	17.50	18.00
Channel				43615	44090	44565	Tune-up limit
Frequency (MHz)				3602.5	3650	3697.5	(dBm)
5	QPSK	1	0	22.83	22.96	22.55	23.00
5	QPSK	1	12	22.69	22.81	22.50	23.00
5	QPSK	1	24	22.71	22.83	22.57	23.00
5	QPSK	12	0	21.88	21.85	21.73	22.00
5	QPSK	12	7	21.74	21.79	21.56	22.00
5	QPSK	12	13	21.85	21.82	21.50	22.00
5	QPSK	25	0	21.91	21.88	21.49	22.00
5	16QAM	1	0	21.76	21.91	21.60	22.00
5	16QAM	1	12	21.79	21.81	21.54	22.00
5	16QAM	1	24	21.68	21.96	21.58	22.00
5	16QAM	12	0	20.73	20.81	20.62	21.00
5	16QAM	12	7	20.72	20.84	20.67	21.00
5	16QAM	12	13	20.91	20.87	20.48	21.00
5	16QAM	25	0	20.88	20.85	20.59	21.00
5	64QAM	1	0	20.65	20.81	20.54	21.00
5	64QAM	1	12	20.91	20.85	20.55	21.00
5	64QAM	1	24	20.92	20.78	20.38	21.00
5	64QAM	12	0	19.73	19.80	19.66	20.00
5	64QAM	12	7	19.71	19.76	19.65	20.00
5	64QAM	12	13	19.92	19.83	19.47	20.00
5	64QAM	25	0	19.94	19.85	19.54	20.00
5	256QAM	1	0	17.86	17.84	17.33	18.00
5	256QAM	1	12	18.00	17.93	17.41	18.00
5	256QAM	1	24	17.71	17.46	17.07	18.00
5	256QAM	12	0	17.74	17.82	17.56	18.00
5	256QAM	12	7	17.90	17.79	17.57	18.00
5	256QAM	12	13	17.78	17.75	17.47	18.00
5	256QAM	25	0	17.88	17.84	17.53	18.00

**【LTE Band 43 (96)_Tablet】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				43690	44090	44490	Tune-up limit (dBm)
Frequency (MHz)				3610	3650	3690	
20	QPSK	1	0	14.93	15.05	14.56	16.00
20	QPSK	1	49	14.66	14.89	14.38	16.00
20	QPSK	1	99	14.62	14.88	14.36	16.00
20	QPSK	50	0	14.87	15.00	14.43	16.00
20	QPSK	50	24	14.73	14.98	14.39	16.00
20	QPSK	50	50	14.71	14.91	14.40	16.00
20	QPSK	100	0	14.79	14.94	14.44	16.00
20	16QAM	1	0	14.62	14.84	14.27	16.00
20	16QAM	1	49	14.60	14.80	14.25	16.00
20	16QAM	1	99	14.61	14.87	14.37	16.00
20	16QAM	50	0	14.73	14.96	14.37	16.00
20	16QAM	50	24	14.74	14.93	14.36	16.00
20	16QAM	50	50	14.73	14.88	14.32	16.00
20	16QAM	100	0	14.66	14.87	14.31	16.00
20	64QAM	1	0	14.76	14.97	14.44	16.00
20	64QAM	1	49	14.80	14.94	14.41	16.00
20	64QAM	1	99	14.66	14.84	14.34	16.00
20	64QAM	50	0	14.76	14.94	14.35	16.00
20	64QAM	50	24	14.66	14.85	14.29	16.00
20	64QAM	50	50	14.79	14.97	14.40	16.00
20	64QAM	100	0	14.68	14.84	14.30	16.00
20	256QAM	1	0	14.63	14.88	14.32	16.00
20	256QAM	1	49	14.63	14.89	14.38	16.00
20	256QAM	1	99	14.36	14.58	14.09	16.00
20	256QAM	50	0	14.66	14.90	14.31	16.00
20	256QAM	50	24	14.74	14.91	14.36	16.00
20	256QAM	50	50	14.54	14.71	14.21	16.00
20	256QAM	100	0	14.61	14.84	14.31	16.00
Channel				43665	44090	44515	Tune-up limit (dBm)
Frequency (MHz)				3607.5	3650	3692.5	
15	QPSK	1	0	14.86	15.02	14.51	16.00
15	QPSK	1	37	14.60	14.81	14.33	16.00
15	QPSK	1	74	14.56	14.79	14.26	16.00
15	QPSK	36	0	14.74	14.85	14.35	16.00
15	QPSK	36	20	14.66	14.89	14.30	16.00
15	QPSK	36	39	14.70	14.89	14.30	16.00
15	QPSK	75	0	14.77	14.89	14.31	16.00
15	16QAM	1	0	14.52	14.74	14.23	16.00
15	16QAM	1	37	14.48	14.67	14.17	16.00
15	16QAM	1	74	14.53	14.80	14.34	16.00
15	16QAM	36	0	14.63	14.86	14.25	16.00
15	16QAM	36	20	14.59	14.79	14.27	16.00
15	16QAM	36	39	14.67	14.79	14.30	16.00
15	16QAM	75	0	14.56	14.80	14.28	16.00
15	64QAM	1	0	14.72	14.93	14.34	16.00
15	64QAM	1	37	14.78	14.93	14.38	16.00
15	64QAM	1	74	14.64	14.70	14.21	16.00
15	64QAM	36	0	14.71	14.93	14.33	16.00
15	64QAM	36	20	14.59	14.78	14.15	16.00
15	64QAM	36	39	14.73	14.88	14.28	16.00
15	64QAM	75	0	14.64	14.79	14.22	16.00
15	256QAM	1	0	14.58	14.77	14.30	16.00
15	256QAM	1	37	14.52	14.87	14.36	16.00
15	256QAM	1	74	14.22	14.50	14.02	16.00
15	256QAM	36	0	14.64	14.77	14.28	16.00
15	256QAM	36	20	14.69	14.77	14.34	16.00
15	256QAM	36	39	14.42	14.68	14.06	16.00
15	256QAM	75	0	14.49	14.79	14.17	16.00
Channel				43640	44090	44540	Tune-up limit (dBm)
Frequency (MHz)				3605	3650	3695	
10	QPSK	1	0	14.82	15.01	14.51	16.00
10	QPSK	1	25	14.56	14.75	14.27	16.00
10	QPSK	1	49	14.56	14.82	14.25	16.00
10	QPSK	25	0	14.79	14.95	14.39	16.00
10	QPSK	25	12	14.70	14.97	14.34	16.00
10	QPSK	25	25	14.57	14.81	14.28	16.00
10	QPSK	50	0	14.74	14.84	14.33	16.00
10	16QAM	1	0	14.58	14.82	14.22	16.00
10	16QAM	1	25	14.54	14.71	14.15	16.00
10	16QAM	1	49	14.53	14.84	14.33	16.00



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10	16QAM	25	0	14.67	14.82	14.31	16.00
10	16QAM	25	12	14.63	14.79	14.28	16.00
10	16QAM	25	25	14.59	14.80	14.28	16.00
10	16QAM	50	0	14.59	14.77	14.30	16.00
10	64QAM	1	0	14.75	14.95	14.35	16.00
10	64QAM	1	25	14.69	14.90	14.33	16.00
10	64QAM	1	49	14.58	14.79	14.19	16.00
10	64QAM	25	0	14.62	14.79	14.21	16.00
10	64QAM	25	12	14.52	14.73	14.17	16.00
10	64QAM	25	25	14.69	14.93	14.33	16.00
10	64QAM	50	0	14.56	14.82	14.18	16.00
10	256QAM	1	0	14.60	14.76	14.31	16.00
10	256QAM	1	25	14.51	14.75	14.28	16.00
10	256QAM	1	49	14.25	14.48	14.01	16.00
10	256QAM	25	0	14.63	14.84	14.23	16.00
10	256QAM	25	12	14.69	14.87	14.25	16.00
10	256QAM	25	25	14.42	14.63	14.08	16.00
10	256QAM	50	0	14.55	14.74	14.28	16.00
Channel				43615	44090	44565	Tune-up limit
Frequency (MHz)				3602.5	3650	3697.5	(dBm)
5	QPSK	1	0	14.87	14.92	14.48	16.00
5	QPSK	1	12	14.61	14.84	14.28	16.00
5	QPSK	1	24	14.56	14.73	14.35	16.00
5	QPSK	12	0	14.84	14.90	14.40	16.00
5	QPSK	12	7	14.64	14.90	14.35	16.00
5	QPSK	12	13	14.65	14.79	14.36	16.00
5	QPSK	25	0	14.74	14.86	14.35	16.00
5	16QAM	1	0	14.51	14.77	14.23	16.00
5	16QAM	1	12	14.51	14.70	14.20	16.00
5	16QAM	1	24	14.55	14.76	14.27	16.00
5	16QAM	12	0	14.70	14.87	14.26	16.00
5	16QAM	12	7	14.61	14.86	14.34	16.00
5	16QAM	12	13	14.59	14.83	14.22	16.00
5	16QAM	25	0	14.62	14.82	14.21	16.00
5	64QAM	1	0	14.70	14.87	14.40	16.00
5	64QAM	1	12	14.69	14.81	14.36	16.00
5	64QAM	1	24	14.64	14.81	14.26	16.00
5	64QAM	12	0	14.73	14.84	14.28	16.00
5	64QAM	12	7	14.60	14.73	14.16	16.00
5	64QAM	12	13	14.68	14.90	14.30	16.00
5	64QAM	25	0	14.64	14.74	14.25	16.00
5	256QAM	1	0	14.53	14.75	14.29	16.00
5	256QAM	1	12	14.51	14.77	14.28	16.00
5	256QAM	1	24	14.31	14.46	14.07	16.00
5	256QAM	12	0	14.59	14.82	14.25	16.00
5	256QAM	12	7	14.68	14.87	14.34	16.00
5	256QAM	12	13	14.46	14.66	14.08	16.00
5	256QAM	25	0	14.59	14.71	14.25	16.00



【LTE Band 48_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	Tune-up limit (dBm)
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	20.95	21.00	20.91	20.64	21.00
20	QPSK	1	49	20.91	20.93	20.86	20.58	21.00
20	QPSK	1	99	20.87	20.91	20.90	20.54	21.00
20	QPSK	50	0	19.92	19.94	19.91	19.67	20.00
20	QPSK	50	24	19.74	19.89	19.74	19.64	20.00
20	QPSK	50	50	19.89	19.90	19.89	19.56	20.00
20	QPSK	100	0	19.91	20.00	19.99	19.62	20.00
20	16QAM	1	0	19.84	20.00	19.93	19.60	20.00
20	16QAM	1	49	19.91	19.94	19.92	19.70	20.00
20	16QAM	1	99	19.88	20.00	19.98	19.61	20.00
20	16QAM	50	0	18.82	18.93	18.99	18.62	19.00
20	16QAM	50	24	18.99	18.98	18.87	18.62	19.00
20	16QAM	50	50	18.84	18.92	18.91	18.45	19.00
20	16QAM	100	0	18.94	18.97	18.77	18.62	19.00
20	64QAM	1	0	18.89	18.92	18.86	18.58	19.00
20	64QAM	1	49	18.87	18.96	18.91	18.58	19.00
20	64QAM	1	99	18.79	18.96	18.85	18.58	19.00
20	64QAM	50	0	17.87	18.00	17.87	17.69	18.00
20	64QAM	50	24	17.81	17.98	17.80	17.70	18.00
20	64QAM	50	50	17.96	17.95	18.00	17.60	18.00
20	64QAM	100	0	17.93	17.97	17.95	17.61	18.00
20	256QAM	1	0	15.82	15.89	15.75	15.50	16.00
20	256QAM	1	49	15.95	15.91	15.86	15.62	16.00
20	256QAM	1	99	15.61	15.73	15.52	15.28	16.00
20	256QAM	50	0	15.98	15.95	15.98	15.65	16.00
20	256QAM	50	24	15.92	15.98	15.84	15.68	16.00
20	256QAM	50	50	15.73	15.84	15.82	15.43	16.00
20	256QAM	100	0	15.96	15.97	15.94	15.65	16.00
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	20.86	20.88	20.87	20.51	21.00
15	QPSK	1	37	20.83	20.79	20.79	20.50	21.00
15	QPSK	1	74	20.85	20.79	20.77	20.47	21.00
15	QPSK	36	0	19.90	19.86	19.79	19.54	20.00
15	QPSK	36	20	19.67	19.77	19.69	19.56	20.00
15	QPSK	36	39	19.86	19.76	19.78	19.52	20.00
15	QPSK	75	0	19.87	19.93	19.89	19.59	20.00
15	16QAM	1	0	19.78	19.89	19.80	19.48	20.00
15	16QAM	1	37	19.77	19.90	19.79	19.59	20.00
15	16QAM	1	74	19.86	19.96	19.87	19.58	20.00
15	16QAM	36	0	18.70	18.82	18.94	18.52	19.00
15	16QAM	36	20	18.90	18.91	18.84	18.59	19.00
15	16QAM	36	39	18.71	18.78	18.78	18.42	19.00
15	16QAM	75	0	18.87	18.92	18.66	18.57	19.00
15	64QAM	1	0	18.86	18.82	18.74	18.50	19.00
15	64QAM	1	37	18.86	18.89	18.81	18.53	19.00
15	64QAM	1	74	18.77	18.82	18.80	18.49	19.00
15	64QAM	36	0	17.76	17.93	17.83	17.65	18.00
15	64QAM	36	20	17.66	17.87	17.67	17.62	18.00
15	64QAM	36	39	17.93	17.81	17.95	17.52	18.00
15	64QAM	75	0	17.84	17.87	17.92	17.48	18.00
15	256QAM	1	0	15.74	15.80	15.68	15.37	16.00
15	256QAM	1	37	15.92	15.85	15.74	15.58	16.00
15	256QAM	1	74	15.49	15.59	15.37	15.26	16.00
15	256QAM	36	0	15.92	15.88	15.87	15.58	16.00
15	256QAM	36	20	15.85	15.93	15.80	15.66	16.00
15	256QAM	36	39	15.65	15.82	15.70	15.30	16.00
15	256QAM	75	0	15.84	15.91	15.79	15.59	16.00
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	20.88	20.92	20.89	20.51	21.00
10	QPSK	1	25	20.81	20.85	20.75	20.45	21.00
10	QPSK	1	49	20.74	20.89	20.88	20.43	21.00
10	QPSK	25	0	19.85	19.89	19.84	19.62	20.00
10	QPSK	25	12	19.67	19.80	19.64	19.55	20.00
10	QPSK	25	25	19.82	19.78	19.87	19.55	20.00
10	QPSK	50	0	19.78	19.94	19.90	19.53	20.00
10	16QAM	1	0	19.81	19.96	19.92	19.50	20.00
10	16QAM	1	25	19.77	19.84	19.89	19.58	20.00
10	16QAM	1	49	19.78	19.85	19.84	19.56	20.00



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10	16QAM	25	0	18.76	18.80	18.85	18.53	19.00
10	16QAM	25	12	18.93	18.86	18.73	18.51	19.00
10	16QAM	25	25	18.80	18.85	18.79	18.31	19.00
10	16QAM	50	0	18.87	18.87	18.73	18.57	19.00
10	64QAM	1	0	18.83	18.82	18.82	18.46	19.00
10	64QAM	1	25	18.73	18.91	18.82	18.46	19.00
10	64QAM	1	49	18.74	18.94	18.80	18.54	19.00
10	64QAM	25	0	17.85	17.95	17.84	17.67	18.00
10	64QAM	25	12	17.78	17.94	17.67	17.58	18.00
10	64QAM	25	25	17.82	17.85	17.87	17.59	18.00
10	64QAM	50	0	17.90	17.87	17.80	17.53	18.00
10	256QAM	1	0	15.71	15.85	15.65	15.42	16.00
10	256QAM	1	25	15.90	15.90	15.75	15.55	16.00
10	256QAM	1	49	15.55	15.67	15.38	15.27	16.00
10	256QAM	25	0	15.94	15.84	15.89	15.58	16.00
10	256QAM	25	12	15.78	15.84	15.81	15.62	16.00
10	256QAM	25	25	15.68	15.78	15.80	15.35	16.00
10	256QAM	50	0	15.89	15.88	15.86	15.54	16.00
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	20.88	20.95	20.90	20.56	21.00
5	QPSK	1	12	20.87	20.78	20.79	20.56	21.00
5	QPSK	1	24	20.74	20.84	20.83	20.43	21.00
5	QPSK	12	0	19.89	19.84	19.81	19.66	20.00
5	QPSK	12	7	19.64	19.79	19.72	19.49	20.00
5	QPSK	12	13	19.81	19.76	19.76	19.52	20.00
5	QPSK	25	0	19.88	19.96	19.88	19.47	20.00
5	16QAM	1	0	19.75	19.96	19.89	19.54	20.00
5	16QAM	1	12	19.86	19.79	19.77	19.61	20.00
5	16QAM	1	24	19.85	19.89	19.92	19.60	20.00
5	16QAM	12	0	18.67	18.89	18.87	18.57	19.00
5	16QAM	12	7	18.90	18.83	18.74	18.53	19.00
5	16QAM	12	13	18.77	18.88	18.81	18.40	19.00
5	16QAM	25	0	18.82	18.96	18.69	18.53	19.00
5	64QAM	1	0	18.74	18.89	18.78	18.45	19.00
5	64QAM	1	12	18.86	18.88	18.90	18.44	19.00
5	64QAM	1	24	18.69	18.86	18.79	18.44	19.00
5	64QAM	12	0	17.85	17.94	17.82	17.64	18.00
5	64QAM	12	7	17.67	17.91	17.70	17.62	18.00
5	64QAM	12	13	17.83	17.93	17.92	17.48	18.00
5	64QAM	25	0	17.90	17.91	17.85	17.59	18.00
5	256QAM	1	0	15.77	15.86	15.72	15.39	16.00
5	256QAM	1	12	15.89	15.87	15.85	15.58	16.00
5	256QAM	1	24	15.49	15.69	15.42	15.24	16.00
5	256QAM	12	0	15.87	15.82	15.84	15.52	16.00
5	256QAM	12	7	15.78	15.90	15.73	15.61	16.00
5	256QAM	12	13	15.59	15.77	15.68	15.30	16.00
5	256QAM	25	0	15.94	15.95	15.86	15.58	16.00



【LTE Band 48_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	Tune-up limit (dBm)
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	16.02	16.11	15.77	15.50	17.00
20	QPSK	1	49	15.78	15.97	15.48	15.33	17.00
20	QPSK	1	99	15.84	15.96	15.51	15.24	17.00
20	QPSK	50	0	15.84	16.00	15.62	15.32	17.00
20	QPSK	50	24	15.82	15.99	15.51	15.30	17.00
20	QPSK	50	50	15.81	15.96	15.53	15.29	17.00
20	QPSK	100	0	15.75	15.89	15.52	15.23	17.00
20	16QAM	1	0	15.76	15.87	15.40	15.16	17.00
20	16QAM	1	49	15.64	15.76	15.34	15.07	17.00
20	16QAM	1	99	15.62	15.83	15.46	15.12	17.00
20	16QAM	50	0	15.85	15.97	15.58	15.30	17.00
20	16QAM	50	24	15.81	16.02	15.60	15.39	17.00
20	16QAM	50	50	15.74	15.94	15.55	15.27	17.00
20	16QAM	100	0	15.78	16.01	15.64	15.32	17.00
20	64QAM	1	0	15.90	16.01	15.61	15.31	17.00
20	64QAM	1	49	15.85	16.04	15.58	15.34	17.00
20	64QAM	1	99	15.84	16.00	15.60	15.33	17.00
20	64QAM	50	0	15.86	15.98	15.54	15.26	17.00
20	64QAM	50	24	15.74	15.96	15.56	15.32	17.00
20	64QAM	50	50	15.77	15.89	15.44	15.24	17.00
20	64QAM	100	0	15.71	15.85	15.44	15.22	17.00
20	256QAM	1	0	15.74	15.90	15.43	15.18	16.00
20	256QAM	1	49	15.73	15.85	15.44	15.16	16.00
20	256QAM	1	99	15.51	15.65	15.21	14.95	16.00
20	256QAM	50	0	15.73	15.94	15.55	15.26	16.00
20	256QAM	50	24	15.80	15.96	15.49	15.33	16.00
20	256QAM	50	50	15.71	15.83	15.44	15.12	16.00
20	256QAM	100	0	15.76	15.89	15.54	15.26	16.00
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	16.00	16.07	15.70	15.47	17.00
15	QPSK	1	37	15.71	15.96	15.39	15.22	17.00
15	QPSK	1	74	15.75	15.87	15.37	15.15	17.00
15	QPSK	36	0	15.79	15.90	15.61	15.24	17.00
15	QPSK	36	20	15.81	15.96	15.47	15.15	17.00
15	QPSK	36	39	15.75	15.90	15.47	15.23	17.00
15	QPSK	75	0	15.61	15.86	15.40	15.15	17.00
15	16QAM	1	0	15.73	15.73	15.28	15.10	17.00
15	16QAM	1	37	15.61	15.71	15.19	15.01	17.00
15	16QAM	1	74	15.54	15.72	15.37	15.06	17.00
15	16QAM	36	0	15.74	15.86	15.51	15.23	17.00
15	16QAM	36	20	15.67	16.00	15.47	15.36	17.00
15	16QAM	36	39	15.65	15.83	15.49	15.17	17.00
15	16QAM	75	0	15.70	15.94	15.53	15.25	17.00
15	64QAM	1	0	15.85	15.99	15.51	15.26	17.00
15	64QAM	1	37	15.71	15.96	15.50	15.28	17.00
15	64QAM	1	74	15.72	15.98	15.49	15.20	17.00
15	64QAM	36	0	15.80	15.95	15.53	15.23	17.00
15	64QAM	36	20	15.71	15.94	15.48	15.27	17.00
15	64QAM	36	39	15.65	15.75	15.36	15.17	17.00
15	64QAM	75	0	15.68	15.76	15.29	15.14	17.00
15	256QAM	1	0	15.68	15.80	15.29	15.10	16.00
15	256QAM	1	37	15.67	15.73	15.32	15.05	16.00
15	256QAM	1	74	15.49	15.51	15.13	14.84	16.00
15	256QAM	36	0	15.70	15.80	15.52	15.14	16.00
15	256QAM	36	20	15.65	15.91	15.40	15.18	16.00
15	256QAM	36	39	15.70	15.77	15.38	14.99	16.00
15	256QAM	75	0	15.66	15.76	15.40	15.23	16.00
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	15.89	15.98	15.65	15.37	17.00
10	QPSK	1	25	15.66	15.93	15.35	15.31	17.00
10	QPSK	1	49	15.70	15.90	15.48	15.09	17.00
10	QPSK	25	0	15.71	15.86	15.55	15.15	17.00
10	QPSK	25	12	15.83	15.90	15.39	15.16	17.00
10	QPSK	25	25	15.77	15.92	15.50	15.26	17.00
10	QPSK	50	0	15.72	15.77	15.39	15.11	17.00
10	16QAM	1	0	15.64	15.78	15.31	15.09	17.00
10	16QAM	1	25	15.62	15.65	15.24	15.00	17.00
10	16QAM	1	49	15.47	15.71	15.35	15.02	17.00



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10	16QAM	25	0	15.75	15.90	15.51	15.23	17.00
10	16QAM	25	12	15.73	15.95	15.49	15.27	17.00
10	16QAM	25	25	15.65	15.87	15.51	15.26	17.00
10	16QAM	50	0	15.74	15.92	15.62	15.22	17.00
10	64QAM	1	0	15.87	15.90	15.57	15.24	17.00
10	64QAM	1	25	15.82	15.96	15.45	15.28	17.00
10	64QAM	1	49	15.78	15.98	15.56	15.28	17.00
10	64QAM	25	0	15.81	15.85	15.53	15.17	17.00
10	64QAM	25	12	15.70	15.87	15.55	15.27	17.00
10	64QAM	25	25	15.64	15.83	15.30	15.16	17.00
10	64QAM	50	0	15.58	15.73	15.42	15.18	17.00
10	256QAM	1	0	15.73	15.85	15.33	15.12	16.00
10	256QAM	1	25	15.71	15.77	15.40	15.08	16.00
10	256QAM	1	49	15.44	15.62	15.15	14.86	16.00
10	256QAM	25	0	15.70	15.80	15.41	15.23	16.00
10	256QAM	25	12	15.76	15.95	15.45	15.31	16.00
10	256QAM	25	25	15.66	15.71	15.35	15.08	16.00
10	256QAM	50	0	15.64	15.83	15.53	15.24	16.00
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	15.89	15.98	15.76	15.46	17.00
5	QPSK	1	12	15.70	15.95	15.34	15.21	17.00
5	QPSK	1	24	15.79	15.91	15.44	15.13	17.00
5	QPSK	12	0	15.68	15.98	15.55	15.15	17.00
5	QPSK	12	7	15.69	15.91	15.37	15.20	17.00
5	QPSK	12	13	15.74	15.85	15.49	15.18	17.00
5	QPSK	25	0	15.63	15.75	15.47	15.09	17.00
5	16QAM	1	0	15.65	15.74	15.26	15.10	17.00
5	16QAM	1	12	15.56	15.74	15.27	15.01	17.00
5	16QAM	1	24	15.53	15.69	15.31	15.09	17.00
5	16QAM	12	0	15.73	15.92	15.56	15.16	17.00
5	16QAM	12	7	15.69	15.92	15.51	15.30	17.00
5	16QAM	12	13	15.62	15.86	15.42	15.22	17.00
5	16QAM	25	0	15.72	15.91	15.63	15.29	17.00
5	64QAM	1	0	15.81	15.89	15.50	15.24	17.00
5	64QAM	1	12	15.70	15.92	15.51	15.22	17.00
5	64QAM	1	24	15.83	15.89	15.47	15.19	17.00
5	64QAM	12	0	15.74	15.85	15.46	15.21	17.00
5	64QAM	12	7	15.64	15.87	15.54	15.18	17.00
5	64QAM	12	13	15.63	15.83	15.36	15.15	17.00
5	64QAM	25	0	15.63	15.71	15.33	15.10	17.00
5	256QAM	1	0	15.64	15.86	15.33	15.04	16.00
5	256QAM	1	12	15.72	15.84	15.35	15.13	16.00
5	256QAM	1	24	15.49	15.57	15.08	14.87	16.00
5	256QAM	12	0	15.59	15.86	15.49	15.14	16.00
5	256QAM	12	7	15.68	15.86	15.48	15.27	16.00
5	256QAM	12	13	15.59	15.79	15.40	14.99	16.00
5	256QAM	25	0	15.74	15.79	15.45	15.15	16.00



【LTE Band 66_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.89	22.95	22.55	23.00
20	QPSK	1	49	22.87	22.73	22.54	23.00
20	QPSK	1	99	22.79	22.48	22.42	23.00
20	QPSK	50	0	21.79	21.87	21.68	22.00
20	QPSK	50	24	21.70	21.73	21.61	22.00
20	QPSK	50	50	21.76	21.55	21.42	22.00
20	QPSK	100	0	21.88	21.75	21.55	22.00
20	16QAM	1	0	21.88	21.97	21.80	22.00
20	16QAM	1	49	21.80	21.91	21.77	22.00
20	16QAM	1	99	21.89	21.98	21.76	22.00
20	16QAM	50	0	20.88	20.76	20.32	21.00
20	16QAM	50	24	20.97	20.76	20.56	21.00
20	16QAM	50	50	20.95	20.70	20.53	21.00
20	16QAM	100	0	20.91	20.70	20.55	21.00
20	64QAM	1	0	20.96	20.75	20.65	21.00
20	64QAM	1	49	20.71	20.81	20.72	21.00
20	64QAM	1	99	20.92	20.71	20.56	21.00
20	64QAM	50	0	19.92	19.62	19.53	20.00
20	64QAM	50	24	19.90	19.76	19.48	20.00
20	64QAM	50	50	19.90	19.69	19.43	20.00
20	64QAM	100	0	19.95	19.69	19.52	20.00
20	256QAM	1	0	17.83	17.66	17.46	18.00
20	256QAM	1	49	17.73	17.84	17.75	18.00
20	256QAM	1	99	17.72	17.64	17.47	18.00
20	256QAM	50	0	17.93	17.63	17.46	18.00
20	256QAM	50	24	17.99	17.78	17.59	18.00
20	256QAM	50	50	17.85	17.59	17.49	18.00
20	256QAM	100	0	17.95	17.72	17.52	18.00
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.77	22.87	22.52	23.00
15	QPSK	1	37	22.78	22.63	22.48	23.00
15	QPSK	1	74	22.77	22.36	22.27	23.00
15	QPSK	36	0	21.78	21.74	21.65	22.00
15	QPSK	36	20	21.68	21.66	21.46	22.00
15	QPSK	36	39	21.70	21.48	21.37	22.00
15	QPSK	75	0	21.85	21.60	21.44	22.00
15	16QAM	1	0	21.83	21.88	21.66	22.00
15	16QAM	1	37	21.71	21.78	21.73	22.00
15	16QAM	1	74	21.77	21.86	21.62	22.00
15	16QAM	36	0	20.84	20.66	20.31	21.00
15	16QAM	36	20	20.88	20.72	20.53	21.00
15	16QAM	36	39	20.86	20.61	20.42	21.00
15	16QAM	75	0	20.78	20.59	20.54	21.00
15	64QAM	1	0	20.91	20.73	20.56	21.00
15	64QAM	1	37	20.59	20.72	20.65	21.00
15	64QAM	1	74	20.87	20.58	20.53	21.00
15	64QAM	36	0	19.82	19.57	19.48	20.00
15	64QAM	36	20	19.77	19.72	19.39	20.00
15	64QAM	36	39	19.80	19.57	19.41	20.00
15	64QAM	75	0	19.91	19.58	19.45	20.00
15	256QAM	1	0	17.74	17.63	17.41	18.00
15	256QAM	1	37	17.59	17.77	17.65	18.00
15	256QAM	1	74	17.67	17.51	17.34	18.00
15	256QAM	36	0	17.81	17.55	17.37	18.00
15	256QAM	36	20	17.90	17.64	17.53	18.00
15	256QAM	36	39	17.83	17.52	17.37	18.00
15	256QAM	75	0	17.82	17.68	17.43	18.00
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.79	22.84	22.42	23.00
10	QPSK	1	25	22.80	22.72	22.39	23.00
10	QPSK	1	49	22.67	22.38	22.28	23.00
10	QPSK	25	0	21.71	21.72	21.56	22.00
10	QPSK	25	12	21.59	21.66	21.58	22.00
10	QPSK	25	25	21.65	21.49	21.33	22.00
10	QPSK	50	0	21.82	21.73	21.53	22.00
10	16QAM	1	0	21.77	21.85	21.67	22.00
10	16QAM	1	25	21.66	21.80	21.71	22.00
10	16QAM	1	49	21.74	21.85	21.64	22.00



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10	16QAM	25	0	20.81	20.73	20.23	21.00
10	16QAM	25	12	20.88	20.69	20.49	21.00
10	16QAM	25	25	20.87	20.58	20.47	21.00
10	16QAM	50	0	20.84	20.63	20.54	21.00
10	64QAM	1	0	20.83	20.61	20.56	21.00
10	64QAM	1	25	20.69	20.70	20.70	21.00
10	64QAM	1	49	20.88	20.69	20.47	21.00
10	64QAM	25	0	19.90	19.58	19.42	20.00
10	64QAM	25	12	19.83	19.64	19.45	20.00
10	64QAM	25	25	19.84	19.61	19.36	20.00
10	64QAM	50	0	19.93	19.57	19.47	20.00
10	256QAM	1	0	17.81	17.64	17.40	18.00
10	256QAM	1	25	17.70	17.82	17.66	18.00
10	256QAM	1	49	17.70	17.53	17.43	18.00
10	256QAM	25	0	17.86	17.50	17.42	18.00
10	256QAM	25	12	17.97	17.64	17.53	18.00
10	256QAM	25	25	17.75	17.51	17.34	18.00
10	256QAM	50	0	17.94	17.65	17.45	18.00
Channel				131997	132322	132647	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	QPSK	1	0	22.82	22.86	22.54	23.00
5	QPSK	1	12	22.85	22.66	22.45	23.00
5	QPSK	1	24	22.71	22.46	22.30	23.00
5	QPSK	12	0	21.67	21.85	21.60	22.00
5	QPSK	12	7	21.67	21.63	21.54	22.00
5	QPSK	12	13	21.69	21.53	21.38	22.00
5	QPSK	25	0	21.82	21.61	21.42	22.00
5	16QAM	1	0	21.81	21.85	21.67	22.00
5	16QAM	1	12	21.68	21.88	21.69	22.00
5	16QAM	1	24	21.78	21.87	21.75	22.00
5	16QAM	12	0	20.80	20.66	20.19	21.00
5	16QAM	12	7	20.85	20.71	20.50	21.00
5	16QAM	12	13	20.88	20.56	20.41	21.00
5	16QAM	25	0	20.80	20.59	20.52	21.00
5	64QAM	1	0	20.89	20.72	20.59	21.00
5	64QAM	1	12	20.65	20.69	20.62	21.00
5	64QAM	1	24	20.89	20.70	20.50	21.00
5	64QAM	12	0	19.87	19.53	19.50	20.00
5	64QAM	12	7	19.85	19.68	19.44	20.00
5	64QAM	12	13	19.77	19.61	19.39	20.00
5	64QAM	25	0	19.83	19.63	19.43	20.00
5	256QAM	1	0	17.80	17.52	17.39	18.00
5	256QAM	1	12	17.69	17.77	17.66	18.00
5	256QAM	1	24	17.71	17.54	17.44	18.00
5	256QAM	12	0	17.82	17.53	17.36	18.00
5	256QAM	12	7	17.94	17.67	17.51	18.00
5	256QAM	12	13	17.79	17.49	17.36	18.00
5	256QAM	25	0	17.83	17.61	17.43	18.00
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	22.80	22.85	22.40	23.00
3	QPSK	1	8	22.76	22.62	22.45	23.00
3	QPSK	1	14	22.74	22.44	22.38	23.00
3	QPSK	8	0	21.74	21.75	21.67	22.00
3	QPSK	8	4	21.61	21.65	21.46	22.00
3	QPSK	8	7	21.66	21.40	21.32	22.00
3	QPSK	15	0	21.82	21.67	21.42	22.00
3	16QAM	1	0	21.81	21.93	21.66	22.00
3	16QAM	1	8	21.76	21.86	21.72	22.00
3	16QAM	1	14	21.76	21.88	21.75	22.00
3	16QAM	8	0	20.80	20.62	20.29	21.00
3	16QAM	8	4	20.96	20.73	20.55	21.00
3	16QAM	8	7	20.92	20.67	20.41	21.00
3	16QAM	15	0	20.83	20.66	20.43	21.00
3	64QAM	1	0	20.86	20.61	20.53	21.00
3	64QAM	1	8	20.58	20.75	20.59	21.00
3	64QAM	1	14	20.78	20.57	20.46	21.00
3	64QAM	8	0	19.89	19.48	19.50	20.00
3	64QAM	8	4	19.79	19.68	19.40	20.00
3	64QAM	8	7	19.85	19.64	19.32	20.00
3	64QAM	15	0	19.83	19.59	19.47	20.00
3	256QAM	1	0	17.76	17.57	17.37	18.00
3	256QAM	1	8	17.66	17.80	17.68	18.00
3	256QAM	1	14	17.69	17.52	17.37	18.00
3	256QAM	8	0	17.87	17.58	17.44	18.00
3	256QAM	8	4	17.93	17.64	17.44	18.00
3	256QAM	8	7	17.76	17.50	17.37	18.00
3	256QAM	15	0	17.93	17.62	17.45	18.00



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Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.76	22.86	22.48	23.00
1.4	QPSK	1	3	22.83	22.60	22.44	23.00
1.4	QPSK	1	5	22.64	22.36	22.36	23.00
1.4	QPSK	3	0	22.73	22.75	22.55	23.00
1.4	QPSK	3	1	22.60	22.66	22.54	23.00
1.4	QPSK	3	3	22.75	22.44	22.30	23.00
1.4	QPSK	6	0	21.86	21.70	21.48	22.00
1.4	16QAM	1	0	21.81	21.91	21.74	22.00
1.4	16QAM	1	3	21.73	21.86	21.65	22.00
1.4	16QAM	1	5	21.78	21.85	21.68	22.00
1.4	16QAM	3	0	21.76	21.62	21.27	22.00
1.4	16QAM	3	1	21.95	21.61	21.54	22.00
1.4	16QAM	3	3	21.91	21.64	21.39	22.00
1.4	16QAM	6	0	20.80	20.57	20.42	21.00
1.4	64QAM	1	0	20.91	20.71	20.54	21.00
1.4	64QAM	1	3	20.59	20.68	20.62	21.00
1.4	64QAM	1	5	20.81	20.69	20.48	21.00
1.4	64QAM	3	0	20.88	20.48	20.48	21.00
1.4	64QAM	3	1	20.87	20.64	20.44	21.00
1.4	64QAM	3	3	20.76	20.66	20.37	21.00
1.4	64QAM	6	0	19.80	19.68	19.39	20.00
1.4	256QAM	1	0	17.79	17.60	17.40	18.00
1.4	256QAM	1	3	17.68	17.71	17.62	18.00
1.4	256QAM	1	5	17.58	17.59	17.32	18.00
1.4	256QAM	3	0	17.82	17.58	17.32	18.00
1.4	256QAM	3	1	17.94	17.66	17.55	18.00
1.4	256QAM	3	3	17.72	17.52	17.47	18.00
1.4	256QAM	6	0	17.80	17.64	17.47	18.00



【LTE Band 66_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	17.84	17.87	17.64	18.50
20	QPSK	1	49	17.55	17.71	17.41	18.50
20	QPSK	1	99	17.51	17.58	17.34	18.50
20	QPSK	50	0	17.61	17.70	17.43	18.50
20	QPSK	50	24	17.57	17.69	17.42	18.50
20	QPSK	50	50	17.51	17.68	17.38	18.50
20	QPSK	100	0	17.54	17.66	17.37	18.50
20	16QAM	1	0	17.57	17.74	17.48	18.50
20	16QAM	1	49	17.50	17.65	17.34	18.50
20	16QAM	1	99	17.48	17.65	17.31	18.50
20	16QAM	50	0	17.56	17.69	17.35	18.50
20	16QAM	50	24	17.47	17.64	17.29	18.50
20	16QAM	50	50	17.46	17.53	17.19	18.50
20	16QAM	100	0	17.40	17.53	17.24	18.50
20	64QAM	1	0	17.65	17.81	17.56	18.50
20	64QAM	1	49	17.67	17.84	17.49	18.50
20	64QAM	1	99	17.68	17.76	17.45	18.50
20	64QAM	50	0	17.56	17.68	17.31	18.50
20	64QAM	50	24	17.64	17.79	17.55	18.50
20	64QAM	50	50	17.62	17.68	17.40	18.50
20	64QAM	100	0	17.55	17.65	17.31	18.50
20	256QAM	1	0	17.38	17.50	17.19	18.00
20	256QAM	1	49	17.54	17.61	17.25	18.00
20	256QAM	1	99	17.31	17.38	17.08	18.00
20	256QAM	50	0	17.40	17.45	17.15	18.00
20	256QAM	50	24	17.42	17.56	17.32	18.00
20	256QAM	50	50	17.31	17.37	17.02	18.00
20	256QAM	100	0	17.35	17.46	17.19	18.00
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	17.76	17.77	17.51	18.50
15	QPSK	1	37	17.53	17.65	17.34	18.50
15	QPSK	1	74	17.37	17.45	17.23	18.50
15	QPSK	36	0	17.54	17.58	17.33	18.50
15	QPSK	36	20	17.60	17.66	17.27	18.50
15	QPSK	36	39	17.50	17.56	17.33	18.50
15	QPSK	75	0	17.42	17.63	17.28	18.50
15	16QAM	1	0	17.50	17.67	17.39	18.50
15	16QAM	1	37	17.36	17.53	17.29	18.50
15	16QAM	1	74	17.42	17.51	17.17	18.50
15	16QAM	36	0	17.54	17.55	17.24	18.50
15	16QAM	36	20	17.44	17.59	17.22	18.50
15	16QAM	36	39	17.34	17.50	17.17	18.50
15	16QAM	75	0	17.29	17.40	17.13	18.50
15	64QAM	1	0	17.63	17.76	17.51	18.50
15	64QAM	1	37	17.57	17.81	17.37	18.50
15	64QAM	1	74	17.55	17.73	17.43	18.50
15	64QAM	36	0	17.43	17.57	17.21	18.50
15	64QAM	36	20	17.55	17.69	17.42	18.50
15	64QAM	36	39	17.48	17.66	17.27	18.50
15	64QAM	75	0	17.47	17.60	17.20	18.50
15	256QAM	1	0	17.24	17.44	17.15	18.00
15	256QAM	1	37	17.50	17.49	17.18	18.00
15	256QAM	1	74	17.30	17.34	17.00	18.00
15	256QAM	36	0	17.30	17.42	17.07	18.00
15	256QAM	36	20	17.37	17.44	17.19	18.00
15	256QAM	36	39	17.20	17.33	16.95	18.00
15	256QAM	75	0	17.30	17.40	17.13	18.00
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	17.71	17.81	17.62	18.50
10	QPSK	1	25	17.50	17.69	17.39	18.50
10	QPSK	1	49	17.41	17.48	17.31	18.50
10	QPSK	25	0	17.54	17.58	17.27	18.50
10	QPSK	25	12	17.51	17.56	17.28	18.50
10	QPSK	25	25	17.47	17.54	17.30	18.50
10	QPSK	50	0	17.50	17.55	17.27	18.50
10	16QAM	1	0	17.42	17.72	17.43	18.50
10	16QAM	1	25	17.39	17.63	17.23	18.50
10	16QAM	1	49	17.40	17.52	17.25	18.50



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10	16QAM	25	0	17.44	17.60	17.30	18.50
10	16QAM	25	12	17.39	17.51	17.28	18.50
10	16QAM	25	25	17.41	17.38	17.15	18.50
10	16QAM	50	0	17.28	17.52	17.23	18.50
10	64QAM	1	0	17.52	17.78	17.54	18.50
10	64QAM	1	25	17.54	17.80	17.35	18.50
10	64QAM	1	49	17.54	17.72	17.34	18.50
10	64QAM	25	0	17.49	17.64	17.18	18.50
10	64QAM	25	12	17.49	17.67	17.47	18.50
10	64QAM	25	25	17.54	17.57	17.39	18.50
10	64QAM	50	0	17.51	17.54	17.20	18.50
10	256QAM	1	0	17.31	17.42	17.06	18.00
10	256QAM	1	25	17.46	17.49	17.23	18.00
10	256QAM	1	49	17.25	17.29	16.96	18.00
10	256QAM	25	0	17.32	17.33	17.14	18.00
10	256QAM	25	12	17.31	17.53	17.30	18.00
10	256QAM	25	25	17.29	17.28	16.95	18.00
10	256QAM	50	0	17.33	17.41	17.13	18.00
Channel				131997	132322	132647	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	QPSK	1	0	17.82	17.86	17.58	18.50
5	QPSK	1	12	17.53	17.65	17.38	18.50
5	QPSK	1	24	17.48	17.47	17.26	18.50
5	QPSK	12	0	17.54	17.65	17.23	18.50
5	QPSK	12	7	17.50	17.56	17.30	18.50
5	QPSK	12	13	17.45	17.64	17.34	18.50
5	QPSK	25	0	17.49	17.53	17.25	18.50
5	16QAM	1	0	17.44	17.61	17.46	18.50
5	16QAM	1	12	17.40	17.56	17.33	18.50
5	16QAM	1	24	17.45	17.59	17.22	18.50
5	16QAM	12	0	17.54	17.55	17.20	18.50
5	16QAM	12	7	17.46	17.55	17.22	18.50
5	16QAM	12	13	17.44	17.45	17.15	18.50
5	16QAM	25	0	17.28	17.43	17.18	18.50
5	64QAM	1	0	17.58	17.70	17.46	18.50
5	64QAM	1	12	17.64	17.73	17.44	18.50
5	64QAM	1	24	17.66	17.62	17.30	18.50
5	64QAM	12	0	17.53	17.64	17.29	18.50
5	64QAM	12	7	17.59	17.68	17.49	18.50
5	64QAM	12	13	17.50	17.62	17.31	18.50
5	64QAM	25	0	17.50	17.61	17.17	18.50
5	256QAM	1	0	17.35	17.39	17.04	18.00
5	256QAM	1	12	17.40	17.49	17.12	18.00
5	256QAM	1	24	17.25	17.27	17.07	18.00
5	256QAM	12	0	17.36	17.40	17.09	18.00
5	256QAM	12	7	17.28	17.51	17.23	18.00
5	256QAM	12	13	17.25	17.26	16.98	18.00
5	256QAM	25	0	17.25	17.40	17.12	18.00
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	17.72	17.76	17.57	18.50
3	QPSK	1	8	17.52	17.58	17.33	18.50
3	QPSK	1	14	17.44	17.50	17.21	18.50
3	QPSK	8	0	17.46	17.57	17.26	18.50
3	QPSK	8	4	17.58	17.60	17.34	18.50
3	QPSK	8	7	17.50	17.53	17.37	18.50
3	QPSK	15	0	17.43	17.52	17.26	18.50
3	16QAM	1	0	17.52	17.72	17.45	18.50
3	16QAM	1	8	17.37	17.61	17.27	18.50
3	16QAM	1	14	17.42	17.51	17.24	18.50
3	16QAM	8	0	17.54	17.59	17.26	18.50
3	16QAM	8	4	17.45	17.62	17.15	18.50
3	16QAM	8	7	17.45	17.47	17.10	18.50
3	16QAM	15	0	17.30	17.42	17.09	18.50
3	64QAM	1	0	17.63	17.78	17.41	18.50
3	64QAM	1	8	17.65	17.80	17.43	18.50
3	64QAM	1	14	17.65	17.73	17.43	18.50
3	64QAM	8	0	17.47	17.65	17.22	18.50
3	64QAM	8	4	17.60	17.68	17.46	18.50
3	64QAM	8	7	17.54	17.54	17.33	18.50
3	64QAM	15	0	17.50	17.57	17.21	18.50
3	256QAM	1	0	17.37	17.40	17.11	18.00
3	256QAM	1	8	17.45	17.57	17.22	18.00
3	256QAM	1	14	17.23	17.34	16.95	18.00
3	256QAM	8	0	17.27	17.41	17.02	18.00
3	256QAM	8	4	17.40	17.52	17.28	18.00
3	256QAM	8	7	17.22	17.30	17.01	18.00
3	256QAM	15	0	17.34	17.32	17.12	18.00



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Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	17.81	17.86	17.60	18.50
1.4	QPSK	1	3	17.44	17.58	17.39	18.50
1.4	QPSK	1	5	17.38	17.53	17.30	18.50
1.4	QPSK	3	0	17.47	17.65	17.28	18.50
1.4	QPSK	3	1	17.49	17.64	17.35	18.50
1.4	QPSK	3	3	17.44	17.64	17.37	18.50
1.4	QPSK	6	0	17.43	17.64	17.36	18.50
1.4	16QAM	1	0	17.50	17.60	17.34	18.50
1.4	16QAM	1	3	17.40	17.59	17.26	18.50
1.4	16QAM	1	5	17.37	17.54	17.19	18.50
1.4	16QAM	3	0	17.51	17.64	17.20	18.50
1.4	16QAM	3	1	17.35	17.55	17.25	18.50
1.4	16QAM	3	3	17.31	17.51	17.12	18.50
1.4	16QAM	6	0	17.29	17.40	17.10	18.50
1.4	64QAM	1	0	17.58	17.69	17.54	18.50
1.4	64QAM	1	3	17.65	17.72	17.47	18.50
1.4	64QAM	1	5	17.61	17.74	17.40	18.50
1.4	64QAM	3	0	17.42	17.67	17.29	18.50
1.4	64QAM	3	1	17.60	17.69	17.41	18.50
1.4	64QAM	3	3	17.57	17.56	17.30	18.50
1.4	64QAM	6	0	17.51	17.62	17.27	18.50
1.4	256QAM	1	0	17.28	17.38	17.10	18.00
1.4	256QAM	1	3	17.46	17.55	17.21	18.00
1.4	256QAM	1	5	17.29	17.35	17.04	18.00
1.4	256QAM	3	0	17.30	17.32	17.01	18.00
1.4	256QAM	3	1	17.32	17.42	17.25	18.00
1.4	256QAM	3	3	17.23	17.23	16.91	18.00
1.4	256QAM	6	0	17.27	17.34	17.06	18.00

**【LTE Band 71_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	Tune-up limit (dBm)
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	23.87	23.97	23.77	24.00
20	QPSK	1	49	23.73	23.76	23.70	24.00
20	QPSK	1	99	23.55	23.69	23.52	24.00
20	QPSK	50	0	22.83	22.86	22.85	23.00
20	QPSK	50	24	22.78	22.83	22.81	23.00
20	QPSK	50	50	22.82	22.81	22.70	23.00
20	QPSK	100	0	22.83	22.85	22.82	23.00
20	16QAM	1	0	22.97	22.99	22.68	23.00
20	16QAM	1	49	22.97	22.89	22.89	23.00
20	16QAM	1	99	22.79	22.93	22.94	23.00
20	16QAM	50	0	21.90	21.92	21.90	22.00
20	16QAM	50	24	21.95	21.91	21.79	22.00
20	16QAM	50	50	21.76	21.80	21.86	22.00
20	16QAM	100	0	21.92	21.95	21.80	22.00
20	64QAM	1	0	21.81	21.92	21.68	22.00
20	64QAM	1	49	21.73	21.97	21.75	22.00
20	64QAM	1	99	21.94	21.99	21.87	22.00
20	64QAM	50	0	20.84	20.82	20.88	21.00
20	64QAM	50	24	20.86	20.80	20.84	21.00
20	64QAM	50	50	20.77	20.84	20.79	21.00
20	64QAM	100	0	20.87	20.88	20.74	21.00
20	256QAM	1	0	18.98	18.93	18.99	19.00
20	256QAM	1	49	18.96	18.94	18.73	19.00
20	256QAM	1	99	18.62	18.57	18.53	19.00
20	256QAM	50	0	18.86	18.96	18.82	19.00
20	256QAM	50	24	18.89	18.88	18.75	19.00
20	256QAM	50	50	18.79	18.72	18.70	19.00
20	256QAM	100	0	18.92	18.97	18.81	19.00
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.79	23.87	23.63	24.00
15	QPSK	1	37	23.67	23.71	23.67	24.00
15	QPSK	1	74	23.52	23.60	23.43	24.00
15	QPSK	36	0	22.72	22.84	22.70	23.00
15	QPSK	36	20	22.77	22.81	22.72	23.00
15	QPSK	36	39	22.78	22.68	22.57	23.00
15	QPSK	75	0	22.71	22.82	22.81	23.00
15	16QAM	1	0	22.85	22.87	22.60	23.00
15	16QAM	1	37	22.84	22.79	22.85	23.00
15	16QAM	1	74	22.69	22.81	22.90	23.00
15	16QAM	36	0	21.85	21.82	21.75	22.00
15	16QAM	36	20	21.80	21.83	21.71	22.00
15	16QAM	36	39	21.62	21.77	21.72	22.00
15	16QAM	75	0	21.79	21.90	21.67	22.00
15	64QAM	1	0	21.79	21.83	21.63	22.00
15	64QAM	1	37	21.68	21.93	21.67	22.00
15	64QAM	1	74	21.82	21.91	21.75	22.00
15	64QAM	36	0	20.81	20.68	20.84	21.00
15	64QAM	36	20	20.78	20.79	20.80	21.00
15	64QAM	36	39	20.66	20.83	20.64	21.00
15	64QAM	75	0	20.84	20.75	20.64	21.00
15	256QAM	1	0	18.87	18.90	18.86	19.00
15	256QAM	1	37	18.88	18.86	18.67	19.00
15	256QAM	1	74	18.48	18.55	18.46	19.00
15	256QAM	36	0	18.78	18.85	18.71	19.00
15	256QAM	36	20	18.84	18.76	18.69	19.00
15	256QAM	36	39	18.73	18.66	18.60	19.00
15	256QAM	75	0	18.88	18.85	18.72	19.00
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	23.78	23.92	23.69	24.00
10	QPSK	1	25	23.68	23.65	23.66	24.00
10	QPSK	1	49	23.47	23.57	23.45	24.00
10	QPSK	25	0	22.71	22.78	22.80	23.00
10	QPSK	25	12	22.76	22.73	22.80	23.00
10	QPSK	25	25	22.69	22.69	22.64	23.00
10	QPSK	50	0	22.77	22.77	22.72	23.00
10	16QAM	1	0	22.95	22.85	22.54	23.00
10	16QAM	1	25	22.91	22.81	22.84	23.00
10	16QAM	1	49	22.69	22.80	22.84	23.00



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10	16QAM	25	0	21.87	21.81	21.76	22.00
10	16QAM	25	12	21.89	21.88	21.71	22.00
10	16QAM	25	25	21.74	21.76	21.75	22.00
10	16QAM	50	0	21.85	21.90	21.67	22.00
10	64QAM	1	0	21.68	21.78	21.62	22.00
10	64QAM	1	25	21.65	21.84	21.68	22.00
10	64QAM	1	49	21.90	21.84	21.80	22.00
10	64QAM	25	0	20.75	20.77	20.81	21.00
10	64QAM	25	12	20.73	20.75	20.71	21.00
10	64QAM	25	25	20.65	20.75	20.71	21.00
10	64QAM	50	0	20.78	20.78	20.69	21.00
10	256QAM	1	0	18.94	18.91	18.87	19.00
10	256QAM	1	25	18.81	18.91	18.64	19.00
10	256QAM	1	49	18.50	18.53	18.45	19.00
10	256QAM	25	0	18.77	18.84	18.80	19.00
10	256QAM	25	12	18.81	18.74	18.74	19.00
10	256QAM	25	25	18.66	18.70	18.61	19.00
10	256QAM	50	0	18.85	18.87	18.70	19.00
Channel				133147	133297	133447	Tune-up limit
Frequency (MHz)				665.5	680.5	695.5	(dBm)
5	QPSK	1	0	23.80	23.93	23.62	24.00
5	QPSK	1	12	23.59	23.72	23.64	24.00
5	QPSK	1	24	23.53	23.58	23.49	24.00
5	QPSK	12	0	22.75	22.71	22.78	23.00
5	QPSK	12	7	22.75	22.79	22.78	23.00
5	QPSK	12	13	22.71	22.78	22.69	23.00
5	QPSK	25	0	22.71	22.75	22.78	23.00
5	16QAM	1	0	22.95	22.93	22.65	23.00
5	16QAM	1	12	22.86	22.86	22.88	23.00
5	16QAM	1	24	22.66	22.80	22.93	23.00
5	16QAM	12	0	21.77	21.89	21.83	22.00
5	16QAM	12	7	21.94	21.80	21.67	22.00
5	16QAM	12	13	21.65	21.77	21.73	22.00
5	16QAM	25	0	21.89	21.83	21.68	22.00
5	64QAM	1	0	21.67	21.82	21.66	22.00
5	64QAM	1	12	21.59	21.95	21.70	22.00
5	64QAM	1	24	21.91	21.96	21.74	22.00
5	64QAM	12	0	20.71	20.78	20.81	21.00
5	64QAM	12	7	20.74	20.79	20.81	21.00
5	64QAM	12	13	20.73	20.75	20.78	21.00
5	64QAM	25	0	20.73	20.84	20.64	21.00
5	256QAM	1	0	18.86	18.92	18.85	19.00
5	256QAM	1	12	18.83	18.82	18.64	19.00
5	256QAM	1	24	18.51	18.50	18.50	19.00
5	256QAM	12	0	18.80	18.90	18.76	19.00
5	256QAM	12	7	18.86	18.83	18.66	19.00
5	256QAM	12	13	18.77	18.66	18.63	19.00
5	256QAM	25	0	18.89	18.95	18.75	19.00



【LTE Band 71_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	Tune-up limit (dBm)
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	21.33	21.44	21.31	22.00
20	QPSK	1	49	21.15	21.37	21.12	22.00
20	QPSK	1	99	21.10	21.24	20.97	22.00
20	QPSK	50	0	20.94	21.16	20.97	22.00
20	QPSK	50	24	20.91	21.08	20.93	22.00
20	QPSK	50	50	20.93	21.05	20.83	22.00
20	QPSK	100	0	20.91	21.07	20.87	22.00
20	16QAM	1	0	21.21	21.36	21.17	22.00
20	16QAM	1	49	21.04	21.18	20.96	22.00
20	16QAM	1	99	21.07	21.27	21.10	22.00
20	16QAM	50	0	20.93	21.13	20.87	22.00
20	16QAM	50	24	20.84	21.03	20.87	22.00
20	16QAM	50	50	20.77	20.95	20.80	22.00
20	16QAM	100	0	20.89	21.08	20.85	22.00
20	64QAM	1	0	21.13	21.27	21.00	22.00
20	64QAM	1	49	21.06	21.26	21.05	22.00
20	64QAM	1	99	21.14	21.27	21.04	22.00
20	64QAM	50	0	20.62	20.82	20.63	21.00
20	64QAM	50	24	20.57	20.72	20.52	21.00
20	64QAM	50	50	20.67	20.80	20.66	21.00
20	64QAM	100	0	20.64	20.87	20.62	21.00
20	256QAM	1	0	18.72	18.93	18.79	19.00
20	256QAM	1	49	18.78	18.91	18.73	19.00
20	256QAM	1	99	18.37	18.50	18.38	19.00
20	256QAM	50	0	18.65	18.89	18.70	19.00
20	256QAM	50	24	18.58	18.78	18.58	19.00
20	256QAM	50	50	18.58	18.71	18.53	19.00
20	256QAM	100	0	18.83	18.95	18.80	19.00
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	21.27	21.32	21.24	22.00
15	QPSK	1	37	21.07	21.34	21.03	22.00
15	QPSK	1	74	21.03	21.19	20.92	22.00
15	QPSK	36	0	20.76	21.15	20.93	22.00
15	QPSK	36	20	20.87	21.05	20.79	22.00
15	QPSK	36	39	20.91	20.97	20.81	22.00
15	QPSK	75	0	20.76	20.97	20.79	22.00
15	16QAM	1	0	21.15	21.25	21.12	22.00
15	16QAM	1	37	20.92	21.11	20.90	22.00
15	16QAM	1	74	20.93	21.21	21.00	22.00
15	16QAM	36	0	20.82	21.08	20.78	22.00
15	16QAM	36	20	20.69	21.00	20.79	22.00
15	16QAM	36	39	20.64	20.82	20.74	22.00
15	16QAM	75	0	20.83	21.03	20.79	22.00
15	64QAM	1	0	21.06	21.26	20.99	22.00
15	64QAM	1	37	20.97	21.17	20.95	22.00
15	64QAM	1	74	21.05	21.24	21.01	22.00
15	64QAM	36	0	20.57	20.71	20.58	21.00
15	64QAM	36	20	20.49	20.66	20.43	21.00
15	64QAM	36	39	20.55	20.68	20.60	21.00
15	64QAM	75	0	20.51	20.77	20.48	21.00
15	256QAM	1	0	18.71	18.83	18.73	19.00
15	256QAM	1	37	18.73	18.83	18.71	19.00
15	256QAM	1	74	18.30	18.43	18.32	19.00
15	256QAM	36	0	18.54	18.76	18.64	19.00
15	256QAM	36	20	18.54	18.69	18.56	19.00
15	256QAM	36	39	18.51	18.61	18.48	19.00
15	256QAM	75	0	18.73	18.93	18.72	19.00
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	21.21	21.36	21.23	22.00
10	QPSK	1	25	21.09	21.23	21.05	22.00
10	QPSK	1	49	21.08	21.22	20.89	22.00
10	QPSK	25	0	20.84	21.06	20.88	22.00
10	QPSK	25	12	20.87	21.01	20.85	22.00
10	QPSK	25	25	20.88	21.03	20.69	22.00
10	QPSK	50	0	20.85	20.94	20.77	22.00
10	16QAM	1	0	21.11	21.24	21.05	22.00
10	16QAM	1	25	21.00	21.13	20.92	22.00
10	16QAM	1	49	20.97	21.21	20.99	22.00



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10	16QAM	25	0	20.90	21.05	20.84	22.00
10	16QAM	25	12	20.74	20.93	20.84	22.00
10	16QAM	25	25	20.68	20.90	20.78	22.00
10	16QAM	50	0	20.84	20.96	20.75	22.00
10	64QAM	1	0	21.00	21.20	20.93	22.00
10	64QAM	1	25	21.02	21.16	20.91	22.00
10	64QAM	1	49	21.12	21.16	20.98	22.00
10	64QAM	25	0	20.50	20.75	20.54	21.00
10	64QAM	25	12	20.45	20.71	20.44	21.00
10	64QAM	25	25	20.62	20.76	20.57	21.00
10	64QAM	50	0	20.59	20.82	20.60	21.00
10	256QAM	1	0	18.63	18.79	18.72	19.00
10	256QAM	1	25	18.76	18.81	18.66	19.00
10	256QAM	1	49	18.22	18.40	18.24	19.00
10	256QAM	25	0	18.54	18.87	18.58	19.00
10	256QAM	25	12	18.55	18.69	18.44	19.00
10	256QAM	25	25	18.49	18.57	18.41	19.00
10	256QAM	50	0	18.71	18.84	18.66	19.00
Channel				133147	133297	133447	Tune-up limit
Frequency (MHz)				665.5	680.5	695.5	(dBm)
5	QPSK	1	0	21.27	21.39	21.21	22.00
5	QPSK	1	12	21.06	21.33	21.00	22.00
5	QPSK	1	24	21.05	21.11	20.89	22.00
5	QPSK	12	0	20.78	21.09	20.86	22.00
5	QPSK	12	7	20.84	21.01	20.90	22.00
5	QPSK	12	13	20.92	20.95	20.74	22.00
5	QPSK	25	0	20.84	20.95	20.85	22.00
5	16QAM	1	0	21.16	21.29	21.09	22.00
5	16QAM	1	12	20.91	21.08	20.83	22.00
5	16QAM	1	24	21.06	21.24	21.06	22.00
5	16QAM	12	0	20.79	21.08	20.77	22.00
5	16QAM	12	7	20.75	20.97	20.81	22.00
5	16QAM	12	13	20.64	20.86	20.75	22.00
5	16QAM	25	0	20.84	21.03	20.79	22.00
5	64QAM	1	0	21.11	21.14	20.96	22.00
5	64QAM	1	12	21.01	21.15	20.92	22.00
5	64QAM	1	24	21.05	21.16	20.98	22.00
5	64QAM	12	0	20.56	20.69	20.62	21.00
5	64QAM	12	7	20.51	20.60	20.45	21.00
5	64QAM	12	13	20.65	20.71	20.60	21.00
5	64QAM	25	0	20.62	20.77	20.57	21.00
5	256QAM	1	0	18.61	18.89	18.67	19.00
5	256QAM	1	12	18.65	18.77	18.63	19.00
5	256QAM	1	24	18.25	18.41	18.31	19.00
5	256QAM	12	0	18.56	18.75	18.62	19.00
5	256QAM	12	7	18.44	18.73	18.50	19.00
5	256QAM	12	13	18.43	18.67	18.48	19.00
5	256QAM	25	0	18.71	18.86	18.71	19.00

**【LTE Band 106_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					134322		
Frequency (MHz)					899		
3	QPSK	1	0		23.80		24.00
3	QPSK	1	8		23.70		24.00
3	QPSK	1	14		23.72		24.00
3	QPSK	8	0		22.91		23.00
3	QPSK	8	4		22.92		23.00
3	QPSK	8	7		22.94		23.00
3	QPSK	15	0		22.92		23.00
3	16QAM	1	0		22.86		23.00
3	16QAM	1	8		22.93		23.00
3	16QAM	1	14		22.98		23.00
3	16QAM	8	0		21.94		22.00
3	16QAM	8	4		21.99		22.00
3	16QAM	8	7		21.96		22.00
3	16QAM	15	0		21.86		22.00
3	64QAM	1	0		21.22		22.00
3	64QAM	1	8		21.86		22.00
3	64QAM	1	14		21.90		22.00
3	64QAM	8	0		20.94		21.00
3	64QAM	8	4		20.85		21.00
3	64QAM	8	7		20.83		21.00
3	64QAM	15	0		20.88		21.00
3	256QAM	1	0		18.98		19.00
3	256QAM	1	8		18.93		19.00
3	256QAM	1	14		18.93		19.00
3	256QAM	8	0		18.86		19.00
3	256QAM	8	4		18.75		19.00
3	256QAM	8	7		18.87		19.00
3	256QAM	15	0		18.75		19.00
Channel				134314	134322	134330	Tune-up limit
Frequency (MHz)				898.2	899	899.8	(dBm)
1.4	QPSK	1	0	23.35	23.60	23.55	24.00
1.4	QPSK	1	3	23.15	23.50	23.43	24.00
1.4	QPSK	1	5	23.27	23.55	23.45	24.00
1.4	QPSK	3	0	22.43	22.72	22.57	24.00
1.4	QPSK	3	1	22.49	22.76	22.56	24.00
1.4	QPSK	3	3	22.47	22.79	22.70	24.00
1.4	QPSK	6	0	22.46	22.73	22.65	23.00
1.4	16QAM	1	0	22.41	22.69	22.51	23.00
1.4	16QAM	1	3	22.51	22.81	22.73	23.00
1.4	16QAM	1	5	22.45	22.79	22.71	23.00
1.4	16QAM	3	0	21.47	21.82	21.70	23.00
1.4	16QAM	3	1	21.59	21.84	21.65	23.00
1.4	16QAM	3	3	21.49	21.76	21.67	23.00
1.4	16QAM	6	0	21.46	21.72	21.63	22.00
1.4	64QAM	1	0	20.72	21.06	20.91	22.00
1.4	64QAM	1	3	21.34	21.68	21.62	22.00
1.4	64QAM	1	5	21.41	21.71	21.56	22.00
1.4	64QAM	3	0	20.53	20.83	20.67	22.00
1.4	64QAM	3	1	20.37	20.65	20.47	22.00
1.4	64QAM	3	3	20.30	20.66	20.53	22.00
1.4	64QAM	6	0	20.40	20.74	20.65	21.00
1.4	256QAM	1	0	18.46	18.78	18.72	19.00
1.4	256QAM	1	3	18.52	18.80	18.72	19.00
1.4	256QAM	1	5	18.47	18.76	18.62	19.00
1.4	256QAM	3	0	18.40	18.73	18.59	19.00
1.4	256QAM	3	1	18.41	18.63	18.57	19.00
1.4	256QAM	3	3	18.48	18.73	18.55	19.00
1.4	256QAM	6	0	18.39	18.61	18.53	19.00

**【LTE Band 106_Tablet】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					134322		
Frequency (MHz)					899		
3	QPSK	1	0		19.86		20.00
3	QPSK	1	8		19.76		20.00
3	QPSK	1	14		19.68		20.00
3	QPSK	8	0		19.80		20.00
3	QPSK	8	4		19.70		20.00
3	QPSK	8	7		19.72		20.00
3	QPSK	15	0		19.81		20.00
3	16QAM	1	0		19.80		20.00
3	16QAM	1	8		19.78		20.00
3	16QAM	1	14		19.85		20.00
3	16QAM	8	0		19.77		20.00
3	16QAM	8	4		19.77		20.00
3	16QAM	8	7		19.77		20.00
3	16QAM	15	0		19.69		20.00
3	64QAM	1	0		19.81		20.00
3	64QAM	1	8		19.83		20.00
3	64QAM	1	14		19.84		20.00
3	64QAM	8	0		19.80		20.00
3	64QAM	8	4		19.65		20.00
3	64QAM	8	7		19.63		20.00
3	64QAM	15	0		19.71		20.00
3	256QAM	1	0		18.98		19.00
3	256QAM	1	8		18.84		19.00
3	256QAM	1	14		18.89		19.00
3	256QAM	8	0		18.76		19.00
3	256QAM	8	4		18.66		19.00
3	256QAM	8	7		18.86		19.00
3	256QAM	15	0		18.71		19.00
Channel				134314	134322	134330	Tune-up limit
Frequency (MHz)				898.2	899	899.8	(dBm)
1.4	QPSK	1	0	19.78	19.82	19.75	20.00
1.4	QPSK	1	3	19.54	19.68	19.57	20.00
1.4	QPSK	1	5	19.46	19.58	19.48	20.00
1.4	QPSK	3	0	19.64	19.74	19.64	20.00
1.4	QPSK	3	1	19.60	19.59	19.40	20.00
1.4	QPSK	3	3	19.59	19.65	19.51	20.00
1.4	QPSK	6	0	19.67	19.67	19.57	20.00
1.4	16QAM	1	0	19.70	19.67	19.56	20.00
1.4	16QAM	1	3	19.59	19.69	19.54	20.00
1.4	16QAM	1	5	19.65	19.77	19.57	20.00
1.4	16QAM	3	0	19.56	19.71	19.50	20.00
1.4	16QAM	3	1	19.66	19.63	19.51	20.00
1.4	16QAM	3	3	19.64	19.63	19.52	20.00
1.4	16QAM	6	0	19.50	19.59	19.44	20.00
1.4	64QAM	1	0	19.60	19.75	19.62	20.00
1.4	64QAM	1	3	19.60	19.65	19.46	20.00
1.4	64QAM	1	5	19.73	19.78	19.67	20.00
1.4	64QAM	3	0	19.66	19.68	19.59	20.00
1.4	64QAM	3	1	19.55	19.53	19.33	20.00
1.4	64QAM	3	3	19.49	19.53	19.34	20.00
1.4	64QAM	6	0	19.59	19.54	19.36	20.00
1.4	256QAM	1	0	18.76	18.93	18.83	19.00
1.4	256QAM	1	3	18.67	18.74	18.58	19.00
1.4	256QAM	1	5	18.72	18.81	18.73	19.00
1.4	256QAM	3	0	18.58	18.70	18.50	19.00
1.4	256QAM	3	1	18.52	18.57	18.49	19.00
1.4	256QAM	3	3	18.72	18.75	18.55	19.00
1.4	256QAM	6	0	18.49	18.60	18.41	19.00

14. 5G NR Output Power (Unit: dBm)

General Note:

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below
 - a. For DFT-OFDM output power measurement, full measurement was done for Pi/2 BPSK and QPSK and for the largest supported bandwidth, repeat test for 16QAM/64QAM/256QAM under 1RB 1Offset configuration. For smaller bandwidth, measure conducted power for Pi/2 BPSK and 1RB 1Offset configuration.
 - b. According to the tune-up, CP-OFDM output power is not ½ dB higher than DFT-OFDM mode, and the reported SAR of DFT-OFDM mode reported SAR is ≤ 1.45 W/kg, SAR test and thus conducted power for CP-OFDM mode is not required.
 - c. To start SAR test for the largest channel bandwidth for Pi/2 BPSK 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. Also do SAR test for 50% RB allocation for Pi/2 BPSK SAR testing using 1RB Pi/2 BPSK allocation procedure
 - d. For Pi/2 BPSK with 100% RB allocation, SAR test 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.
 - e. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not ½ dB higher than the same configuration in Pi/2 BPSK, also reported SAR for the Pi/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - f. Smaller bandwidth output power for each RB allocation configuration for this device 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, smaller bandwidth SAR testing is not required for this device
2. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.

< 3GPP 38.101 MPR for EN-DC >

Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

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

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

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

**【FR1 n2_Ant 5_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	22.15	22.31	22.25	23.00
20	PI/2 BPSK	1	53	22.08	22.26	22.12	23.00
20	PI/2 BPSK	1	104	22.01	22.30	22.12	23.00
20	PI/2 BPSK	50	0	21.57	21.80	21.72	22.50
20	PI/2 BPSK	50	28	22.13	22.35	22.18	23.00
20	PI/2 BPSK	50	56	21.50	21.78	21.70	22.50
20	PI/2 BPSK	100	0	21.65	21.82	21.74	22.50
20	QPSK	1	1	21.98	22.26	22.13	23.00
20	QPSK	1	53	22.14	22.28	22.25	23.00
20	QPSK	1	104	22.10	22.26	22.24	23.00
20	QPSK	50	0	21.11	21.32	21.16	22.00
20	QPSK	50	28	22.04	22.30	22.25	23.00
20	QPSK	50	56	21.07	21.30	21.10	22.00
20	QPSK	100	0	21.03	21.28	21.15	22.00
20	16QAM	1	1	20.97	21.22	21.06	22.00
20	64QAM	1	1	19.63	19.88	19.77	20.50
20	256QAM	1	1	17.30	17.48	17.36	18.50
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	22.04	22.21	22.16	23.00
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	22.12	22.24	22.19	23.00
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	22.08	22.23	22.23	23.00

【FR1 n2_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	18.53	18.59	18.58	19.50
20	PI/2 BPSK	1	53	18.52	18.62	18.48	19.50
20	PI/2 BPSK	1	104	18.37	18.57	18.52	19.50
20	PI/2 BPSK	50	0	18.52	18.64	18.58	19.50
20	PI/2 BPSK	50	28	18.52	18.66	18.58	19.50
20	PI/2 BPSK	50	56	18.49	18.68	18.57	19.50
20	PI/2 BPSK	100	0	18.41	18.60	18.55	19.50
20	QPSK	1	1	18.49	18.56	18.49	19.50
20	QPSK	1	53	18.50	18.66	18.51	19.50
20	QPSK	1	104	18.53	18.69	18.54	19.50
20	QPSK	50	0	18.46	18.64	18.52	19.50
20	QPSK	50	28	18.52	18.66	18.56	19.50
20	QPSK	50	56	18.37	18.55	18.48	19.50
20	QPSK	100	0	18.43	18.58	18.52	19.50
20	16QAM	1	1	18.52	18.94	18.57	19.50
20	64QAM	1	1	18.34	18.53	18.47	19.50
20	256QAM	1	1	17.89	17.98	17.93	18.50
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	18.46	18.51	18.55	19.50
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	18.47	18.47	18.47	19.50
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	18.43	18.47	18.45	19.50

**【FR1 n5_Ant 5_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.14	23.28	23.24	24.00
20	PI/2 BPSK	1	53	22.93	23.15	23.07	24.00
20	PI/2 BPSK	1	104	22.98	23.15	23.09	24.00
20	PI/2 BPSK	50	0	22.94	23.10	22.95	23.50
20	PI/2 BPSK	50	28	22.94	23.15	23.02	24.00
20	PI/2 BPSK	50	56	22.91	23.07	22.94	23.50
20	PI/2 BPSK	100	0	22.94	23.17	23.00	23.50
20	QPSK	1	1	22.98	23.21	23.07	24.00
20	QPSK	1	53	22.96	23.23	23.07	24.00
20	QPSK	1	104	22.77	23.01	22.87	24.00
20	QPSK	50	0	22.72	22.94	22.77	23.00
20	QPSK	50	28	22.93	23.12	22.96	24.00
20	QPSK	50	56	22.65	22.93	22.82	23.00
20	QPSK	100	0	22.72	22.96	22.84	23.00
20	16QAM	1	1	22.73	22.94	22.85	23.00
20	64QAM	1	1	21.24	21.49	21.34	21.50
20	256QAM	1	1	19.27	19.48	19.43	19.50
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.13	23.16	23.10	24.00
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.09	23.22	23.22	24.00
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.03	23.14	23.20	24.00

【FR1 n5_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	18.94	18.99	18.95	20.00
20	PI/2 BPSK	1	53	18.89	19.02	18.88	20.00
20	PI/2 BPSK	1	104	18.85	18.97	18.92	20.00
20	PI/2 BPSK	50	0	18.91	19.04	18.94	20.00
20	PI/2 BPSK	50	28	18.94	19.06	18.93	20.00
20	PI/2 BPSK	50	56	18.89	19.08	18.92	20.00
20	PI/2 BPSK	100	0	18.83	19.00	18.88	20.00
20	QPSK	1	1	18.83	18.96	18.81	20.00
20	QPSK	1	53	18.87	19.06	18.95	20.00
20	QPSK	1	104	18.94	19.09	18.94	20.00
20	QPSK	50	0	18.91	19.04	18.85	20.00
20	QPSK	50	28	18.87	19.06	18.92	20.00
20	QPSK	50	56	18.86	18.95	18.86	20.00
20	QPSK	100	0	18.86	18.98	18.88	20.00
20	16QAM	1	1	18.94	19.05	18.93	20.00
20	64QAM	1	1	18.94	19.93	18.94	20.00
20	256QAM	1	1	18.93	19.37	18.95	19.50
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	18.88	18.95	18.81	20.00
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	18.90	18.93	18.88	20.00
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	18.83	18.91	18.86	20.00

**【FR1 n7_Ant 5_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				502000	507000	512000	
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	22.15	21.66	21.37	23.00
20	PI/2 BPSK	1	53	21.95	21.55	21.16	23.00
20	PI/2 BPSK	1	104	21.97	21.51	21.08	23.00
20	PI/2 BPSK	50	0	22.03	21.56	21.13	22.50
20	PI/2 BPSK	50	28	22.00	21.55	21.21	23.00
20	PI/2 BPSK	50	56	21.90	21.49	21.19	22.50
20	PI/2 BPSK	100	0	21.88	21.51	21.11	22.50
20	QPSK	1	1	22.11	21.70	21.30	23.00
20	QPSK	1	53	22.10	21.63	21.21	23.00
20	QPSK	1	104	21.96	21.52	21.10	23.00
20	QPSK	50	0	22.00	21.57	21.18	22.00
20	QPSK	50	28	22.00	21.56	21.26	23.00
20	QPSK	50	56	21.89	21.46	21.02	22.00
20	QPSK	100	0	21.89	21.50	21.10	22.00
20	16QAM	1	1	22.00	21.73	21.37	22.00
20	64QAM	1	1	20.49	20.10	19.75	20.50
20	256QAM	1	1	18.26	17.97	17.69	18.50
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	22.13	21.61	21.27	23.00
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	22.07	21.65	21.31	23.00
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	22.05	21.57	21.28	23.00

【FR1 n7_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				502000	507000	512000	
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	14.84	14.48	14.21	16.00
20	PI/2 BPSK	1	53	14.77	14.50	14.10	16.00
20	PI/2 BPSK	1	104	14.78	14.46	14.05	16.00
20	PI/2 BPSK	50	0	14.83	14.55	14.21	16.00
20	PI/2 BPSK	50	28	14.79	14.53	14.19	16.00
20	PI/2 BPSK	50	56	14.82	14.53	14.20	16.00
20	PI/2 BPSK	100	0	14.72	14.49	14.08	16.00
20	QPSK	1	1	14.74	14.46	14.11	16.00
20	QPSK	1	53	14.83	14.53	14.13	16.00
20	QPSK	1	104	14.83	14.56	14.21	16.00
20	QPSK	50	0	14.81	14.52	14.15	16.00
20	QPSK	50	28	14.81	14.53	14.19	16.00
20	QPSK	50	56	14.71	14.45	14.09	16.00
20	QPSK	100	0	14.75	14.47	14.17	16.00
20	16QAM	1	1	14.76	14.55	14.20	16.00
20	64QAM	1	1	14.65	14.43	14.10	16.00
20	256QAM	1	1	14.62	14.40	14.09	16.00
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	14.81	14.44	14.09	16.00
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	14.82	14.40	14.20	16.00
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	14.78	14.39	14.16	16.00

【FR1 n12_Ant 5_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.08	23.09		24.00
15	PI/2 BPSK	1	40	22.97	22.94		24.00
15	PI/2 BPSK	1	77	23.03	22.98		24.00
15	PI/2 BPSK	36	0	22.88	22.89		23.50
15	PI/2 BPSK	36	22	22.91	22.92		24.00
15	PI/2 BPSK	36	43	22.90	22.87		23.50
15	PI/2 BPSK	75	0	22.84	22.90		23.50
15	QPSK	1	1	23.08	23.04		24.00
15	QPSK	1	40	23.08	23.03		24.00
15	QPSK	1	77	23.07	23.03		24.00
15	QPSK	36	0	22.98	22.97		23.00
15	QPSK	36	22	23.08	23.08		24.00
15	QPSK	36	43	22.91	22.96		23.00
15	QPSK	75	0	22.98	22.95		23.00
15	16QAM	1	1	23.00	22.99		23.00
15	64QAM	1	1	21.44	21.47		21.50
15	256QAM	1	1	19.46	19.46		19.50
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.95	22.93	22.90	24.00
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.97	22.88	22.90	24.00

【FR1 n12_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	19.82	19.84		21.50
15	PI/2 BPSK	1	40	19.73	19.82		21.50
15	PI/2 BPSK	1	77	19.81	19.79		21.50
15	PI/2 BPSK	36	0	19.83	19.91		21.50
15	PI/2 BPSK	36	22	19.80	19.88		21.50
15	PI/2 BPSK	36	43	19.81	19.87		21.50
15	PI/2 BPSK	75	0	19.79	19.82		21.50
15	QPSK	1	1	19.67	19.78		21.50
15	QPSK	1	40	19.84	19.88		21.50
15	QPSK	1	77	19.84	19.88		21.50
15	QPSK	36	0	19.83	19.86		21.50
15	QPSK	36	22	19.84	19.88		21.50
15	QPSK	36	43	19.78	19.77		21.50
15	QPSK	75	0	19.79	19.80		21.50
15	16QAM	1	1	19.74	19.76		21.50
15	64QAM	1	1	19.73	19.75		21.50
15	256QAM	1	1	18.76	18.86		19.00
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	19.71	19.67	19.67	21.50
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	19.79	19.66	19.70	21.50

**【FR1 n13_Ant 5_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					156400		
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		23.17		24.00
10	PI/2 BPSK	1	26		23.14		24.00
10	PI/2 BPSK	1	50		23.10		24.00
10	PI/2 BPSK	25	0		23.09		23.50
10	PI/2 BPSK	25	14		23.12		24.00
10	PI/2 BPSK	25	27		23.11		23.50
10	PI/2 BPSK	50	0		23.09		23.50
10	QPSK	1	1		23.12		24.00
10	QPSK	1	26		23.06		24.00
10	QPSK	1	50		23.08		24.00
10	QPSK	25	0		22.99		23.00
10	QPSK	25	14		23.09		24.00
10	QPSK	25	27		22.95		23.00
10	QPSK	50	0		22.92		23.00
10	16QAM	1	1		23.00		23.00
10	64QAM	1	1		21.48		21.50
10	256QAM	1	1		19.48		19.50
Channel				155900	156400	156900	Tune-up limit
Frequency (MHz)				779.5	782	784.5	(dBm)
5	PI/2 BPSK	1	1	23.14	23.16	23.13	24.00

【FR1 n13_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					156400		
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		17.84		19.50
10	PI/2 BPSK	1	26		17.80		19.50
10	PI/2 BPSK	1	50		17.79		19.50
10	PI/2 BPSK	25	0		17.90		19.50
10	PI/2 BPSK	25	14		17.88		19.50
10	PI/2 BPSK	25	27		17.86		19.50
10	PI/2 BPSK	50	0		17.82		19.50
10	QPSK	1	1		17.78		19.50
10	QPSK	1	26		17.88		19.50
10	QPSK	1	50		17.87		19.50
10	QPSK	25	0		17.86		19.50
10	QPSK	25	14		17.88		19.50
10	QPSK	25	27		17.77		19.50
10	QPSK	50	0		17.80		19.50
10	16QAM	1	1		17.76		19.50
10	64QAM	1	1		17.75		19.50
10	256QAM	1	1		17.23		18.50
Channel				155900	156400	156900	Tune-up limit
Frequency (MHz)				779.5	782	784.5	(dBm)
5	PI/2 BPSK	1	1	17.76	17.78	17.68	19.50

【FR1 n14_Ant 5_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		23.11		24.00
10	PI/2 BPSK	1	26		23.17		24.00
10	PI/2 BPSK	1	50		23.04		24.00
10	PI/2 BPSK	25	0		23.16		23.50
10	PI/2 BPSK	25	14		23.16		24.00
10	PI/2 BPSK	25	27		23.12		23.50
10	PI/2 BPSK	50	0		23.09		23.50
10	QPSK	1	1		23.15		24.00
10	QPSK	1	26		23.10		24.00
10	QPSK	1	50		23.13		24.00
10	QPSK	25	0		22.95		23.00
10	QPSK	25	14		23.12		24.00
10	QPSK	25	27		22.96		23.00
10	QPSK	50	0		22.98		23.00
10	16QAM	1	1		23.00		23.00
10	64QAM	1	1		21.46		21.50
10	256QAM	1	1		19.50		19.50
Channel				158100	158600	159100	Tune-up limit
Frequency (MHz)				790.5	793	795.5	(dBm)
5	PI/2 BPSK	1	1	23.05	23.08	23.06	24.00

【FR1 n14_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		18.95		20.50
10	PI/2 BPSK	1	26		18.93		20.50
10	PI/2 BPSK	1	50		18.90		20.50
10	PI/2 BPSK	25	0		19.01		20.50
10	PI/2 BPSK	25	14		18.99		20.50
10	PI/2 BPSK	25	27		18.97		20.50
10	PI/2 BPSK	50	0		18.93		20.50
10	QPSK	1	1		18.89		20.50
10	QPSK	1	26		18.99		20.50
10	QPSK	1	50		18.97		20.50
10	QPSK	25	0		18.97		20.50
10	QPSK	25	14		18.99		20.50
10	QPSK	25	27		18.88		20.50
10	QPSK	50	0		18.91		20.50
10	16QAM	1	1		18.87		20.50
10	64QAM	1	1		18.86		20.50
10	256QAM	1	1		18.30		19.50
Channel				158100	158600	159100	Tune-up limit
Frequency (MHz)				790.5	793	795.5	(dBm)
5	PI/2 BPSK	1	1	18.87	18.92	18.82	20.50

**【FR1 n25_Ant 5_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	22.06	22.23	22.25	23.00
20	PI/2 BPSK	1	53	22.06	22.30	22.26	23.00
20	PI/2 BPSK	1	104	22.01	22.28	22.25	23.00
20	PI/2 BPSK	50	0	21.50	21.77	21.75	22.50
20	PI/2 BPSK	50	28	22.02	22.30	22.19	23.00
20	PI/2 BPSK	50	56	21.55	21.77	21.64	22.50
20	PI/2 BPSK	100	0	21.56	21.75	21.73	22.50
20	QPSK	1	1	21.94	22.12	21.99	23.00
20	QPSK	1	53	22.05	22.26	22.24	23.00
20	QPSK	1	104	21.97	22.16	22.15	23.00
20	QPSK	50	0	20.97	21.27	21.27	22.00
20	QPSK	50	28	22.01	22.26	22.15	23.00
20	QPSK	50	56	21.14	21.32	21.21	22.00
20	QPSK	100	0	21.04	21.26	21.14	22.00
20	16QAM	1	1	21.64	21.90	21.84	22.00
20	64QAM	1	1	19.56	19.80	19.79	20.50
20	256QAM	1	1	17.57	17.73	17.70	18.50
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	22.03	22.20	22.12	23.00
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	21.94	22.20	22.20	23.00
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	22.03	22.13	22.17	23.00

【FR1 n25_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	18.44	18.65	18.59	19.50
20	PI/2 BPSK	1	53	18.41	18.63	18.58	19.50
20	PI/2 BPSK	1	104	18.39	18.60	18.53	19.50
20	PI/2 BPSK	50	0	18.44	18.71	18.59	19.50
20	PI/2 BPSK	50	28	18.42	18.69	18.56	19.50
20	PI/2 BPSK	50	56	18.40	18.67	18.55	19.50
20	PI/2 BPSK	100	0	18.33	18.63	18.51	19.50
20	QPSK	1	1	18.27	18.59	18.41	19.50
20	QPSK	1	53	18.40	18.69	18.53	19.50
20	QPSK	1	104	18.43	18.66	18.58	19.50
20	QPSK	50	0	18.44	18.67	18.56	19.50
20	QPSK	50	28	18.41	18.69	18.55	19.50
20	QPSK	50	56	18.29	18.58	18.49	19.50
20	QPSK	100	0	18.36	18.61	18.51	19.50
20	16QAM	1	1	18.37	18.57	18.41	19.50
20	64QAM	1	1	18.29	18.56	18.45	19.50
20	256QAM	1	1	17.80	18.01	17.93	18.50
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	18.38	18.59	18.54	19.50
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	18.40	18.55	18.51	19.50
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	18.33	18.56	18.57	19.50

**【FR1 n26_Ant 5_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	Tune-up limit (dBm)
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	23.26	23.30	23.22	24.00
20	PI/2 BPSK	1	53	23.18	23.25	23.07	24.00
20	PI/2 BPSK	1	104	23.09	23.23	23.03	24.00
20	PI/2 BPSK	50	0	23.17	23.28	23.17	23.50
20	PI/2 BPSK	50	28	23.12	23.22	23.09	24.00
20	PI/2 BPSK	50	56	23.07	23.20	23.08	23.50
20	PI/2 BPSK	100	0	23.12	23.20	23.03	23.50
20	QPSK	1	1	22.90	23.04	22.82	24.00
20	QPSK	1	53	22.92	23.01	22.85	24.00
20	QPSK	1	104	22.98	23.03	22.88	24.00
20	QPSK	50	0	22.77	22.89	22.75	23.00
20	QPSK	50	28	22.94	23.12	23.00	24.00
20	QPSK	50	56	22.76	22.82	22.62	23.00
20	QPSK	100	0	22.65	22.81	22.61	23.00
20	16QAM	1	1	22.88	23.00	22.83	23.00
20	64QAM	1	1	21.30	21.48	21.38	21.50
20	256QAM	1	1	19.27	19.36	19.17	19.50
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	23.11	23.21	23.08	24.00
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	23.22	23.27	23.17	24.00
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	23.24	23.28	23.11	24.00

【FR1 n26_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	Tune-up limit (dBm)
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	18.93	18.97	19.04	20.00
20	PI/2 BPSK	1	53	18.81	18.89	18.84	20.00
20	PI/2 BPSK	1	104	18.87	18.95	18.92	20.00
20	PI/2 BPSK	50	0	18.91	19.06	19.03	20.00
20	PI/2 BPSK	50	28	18.83	19.01	18.94	20.00
20	PI/2 BPSK	50	56	18.86	19.03	19.01	20.00
20	PI/2 BPSK	100	0	18.85	18.98	18.94	20.00
20	QPSK	1	1	18.82	18.94	18.96	20.00
20	QPSK	1	53	18.92	19.04	19.02	20.00
20	QPSK	1	104	18.93	19.01	19.02	20.00
20	QPSK	50	0	18.93	19.02	19.02	20.00
20	QPSK	50	28	18.87	19.04	19.02	20.00
20	QPSK	50	56	18.76	18.93	18.96	20.00
20	QPSK	100	0	18.85	18.96	18.89	20.00
20	16QAM	1	1	18.80	18.92	18.92	20.00
20	64QAM	1	1	18.86	18.91	18.89	20.00
20	256QAM	1	1	18.20	18.35	18.28	19.50
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	18.86	18.86	18.95	20.00
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	18.90	18.92	18.94	20.00
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	18.78	18.87	18.93	20.00

**【FR1 n30_Ant 5_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		21.20		22.00
10	PI/2 BPSK	1	26		21.16		22.00
10	PI/2 BPSK	1	50		21.15		22.00
10	PI/2 BPSK	25	0		21.30		21.50
10	PI/2 BPSK	25	14		21.13		22.00
10	PI/2 BPSK	25	27		21.10		21.50
10	PI/2 BPSK	50	0		21.18		21.50
10	QPSK	1	1		21.09		22.00
10	QPSK	1	26		21.04		22.00
10	QPSK	1	50		21.04		22.00
10	QPSK	25	0		20.79		21.00
10	QPSK	25	14		21.10		22.00
10	QPSK	25	27		20.55		21.00
10	QPSK	50	0		20.64		21.00
10	16QAM	1	1		20.89		21.00
10	64QAM	1	1		19.48		19.50
10	256QAM	1	1		17.44		17.50
Channel				461500	462000	462500	Tune-up limit
Frequency (MHz)				2307.5	2310	2312.5	(dBm)
5	PI/2 BPSK	1	1	21.10	21.13	21.06	22.00

【FR1 n30_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		16.60		18.00
10	PI/2 BPSK	1	26		16.53		18.00
10	PI/2 BPSK	1	50		16.58		18.00
10	PI/2 BPSK	25	0		16.68		18.00
10	PI/2 BPSK	25	14		16.56		18.00
10	PI/2 BPSK	25	27		16.64		18.00
10	PI/2 BPSK	50	0		16.61		18.00
10	QPSK	1	1		16.57		18.00
10	QPSK	1	26		16.66		18.00
10	QPSK	1	50		16.62		18.00
10	QPSK	25	0		16.64		18.00
10	QPSK	25	14		16.66		18.00
10	QPSK	25	27		16.56		18.00
10	QPSK	50	0		16.59		18.00
10	16QAM	1	1		16.56		18.00
10	64QAM	1	1		16.55		18.00
10	256QAM	1	1		16.06		17.50
Channel				461500	462000	462500	Tune-up limit
Frequency (MHz)				2307.5	2310	2312.5	(dBm)
5	PI/2 BPSK	1	1	16.58	16.55	16.47	18.00

【FR1 n38_Ant 5_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	22.21	22.25	22.33	23.00
20	PI/2 BPSK	1	26	22.13	22.20	22.14	23.00
20	PI/2 BPSK	1	49	22.12	22.24	22.21	23.00
20	PI/2 BPSK	25	0	21.65	21.74	21.78	22.50
20	PI/2 BPSK	25	13	22.20	22.29	22.26	23.00
20	PI/2 BPSK	25	26	21.64	21.72	21.66	22.50
20	PI/2 BPSK	50	0	21.63	21.76	21.70	22.50
20	QPSK	1	1	22.04	22.20	22.21	23.00
20	QPSK	1	26	22.19	22.32	22.32	23.00
20	QPSK	1	49	22.19	22.30	22.30	23.00
20	QPSK	25	0	21.20	21.26	21.27	22.00
20	QPSK	25	13	22.20	22.29	22.27	23.00
20	QPSK	25	26	21.07	21.24	21.21	22.00
20	QPSK	50	0	21.15	21.22	21.22	22.00
20	16QAM	1	1	21.01	21.16	21.10	22.00
20	64QAM	1	1	19.71	19.83	19.89	20.50
20	256QAM	1	1	17.33	17.43	17.42	18.50
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	22.19	22.13	22.22	23.00
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	22.07	22.16	22.30	23.00

【FR1 n38_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				516000	519000	522000	
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	17.44	17.23	17.21	18.50
20	PI/2 BPSK	1	26	17.26	17.19	17.09	18.50
20	PI/2 BPSK	1	49	17.33	17.21	17.15	18.50
20	PI/2 BPSK	25	0	17.43	17.30	17.19	18.50
20	PI/2 BPSK	25	13	17.40	17.27	17.18	18.50
20	PI/2 BPSK	25	26	17.37	17.22	17.18	18.50
20	PI/2 BPSK	50	0	17.32	17.24	17.21	18.50
20	QPSK	1	1	17.38	17.20	17.13	18.50
20	QPSK	1	26	17.39	17.30	17.20	18.50
20	QPSK	1	49	17.37	17.33	17.21	18.50
20	QPSK	25	0	17.36	17.28	17.18	18.50
20	QPSK	25	13	17.39	17.30	17.16	18.50
20	QPSK	25	26	17.33	17.19	17.06	18.50
20	QPSK	50	0	17.41	17.22	17.10	18.50
20	16QAM	1	1	17.25	17.18	17.14	18.50
20	64QAM	1	1	17.30	17.17	17.07	18.50
20	256QAM	1	1	16.75	16.65	16.56	17.50
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	17.37	17.18	17.06	18.50
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	17.37	17.10	17.12	18.50

【FR1 n41_Ant 5_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.20	21.79	21.44	23.00
20	PI/2 BPSK	1	26	22.04	21.66	21.28	23.00
20	PI/2 BPSK	1	49	22.11	21.71	21.31	23.00
20	PI/2 BPSK	25	0	22.02	21.70	21.26	23.00
20	PI/2 BPSK	25	13	22.04	21.77	21.35	23.00
20	PI/2 BPSK	25	26	21.91	21.65	21.17	23.00
20	PI/2 BPSK	50	0	21.94	21.62	21.20	23.00
20	QPSK	1	1	22.14	21.77	21.37	23.00
20	QPSK	1	26	21.93	21.65	21.28	23.00
20	QPSK	1	49	22.05	21.70	21.33	23.00
20	QPSK	25	0	21.98	21.69	21.27	23.00
20	QPSK	25	13	22.10	21.74	21.32	23.00
20	QPSK	25	26	21.96	21.66	21.24	23.00
20	QPSK	50	0	22.00	21.60	21.15	23.00
20	16QAM	1	1	21.87	21.50	21.09	23.00
20	64QAM	1	1	21.68	21.41	21.01	23.00
20	256QAM	1	1	21.56	21.20	21.00	23.00
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.18	21.67	21.31	23.00
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.10	21.67	21.38	23.00

【FR1 n41_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.20	17.54	17.53	18.50
20	PI/2 BPSK	1	26	18.13	17.35	17.36	18.50
20	PI/2 BPSK	1	49	18.06	17.27	17.31	18.50
20	PI/2 BPSK	25	0	18.19	17.47	17.49	18.50
20	PI/2 BPSK	25	13	18.15	17.41	17.37	18.50
20	PI/2 BPSK	25	26	18.11	17.36	17.42	18.50
20	PI/2 BPSK	50	0	18.16	17.41	17.37	18.50
20	QPSK	1	1	18.09	17.40	17.30	18.50
20	QPSK	1	26	18.15	17.44	17.47	18.50
20	QPSK	1	49	18.16	17.40	17.45	18.50
20	QPSK	25	0	18.16	17.45	17.39	18.50
20	QPSK	25	13	18.18	17.50	17.37	18.50
20	QPSK	25	26	18.07	17.33	17.39	18.50
20	QPSK	50	0	18.17	17.38	17.38	18.50
20	16QAM	1	1	18.15	17.45	17.47	18.50
20	64QAM	1	1	18.00	17.23	17.33	18.50
20	256QAM	1	1	17.92	17.22	17.24	18.50
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.18	17.50	17.26	18.50
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.09	17.45	17.29	18.50

【FR1 n41_HPUE_Ant 5_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.20	24.79	24.44	26.00
20	PI/2 BPSK	1	26	25.04	24.66	24.28	26.00
20	PI/2 BPSK	1	49	25.11	24.71	24.31	26.00
20	PI/2 BPSK	25	0	25.02	24.70	24.26	26.00
20	PI/2 BPSK	25	13	25.04	24.77	24.35	26.00
20	PI/2 BPSK	25	26	24.91	24.65	24.17	26.00
20	PI/2 BPSK	50	0	24.94	24.62	24.20	26.00
20	QPSK	1	1	25.14	24.77	24.37	26.00
20	QPSK	1	26	24.93	24.65	24.28	26.00
20	QPSK	1	49	25.05	24.70	24.33	26.00
20	QPSK	25	0	24.98	24.69	24.27	26.00
20	QPSK	25	13	25.10	24.74	24.32	26.00
20	QPSK	25	26	24.96	24.66	24.24	26.00
20	QPSK	50	0	25.00	24.60	24.15	26.00
20	16QAM	1	1	24.87	24.50	24.09	26.00
20	64QAM	1	1	24.68	24.41	24.01	26.00
20	256QAM	1	1	24.56	24.20	24.00	26.00
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.18	24.67	24.31	26.00
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.10	24.67	24.38	26.00

【FR1 n41_HPUE_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.20	17.54	17.53	18.50
20	PI/2 BPSK	1	26	18.13	17.35	17.36	18.50
20	PI/2 BPSK	1	49	18.06	17.27	17.31	18.50
20	PI/2 BPSK	25	0	18.19	17.47	17.49	18.50
20	PI/2 BPSK	25	13	18.15	17.41	17.37	18.50
20	PI/2 BPSK	25	26	18.11	17.36	17.42	18.50
20	PI/2 BPSK	50	0	18.16	17.41	17.37	18.50
20	QPSK	1	1	18.09	17.40	17.30	18.50
20	QPSK	1	26	18.15	17.44	17.47	18.50
20	QPSK	1	49	18.16	17.40	17.45	18.50
20	QPSK	25	0	18.16	17.45	17.39	18.50
20	QPSK	25	13	18.18	17.50	17.37	18.50
20	QPSK	25	26	18.07	17.33	17.39	18.50
20	QPSK	50	0	18.17	17.38	17.38	18.50
20	16QAM	1	1	18.15	17.45	17.47	18.50
20	64QAM	1	1	18.00	17.23	17.33	18.50
20	256QAM	1	1	17.92	17.22	17.24	18.50
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.18	17.50	17.26	18.50
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.09	17.45	17.29	18.50

【FR1 n48_Ant 5_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	20.86	20.53	20.05	21.00
20	PI/2 BPSK	1	26	20.69	20.48	19.86	21.00
20	PI/2 BPSK	1	49	20.79	20.52	19.94	21.00
20	PI/2 BPSK	25	0	20.24	20.06	19.52	20.50
20	PI/2 BPSK	25	13	20.76	20.57	19.99	21.00
20	PI/2 BPSK	25	26	20.25	20.04	19.43	20.50
20	PI/2 BPSK	50	0	20.32	20.08	19.52	20.50
20	QPSK	1	1	20.77	20.48	19.93	21.00
20	QPSK	1	26	20.78	20.59	20.04	21.00
20	QPSK	1	49	20.82	20.58	19.99	21.00
20	QPSK	25	0	19.79	19.62	19.02	20.00
20	QPSK	25	13	20.84	20.57	20.00	21.00
20	QPSK	25	26	19.82	19.60	19.02	20.00
20	QPSK	50	0	19.77	19.58	19.05	20.00
20	16QAM	1	1	19.78	19.53	18.94	20.00
20	64QAM	1	1	18.48	18.29	17.73	18.50
20	256QAM	1	1	16.31	16.09	15.69	16.50
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	20.82	20.42	19.91	21.00
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	20.82	20.39	19.95	21.00
Channel				636834	641666	646500	Tune-up limit (dBm)
Frequency (MHz)				3552.51	3624.99	3697.5	
5	PI/2 BPSK	1	1	20.82	20.47	20.01	21.00

【FR1 n48_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	15.80	15.71	15.20	16.50
20	PI/2 BPSK	1	26	15.75	15.68	15.10	16.50
20	PI/2 BPSK	1	49	15.74	15.66	15.06	16.50
20	PI/2 BPSK	25	0	15.80	15.76	15.15	16.50
20	PI/2 BPSK	25	13	15.73	15.74	15.14	16.50
20	PI/2 BPSK	25	26	15.78	15.72	15.06	16.50
20	PI/2 BPSK	50	0	15.77	15.69	15.08	16.50
20	QPSK	1	1	15.63	15.65	15.08	16.50
20	QPSK	1	26	15.79	15.74	15.14	16.50
20	QPSK	1	49	15.74	15.76	15.20	16.50
20	QPSK	25	0	15.78	15.72	15.19	16.50
20	QPSK	25	13	15.78	15.74	15.15	16.50
20	QPSK	25	26	15.73	15.65	15.03	16.50
20	QPSK	50	0	15.72	15.67	15.12	16.50
20	16QAM	1	1	15.63	15.64	15.06	16.50
20	64QAM	1	1	15.65	15.63	15.11	16.50
20	256QAM	1	1	15.17	15.17	14.67	16.00
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	15.71	15.53	15.09	16.50
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	15.70	15.65	15.11	16.50
Channel				636834	641666	646500	Tune-up limit (dBm)
Frequency (MHz)				3552.51	3624.99	3697.5	
5	PI/2 BPSK	1	1	15.79	15.60	15.10	16.50

**【FR1 n66_Ant 5_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	21.84	21.68	21.62	23.00
20	PI/2 BPSK	1	53	21.62	21.54	21.41	23.00
20	PI/2 BPSK	1	104	21.55	21.50	21.37	23.00
20	PI/2 BPSK	50	0	21.66	21.62	21.49	22.50
20	PI/2 BPSK	50	28	21.73	21.64	21.53	23.00
20	PI/2 BPSK	50	56	21.55	21.54	21.40	22.50
20	PI/2 BPSK	100	0	21.66	21.56	21.36	22.50
20	QPSK	1	1	21.49	21.46	21.26	23.00
20	QPSK	1	53	21.41	21.37	21.20	23.00
20	QPSK	1	104	21.38	21.30	21.20	23.00
20	QPSK	50	0	21.43	21.34	21.22	22.00
20	QPSK	50	28	21.67	21.60	21.43	23.00
20	QPSK	50	56	21.38	21.24	21.16	22.00
20	QPSK	100	0	21.38	21.28	21.10	22.00
20	16QAM	1	1	21.63	21.54	21.60	22.00
20	64QAM	1	1	20.48	20.43	20.32	20.50
20	256QAM	1	1	18.33	18.33	18.24	18.50
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.70	21.55	21.47	23.00
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.71	21.64	21.54	23.00
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	21.71	21.63	21.54	23.00

【FR1 n66_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	17.57	17.47	17.33	18.50
20	PI/2 BPSK	1	53	17.55	17.44	17.32	18.50
20	PI/2 BPSK	1	104	17.48	17.42	17.20	18.50
20	PI/2 BPSK	50	0	17.57	17.52	17.33	18.50
20	PI/2 BPSK	50	28	17.52	17.51	17.30	18.50
20	PI/2 BPSK	50	56	17.54	17.49	17.29	18.50
20	PI/2 BPSK	100	0	17.47	17.45	17.26	18.50
20	QPSK	1	1	17.50	17.41	17.16	18.50
20	QPSK	1	53	17.55	17.51	17.33	18.50
20	QPSK	1	104	17.56	17.53	17.33	18.50
20	QPSK	50	0	17.56	17.49	17.33	18.50
20	QPSK	50	28	17.53	17.51	17.32	18.50
20	QPSK	50	56	17.41	17.40	17.14	18.50
20	QPSK	100	0	17.46	17.43	17.30	18.50
20	16QAM	1	1	17.49	17.39	17.21	18.50
20	64QAM	1	1	17.50	17.38	17.21	18.50
20	256QAM	1	1	17.54	17.47	17.32	18.50
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	17.45	17.42	17.21	18.50
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	17.45	17.36	17.19	18.50
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	17.42	17.38	17.31	18.50

**【FR1 n71_Ant 5_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	22.89	22.90	22.87	24.00
20	PI/2 BPSK	1	53	22.72	22.85	22.78	24.00
20	PI/2 BPSK	1	104	22.86	22.89	22.75	24.00
20	PI/2 BPSK	50	0	22.35	22.38	22.23	23.50
20	PI/2 BPSK	50	28	22.89	22.94	22.86	24.00
20	PI/2 BPSK	50	56	22.33	22.36	22.29	23.50
20	PI/2 BPSK	100	0	22.38	22.40	22.25	23.50
20	QPSK	1	1	22.79	22.85	22.76	24.00
20	QPSK	1	53	22.88	22.87	22.85	24.00
20	QPSK	1	104	22.86	22.85	22.87	24.00
20	QPSK	50	0	21.75	21.88	21.75	23.00
20	QPSK	50	28	22.86	22.84	22.78	24.00
20	QPSK	50	56	21.70	21.86	21.70	23.00
20	QPSK	100	0	21.71	21.84	21.74	23.00
20	16QAM	1	1	21.70	21.78	21.70	23.00
20	64QAM	1	1	20.30	20.41	20.25	21.50
20	256QAM	1	1	17.85	17.94	17.80	19.50
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	22.86	22.88	22.81	24.00
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	22.85	22.88	22.77	24.00
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	22.82	22.85	22.73	24.00

【FR1 n71_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	20.85	20.81	20.68	22.00
20	PI/2 BPSK	1	53	20.74	20.80	20.61	22.00
20	PI/2 BPSK	1	104	20.70	20.79	20.58	22.00
20	PI/2 BPSK	50	0	20.84	20.89	20.68	22.00
20	PI/2 BPSK	50	28	20.84	20.85	20.62	22.00
20	PI/2 BPSK	50	56	20.83	20.85	20.63	22.00
20	PI/2 BPSK	100	0	20.79	20.82	20.58	22.00
20	QPSK	1	1	20.68	20.78	20.60	22.00
20	QPSK	1	53	20.85	20.86	20.66	22.00
20	QPSK	1	104	20.84	20.84	20.67	22.00
20	QPSK	50	0	20.81	20.87	20.59	22.00
20	QPSK	50	28	20.79	20.87	20.64	22.00
20	QPSK	50	56	20.76	20.77	20.58	22.00
20	QPSK	100	0	20.82	20.80	20.54	22.00
20	16QAM	1	1	20.68	20.75	20.55	22.00
20	64QAM	1	1	20.14	20.14	19.98	21.50
20	256QAM	1	1	19.23	19.23	18.96	19.50
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	20.72	20.66	20.60	22.00
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	20.74	20.78	20.65	22.00
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	20.70	20.69	20.55	22.00

【FR1 n77 (27Q)_Ant 5_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				630668	633332	636000	
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.20	22.24	22.62	23.00
20	PI/2 BPSK	1	26	22.09	22.15	22.48	23.00
20	PI/2 BPSK	1	49	22.01	22.12	22.42	23.00
20	PI/2 BPSK	25	0	22.02	22.11	22.48	23.00
20	PI/2 BPSK	25	13	22.16	22.16	22.57	23.00
20	PI/2 BPSK	25	26	22.06	22.10	22.54	23.00
20	PI/2 BPSK	50	0	22.13	22.13	22.59	23.00
20	QPSK	1	1	22.10	22.16	22.48	23.00
20	QPSK	1	26	21.99	22.00	22.38	23.00
20	QPSK	1	49	21.92	21.91	22.37	23.00
20	QPSK	25	0	21.93	21.97	22.41	23.00
20	QPSK	25	13	21.98	22.01	22.38	23.00
20	QPSK	25	26	22.03	22.00	22.44	23.00
20	QPSK	50	0	22.02	22.04	22.46	23.00
20	16QAM	1	1	22.19	22.21	22.61	23.00
20	64QAM	1	1	22.02	22.06	22.44	23.00
20	256QAM	1	1	22.00	22.06	22.50	23.00
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.15	22.15	22.58	23.00
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.06	22.13	22.51	23.00

【FR1 n77 (27O)_Ant 5_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				647334	656000	664666	
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.98	22.23	22.09	23.00
20	PI/2 BPSK	1	26	22.92	22.18	22.02	23.00
20	PI/2 BPSK	1	49	22.80	22.04	21.86	23.00
20	PI/2 BPSK	25	0	22.79	22.10	21.86	23.00
20	PI/2 BPSK	25	13	22.95	22.20	21.95	23.00
20	PI/2 BPSK	25	26	22.88	22.10	21.93	23.00
20	PI/2 BPSK	50	0	22.89	22.19	21.95	23.00
20	QPSK	1	1	22.83	22.14	21.85	23.00
20	QPSK	1	26	22.70	22.04	21.76	23.00
20	QPSK	1	49	22.63	22.05	21.77	23.00
20	QPSK	25	0	22.76	22.00	21.80	23.00
20	QPSK	25	13	22.77	22.06	21.85	23.00
20	QPSK	25	26	22.82	22.01	21.85	23.00
20	QPSK	50	0	22.75	22.05	21.83	23.00
20	16QAM	1	1	22.86	22.13	21.94	23.00
20	64QAM	1	1	22.74	22.02	21.76	23.00
20	256QAM	1	1	22.80	22.10	21.92	23.00
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.85	22.11	22.08	23.00
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.92	22.12	22.00	23.00

【FR1 n77 (27Q)_Ant 5_ Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				630668	633332	636000	
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.60	13.73	13.58	15.00
20	PI/2 BPSK	1	26	13.44	13.70	13.49	15.00
20	PI/2 BPSK	1	49	13.42	13.68	13.46	15.00
20	PI/2 BPSK	25	0	13.59	13.78	13.54	15.00
20	PI/2 BPSK	25	13	13.48	13.76	13.52	15.00
20	PI/2 BPSK	25	26	13.44	13.75	13.46	15.00
20	PI/2 BPSK	50	0	13.41	13.77	13.57	15.00
20	QPSK	1	1	13.46	13.71	13.43	15.00
20	QPSK	1	26	13.58	13.76	13.57	15.00
20	QPSK	1	49	13.40	13.77	13.58	15.00
20	QPSK	25	0	13.44	13.75	13.48	15.00
20	QPSK	25	13	13.48	13.73	13.53	15.00
20	QPSK	25	26	13.40	13.67	13.41	15.00
20	QPSK	50	0	13.47	13.70	13.43	15.00
20	16QAM	1	1	13.44	13.67	13.49	15.00
20	64QAM	1	1	13.40	13.66	13.40	15.00
20	256QAM	1	1	13.40	13.61	13.40	15.00
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.52	13.60	13.50	15.00
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.53	13.63	13.54	15.00

【FR1 n77 (27O)_Ant 5_ Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				647334	656000	664666	
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	14.74	13.95	13.89	15.00
20	PI/2 BPSK	1	26	14.56	13.92	13.72	15.00
20	PI/2 BPSK	1	49	14.69	13.94	13.76	15.00
20	PI/2 BPSK	25	0	14.72	14.02	13.83	15.00
20	PI/2 BPSK	25	13	14.68	13.97	13.86	15.00
20	PI/2 BPSK	25	26	14.72	13.98	13.88	15.00
20	PI/2 BPSK	50	0	14.63	13.93	13.75	15.00
20	QPSK	1	1	14.59	13.90	13.74	15.00
20	QPSK	1	26	14.71	13.98	13.85	15.00
20	QPSK	1	49	14.72	14.04	13.89	15.00
20	QPSK	25	0	14.65	13.95	13.84	15.00
20	QPSK	25	13	14.64	13.99	13.89	15.00
20	QPSK	25	26	14.57	13.92	13.71	15.00
20	QPSK	50	0	14.64	13.95	13.79	15.00
20	16QAM	1	1	14.65	13.88	13.70	15.00
20	64QAM	1	1	14.51	13.86	13.70	15.00
20	256QAM	1	1	14.71	13.94	13.86	15.00
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	14.68	13.84	13.83	15.00
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	14.68	13.88	13.79	15.00

【FR1 n77 (27Q)_HPUE_Ant 5_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				630668	633332	636000	
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.20	24.24	24.62	26.00
20	PI/2 BPSK	1	26	24.09	24.15	24.48	26.00
20	PI/2 BPSK	1	49	24.01	24.12	24.42	26.00
20	PI/2 BPSK	25	0	24.02	24.11	24.48	26.00
20	PI/2 BPSK	25	13	24.16	24.16	24.57	26.00
20	PI/2 BPSK	25	26	24.06	24.10	24.54	26.00
20	PI/2 BPSK	50	0	24.13	24.13	24.59	26.00
20	QPSK	1	1	24.10	24.16	24.48	26.00
20	QPSK	1	26	24.09	24.00	24.38	26.00
20	QPSK	1	49	24.02	24.01	24.37	26.00
20	QPSK	25	0	24.03	24.07	24.41	26.00
20	QPSK	25	13	24.08	24.01	24.38	26.00
20	QPSK	25	26	24.03	24.00	24.44	26.00
20	QPSK	50	0	24.02	24.04	24.46	26.00
20	16QAM	1	1	24.19	24.21	24.61	26.00
20	64QAM	1	1	24.02	24.06	24.44	26.00
20	256QAM	1	1	24.00	24.06	24.50	26.00
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.15	24.15	24.58	26.00
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.06	24.13	24.51	26.00

【FR1 n77 (27O)_HPUE_Ant 5_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				647334	656000	664666	
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.98	24.23	24.09	26.00
20	PI/2 BPSK	1	26	24.92	24.18	24.02	26.00
20	PI/2 BPSK	1	49	24.80	24.04	24.06	26.00
20	PI/2 BPSK	25	0	24.79	24.10	24.06	26.00
20	PI/2 BPSK	25	13	24.95	24.20	24.15	26.00
20	PI/2 BPSK	25	26	24.88	24.10	24.13	26.00
20	PI/2 BPSK	50	0	24.89	24.19	24.15	26.00
20	QPSK	1	1	24.83	24.14	24.05	26.00
20	QPSK	1	26	24.70	24.04	24.06	26.00
20	QPSK	1	49	24.63	24.05	24.07	26.00
20	QPSK	25	0	24.76	24.00	24.00	26.00
20	QPSK	25	13	24.77	24.06	24.05	26.00
20	QPSK	25	26	24.82	24.01	24.05	26.00
20	QPSK	50	0	24.75	24.05	24.03	26.00
20	16QAM	1	1	24.86	24.13	24.14	26.00
20	64QAM	1	1	24.74	24.02	24.06	26.00
20	256QAM	1	1	24.80	24.10	24.12	26.00
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.85	24.11	24.08	26.00
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.92	24.12	24.00	26.00

【FR1 n77 (27Q)_HPUE_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				630668	633332	636000	
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.60	13.73	13.58	15.00
20	PI/2 BPSK	1	26	13.44	13.70	13.49	15.00
20	PI/2 BPSK	1	49	13.42	13.68	13.46	15.00
20	PI/2 BPSK	25	0	13.59	13.78	13.54	15.00
20	PI/2 BPSK	25	13	13.48	13.76	13.52	15.00
20	PI/2 BPSK	25	26	13.44	13.75	13.46	15.00
20	PI/2 BPSK	50	0	13.41	13.77	13.57	15.00
20	QPSK	1	1	13.46	13.71	13.43	15.00
20	QPSK	1	26	13.58	13.76	13.57	15.00
20	QPSK	1	49	13.40	13.77	13.58	15.00
20	QPSK	25	0	13.44	13.75	13.48	15.00
20	QPSK	25	13	13.48	13.73	13.53	15.00
20	QPSK	25	26	13.40	13.67	13.41	15.00
20	QPSK	50	0	13.47	13.70	13.43	15.00
20	16QAM	1	1	13.44	13.67	13.49	15.00
20	64QAM	1	1	13.40	13.66	13.40	15.00
20	256QAM	1	1	13.40	13.61	13.40	15.00
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.52	13.60	13.50	15.00
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.53	13.63	13.54	15.00

【FR1 n77 (27O)_HPUE_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				647334	656000	664666	
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	14.74	13.95	13.89	15.00
20	PI/2 BPSK	1	26	14.56	13.92	13.72	15.00
20	PI/2 BPSK	1	49	14.69	13.94	13.76	15.00
20	PI/2 BPSK	25	0	14.72	14.02	13.83	15.00
20	PI/2 BPSK	25	13	14.68	13.97	13.86	15.00
20	PI/2 BPSK	25	26	14.72	13.98	13.88	15.00
20	PI/2 BPSK	50	0	14.63	13.93	13.75	15.00
20	QPSK	1	1	14.59	13.90	13.74	15.00
20	QPSK	1	26	14.71	13.98	13.85	15.00
20	QPSK	1	49	14.72	14.04	13.89	15.00
20	QPSK	25	0	14.65	13.95	13.84	15.00
20	QPSK	25	13	14.64	13.99	13.89	15.00
20	QPSK	25	26	14.57	13.92	13.71	15.00
20	QPSK	50	0	14.64	13.95	13.79	15.00
20	16QAM	1	1	14.65	13.88	13.70	15.00
20	64QAM	1	1	14.51	13.86	13.70	15.00
20	256QAM	1	1	14.71	13.94	13.86	15.00
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	14.68	13.84	13.83	15.00
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	14.68	13.88	13.79	15.00

**【FR1 n78 (27Q)_Ant 5_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				630668	633332	636000	
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.20	22.24	22.62	23.00
20	PI/2 BPSK	1	26	22.09	22.15	22.48	23.00
20	PI/2 BPSK	1	49	22.01	22.12	22.42	23.00
20	PI/2 BPSK	25	0	22.02	22.11	22.48	23.00
20	PI/2 BPSK	25	13	22.16	22.16	22.57	23.00
20	PI/2 BPSK	25	26	22.06	22.10	22.54	23.00
20	PI/2 BPSK	50	0	22.13	22.13	22.59	23.00
20	QPSK	1	1	22.10	22.16	22.48	23.00
20	QPSK	1	26	21.99	22.00	22.38	23.00
20	QPSK	1	49	21.92	21.91	22.37	23.00
20	QPSK	25	0	21.93	21.97	22.41	23.00
20	QPSK	25	13	21.98	22.01	22.38	23.00
20	QPSK	25	26	22.03	22.00	22.44	23.00
20	QPSK	50	0	22.02	22.04	22.46	23.00
20	16QAM	1	1	22.19	22.21	22.61	23.00
20	64QAM	1	1	22.02	22.06	22.44	23.00
20	256QAM	1	1	22.00	22.06	22.50	23.00
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.15	22.15	22.58	23.00
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.06	22.13	22.51	23.00

【FR1 n78 (27O)_Ant 5_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				647334	650000	652666	
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.98	22.95	22.87	23.00
20	PI/2 BPSK	1	26	22.92	22.81	22.77	23.00
20	PI/2 BPSK	1	49	22.80	22.74	22.70	23.00
20	PI/2 BPSK	25	0	22.79	22.77	22.75	23.00
20	PI/2 BPSK	25	13	22.95	22.88	22.77	23.00
20	PI/2 BPSK	25	26	22.88	22.86	22.73	23.00
20	PI/2 BPSK	50	0	22.89	22.86	22.84	23.00
20	QPSK	1	1	22.83	22.81	22.76	23.00
20	QPSK	1	26	22.70	22.72	22.63	23.00
20	QPSK	1	49	22.63	22.62	22.52	23.00
20	QPSK	25	0	22.76	22.71	22.64	23.00
20	QPSK	25	13	22.77	22.76	22.65	23.00
20	QPSK	25	26	22.82	22.80	22.69	23.00
20	QPSK	50	0	22.75	22.71	22.68	23.00
20	16QAM	1	1	22.86	22.84	22.78	23.00
20	64QAM	1	1	22.74	22.73	22.69	23.00
20	256QAM	1	1	22.80	22.79	22.65	23.00
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.85	22.82	22.78	23.00
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.92	22.90	22.82	23.00

【FR1 n78 (27Q)_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				630668	633332	636000	
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.87	14.65	14.90	15.00
20	PI/2 BPSK	1	26	14.69	14.37	14.68	15.00
20	PI/2 BPSK	1	49	14.73	14.47	14.73	15.00
20	PI/2 BPSK	25	0	14.87	14.61	14.89	15.00
20	PI/2 BPSK	25	13	14.77	14.45	14.73	15.00
20	PI/2 BPSK	25	26	14.73	14.44	14.62	15.00
20	PI/2 BPSK	50	0	14.67	14.40	14.71	15.00
20	QPSK	1	1	14.66	14.40	14.55	15.00
20	QPSK	1	26	14.78	14.53	14.76	15.00
20	QPSK	1	49	14.80	14.54	14.69	15.00
20	QPSK	25	0	14.76	14.40	14.72	15.00
20	QPSK	25	13	14.75	14.52	14.70	15.00
20	QPSK	25	26	14.66	14.37	14.61	15.00
20	QPSK	50	0	14.69	14.42	14.66	15.00
20	16QAM	1	1	14.64	14.33	14.64	15.00
20	64QAM	1	1	14.67	14.34	14.64	15.00
20	256QAM	1	1	14.63	14.33	14.56	15.00
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.85	14.52	14.84	15.00
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.86	14.59	14.87	15.00

【FR1 n78 (27O)_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				647334	650000	652666	
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	14.84	14.73	14.71	15.00
20	PI/2 BPSK	1	26	14.77	14.69	14.57	15.00
20	PI/2 BPSK	1	49	14.66	14.67	14.44	15.00
20	PI/2 BPSK	25	0	14.78	14.77	14.64	15.00
20	PI/2 BPSK	25	13	14.76	14.76	14.57	15.00
20	PI/2 BPSK	25	26	14.74	14.73	14.53	15.00
20	PI/2 BPSK	50	0	14.73	14.74	14.42	15.00
20	QPSK	1	1	14.72	14.65	14.37	15.00
20	QPSK	1	26	14.80	14.74	14.50	15.00
20	QPSK	1	49	14.77	14.80	14.64	15.00
20	QPSK	25	0	14.74	14.76	14.52	15.00
20	QPSK	25	13	14.80	14.75	14.59	15.00
20	QPSK	25	26	14.68	14.69	14.50	15.00
20	QPSK	50	0	14.71	14.70	14.49	15.00
20	16QAM	1	1	14.74	14.67	14.41	15.00
20	64QAM	1	1	14.62	14.64	14.46	15.00
20	256QAM	1	1	14.64	14.67	14.46	15.00
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	14.72	14.71	14.59	15.00
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	14.83	14.63	14.57	15.00

**【FR1 n78 (27Q)_HPUE_Ant 5_Laptop】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				630668	633332	636000	
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.20	24.24	24.62	26.00
20	PI/2 BPSK	1	26	24.09	24.15	24.48	26.00
20	PI/2 BPSK	1	49	24.01	24.12	24.42	26.00
20	PI/2 BPSK	25	0	24.02	24.11	24.48	26.00
20	PI/2 BPSK	25	13	24.16	24.16	24.57	26.00
20	PI/2 BPSK	25	26	24.06	24.10	24.54	26.00
20	PI/2 BPSK	50	0	24.13	24.13	24.59	26.00
20	QPSK	1	1	24.10	24.16	24.48	26.00
20	QPSK	1	26	24.09	24.00	24.38	26.00
20	QPSK	1	49	24.02	24.01	24.37	26.00
20	QPSK	25	0	24.03	24.07	24.41	26.00
20	QPSK	25	13	24.08	24.01	24.38	26.00
20	QPSK	25	26	24.03	24.00	24.44	26.00
20	QPSK	50	0	24.02	24.04	24.46	26.00
20	16QAM	1	1	24.19	24.21	24.61	26.00
20	64QAM	1	1	24.02	24.06	24.44	26.00
20	256QAM	1	1	24.00	24.06	24.50	26.00
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.15	24.15	24.58	26.00
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.06	24.13	24.51	26.00

【FR1 n78 (27O)_HPUE_Ant 5_Laptop】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				647334	650000	652666	
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.98	24.35	24.27	26.00
20	PI/2 BPSK	1	26	24.92	24.21	24.17	26.00
20	PI/2 BPSK	1	49	24.80	24.14	24.10	26.00
20	PI/2 BPSK	25	0	24.79	24.17	24.15	26.00
20	PI/2 BPSK	25	13	24.95	24.28	24.17	26.00
20	PI/2 BPSK	25	26	24.88	24.26	24.13	26.00
20	PI/2 BPSK	50	0	24.89	24.26	24.24	26.00
20	QPSK	1	1	24.83	24.21	24.16	26.00
20	QPSK	1	26	24.70	24.12	24.03	26.00
20	QPSK	1	49	24.63	24.03	24.02	26.00
20	QPSK	25	0	24.76	24.11	24.04	26.00
20	QPSK	25	13	24.77	24.16	24.05	26.00
20	QPSK	25	26	24.82	24.20	24.09	26.00
20	QPSK	50	0	24.75	24.11	24.08	26.00
20	16QAM	1	1	24.86	24.24	24.18	26.00
20	64QAM	1	1	24.74	24.13	24.09	26.00
20	256QAM	1	1	24.80	24.19	24.05	26.00
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.85	24.22	24.18	26.00
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.92	24.30	24.22	26.00

**【FR1 n78 (27Q)_HPUE_Ant 5_Tablet】**

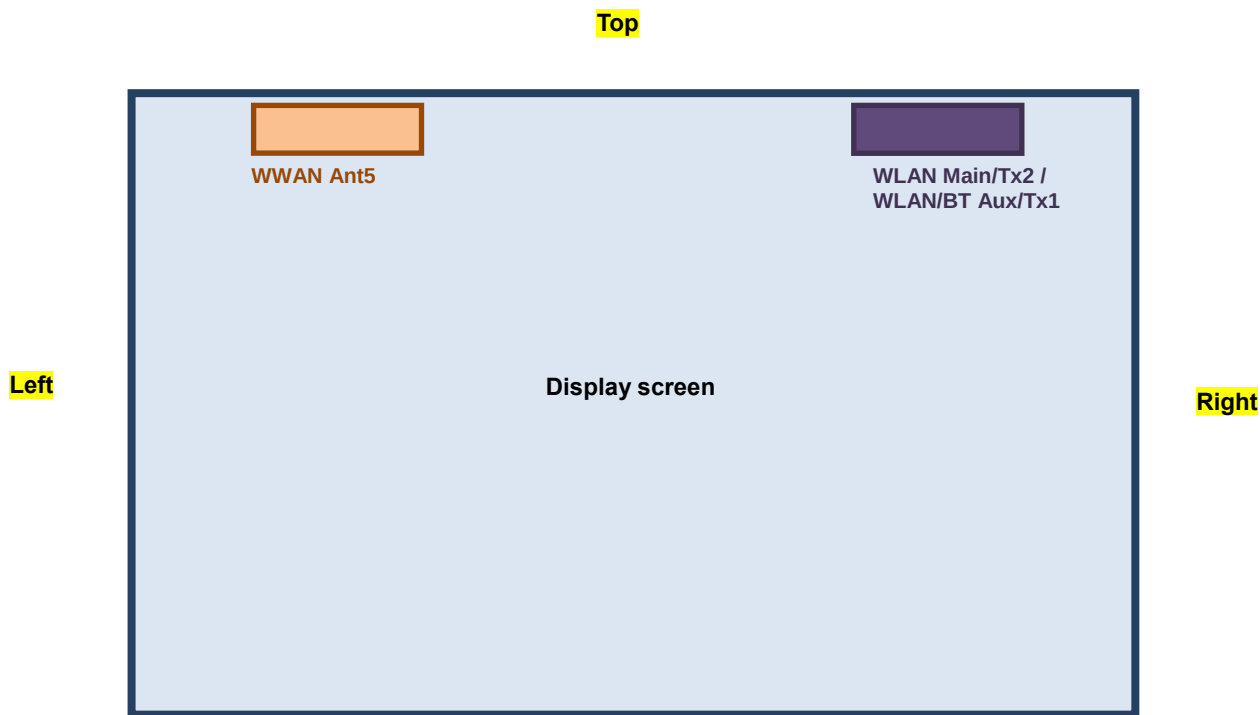
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				630668	633332	636000	
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.87	14.65	14.90	15.00
20	PI/2 BPSK	1	26	14.69	14.37	14.68	15.00
20	PI/2 BPSK	1	49	14.73	14.47	14.73	15.00
20	PI/2 BPSK	25	0	14.87	14.61	14.89	15.00
20	PI/2 BPSK	25	13	14.77	14.45	14.73	15.00
20	PI/2 BPSK	25	26	14.73	14.44	14.62	15.00
20	PI/2 BPSK	50	0	14.67	14.40	14.71	15.00
20	QPSK	1	1	14.66	14.40	14.55	15.00
20	QPSK	1	26	14.78	14.53	14.76	15.00
20	QPSK	1	49	14.80	14.54	14.69	15.00
20	QPSK	25	0	14.76	14.40	14.72	15.00
20	QPSK	25	13	14.75	14.52	14.70	15.00
20	QPSK	25	26	14.66	14.37	14.61	15.00
20	QPSK	50	0	14.69	14.42	14.66	15.00
20	16QAM	1	1	14.64	14.33	14.64	15.00
20	64QAM	1	1	14.67	14.34	14.64	15.00
20	256QAM	1	1	14.63	14.33	14.56	15.00
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.85	14.52	14.84	15.00
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.86	14.59	14.87	15.00

【FR1 n78 (27O)_HPUE_Ant 5_Tablet】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				647334	650000	652666	
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	14.84	14.73	14.71	15.00
20	PI/2 BPSK	1	26	14.77	14.69	14.57	15.00
20	PI/2 BPSK	1	49	14.66	14.67	14.44	15.00
20	PI/2 BPSK	25	0	14.78	14.77	14.64	15.00
20	PI/2 BPSK	25	13	14.76	14.76	14.57	15.00
20	PI/2 BPSK	25	26	14.74	14.73	14.53	15.00
20	PI/2 BPSK	50	0	14.73	14.74	14.42	15.00
20	QPSK	1	1	14.72	14.65	14.37	15.00
20	QPSK	1	26	14.80	14.74	14.50	15.00
20	QPSK	1	49	14.77	14.80	14.64	15.00
20	QPSK	25	0	14.74	14.76	14.52	15.00
20	QPSK	25	13	14.80	14.75	14.59	15.00
20	QPSK	25	26	14.68	14.69	14.50	15.00
20	QPSK	50	0	14.71	14.70	14.49	15.00
20	16QAM	1	1	14.74	14.67	14.41	15.00
20	64QAM	1	1	14.62	14.64	14.46	15.00
20	256QAM	1	1	14.64	14.67	14.46	15.00
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	14.72	14.71	14.59	15.00
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	14.83	14.63	14.57	15.00

15. Antenna Location

<For Tablet Mode>



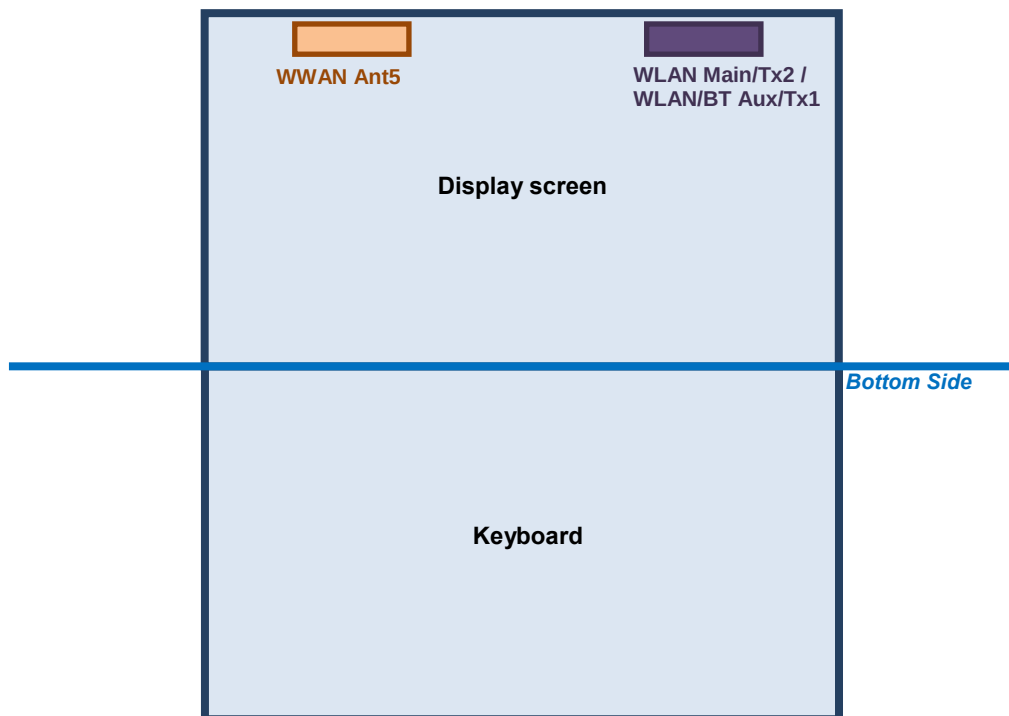
Bottom

Front View

The separation distance for antenna to edge :

Antenna	To Top (mm)	To Right (mm)	To Left (mm)	To Bottom (mm)
WWAN Ant 5	5.5	174.85	28.15	186.6
WLAN Main/Tx2 WLAN/BT Aux/Tx1	5.5	25.85	182.15	186.4

<For Laptop Mode>



The separation distance for antenna to edge :

Antenna	Bottom Side (mm)
WWAN Ant 5	196.77
WLAN Main/Tx2	196.77
WLAN/BT Aux/Tx1	196.77

16. 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 WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - c. 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 ≥ 0.8 W/kg.

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 $\frac{1}{2}$ 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 $\frac{1}{2}$ 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 B4/B5/B12/B17/B26/B38/B71 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 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; 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 $\leq$ 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.

5G NR Note:

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below:
 - a. To start SAR test for the largest channel bandwidth for PI/2 BPSK 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. Also do SAR test for 50% RB allocation for PI/2 BPSK SAR testing using 1RB PI/2 BPSK allocation procedure
 - b. For PI/2 BPSK with 100% RB allocation, SAR test 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.
 - c. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not $\frac{1}{2}$ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - d. Smaller bandwidth output power for each RB allocation configuration for this device is not $\frac{1}{2}$ 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, smaller bandwidth SAR testing is not required for this device
 - e. For 5G FR1 n5/n12/n41/n71/n77, the maximum channel bandwidth does not support three non-overlapping channels in the frequency band, the middle channel of the group of overlapping channels were selected for testing.
 - f. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. For NR FDD was establishing connections via a base station simulator to use for output power measurement and SAR testing.

16.1 Body SAR

【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Vendor	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 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 5	Laptop	21100	2535	Vendor 1	22.94	23.00	1.014			-0.17	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Bottom Side	0mm	Ant 5	Laptop	21100	2535	Vendor 1	21.91	22.00	1.021			0.04	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 5	Tablet	21100	2535	Vendor 1	15.88	16.00	1.028			0.04	0.109	0.112
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 5	Tablet	21100	2535	Vendor 1	15.80	16.00	1.047			0.07	0.125	0.131
	LTE Band 7	20M	QPSK	1	0	Left	0mm	Ant 5	Tablet	21100	2535	Vendor 1	15.88	16.00	1.028			-0.17	0.053	0.054
	LTE Band 7	20M	QPSK	50	0	Left	0mm	Ant 5	Tablet	21100	2535	Vendor 1	15.80	16.00	1.047			0.01	0.063	0.066
	LTE Band 7	20M	QPSK	1	0	Right	0mm	Ant 5	Tablet	21100	2535	Vendor 1	15.88	16.00	1.028			0.02	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Right	0mm	Ant 5	Tablet	21100	2535	Vendor 1	15.80	16.00	1.047			0.11	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	21100	2535	Vendor 1	15.88	16.00	1.028			-0.03	0.293	0.301
	LTE Band 7	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	21100	2535	Vendor 1	15.80	16.00	1.047			-0.14	0.334	0.350
	LTE Band 7	20M	QPSK	1	0	Bottom	0mm	Ant 5	Tablet	21100	2535	Vendor 1	15.88	16.00	1.028			0.07	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Bottom	0mm	Ant 5	Tablet	21100	2535	Vendor 1	15.80	16.00	1.047			-0.08	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	21100	2535	Vendor 2	15.80	16.00	1.047			-0.06	0.704	0.737
	LTE Band 7	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	21100	2535	Vendor 3	15.80	16.00	1.047			0.05	0.798	0.836
01	LTE Band 7	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	20850	2510	Vendor 3	15.58	16.00	1.102			-0.14	0.828	0.912
	LTE Band 7	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	21350	2560	Vendor 3	15.42	16.00	1.143			0.09	0.635	0.726
	LTE Band 12	10M	QPSK	1	0	Bottom Side	0mm	Ant 5	Laptop	23095	707.5	Vendor 1	23.87	24.00	1.03			-0.17	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	Bottom Side	0mm	Ant 5	Laptop	23095	707.5	Vendor 1	22.98	23.00	1.005			0.09	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	Back	0mm	Ant 5	Tablet	23095	707.5	Vendor 1	21.27	21.50	1.054			0.14	0.169	0.178
	LTE Band 12	10M	QPSK	25	0	Back	0mm	Ant 5	Tablet	23095	707.5	Vendor 1	21.24	21.50	1.062			-0.05	0.166	0.176
	LTE Band 12	10M	QPSK	1	0	Left	0mm	Ant 5	Tablet	23095	707.5	Vendor 1	21.27	21.50	1.054			0.16	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	Left	0mm	Ant 5	Tablet	23095	707.5	Vendor 1	21.24	21.50	1.062			-0.11	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	Right	0mm	Ant 5	Tablet	23095	707.5	Vendor 1	21.27	21.50	1.054			0.17	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	Right	0mm	Ant 5	Tablet	23095	707.5	Vendor 1	21.24	21.50	1.062			0.08	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	Top	0mm	Ant 5	Tablet	23095	707.5	Vendor 1	21.27	21.50	1.054			0.17	0.620	0.653
	LTE Band 12	10M	QPSK	25	0	Top	0mm	Ant 5	Tablet	23095	707.5	Vendor 1	21.24	21.50	1.062			0.07	0.588	0.624
	LTE Band 12	10M	QPSK	1	0	Bottom	0mm	Ant 5	Tablet	23095	707.5	Vendor 1	21.27	21.50	1.054			0.03	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	Bottom	0mm	Ant 5	Tablet	23095	707.5	Vendor 1	21.24	21.50	1.062			-0.15	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	Top	0mm	Ant 5	Tablet	23095	707.5	Vendor 2	21.27	21.50	1.054			0.03	0.860	0.906
02	LTE Band 12	10M	QPSK	1	0	Top	0mm	Ant 5	Tablet	23095	707.5	Vendor 3	21.27	21.50	1.054			-0.02	0.925	0.975
	LTE Band 13	10M	QPSK	1	0	Bottom Side	0mm	Ant 5	Laptop	23230	782	Vendor 1	23.89	24.00	1.026			0.04	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	Bottom Side	0mm	Ant 5	Laptop	23230	782	Vendor 1	22.86	23.00	1.033			-0.14	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	Back	0mm	Ant 5	Tablet	23230	782	Vendor 1	19.28	19.50	1.052			-0.14	0.073	0.077
	LTE Band 13	10M	QPSK	25	0	Back	0mm	Ant 5	Tablet	23230	782	Vendor 1	19.31	19.50	1.045			0.11	0.077	0.080
	LTE Band 13	10M	QPSK	1	0	Left	0mm	Ant 5	Tablet	23230	782	Vendor 1	19.28	19.50	1.052			-0.09	0.001	0.001



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	LTE Band 13	10M	QPSK	25	0	Left	0mm	Ant 5	Tablet	23230	782	Vendor 1	19.31	19.50	1.045		-0.04	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	Right	0mm	Ant 5	Tablet	23230	782	Vendor 1	19.28	19.50	1.052		-0.01	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	Right	0mm	Ant 5	Tablet	23230	782	Vendor 1	19.31	19.50	1.045		-0.12	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	Top	0mm	Ant 5	Tablet	23230	782	Vendor 1	19.28	19.50	1.052		0.05	0.273	0.287
	LTE Band 13	10M	QPSK	25	0	Top	0mm	Ant 5	Tablet	23230	782	Vendor 1	19.31	19.50	1.045		0.18	0.280	0.293
	LTE Band 13	10M	QPSK	1	0	Bottom	0mm	Ant 5	Tablet	23230	782	Vendor 1	19.28	19.50	1.052		0.10	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	Bottom	0mm	Ant 5	Tablet	23230	782	Vendor 1	19.31	19.50	1.045		-0.04	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	Top	0mm	Ant 5	Tablet	23230	782	Vendor 2	19.31	19.50	1.045		-0.09	0.381	0.398
03	LTE Band 13	10M	QPSK	25	0	Top	0mm	Ant 5	Tablet	23230	782	Vendor 3	19.31	19.50	1.045		0.01	0.633	0.661
	LTE Band 14	10M	QPSK	1	0	Bottom Side	0mm	Ant 5	Laptop	23330	793	Vendor 1	23.78	24.00	1.052		-0.18	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	Bottom Side	0mm	Ant 5	Laptop	23330	793	Vendor 1	22.83	23.00	1.04		-0.02	0.001	0.001
	LTE Band 14	10M	QPSK	1	0	Back	0mm	Ant 5	Tablet	23330	793	Vendor 1	20.25	20.50	1.059		-0.15	0.111	0.118
	LTE Band 14	10M	QPSK	25	0	Back	0mm	Ant 5	Tablet	23330	793	Vendor 1	20.14	20.50	1.086		-0.08	0.116	0.126
	LTE Band 14	10M	QPSK	1	0	Left	0mm	Ant 5	Tablet	23330	793	Vendor 1	20.25	20.50	1.059		0.18	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	Left	0mm	Ant 5	Tablet	23330	793	Vendor 1	20.14	20.50	1.086		-0.10	0.001	0.001
	LTE Band 14	10M	QPSK	1	0	Right	0mm	Ant 5	Tablet	23330	793	Vendor 1	20.25	20.50	1.059		0.03	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	Right	0mm	Ant 5	Tablet	23330	793	Vendor 1	20.14	20.50	1.086		-0.01	0.001	0.001
	LTE Band 14	10M	QPSK	1	0	Top	0mm	Ant 5	Tablet	23330	793	Vendor 1	20.25	20.50	1.059		0.10	0.380	0.402
	LTE Band 14	10M	QPSK	25	0	Top	0mm	Ant 5	Tablet	23330	793	Vendor 1	20.14	20.50	1.086		0.15	0.392	0.426
	LTE Band 14	10M	QPSK	1	0	Bottom	0mm	Ant 5	Tablet	23330	793	Vendor 1	20.25	20.50	1.059		-0.04	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	Bottom	0mm	Ant 5	Tablet	23330	793	Vendor 1	20.14	20.50	1.086		0.19	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	Top	0mm	Ant 5	Tablet	23330	793	Vendor 2	20.14	20.50	1.086		0.04	0.458	0.497
04	LTE Band 14	10M	QPSK	25	0	Top	0mm	Ant 5	Tablet	23330	793	Vendor 3	20.14	20.50	1.086		0.02	0.819	0.889
	LTE Band 25	20M	QPSK	1	0	Bottom Side	0mm	Ant 5	Laptop	26340	1880	Vendor 1	22.46	23.00	1.132		0.11	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Bottom Side	0mm	Ant 5	Laptop	26340	1880	Vendor 1	21.67	22.00	1.079		-0.04	0.001	0.001
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 5	Tablet	26340	1880	Vendor 1	18.66	19.00	1.081		-0.12	0.209	0.226
	LTE Band 25	20M	QPSK	50	0	Back	0mm	Ant 5	Tablet	26340	1880	Vendor 1	18.51	19.00	1.119		0.17	0.185	0.207
	LTE Band 25	20M	QPSK	1	0	Left	0mm	Ant 5	Tablet	26340	1880	Vendor 1	18.66	19.00	1.081		-0.18	0.068	0.074
	LTE Band 25	20M	QPSK	50	0	Left	0mm	Ant 5	Tablet	26340	1880	Vendor 1	18.51	19.00	1.119		0.04	0.059	0.066
	LTE Band 25	20M	QPSK	1	0	Right	0mm	Ant 5	Tablet	26340	1880	Vendor 1	18.66	19.00	1.081		-0.10	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Right	0mm	Ant 5	Tablet	26340	1880	Vendor 1	18.51	19.00	1.119		-0.01	0.001	0.001
	LTE Band 25	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	26340	1880	Vendor 1	18.66	19.00	1.081		0.19	0.694	0.750
	LTE Band 25	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	26340	1880	Vendor 1	18.51	19.00	1.119		-0.03	0.641	0.717
	LTE Band 25	20M	QPSK	1	0	Bottom	0mm	Ant 5	Tablet	26340	1880	Vendor 1	18.66	19.00	1.081		0.06	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Bottom	0mm	Ant 5	Tablet	26340	1880	Vendor 1	18.51	19.00	1.119		0.00	0.001	0.001
	LTE Band 25	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	26340	1880	Vendor 2	18.66	19.00	1.081		0.15	0.708	0.765
	LTE Band 25	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	26340	1880	Vendor 3	18.66	19.00	1.081		-0.07	0.989	1.069
05	LTE Band 25	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	26140	1860	Vendor 3	18.38	19.00	1.153		0.06	0.984	1.135
	LTE Band 25	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	26590	1905	Vendor 3	18.43	19.00	1.14		-0.16	0.772	0.880
	LTE Band 26	15M	QPSK	1	0	Bottom Side	0mm	Ant 5	Laptop	26865	831.5	Vendor 1	23.87	24.00	1.03		-0.05	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	Bottom Side	0mm	Ant 5	Laptop	26865	831.5	Vendor 1	22.95	23.00	1.012		0.05	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	Back	0mm	Ant 5	Tablet	26865	831.5	Vendor 1	19.31	20.00	1.172		0.04	0.143	0.168
	LTE Band 26	15M	QPSK	36	0	Back	0mm	Ant 5	Tablet	26865	831.5	Vendor 1	19.11	20.00	1.227		0.12	0.136	0.167
	LTE Band 26	15M	QPSK	1	0	Left	0mm	Ant 5	Tablet	26865	831.5	Vendor 1	19.31	20.00	1.172		0.17	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	Left	0mm	Ant 5	Tablet	26865	831.5	Vendor 1	19.11	20.00	1.227		-0.14	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	Right	0mm	Ant 5	Tablet	26865	831.5	Vendor 1	19.31	20.00	1.172		-0.07	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	Right	0mm	Ant 5	Tablet	26865	831.5	Vendor 1	19.11	20.00	1.227		0.17	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	Top	0mm	Ant 5	Tablet	26865	831.5	Vendor 1	19.31	20.00	1.172		-0.04	0.467	0.547
	LTE Band 26	15M	QPSK	36	0	Top	0mm	Ant 5	Tablet	26865	831.5	Vendor 1	19.11	20.00	1.227		0.18	0.445	0.546
	LTE Band 26	15M	QPSK	1	0	Bottom	0mm	Ant 5	Tablet	26865	831.5	Vendor 1	19.31	20.00	1.172		-0.06	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	Bottom	0mm	Ant 5	Tablet	26865	831.5	Vendor 1	19.11	20.00	1.227		0.19	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	Top	0mm	Ant 5	Tablet	26865	831.5	Vendor 2	19.31	20.00	1.172		-0.03	0.455	0.533
06	LTE Band 26	15M	QPSK	1	0	Top	0mm	Ant 5	Tablet	26865	831.5	Vendor 3	19.31	20.00	1.172		0.00	0.745	0.873
	LTE Band 30	10M	QPSK	1	0	Bottom Side	0mm	Ant 5	Laptop	27710	2310	Vendor 1	21.34	22.00	1.164		0.16	0.001	0.001
	LTE Band 30	10M	QPSK	25	0	Bottom Side	0mm	Ant 5	Laptop	27710	2310	Vendor 1	20.29	21.00	1.178		0.16	0.001	0.001
	LTE Band 30	10M	QPSK	1	0	Back	0mm	Ant 5	Tablet	27710	2310	Vendor 1	17.37	18.00	1.156		0.01	0.162	0.187
	LTE Band 30	10M	QPSK	25	0	Back	0mm	Ant 5	Tablet	27710	2310	Vendor 1	17.36	18.00	1.159		0.13	0.154	0.178
	LTE Band 30	10M	QPSK	1	0	Left	0mm	Ant 5	Tablet	27710	2310	Vendor 1	17.37	18.00	1.156		-0.11	0.001	0.001
	LTE Band 30	10M	QPSK	25	0	Left	0mm	Ant 5	Tablet	27710	2310	Vendor 1	17.36	18.00	1.159		0.02	0.001	0.001
	LTE Band 30	10M	QPSK	1	0	Right	0mm	Ant 5	Tablet	27710	2310	Vendor 1	17.37	18.00	1.156		-0.16	0.001	0.001
	LTE Band 30	10M	QPSK	25	0	Right	0mm	Ant 5	Tablet	27710	2310	Vendor 1	17.36	18.00	1.159		0.03	0.001	0.001
	LTE Band 30	10M	QPSK	1	0	Top	0mm	Ant 5	Tablet	27710	2310	Vendor 1	17.37	18.00	1.156		0.14	0.326	0.377
	LTE Band 30	10M	QPSK	25	0	Top	0mm	Ant 5	Tablet	27710	2310	Vendor 1	17.36	18.00	1.159		-0.05	0.335	0.388
	LTE Band 30	10M	QPSK	1	0	Bottom	0mm	Ant 5	Tablet	27710	2310	Vendor 1	17.37	18.00	1.156		-0.03	0.001	0.001
	LTE Band 30	10M	QPSK	25	0	Bottom	0mm	Ant 5	Tablet	27710	2310	Vendor 1	17.36	18.00	1.159		0.15	0.001	0.001
07	LTE Band 30	10M	QPSK	25	0	Top	0mm	Ant 5	Tablet	27710	2310	Vendor 2	17.36	18.00	1.159		0.06	0.616	0.714
	LTE Band 30	10M	QPSK	25	0	Top	0mm	Ant 5	Tablet	27710	2310	Vendor 3	17.36	18.00	1.159		-0.08	0.594	0.688
	LTE Band 66	20M	QPSK	1	0	Bottom Side	0mm	Ant 5	Laptop	132322	1745	Vendor 1	22.95	23.00	1.012		-0.07	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Bottom Side	0mm	Ant 5	Laptop	132322	1745	Vendor 1	21.87	22.00	1.03		-0.09	0.001	0.001
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 5	Tablet	132322	1745	Vendor 1	17.87	18.50	1.156		0.09	0.156	0.180
	LTE Band 66	20M	QPSK	50	0	Back	0mm	Ant 5	Tablet	132322	1745	Vendor 1	17.70	18.50	1.202		-0.07	0.158	0.190
	LTE Band 66	20M	QPSK	1	0	Left	0mm	Ant 5	Tablet	132322	1745	Vendor 1	17.87	18.50	1.156		0.01	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Left	0mm	Ant 5	Tablet	132322	1745	Vendor 1	17.70	18.50	1.202		0.16	0.001	0.001



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	LTE Band 66	20M	QPSK	1	0	Right	0mm	Ant 5	Tablet	132322	1745	Vendor 1	17.87	18.50	1.156			-0.09	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Right	0mm	Ant 5	Tablet	132322	1745	Vendor 1	17.70	18.50	1.202			-0.14	0.001	0.001
	LTE Band 66	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	132322	1745	Vendor 1	17.87	18.50	1.156			-0.11	0.495	0.572
	LTE Band 66	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	132322	1745	Vendor 1	17.70	18.50	1.202			-0.09	0.491	0.590
	LTE Band 66	20M	QPSK	1	0	Bottom	0mm	Ant 5	Tablet	132322	1745	Vendor 1	17.87	18.50	1.156			-0.10	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Bottom	0mm	Ant 5	Tablet	132322	1745	Vendor 1	17.70	18.50	1.202			-0.16	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	132322	1745	Vendor 2	17.70	18.50	1.202			-0.12	0.628	0.755
08	LTE Band 66	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	132072	1720	Vendor 2	17.61	18.50	1.227			0.00	0.721	0.885
	LTE Band 66	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	132572	1770	Vendor 2	17.43	18.50	1.279			-0.08	0.519	0.664
	LTE Band 66	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	132322	1745	Vendor 3	17.70	18.50	1.202			0.10	0.477	0.573
	LTE Band 71	20M	QPSK	1	0	Bottom Side	0mm	Ant 5	Laptop	133297	680.5	Vendor 1	23.97	24.00	1.007			0.10	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	Bottom Side	0mm	Ant 5	Laptop	133297	680.5	Vendor 1	22.86	23.00	1.033			0.10	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	Back	0mm	Ant 5	Tablet	133297	680.5	Vendor 1	21.44	22.00	1.138			-0.10	0.181	0.206
	LTE Band 71	20M	QPSK	50	0	Back	0mm	Ant 5	Tablet	133297	680.5	Vendor 1	21.16	22.00	1.213			0.14	0.185	0.224
	LTE Band 71	20M	QPSK	1	0	Left	0mm	Ant 5	Tablet	133297	680.5	Vendor 1	21.44	22.00	1.138			-0.13	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	Left	0mm	Ant 5	Tablet	133297	680.5	Vendor 1	21.16	22.00	1.213			0.09	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	Right	0mm	Ant 5	Tablet	133297	680.5	Vendor 1	21.44	22.00	1.138			-0.05	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	Right	0mm	Ant 5	Tablet	133297	680.5	Vendor 1	21.16	22.00	1.213			-0.03	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	133297	680.5	Vendor 1	21.44	22.00	1.138			0.13	0.574	0.653
	LTE Band 71	20	QPSK	100	0	Top	0mm	Ant 5	Tablet	133297	680.5	Vendor 1	21.07	22.00	1.239			0.02	0.557	0.690
	LTE Band 71	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	133297	680.5	Vendor 1	21.16	22.00	1.213			-0.03	0.580	0.704
	LTE Band 71	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	133222	673	Vendor 1	20.94	22.00	1.276			0.07	0.572	0.730
	LTE Band 71	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	133372	688	Vendor 1	20.97	22.00	1.268			0.15	0.583	0.739
	LTE Band 71	20M	QPSK	1	0	Bottom	0mm	Ant 5	Tablet	133297	680.5	Vendor 1	21.44	22.00	1.138			0.17	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	Bottom	0mm	Ant 5	Tablet	133297	680.5	Vendor 1	21.16	22.00	1.213			-0.14	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	133297	680.5	Vendor 2	21.16	22.00	1.213			-0.16	0.711	0.862
	LTE Band 71	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	133222	673	Vendor 2	20.94	22.00	1.276			-0.09	0.700	0.893
09	LTE Band 71	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	133372	688	Vendor 2	20.97	22.00	1.268			-0.08	0.709	0.899
	LTE Band 71	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	133297	680.5	Vendor 3	21.16	22.00	1.213			0.17	0.577	0.700
	LTE Band 71	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	133222	673	Vendor 3	20.94	22.00	1.276			0.08	0.524	0.669
	LTE Band 71	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	133372	688	Vendor 3	20.97	22.00	1.268			-0.13	0.643	0.815
	LTE Band 106	3M	QPSK	1	0	Bottom Side	0mm	Ant 5	Laptop	134322	899	Vendor 1	23.80	24.00	1.047			0.12	0.001	0.001
	LTE Band 106	3M	QPSK	8	7	Bottom Side	0mm	Ant 5	Laptop	134322	899	Vendor 1	22.94	23.00	1.014			0.13	0.001	0.001
	LTE Band 106	3M	QPSK	1	0	Back	0mm	Ant 5	Tablet	134322	899	Vendor 1	19.86	20.00	1.033			0.01	0.063	0.065
	LTE Band 106	3M	QPSK	8	0	Back	0mm	Ant 5	Tablet	134322	899	Vendor 1	19.80	20.00	1.047			-0.18	0.060	0.063
	LTE Band 106	3M	QPSK	1	0	Left	0mm	Ant 5	Tablet	134322	899	Vendor 1	19.86	20.00	1.033			0.02	0.001	0.001
	LTE Band 106	3M	QPSK	8	0	Left	0mm	Ant 5	Tablet	134322	899	Vendor 1	19.80	20.00	1.047			-0.19	0.001	0.001
	LTE Band 106	3M	QPSK	1	0	Right	0mm	Ant 5	Tablet	134322	899	Vendor 1	19.86	20.00	1.033			0.04	0.001	0.001
	LTE Band 106	3M	QPSK	8	0	Right	0mm	Ant 5	Tablet	134322	899	Vendor 1	19.80	20.00	1.047			0.09	0.001	0.001
	LTE Band 106	3M	QPSK	1	0	Top	0mm	Ant 5	Tablet	134322	899	Vendor 1	19.86	20.00	1.033			-0.05	0.206	0.213
	LTE Band 106	3M	QPSK	8	0	Top	0mm	Ant 5	Tablet	134322	899	Vendor 1	19.80	20.00	1.047			-0.18	0.210	0.220
	LTE Band 106	3M	QPSK	1	0	Bottom	0mm	Ant 5	Tablet	134322	899	Vendor 1	19.86	20.00	1.033			-0.09	0.001	0.001
	LTE Band 106	3M	QPSK	8	0	Bottom	0mm	Ant 5	Tablet	134322	899	Vendor 1	19.80	20.00	1.047			-0.07	0.001	0.001
	LTE Band 106	3M	QPSK	8	0	Top	0mm	Ant 5	Tablet	134322	899	Vendor 2	19.80	20.00	1.047			0.12	0.218	0.228
10	LTE Band 106	3M	QPSK	8	0	Top	0mm	Ant 5	Tablet	134322	899	Vendor 3	19.80	20.00	1.047			-0.13	0.240	0.251
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 5	Laptop	40620	2593	Vendor 1	22.27	23.00	1.183	62.9	1.006	0.17	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Bottom Side	0mm	Ant 5	Laptop	40620	2593	Vendor 1	21.14	22.00	1.219	62.9	1.006	0.07	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 5	Tablet	40620	2593	Vendor 1	19.12	19.50	1.091	62.9	1.006	0.17	0.123	0.135
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 5	Tablet	40620	2593	Vendor 1	19.13	19.50	1.089	62.9	1.006	0.03	0.109	0.119
	LTE Band 41	20M	QPSK	1	0	Left	0mm	Ant 5	Tablet	40620	2593	Vendor 1	19.12	19.50	1.091	62.9	1.006	-0.17	0.054	0.059
	LTE Band 41	20M	QPSK	50	0	Left	0mm	Ant 5	Tablet	40620	2593	Vendor 1	19.13	19.50	1.089	62.9	1.006	0.05	0.046	0.050
	LTE Band 41	20M	QPSK	1	0	Right	0mm	Ant 5	Tablet	40620	2593	Vendor 1	19.12	19.50	1.091	62.9	1.006	0.04	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Right	0mm	Ant 5	Tablet	40620	2593	Vendor 1	19.13	19.50	1.089	62.9	1.006	0.00	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	40620	2593	Vendor 1	19.12	19.50	1.091	62.9	1.006	0.06	0.333	0.365
	LTE Band 41	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	40620	2593	Vendor 1	19.13	19.50	1.089	62.9	1.006	0.03	0.323	0.354
	LTE Band 41	20M	QPSK	1	0	Bottom	0mm	Ant 5	Tablet	40620	2593	Vendor 1	19.12	19.50	1.091	62.9	1.006	-0.08	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Bottom	0mm	Ant 5	Tablet	40620	2593	Vendor 1	19.13	19.50	1.089	62.9	1.006	0.05	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	40620	2593	Vendor 2	19.12	19.50	1.091	62.9	1.006	-0.19	0.579	0.635
	LTE Band 41	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	39750	2506	Vendor 2	19.09	19.50	1.099	62.9	1.006	-0.02	0.842	0.931
	LTE Band 41	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	40185	2549.5	Vendor 2	18.90	19.50	1.148	62.9	1.006	-0.17	0.848	0.979
	LTE Band 41	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	41055	2636.5	Vendor 2	18.90	19.50	1.148	62.9	1.006	-0.13	0.381	0.440
	LTE Band 41	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	41490	2680	Vendor 2	18.62	19.50	1.225	62.9	1.006	0.05	0.418	0.515
	LTE Band 41	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	40620	2593	Vendor 3	19.12	19.50	1.091	62.9	1.006	0.16	0.716	0.786
	LTE Band 41	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	39750	2506	Vendor 3	19.09	19.50	1.099	62.9	1.006	-0.12	1.070	1.183
11	LTE Band 41	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	40185	2549.5	Vendor 3	18.90	19.50	1.148	62.9	1.006	-0.15	1.030	1.190
	LTE Band 41	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	41055	2636.5	Vendor 3	18.90	19.50	1.148	62.9	1.006	-0.12	0.580	0.670
	LTE Band 41	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	41490	2680	Vendor 3	18.62	19.50	1.225	62.9	1.006	0.17	0.810	0.998
	LTE Band 42	20M	QPSK	1	0	Bottom Side	0mm	Ant 5	Laptop	43340	3575	Vendor 1	22.93	23.00	1.016	62.9	1.006	-0.13	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Bottom Side	0mm	Ant 5	Laptop	43340	3575	Vendor 1	21.97	22.00	1.007	62.9	1.006	0.07	0.001	0.001
	LTE Band 42	20M	QPSK	1	0	Back	0mm	Ant 5	Tablet	43340	3575	Vendor 1	16.98	17.00	1.005	62.9	1.006	0.14	0.079	0.080
	LTE Band 42	20M	QPSK	50	0	Back	0mm	Ant 5	Tablet	43340	3575	Vendor 1	17.00	17.00						



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	LTE Band 42	20M	QPSK	50	0	Right	0mm	Ant 5	Tablet	43340	3575	Vendor 1	17.00	17.00	1.0	62.9	1.006	-0.17	0.001	0.001
	LTE Band 42	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	43340	3575	Vendor 1	16.98	17.00	1.005	62.9	1.006	0.13	0.354	0.358
	LTE Band 42	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	43340	3575	Vendor 1	17.00	17.00	1.0	62.9	1.006	0.03	0.386	0.388
	LTE Band 42	20M	QPSK	1	0	Bottom	0mm	Ant 5	Tablet	43340	3575	Vendor 1	16.98	17.00	1.005	62.9	1.006	0.09	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Bottom	0mm	Ant 5	Tablet	43340	3575	Vendor 1	17.00	17.00	1.0	62.9	1.006	-0.10	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	43340	3575	Vendor 2	17.00	17.00	1.0	62.9	1.006	0.17	1.110	1.117
12	LTE Band 42	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	43190	3560	Vendor 2	16.96	17.00	1.009	62.9	1.006	0.00	1.120	1.137
	LTE Band 42	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	43490	3590	Vendor 2	16.97	17.00	1.007	62.9	1.006	-0.04	1.060	1.074
	LTE Band 42	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	43340	3575	Vendor 3	17.00	17.00	1.0	62.9	1.006	-0.18	1.010	1.016
	LTE Band 42	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	43190	3560	Vendor 3	16.96	17.00	1.009	62.9	1.006	0.18	0.953	0.967
	LTE Band 42	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	43490	3590	Vendor 3	16.97	17.00	1.007	62.9	1.006	0.17	1.000	1.013
	LTE Band 43	20M	QPSK	1	0	Bottom Side	0mm	Ant 5	Laptop	44090	3650	Vendor 1	22.97	23.00	1.007	62.9	1.006	-0.07	0.001	0.001
	LTE Band 43	20M	QPSK	50	0	Bottom Side	0mm	Ant 5	Laptop	44090	3650	Vendor 1	21.99	22.00	1.002	62.9	1.006	0.04	0.001	0.001
	LTE Band 43	20M	QPSK	1	0	Back	0mm	Ant 5	Tablet	44090	3650	Vendor 1	15.05	16.00	1.245	62.9	1.006	0.07	0.028	0.035
	LTE Band 43	20M	QPSK	50	0	Back	0mm	Ant 5	Tablet	44090	3650	Vendor 1	15.00	16.00	1.259	62.9	1.006	0.02	0.031	0.039
	LTE Band 43	20M	QPSK	1	0	Left	0mm	Ant 5	Tablet	44090	3650	Vendor 1	15.05	16.00	1.245	62.9	1.006	0.01	0.030	0.038
	LTE Band 43	20M	QPSK	50	0	Left	0mm	Ant 5	Tablet	44090	3650	Vendor 1	15.00	16.00	1.259	62.9	1.006	-0.04	0.028	0.035
	LTE Band 43	20M	QPSK	1	0	Right	0mm	Ant 5	Tablet	44090	3650	Vendor 1	15.05	16.00	1.245	62.9	1.006	0.07	0.001	0.001
	LTE Band 43	20M	QPSK	50	0	Right	0mm	Ant 5	Tablet	44090	3650	Vendor 1	15.00	16.00	1.259	62.9	1.006	-0.06	0.001	0.001
	LTE Band 43	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	44090	3650	Vendor 1	15.05	16.00	1.245	62.9	1.006	-0.19	0.154	0.193
	LTE Band 43	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	44090	3650	Vendor 1	15.00	16.00	1.259	62.9	1.006	0.13	0.122	0.155
	LTE Band 43	20M	QPSK	1	0	Bottom	0mm	Ant 5	Tablet	44090	3650	Vendor 1	15.05	16.00	1.245	62.9	1.006	0.15	0.001	0.001
	LTE Band 43	20M	QPSK	50	0	Bottom	0mm	Ant 5	Tablet	44090	3650	Vendor 1	15.00	16.00	1.259	62.9	1.006	-0.08	0.001	0.001
	LTE Band 43	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	44090	3650	Vendor 1	15.05	16.00	1.245	62.9	1.006	-0.07	0.590	0.739
	LTE Band 43	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	43690	3610	Vendor 2	14.93	16.00	1.279	62.9	1.006	-0.09	0.544	0.700
13	LTE Band 43	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	44490	3690	Vendor 2	14.56	16.00	1.393	62.9	1.006	-0.16	0.558	0.782
	LTE Band 43	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	44090	3650	Vendor 3	15.05	16.00	1.245	62.9	1.006	0.05	0.409	0.512
	LTE Band 43	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	43690	3610	Vendor 3	14.93	16.00	1.279	62.9	1.006	0.03	0.507	0.652
	LTE Band 43	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	44490	3690	Vendor 3	14.56	16.00	1.393	62.9	1.006	0.19	0.340	0.476
	LTE Band 48	20M	QPSK	1	0	Bottom Side	0mm	Ant 5	Laptop	55830	3609	Vendor 1	21.00	21.00	1.0	62.9	1.006	0.04	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Bottom Side	0mm	Ant 5	Laptop	55830	3609	Vendor 1	19.94	20.00	1.014	62.9	1.006	-0.15	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Back	0mm	Ant 5	Tablet	55830	3609	Vendor 1	16.11	17.00	1.227	62.9	1.006	0.09	0.044	0.054
	LTE Band 48	20M	QPSK	50	0	Back	0mm	Ant 5	Tablet	55830	3609	Vendor 1	16.00	17.00	1.259	62.9	1.006	0.13	0.046	0.058
	LTE Band 48	20M	QPSK	1	0	Left	0mm	Ant 5	Tablet	55830	3609	Vendor 1	16.11	17.00	1.227	62.9	1.006	-0.03	0.038	0.047
	LTE Band 48	20M	QPSK	50	0	Left	0mm	Ant 5	Tablet	55830	3609	Vendor 1	16.00	17.00	1.259	62.9	1.006	-0.18	0.044	0.056
	LTE Band 48	20M	QPSK	1	0	Right	0mm	Ant 5	Tablet	55830	3609	Vendor 1	16.11	17.00	1.227	62.9	1.006	-0.01	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Right	0mm	Ant 5	Tablet	55830	3609	Vendor 1	16.00	17.00	1.259	62.9	1.006	0.14	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Top	0mm	Ant 5	Tablet	55830	3609	Vendor 1	16.11	17.00	1.227	62.9	1.006	0.10	0.183	0.226
	LTE Band 48	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	55830	3609	Vendor 1	16.00	17.00	1.259	62.9	1.006	-0.09	0.190	0.241
	LTE Band 48	20M	QPSK	1	0	Bottom	0mm	Ant 5	Tablet	55830	3609	Vendor 1	16.11	17.00	1.227	62.9	1.006	-0.01	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Bottom	0mm	Ant 5	Tablet	55830	3609	Vendor 1	16.00	17.00	1.259	62.9	1.006	-0.08	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	55830	3609	Vendor 2	16.00	17.00	1.259	62.9	1.006	0.07	0.633	0.802
	LTE Band 48	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	55340	3560	Vendor 2	15.84	17.00	1.306	62.9	1.006	-0.02	0.638	0.838
14	LTE Band 48	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	56150	3641	Vendor 2	15.62	17.00	1.374	62.9	1.006	0.19	0.664	0.918
	LTE Band 48	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	56640	3690	Vendor 2	15.32	17.00	1.472	62.9	1.006	-0.05	0.598	0.886
	LTE Band 48	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	55830	3609	Vendor 3	16.00	17.00	1.259	62.9	1.006	-0.18	0.567	0.718
	LTE Band 48	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	55340	3560	Vendor 3	15.84	17.00	1.306	62.9	1.006	-0.15	0.570	0.749
	LTE Band 48	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	56150	3641	Vendor 3	15.62	17.00	1.374	62.9	1.006	0.01	0.484	0.669
	LTE Band 48	20M	QPSK	50	0	Top	0mm	Ant 5	Tablet	56640	3690	Vendor 3	15.32	17.00	1.472	62.9	1.006	0.01	0.371	0.549



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【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Vendor	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7	20M	BPSK	1	1	Bottom Side	0mm	Ant 5	Laptop	502000	2510	Vendor 1	22.15	23.00	1.216	-0.09	0.001	0.001
	FR1 n7	20M	BPSK	50	28	Bottom Side	0mm	Ant 5	Laptop	502000	2510	Vendor 1	22.00	23.00	1.259	0.06	0.001	0.001
	FR1 n7	20M	BPSK	1	1	Back	0mm	Ant 5	Tablet	502000	2510	Vendor 1	14.84	16.00	1.306	0.00	0.065	0.085
	FR1 n7	20M	BPSK	50	0	Back	0mm	Ant 5	Tablet	502000	2510	Vendor 1	14.83	16.00	1.309	-0.03	0.075	0.098
	FR1 n7	20M	BPSK	1	1	Left	0mm	Ant 5	Tablet	502000	2510	Vendor 1	14.84	16.00	1.306	0.11	0.001	0.001
	FR1 n7	20M	BPSK	50	0	Left	0mm	Ant 5	Tablet	502000	2510	Vendor 1	14.83	16.00	1.309	-0.09	0.001	0.001
	FR1 n7	20M	BPSK	1	1	Right	0mm	Ant 5	Tablet	502000	2510	Vendor 1	14.84	16.00	1.306	0.05	0.001	0.001
	FR1 n7	20M	BPSK	50	0	Right	0mm	Ant 5	Tablet	502000	2510	Vendor 1	14.83	16.00	1.309	0.14	0.001	0.001
	FR1 n7	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	502000	2510	Vendor 1	14.84	16.00	1.306	-0.08	0.185	0.242
	FR1 n7	20M	BPSK	50	0	Top	0mm	Ant 5	Tablet	502000	2510	Vendor 1	14.83	16.00	1.309	0.17	0.190	0.249
	FR1 n7	20M	BPSK	1	1	Bottom	0mm	Ant 5	Tablet	502000	2510	Vendor 1	14.84	16.00	1.306	0.15	0.001	0.001
	FR1 n7	20M	BPSK	50	0	Bottom	0mm	Ant 5	Tablet	502000	2510	Vendor 1	14.83	16.00	1.309	0.19	0.001	0.001
	FR1 n7	20M	BPSK	50	0	Top	0mm	Ant 5	Tablet	502000	2510	Vendor 2	14.83	16.00	1.309	0.18	0.584	0.764
15	FR1 n7	20M	BPSK	50	0	Top	0mm	Ant 5	Tablet	502000	2510	Vendor 3	14.83	16.00	1.309	-0.03	0.697	0.912
	FR1 n7	20M	BPSK	50	0	Top	0mm	Ant 5	Tablet	507000	2535	Vendor 1	14.55	16.00	1.396	-0.18	0.642	0.896
	FR1 n7	20M	BPSK	50	0	Top	0mm	Ant 5	Tablet	512000	2560	Vendor 3	14.21	16.00	1.51	0.12	0.529	0.799
	FR1 n12	15M	BPSK	1	1	Bottom Side	0mm	Ant 5	Laptop	141500	707.5	Vendor 1	23.09	24.00	1.233	0.09	0.001	0.001
	FR1 n12	15M	BPSK	36	22	Bottom Side	0mm	Ant 5	Laptop	141500	707.5	Vendor 1	22.92	24.00	1.282	-0.04	0.001	0.001
	FR1 n12	15M	BPSK	1	1	Back	0mm	Ant 5	Tablet	141500	707.5	Vendor 1	19.84	21.50	1.466	0.11	0.122	0.179
	FR1 n12	15M	BPSK	36	0	Back	0mm	Ant 5	Tablet	141500	707.5	Vendor 1	19.91	21.50	1.442	-0.12	0.121	0.174
	FR1 n12	15M	BPSK	1	1	Left	0mm	Ant 5	Tablet	141500	707.5	Vendor 1	19.84	21.50	1.466	0.00	0.001	0.001
	FR1 n12	15M	BPSK	36	0	Left	0mm	Ant 5	Tablet	141500	707.5	Vendor 1	19.91	21.50	1.442	0.14	0.001	0.001
	FR1 n12	15M	BPSK	1	1	Right	0mm	Ant 5	Tablet	141500	707.5	Vendor 1	19.84	21.50	1.466	0.15	0.001	0.001
	FR1 n12	15M	BPSK	36	0	Right	0mm	Ant 5	Tablet	141500	707.5	Vendor 1	19.91	21.50	1.442	0.00	0.001	0.001
	FR1 n12	15M	BPSK	1	1	Top	0mm	Ant 5	Tablet	141500	707.5	Vendor 1	19.84	21.50	1.466	-0.09	0.449	0.658
	FR1 n12	15M	BPSK	36	0	Top	0mm	Ant 5	Tablet	141500	707.5	Vendor 1	19.91	21.50	1.442	0.16	0.453	0.653
	FR1 n12	15M	BPSK	1	1	Bottom	0mm	Ant 5	Tablet	141500	707.5	Vendor 1	19.84	21.50	1.466	-0.14	0.001	0.001
	FR1 n12	15M	BPSK	36	0	Bottom	0mm	Ant 5	Tablet	141500	707.5	Vendor 1	19.91	21.50	1.442	0.02	0.001	0.001
	FR1 n12	15M	BPSK	1	1	Top	0mm	Ant 5	Tablet	141500	707.5	Vendor 2	19.84	21.50	1.466	-0.12	0.535	0.784
16	FR1 n12	15M	BPSK	1	1	Top	0mm	Ant 5	Tablet	141500	707.5	Vendor 3	19.84	21.50	1.466	-0.05	0.653	0.957
	FR1 n13	10M	BPSK	1	1	Bottom Side	0mm	Ant 5	Laptop	156400	782	Vendor 1	23.17	24.00	1.211	-0.16	0.001	0.001
	FR1 n13	10M	BPSK	25	14	Bottom Side	0mm	Ant 5	Laptop	156400	782	Vendor 1	23.12	24.00	1.225	0.18	0.001	0.001
	FR1 n13	10M	BPSK	1	1	Back	0mm	Ant 5	Tablet	156400	782	Vendor 1	17.84	19.50	1.466	-0.08	0.052	0.076
	FR1 n13	10M	BPSK	25	0	Back	0mm	Ant 5	Tablet	156400	782	Vendor 1	17.90	19.50	1.445	0.06	0.057	0.082
	FR1 n13	10M	BPSK	1	1	Left	0mm	Ant 5	Tablet	156400	782	Vendor 1	17.84	19.50	1.466	-0.10	0.001	0.001
	FR1 n13	10M	BPSK	25	0	Left	0mm	Ant 5	Tablet	156400	782	Vendor 1	17.90	19.50	1.445	0.17	0.001	0.001
	FR1 n13	10M	BPSK	1	1	Right	0mm	Ant 5	Tablet	156400	782	Vendor 1	17.84	19.50	1.466	-0.02	0.001	0.001
	FR1 n13	10M	BPSK	25	0	Right	0mm	Ant 5	Tablet	156400	782	Vendor 1	17.90	19.50	1.445	0.02	0.001	0.001
	FR1 n13	10M	BPSK	1	1	Top	0mm	Ant 5	Tablet	156400	782	Vendor 1	17.84	19.50	1.466	0.06	0.187	0.274
	FR1 n13	10M	BPSK	25	0	Top	0mm	Ant 5	Tablet	156400	782	Vendor 1	17.90	19.50	1.445	0.06	0.205	0.296
	FR1 n13	10M	BPSK	1	1	Bottom	0mm	Ant 5	Tablet	156400	782	Vendor 1	17.84	19.50	1.466	-0.18	0.001	0.001
	FR1 n13	10M	BPSK	25	0	Bottom	0mm	Ant 5	Tablet	156400	782	Vendor 1	17.90	19.50	1.445	0.01	0.001	0.001
	FR1 n13	10M	BPSK	25	0	Top	0mm	Ant 5	Tablet	156400	782	Vendor 2	17.90	19.50	1.445	-0.14	0.275	0.397
17	FR1 n13	10M	BPSK	25	0	Top	0mm	Ant 5	Tablet	156400	782	Vendor 3	17.90	19.50	1.445	-0.11	0.480	0.694
	FR1 n14	10M	BPSK	1	26	Bottom Side	0mm	Ant 5	Laptop	158600	793	Vendor 1	23.17	24.00	1.211	0.09	0.001	0.001
	FR1 n14	10M	BPSK	25	14	Bottom Side	0mm	Ant 5	Laptop	158600	793	Vendor 1	23.16	24.00	1.213	-0.09	0.001	0.001
	FR1 n14	10M	BPSK	1	1	Back	0mm	Ant 5	Tablet	158600	793	Vendor 1	18.95	20.50	1.429	-0.19	0.080	0.114
	FR1 n14	10M	BPSK	25	0	Back	0mm	Ant 5	Tablet	158600	793	Vendor 1	19.01	20.50	1.409	0.16	0.082	0.116
	FR1 n14	10M	BPSK	1	1	Left	0mm	Ant 5	Tablet	158600	793	Vendor 1	18.95	20.50	1.429	0.06	0.001	0.001
	FR1 n14	10M	BPSK	25	0	Left	0mm	Ant 5	Tablet	158600	793	Vendor 1	19.01	20.50	1.409	-0.01	0.001	0.001
	FR1 n14	10M	BPSK	1	1	Right	0mm	Ant 5	Tablet	158600	793	Vendor 1	18.95	20.50	1.429	-0.07	0.001	0.001
	FR1 n14	10M	BPSK	25	0	Right	0mm	Ant 5	Tablet	158600	793	Vendor 1	19.01	20.50	1.409	-0.17	0.001	0.001
	FR1 n14	10M	BPSK	1	1	Top	0mm	Ant 5	Tablet	158600	793	Vendor 1	18.95	20.50	1.429	-0.15	0.276	0.394
	FR1 n14	10M	BPSK	25	0	Top	0mm	Ant 5	Tablet	158600	793	Vendor 1	19.01	20.50	1.409	-0.06	0.278	0.392
	FR1 n14	10M	BPSK	1	1	Bottom	0mm	Ant 5	Tablet	158600	793	Vendor 1	18.95	20.50	1.429	0.01	0.001	0.001
	FR1 n14	10M	BPSK	25	0	Bottom	0mm	Ant 5	Tablet	158600	793	Vendor 1	19.01	20.50	1.409	0.12	0.001	0.001
	FR1 n14	10M	BPSK	1	1	Top	0mm	Ant 5	Tablet	158600	793	Vendor 2	18.95	20.50	1.429	0.03	0.336	0.480
18	FR1 n14	10M	BPSK	1	1	Top	0mm	Ant 5	Tablet	158600	793	Vendor 3	18.95	20.50	1.429	0.02	0.619	0.885
	FR1 n25	20M	BPSK	1	53	Bottom Side	0mm	Ant 5	Laptop	376500	1882.5	Vendor 1	22.30	23.00	1.175	0.10	0.001	0.001
	FR1 n25	20M	BPSK	50	28	Bottom Side	0mm	Ant 5	Laptop	376500	1882.5	Vendor 1	22.30	23.00	1.175	0.09	0.001	0.001
	FR1 n25	20M	BPSK	1	1	Back	0mm	Ant 5	Tablet	376500	1882.5	Vendor 1	18.65	19.50	1.216	0.15	0.200	0.243
	FR1 n25	20M	BPSK	50	0	Back	0mm	Ant 5	Tablet	376500	1882.5	Vendor 1	18.71	19.50	1.199	0.00	0.192	0.230
	FR1 n25	20M	BPSK	1	1	Left	0mm	Ant 5	Tablet	376500	1882.5	Vendor 1	18.65	19.50	1.216	-0.04	0.066	0.080
	FR1 n25	20M	BPSK	50	0	Left	0mm	Ant 5	Tablet	376500	1882.5	Vendor 1	18.71	19.50	1.199	-0.17	0.059	0.071
	FR1 n25	20M	BPSK	1	1	Right	0mm	Ant 5	Tablet	376500	1882.5	Vendor 1	18.65	19.50	1.216	0.07	0.001	0.001
	FR1 n25	20M	BPSK	50	0	Right	0mm	Ant 5	Tablet	376500	1882.5	Vendor 1	18.71	19.50	1.199	0.16	0.001	0.001
	FR1 n25	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	376500	1882.5	Vendor 1	18.65	19.50	1.216	-0.12	0.646	0.786
	FR1 n25	20M	BPSK	50	0	Top	0mm	Ant 5	Tablet	376500	1882.5	Vendor 1	18.71	19.50	1.199	-0.16	0.642	0.770
	FR1 n25	20M	BPSK	1	1	Bottom	0mm	Ant 5	Tablet	376500	1882.5	Vendor 1	18.65	19.50	1.216	0.02	0.001	0.001

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	FR1 n25	20M	BPSK	50	0	Bottom	0mm	Ant 5	Tablet	376500	1882.5	Vendor 1	18.71	19.50	1.199	-0.11	0.001	0.001
	FR1 n25	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	376500	1882.5	Vendor 2	18.65	19.50	1.216	-0.03	0.648	0.788
19	FR1 n25	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	376500	1882.5	Vendor 3	18.65	19.50	1.216	-0.11	0.949	1.154
	FR1 n25	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	372000	1860	Vendor 3	18.44	19.50	1.276	-0.02	0.896	1.143
	FR1 n25	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	381000	1905	Vendor 3	18.59	19.50	1.233	0.15	0.771	0.951
	FR1 n26	20M	BPSK	1	1	Bottom Side	0mm	Ant 5	Laptop	166300	831.5	Vendor 1	23.30	24.00	1.175	-0.08	0.001	0.001
	FR1 n26	20M	BPSK	50	28	Bottom Side	0mm	Ant 5	Laptop	166300	831.5	Vendor 1	23.22	24.00	1.197	0.07	0.001	0.001
	FR1 n26	20M	BPSK	1	1	Back	0mm	Ant 5	Tablet	166300	831.5	Vendor 1	18.97	20.00	1.268	0.14	0.039	0.049
	FR1 n26	20M	BPSK	50	0	Back	0mm	Ant 5	Tablet	166300	831.5	Vendor 1	19.06	20.00	1.242	-0.05	0.041	0.051
	FR1 n26	20M	BPSK	1	1	Left	0mm	Ant 5	Tablet	166300	831.5	Vendor 1	18.97	20.00	1.268	0.15	0.001	0.001
	FR1 n26	20M	BPSK	50	0	Left	0mm	Ant 5	Tablet	166300	831.5	Vendor 1	19.06	20.00	1.242	-0.17	0.001	0.001
	FR1 n26	20M	BPSK	1	1	Right	0mm	Ant 5	Tablet	166300	831.5	Vendor 1	18.97	20.00	1.268	-0.03	0.001	0.001
	FR1 n26	20M	BPSK	50	0	Right	0mm	Ant 5	Tablet	166300	831.5	Vendor 1	19.06	20.00	1.242	0.10	0.001	0.001
	FR1 n26	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	166300	831.5	Vendor 1	18.97	20.00	1.268	-0.17	0.123	0.156
	FR1 n26	20M	BPSK	50	0	Top	0mm	Ant 5	Tablet	166300	831.5	Vendor 1	19.06	20.00	1.242	0.06	0.126	0.156
	FR1 n26	20M	BPSK	1	1	Bottom	0mm	Ant 5	Tablet	166300	831.5	Vendor 1	18.97	20.00	1.268	-0.13	0.001	0.001
	FR1 n26	20M	BPSK	50	0	Bottom	0mm	Ant 5	Tablet	166300	831.5	Vendor 1	19.06	20.00	1.242	0.13	0.001	0.001
	FR1 n26	20M	BPSK	50	0	Top	0mm	Ant 5	Tablet	166300	831.5	Vendor 2	19.06	20.00	1.242	-0.05	0.312	0.388
20	FR1 n26	20M	BPSK	50	0	Top	0mm	Ant 5	Tablet	166300	831.5	Vendor 3	19.06	20.00	1.242	-0.06	0.690	0.857
	FR1 n30	10M	BPSK	1	1	Bottom Side	0mm	Ant 5	Laptop	462000	2310	Vendor 1	21.20	22.00	1.202	0.01	0.001	0.001
	FR1 n30	10M	BPSK	25	14	Bottom Side	0mm	Ant 5	Laptop	462000	2310	Vendor 1	21.13	22.00	1.222	-0.13	0.001	0.001
	FR1 n30	10M	BPSK	1	1	Back	0mm	Ant 5	Tablet	462000	2310	Vendor 1	16.60	18.00	1.38	0.10	0.113	0.156
	FR1 n30	10M	BPSK	25	0	Back	0mm	Ant 5	Tablet	462000	2310	Vendor 1	16.68	18.00	1.355	0.17	0.104	0.141
	FR1 n30	10M	BPSK	1	1	Left	0mm	Ant 5	Tablet	462000	2310	Vendor 1	16.60	18.00	1.38	0.10	0.001	0.001
	FR1 n30	10M	BPSK	25	0	Left	0mm	Ant 5	Tablet	462000	2310	Vendor 1	16.68	18.00	1.355	-0.17	0.001	0.001
	FR1 n30	10M	BPSK	1	1	Right	0mm	Ant 5	Tablet	462000	2310	Vendor 1	16.60	18.00	1.38	-0.04	0.001	0.001
	FR1 n30	10M	BPSK	25	0	Right	0mm	Ant 5	Tablet	462000	2310	Vendor 1	16.68	18.00	1.355	-0.17	0.001	0.001
	FR1 n30	10M	BPSK	1	1	Top	0mm	Ant 5	Tablet	462000	2310	Vendor 1	16.60	18.00	1.38	-0.19	0.212	0.293
	FR1 n30	10M	BPSK	25	0	Top	0mm	Ant 5	Tablet	462000	2310	Vendor 1	16.68	18.00	1.355	0.15	0.200	0.271
	FR1 n30	10M	BPSK	1	1	Bottom	0mm	Ant 5	Tablet	462000	2310	Vendor 1	16.60	18.00	1.38	0.05	0.001	0.001
	FR1 n30	10M	BPSK	25	0	Bottom	0mm	Ant 5	Tablet	462000	2310	Vendor 1	16.68	18.00	1.355	-0.02	0.001	0.001
21	FR1 n30	10M	BPSK	1	1	Top	0mm	Ant 5	Tablet	462000	2310	Vendor 2	16.60	18.00	1.38	0.03	0.438	0.604
	FR1 n30	10M	BPSK	1	1	Top	0mm	Ant 5	Tablet	462000	2310	Vendor 3	16.60	18.00	1.38	0.19	0.418	0.577
	FR1 n66	20M	BPSK	1	1	Bottom Side	0mm	Ant 5	Laptop	344000	1720	Vendor 1	21.84	23.00	1.306	0.00	0.001	0.001
	FR1 n66	20M	BPSK	50	28	Bottom Side	0mm	Ant 5	Laptop	344000	1720	Vendor 1	21.73	23.00	1.34	0.11	0.001	0.001
	FR1 n66	20M	BPSK	1	1	Back	0mm	Ant 5	Tablet	344000	1720	Vendor 1	17.57	18.50	1.239	0.17	0.189	0.234
	FR1 n66	20M	BPSK	50	0	Back	0mm	Ant 5	Tablet	344000	1720	Vendor 1	17.57	18.50	1.239	-0.08	0.180	0.223
	FR1 n66	20M	BPSK	1	1	Left	0mm	Ant 5	Tablet	344000	1720	Vendor 1	17.57	18.50	1.239	0.00	0.001	0.001
	FR1 n66	20M	BPSK	50	0	Left	0mm	Ant 5	Tablet	344000	1720	Vendor 1	17.57	18.50	1.239	-0.14	0.001	0.001
	FR1 n66	20M	BPSK	1	1	Right	0mm	Ant 5	Tablet	344000	1720	Vendor 1	17.57	18.50	1.239	0.12	0.001	0.001
	FR1 n66	20M	BPSK	50	0	Right	0mm	Ant 5	Tablet	344000	1720	Vendor 1	17.57	18.50	1.239	-0.09	0.001	0.001
	FR1 n66	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	344000	1720	Vendor 1	17.57	18.50	1.239	-0.17	0.552	0.684
	FR1 n66	20M	BPSK	50	0	Top	0mm	Ant 5	Tablet	344000	1720	Vendor 1	17.57	18.50	1.239	-0.14	0.536	0.664
	FR1 n66	20M	BPSK	1	1	Bottom	0mm	Ant 5	Tablet	344000	1720	Vendor 1	17.57	18.50	1.239	0.16	0.001	0.001
	FR1 n66	20M	BPSK	50	0	Bottom	0mm	Ant 5	Tablet	344000	1720	Vendor 1	17.57	18.50	1.239	0.11	0.001	0.001
22	FR1 n66	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	344000	1720	Vendor 2	17.57	18.50	1.239	0.00	0.670	0.830
	FR1 n66	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	349000	1745	Vendor 2	17.47	18.50	1.268	-0.13	0.623	0.790
	FR1 n66	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	354000	1770	Vendor 2	17.33	18.50	1.309	0.06	0.485	0.635
	FR1 n66	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	344000	1720	Vendor 3	17.57	18.50	1.239	0.02	0.614	0.761
	FR1 n66	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	349000	1745	Vendor 3	17.47	18.50	1.268	0.09	0.495	0.628
	FR1 n66	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	354000	1770	Vendor 3	17.33	18.50	1.309	-0.10	0.415	0.543
	FR1 n71	20M	BPSK	1	1	Bottom Side	0mm	Ant 5	Laptop	136100	680.5	Vendor 1	22.90	24.00	1.288	-0.14	0.001	0.001
	FR1 n71	20M	BPSK	50	28	Bottom Side	0mm	Ant 5	Laptop	136100	680.5	Vendor 1	22.94	24.00	1.276	-0.03	0.001	0.001
	FR1 n71	20M	BPSK	1	1	Back	0mm	Ant 5	Tablet	136100	680.5	Vendor 1	20.81	22.00	1.315	-0.02	0.172	0.226
	FR1 n71	20M	BPSK	50	0	Back	0mm	Ant 5	Tablet	136100	680.5	Vendor 1	20.89	22.00	1.291	0.07	0.169	0.218
	FR1 n71	20M	BPSK	1	1	Left	0mm	Ant 5	Tablet	136100	680.5	Vendor 1	20.81	22.00	1.315	-0.16	0.001	0.001
	FR1 n71	20M	BPSK	50	0	Left	0mm	Ant 5	Tablet	136100	680.5	Vendor 1	20.89	22.00	1.291	0.15	0.001	0.001
	FR1 n71	20M	BPSK	1	1	Right	0mm	Ant 5	Tablet	136100	680.5	Vendor 1	20.81	22.00	1.315	-0.01	0.001	0.001
	FR1 n71	20M	BPSK	50	0	Right	0mm	Ant 5	Tablet	136100	680.5	Vendor 1	20.89	22.00	1.291	0.09	0.001	0.001
	FR1 n71	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	136100	680.5	Vendor 1	20.81	22.00	1.315	0.00	0.499	0.656
	FR1 n71	20M	BPSK	50	0	Top	0mm	Ant 5	Tablet	136100	680.5	Vendor 1	20.89	22.00	1.291	-0.06	0.500	0.646
	FR1 n71	20	BPSK	100	0	Top	0mm	Ant 5	Tablet	136100	680.5	Vendor 1	20.82	22.00	1.312	-0.14	0.480	0.630
	FR1 n71	20M	BPSK	1	1	Bottom	0mm	Ant 5	Tablet	136100	680.5	Vendor 1	20.81	22.00	1.315	-0.07	0.001	0.001
	FR1 n71	20M	BPSK	50	0	Bottom	0mm	Ant 5	Tablet	136100	680.5	Vendor 1	20.89	22.00	1.291	0.07	0.001	0.001
23	FR1 n71	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	136100	680.5	Vendor 2	20.81	22.00	1.315	0.01	0.661	0.869
	FR1 n71	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	136100	680.5	Vendor 3	20.81	22.00	1.315	0.19	0.560	0.736
	FR1 n41_HPUE	20M	BPSK	1	1	Bottom Side	0mm	Ant 5	Laptop	501204	2506.02	Vendor 1	25.20	26.00	1.202	0.07	0.001	0.001
	FR1 n41_HPUE	20M	BPSK	25	13	Bottom Side	0mm	Ant 5	Laptop	501204	2506.02	Vendor 1	25.04	26.00	1.247	-0.18	0.001	0.001
	FR1 n41	20M	BPSK	1	1	Back	0mm	Ant 5	Tablet	501204	2506.02	Vendor 1	18.20	18.50	1.072	0.14	0.088	0.094
	FR1 n41	20M	BPSK	25	0	Back	0mm	Ant 5	Tablet	501204	2506.02	Vendor 1	18.19	18.50	1.074	0.11	0.094	0.101
	FR1 n41	20M	BPSK	1	1	Left	0mm	Ant 5	Tablet	501204	2506.02	Vendor 1	18.20	18.50	1.072	-0.10	0.048	0.051
	FR1 n41	20M	BPSK	25	0	Left	0mm	Ant 5	Tablet	501204	2506.02	Vendor 1	18.19	18.50	1.074	0.00	0.053	0.057
	FR1 n41	20M	BPSK	1	1	Right	0mm	Ant 5	Tablet	501204	2506.02	Vendor 1	18.20	18.50	1.072	-0.07	0.001	0.001



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	FR1 n41	20M	BPSK	25	0	Right	0mm	Ant 5	Tablet	501204	2506.02	Vendor 1	18.19	18.50	1.074	0.03	0.001	0.001
	FR1 n41	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	501204	2506.02	Vendor 1	18.20	18.50	1.072	-0.01	0.280	0.300
	FR1 n41	20	BPSK	50	0	Top	0mm	Ant 5	Tablet	501204	2506.02	Vendor 1	18.16	18.50	1.081	0.11	0.273	0.295
	FR1 n41	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	501204	2506.02	Vendor 1	18.19	18.50	1.074	0.19	0.291	0.313
	FR1 n41	20M	BPSK	1	1	Bottom	0mm	Ant 5	Tablet	501204	2506.02	Vendor 1	18.20	18.50	1.072	0.01	0.001	0.001
	FR1 n41	20M	BPSK	25	0	Bottom	0mm	Ant 5	Tablet	501204	2506.02	Vendor 1	18.19	18.50	1.074	0.19	0.001	0.001
	FR1 n41	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	501204	2506.02	Vendor 2	18.19	18.50	1.074	0.17	0.869	0.933
	FR1 n41	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	518598	2592.99	Vendor 2	17.47	18.50	1.268	0.14	0.575	0.729
	FR1 n41	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	535998	2679.99	Vendor 2	17.49	18.50	1.262	0.14	0.512	0.646
	FR1 n41	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	501204	2506.02	Vendor 3	18.19	18.50	1.074	-0.06	1.080	1.160
	FR1 n41	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	518598	2592.99	Vendor 3	17.47	18.50	1.268	0.00	0.713	0.904
24	FR1 n41	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	535998	2679.99	Vendor 3	17.49	18.50	1.262	-0.03	0.937	1.182
	FR1 n48	20M	BPSK	1	1	Bottom Side	0mm	Ant 5	Laptop	637334	3560.01	Vendor 1	20.86	21.00	1.033	-0.07	0.001	0.001
	FR1 n48	20M	BPSK	25	13	Bottom Side	0mm	Ant 5	Laptop	637334	3560.01	Vendor 1	20.76	21.00	1.057	0.00	0.001	0.001
	FR1 n48	20M	BPSK	1	1	Back	0mm	Ant 5	Tablet	637334	3560.01	Vendor 1	15.80	16.50	1.175	-0.19	0.077	0.090
	FR1 n48	20M	BPSK	25	0	Back	0mm	Ant 5	Tablet	637334	3560.01	Vendor 1	15.80	16.50	1.175	-0.09	0.071	0.083
	FR1 n48	20M	BPSK	1	1	Left	0mm	Ant 5	Tablet	637334	3560.01	Vendor 1	15.80	16.50	1.175	0.12	0.068	0.080
	FR1 n48	20M	BPSK	25	0	Left	0mm	Ant 5	Tablet	637334	3560.01	Vendor 1	15.80	16.50	1.175	0.07	0.070	0.082
	FR1 n48	20M	BPSK	1	1	Right	0mm	Ant 5	Tablet	637334	3560.01	Vendor 1	15.80	16.50	1.175	0.15	0.001	0.001
	FR1 n48	20M	BPSK	25	0	Right	0mm	Ant 5	Tablet	637334	3560.01	Vendor 1	15.80	16.50	1.175	-0.17	0.001	0.001
	FR1 n48	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	637334	3560.01	Vendor 1	15.80	16.50	1.175	-0.18	0.366	0.430
	FR1 n48	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	637334	3560.01	Vendor 1	15.80	16.50	1.175	0.19	0.376	0.442
	FR1 n48	20	BPSK	50	0	Top	0mm	Ant 5	Tablet	637334	3560.01	Vendor 1	15.77	16.50	1.183	0.07	0.359	0.425
	FR1 n48	20M	BPSK	1	1	Bottom	0mm	Ant 5	Tablet	637334	3560.01	Vendor 1	15.80	16.50	1.175	0.17	0.001	0.001
	FR1 n48	20M	BPSK	25	0	Bottom	0mm	Ant 5	Tablet	637334	3560.01	Vendor 1	15.80	16.50	1.175	0.14	0.001	0.001
	FR1 n48	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	637334	3560.01	Vendor 2	15.80	16.50	1.175	0.17	0.955	1.122
	FR1 n48	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	641666	3624.99	Vendor 2	15.76	16.50	1.186	0.07	0.967	1.147
	FR1 n48	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	646000	3690	Vendor 2	15.15	16.50	1.365	-0.07	0.860	1.174
25	FR1 n48	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	637334	3560.01	Vendor 3	15.80	16.50	1.175	0.07	1.010	1.187
	FR1 n48	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	641666	3624.99	Vendor 3	15.76	16.50	1.186	-0.14	0.963	1.142
	FR1 n48	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	646000	3690	Vendor 3	15.15	16.50	1.365	-0.13	0.711	0.971
	FR1 n77_HPUE	20M	BPSK	1	1	Bottom Side	0mm	Ant 5	Laptop	636000	3540	Vendor 1	24.62	26.00	1.374	-0.08	0.001	0.001
	FR1 n77_HPUE	20M	BPSK	25	13	Bottom Side	0mm	Ant 5	Laptop	636000	3540	Vendor 1	24.57	26.00	1.39	0.12	0.001	0.001
	FR1 n77	20M	BPSK	1	1	Back	0mm	Ant 5	Tablet	633332	3499.98	Vendor 1	13.73	15.00	1.34	-0.09	0.044	0.059
	FR1 n77	20M	BPSK	25	0	Back	0mm	Ant 5	Tablet	633332	3499.98	Vendor 1	13.78	15.00	1.324	0.00	0.045	0.060
	FR1 n77	20M	BPSK	1	1	Left	0mm	Ant 5	Tablet	633332	3499.98	Vendor 1	13.73	15.00	1.34	-0.03	0.032	0.043
	FR1 n77	20M	BPSK	25	0	Left	0mm	Ant 5	Tablet	633332	3499.98	Vendor 1	13.78	15.00	1.324	0.05	0.028	0.037
	FR1 n77	20M	BPSK	1	1	Right	0mm	Ant 5	Tablet	633332	3499.98	Vendor 1	13.73	15.00	1.34	-0.12	0.001	0.001
	FR1 n77	20M	BPSK	25	0	Right	0mm	Ant 5	Tablet	633332	3499.98	Vendor 1	13.78	15.00	1.324	-0.17	0.001	0.001
	FR1 n77	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	633332	3499.98	Vendor 1	13.73	15.00	1.34	0.17	0.163	0.218
	FR1 n77	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	633332	3499.98	Vendor 1	13.78	15.00	1.324	-0.06	0.162	0.214
	FR1 n77	20M	BPSK	1	1	Bottom	0mm	Ant 5	Tablet	633332	3499.98	Vendor 1	13.73	15.00	1.34	0.08	0.001	0.001
	FR1 n77	20M	BPSK	25	0	Bottom	0mm	Ant 5	Tablet	633332	3499.98	Vendor 1	13.78	15.00	1.324	0.09	0.001	0.001
	FR1 n77	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	633332	3499.98	Vendor 2	13.73	15.00	1.34	0.06	0.605	0.811
	FR1 n77	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	630668	3460.02	Vendor 2	13.60	15.00	1.38	-0.17	0.560	0.773
26	FR1 n77	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	636000	3540	Vendor 2	13.58	15.00	1.387	0.01	0.599	0.831
	FR1 n77	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	633332	3499.98	Vendor 3	13.73	15.00	1.34	0.05	0.416	0.557
	FR1 n77_HPUE	20M	BPSK	1	1	Bottom Side	0mm	Ant 5	Laptop	647334	3710.01	Vendor 1	24.98	26.00	1.265	-0.01	0.001	0.001
	FR1 n77_HPUE	20M	BPSK	25	13	Bottom Side	0mm	Ant 5	Laptop	647334	3710.01	Vendor 1	24.95	26.00	1.274	-0.05	0.001	0.001
	FR1 n77	20M	BPSK	1	1	Back	0mm	Ant 5	Tablet	647334	3710.01	Vendor 1	14.74	15.00	1.062	0.03	0.054	0.057
	FR1 n77	20M	BPSK	25	0	Back	0mm	Ant 5	Tablet	647334	3710.01	Vendor 1	14.72	15.00	1.067	-0.03	0.053	0.057
	FR1 n77	20M	BPSK	1	1	Left	0mm	Ant 5	Tablet	647334	3710.01	Vendor 1	14.74	15.00	1.062	-0.17	0.039	0.041
	FR1 n77	20M	BPSK	25	0	Left	0mm	Ant 5	Tablet	647334	3710.01	Vendor 1	14.72	15.00	1.067	-0.11	0.038	0.041
	FR1 n77	20M	BPSK	1	1	Right	0mm	Ant 5	Tablet	647334	3710.01	Vendor 1	14.74	15.00	1.062	0.14	0.001	0.001
	FR1 n77	20M	BPSK	25	0	Right	0mm	Ant 5	Tablet	647334	3710.01	Vendor 1	14.72	15.00	1.067	0.12	0.001	0.001
	FR1 n77	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	647334	3710.01	Vendor 1	14.74	15.00	1.062	-0.18	0.150	0.159
	FR1 n77	20M	BPSK	25	0	Top	0mm	Ant 5	Tablet	647334	3710.01	Vendor 1	14.72	15.00	1.067	0.07	0.146	0.156
	FR1 n77	20M	BPSK	1	1	Bottom	0mm	Ant 5	Tablet	647334	3710.01	Vendor 1	14.74	15.00	1.062	0.17	0.001	0.001
	FR1 n77	20M	BPSK	25	0	Bottom	0mm	Ant 5	Tablet	647334	3710.01	Vendor 1	14.72	15.00	1.067	-0.06	0.001	0.001
	FR1 n77	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	647334	3710.01	Vendor 2	14.74	15.00	1.062	-0.13	0.711	0.755
	FR1 n77	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	656000	3840	Vendor 2	13.95	15.00	1.274	-0.02	0.199	0.254
	FR1 n77	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	664666	3969.99	Vendor 2	13.89	15.00	1.291	-0.09	0.223	0.288
	FR1 n77	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	647334	3710.01	Vendor 3	14.74	15.00	1.062	0.04	0.483	0.513
	FR1 n77	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	656000	3840	Vendor 3	13.95	15.00	1.274	0.10	0.217	0.276
	FR1 n77	20M	BPSK	1	1	Top	0mm	Ant 5	Tablet	664666	3969.99	Vendor 3	13.89	15.00	1.291	-0.16	0.260	0.336



16.2 Repeated SAR Measurement

【Repeat SAR 1g】

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	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)	Ratio
1st	LTE Band 12	10M QPSK 1	Top	0.0	Ant 5	Tablet	23095	707.5	Vendor 3	21.27	21.50	1.054			-0.02	0.925	0.975	-
2nd	LTE Band 12	10M QPSK 1	Top	0.0	Ant 5	Tablet	23095	707.5	Vendor 3	21.27	21.50	1.054			-0.05	0.915	0.965	1.01
1st	LTE Band 25	20M QPSK 1	Top	0.0	Ant 5	Tablet	26340	1880	Vendor 3	18.66	19.00	1.081			-0.07	0.989	1.069	-
2nd	LTE Band 25	20M QPSK 1	Top	0.0	Ant 5	Tablet	26340	1880	Vendor 3	18.66	19.00	1.081			-0.03	0.975	1.054	1.01
1st	FR1 n41	20M BPSK 25	Top	0.0	Ant 5	Tablet	501204	2506	Vendor 3	18.19	18.50	1.074			-0.06	1.080	1.160	-
2nd	FR1 n41	20M BPSK 25	Top	0.0	Ant 5	Tablet	501204	2506	Vendor 3	18.19	18.50	1.074			-0.01	0.989	1.062	1.09
1st	LTE Band 42 (96)	20M QPSK 50	Top	0.0	Ant 5	Tablet	43190	3560	Vendor 2	16.96	17.00	1.009	62.90	1.006	0.00	1.120	1.137	-
2nd	LTE Band 42 (96)	20M QPSK 50	Top	0.0	Ant 5	Tablet	43190	3560	Vendor 2	16.96	17.00	1.009	62.90	1.006	0.15	1.080	1.097	1.04

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, 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.

17. Simultaneous Transmission Analysis

	NO.	Simultaneous Transmission Configurations	Body
< MT7922A22M >	1.	WWAN Ant 5 + WLAN2.4GHz Main_TX2 + WLAN2.4GHz Aux_TX1	Yes
	2.	WWAN Ant 5 + WLAN5/6GHz Main_TX2+ Bluetooth Aux_TX1	Yes
	3.	WWAN Ant 5 + WLAN5/6GHz Aux_TX1 + Bluetooth Aux_TX1	Yes
	4.	WWAN Ant 5 + WLAN5/6GHz MIMO+ Bluetooth Aux_TX1	Yes
	5.	WWAN Ant 5 + WLAN5/6GHz Main_TX2 + WLAN5/6GHz Aux_TX1 + Bluetooth Aux_TX1	Yes

	NO.	Simultaneous Transmission Configurations	Body
< MT7925B22M >	6.	WWAN Ant 5 + WLAN2.4GHz Main_TX2 + WLAN2.4GHz Aux_TX1	Yes
	7.	WWAN Ant 5 + WLAN5/6GHz Main_TX2+ Bluetooth Aux_TX1	Yes
	8.	WWAN Ant 5 + WLAN5/6GHz Aux_TX1 + Bluetooth Aux_TX1	Yes
	9.	WWAN Ant 5 + WLAN5/6GHz MIMO+ Bluetooth Aux_TX1	Yes
	10.	WWAN Ant 5 + WLAN5/6GHz Main_TX2 + WLAN5/6GHz Aux_TX1 + Bluetooth Aux_TX1	Yes
	11.	WWAN Ant 5 + WLAN2.4GHz Main_TX2 + WLAN5/6GHz Aux_TX1	Yes
	12.	WWAN Ant 5 + WLAN2.4GHz Aux_TX1 + WLAN5/6GHz Main_TX2	Yes

General Note:

- The MediaTek MT7922A22M WLAN/Bluetooth module is integrated into this host, WLAN/Bluetooth power and WLAN SAR testing data, which can be referred to Sporton SAR Test Report, Report No.: FA660806-03(FCC ID: B94-MT7922A22MM) and the result is used to do simultaneous transmission analysis.
- The MediaTek MT7925B22M WLAN/Bluetooth module is integrated into this host, WLAN/Bluetooth power and WLAN SAR testing data, which can be referred to Sporton SAR Test Report, Report No.: FA660806-04(FCC ID: B94-MT7925B22MR) and the result is used to do simultaneous transmission analysis.
- The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation < 1g 1.6W/kg or 10g 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, 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.
 - If $SPLSR \leq 0.04$ for 1g SAR, ≤ 0.1 for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg or 10g SAR < 4.0W/kg.
 - Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
 - The SPLSR calculated results please refer to section 17.2.

<Qualcomm Smart Transmit Simultaneous Transmission Guidance>

In 5G NR + LTE + WLAN + BT simultaneous transmission, 5G NR and LTE transmission are managed and controlled by Qualcomm® Smart Transmit, while the RF exposure from WLAN and BT radios is managed using legacy approach, i.e., through a fixed power back-off if needed.

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values. Smart Transmit current implementation assumes hotspots from 5G NR and LTE are collocated. Therefore, for a total of 100% exposure margin, if LTE uses x%, then the exposure margin left for 5G NR is capped to (100-x)%. Thus, the compliance equation for LTE + 5G NR + WIFI/BT is

$$x\% * A + (100-x)\% * B + C \leq 1.0$$

**17.1 Body Exposure Conditions****<WWAN+ MT7922A22M>**

Exposure Position	1	3	4	5	6	7	8	1+3+4	1+5+8	1+6+8	1+5+6+8	1+7+8	1+3+4 Case No.	SPLSR	1+5+8 Case No.	SPLSR	1+6+8 Case No.	SPLSR	1+7+8 Case No.	SPLSR
	WWAN Ant 5	WLAN 2.4GHz Main_TX2	WLAN 2.4GHz Aux_TX1	WLAN 5/6GHz Main_TX2	WLAN 5/6GHz Aux_TX1	WLAN 5/6GHz MIMO	Bluetooth Aux_TX1	Summed	Summed	Summed	Summed	Summed								
	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)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)								
Bottom Side at 0mm	0.001	0.001	0.001	0.001	0.001		0.002	0.003			0.005									
Back at 0mm	0.292	0.065	0.069	0.262	0.204		0.020	0.426			0.778									
Left at 0mm	0.082	0.001	0.001	0.001	0.001		0.002	0.084			0.086									
Right at 0mm	0.001	0.098	0.105	0.039	0.209		0.029	0.204			0.278									
Top at 0mm	1.190	0.659	0.519	0.796	0.731	0.683	0.147	2.368	2.133	2.068		2.020	Case 2	0.020	Case 6	0.020	Case 7	0.010	Case3	0.020
Bottom at 0mm	0.001	0.001	0.001	0.207	0.001		0.002	0.003			0.211									

<WWAN+ MT7925B22M>

Exposure Position	1	3	4	5	6	7	8	1+3+4	1+5+8	1+6+8	1+5+6+8	1+7+8	1+3+6	1+4+5	1+3+4 Case No.	SPLSR	1+5+8 Case No.	SPLSR	1+6+8 Case No.	SPLSR	1+7+8 Case No.	SPLSR	1+3+6 Case No.	SPLSR	1+4+5 Case No.	SPLSR
	WWAN Ant 5	WLAN 2.4GHz Main TX2	WLAN 2.4GHz Aux TX1	WLAN 5/6GHz Main TX2	WLAN 5/6GHz Aux TX1	WLAN 5/6GHz MIMO	Bluetooth Aux TX1	Summed	Summed	Summed	Summed	Summed	Summed													
	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)	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)												
Bottom Side at 0mm	0.001	0.001	0.001	0.002	0.002		0.002	0.003			0.007		0.004	0.004												
Back at 0mm	0.292	0.085	0.140	0.166	0.235		0.037	0.517			0.730		0.612	0.598												
Left at 0mm	0.082	0.001	0.001	0.001	0.001		0.002	0.084			0.086		0.084	0.084												
Right at 0mm	0.001	0.033	0.131	0.114	0.198		0.034	0.165			0.347		0.232	0.246												
Top at 0mm	1.190	0.762	0.724	0.787	0.771	0.626	0.190	2.676	2.167	2.151		2.006	2.723	2.701	Case 9	0.030	Case 13	0.020	Case 14	0.020	Case 10	0.020	Case 11	0.030	Case12	0.03
Bottom at 0mm	0.001	0.001	0.001	0.001	0.001		0.002	0.003			0.005		0.003	0.003												

17.2 SPLSR Evaluation and Analysis

General Note:

1. $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary

Case 2	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 41_Ant5	Top	1.19	0	7.5	-108.5	-177	169.5	2.37	0.02	Not required
	WLAN2.4G_Main+WLAN2.4G_Aux		1.178	0	3.5	61	-177				
Case 3	Band	Position	SAR (W/kg)	Gap	SAR peak location (cm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 41_Ant5	Top	1.19	0	7.5	-108.5	-177	159.4	2.02	0.02	Not required
	WLAN5/6G_MIMO+BT_Aux		0.83	0	4.6	50.9	-177				
Case 6	Band	Position	SAR (W/kg)	Gap	SAR peak location (cm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 41_Ant5	Top	1.19	0	7.5	-108.5	-177	163.2	2.13	0.02	Not required
	WLAN5/6G_Main+BT_Aux		0.943	0	4.3	54.7	-177				
Case 7	Band	Position	SAR (W/kg)	Gap	SAR peak location (cm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 41_Ant5	Top	1.19	0	7.5	-108.5	-177	218.4	2.07	0.01	Not required
	WLAN5/6G_Aux+BT_Aux		0.878	0	4.6	109.9	-177				

Case 9	Band	Position	SAR (W/kg)	Gap	SAR peak location (cm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 41_Ant5	Top	1.19	0	7.5	-108.5	-177	167.5	2.68	0.03	Not required
	WLAN2.4G_Main+WLAN2.4G_Aux		1.486	0	10.5	59	-177				
Case 10	Band	Position	SAR (W/kg)	Gap	SAR peak location (cm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 41_Ant5	Top	1.19	0	7.5	-108.5	-177	164.2	2.01	0.02	Not required
	WLAN5/6G_MIMO+BT_Aux		0.816	0	9.3	55.7	-177				
Case 11	Band	Position	SAR (W/kg)	Gap	SAR peak location (cm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 41_Ant5	Top	1.19	0	7.5	-108.5	-177	167.5	2.72	0.03	Not required
	WLAN2.4G_Main+WLAN5/6G_Aux		1.533	0	10.5	59	-177				
Case 12	Band	Position	SAR (W/kg)	Gap	SAR peak location (cm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 41_Ant5	Top	1.19	0	7.5	-108.5	-177	161.9	2.70	0.03	Not required
	WLAN2.4G_Aux+WLAN5/6G_Main		1.511	0	10.3	53.4	-177				
Case 13	Band	Position	SAR (W/kg)	Gap	SAR peak location (cm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 41_Ant5	Top	1.19	0	7.5	-108.5	-177	161.9	2.19	0.02	Not required
	WLAN5/6G_Main+BT_Aux		0.997	0	10.3	53.4	-177				
Case 14	Band	Position	SAR (W/kg)	Gap	SAR peak location (cm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 41_Ant5	Top	1.19	0	7.5	-108.5	-177	208.7	2.15	0.02	Not required
	WLAN5/6G_Aux+BT_Aux		0.961	0	9.8	100.2	-177				

Test Engineer : Teddy Chang and Chris Yang

18. Uncertainty Assessment

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	1/k ^(b)	1/√3	1/√6	1/√2

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) κ is the coverage factor

Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Applicable for SAR Measurements:

Uncertainty Budget (4 MHz - 10 GHz range)							
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	18.60	N	2	1	1	9.3	9.3
Axial Isotropy	4.70	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.60	R	1.732	0.7	0.7	3.9	3.9
Linearity	4.70	R	1.732	1	1	2.7	2.7
Modulation Response	4.68	R	1.732	1	1	2.7	2.7
System Detection Limits	1.00	R	1.732	1	1	0.6	0.6
Boundary Effects	2.00	R	1.732	1	1	1.2	1.2
Readout Electronics	0.30	N	1	1	1	0.3	0.3
Response Time	0.00	R	1.732	1	1	0.0	0.0
Integration Time	2.60	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.00	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.00	R	1.732	1	1	1.7	1.7
Probe Positioner	0.40	R	1.732	1	1	0.2	0.2
Probe Positioning	6.70	R	1.732	1	1	3.9	3.9
Post-processing	4.00	R	1.732	1	1	2.3	2.3
Test Sample Related							
Device Holder	3.60	N	1	1	1	3.6	3.6
Test sample Positioning	3.03	N	1	1	1	3.0	3.0
Power Scaling	0.00	R	1.732	1	1	0.0	0.0
Power Drift	5.00	R	1.732	1	1	2.9	2.9
Phantom and Setup							
Phantom Uncertainty	7.60	R	1.732	1	1	4.4	4.4
SAR correction	0.00	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.03	N	1	0.78	0.77	0.0	0.0
Liquid Conductivity (target)	5.00	R	1.732	0.78	0.77	2.3	2.2
Liquid Conductivity (mea.)	2.50	R	1.732	0.78	0.77	1.1	1.1
Temp. unc. - Conductivity	3.68	R	1.732	0.78	0.77	1.7	1.6
Liquid Permittivity Repeatability	0.02	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.00	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.50	R	1.732	0.23	0.26	0.3	0.4
Temp. unc. - Permittivity	0.84	R	1.732	0.23	0.26	0.1	0.1
Combined Std. Uncertainty						14.5%	14.2%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						29.0%	28.4%

19. 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
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- [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 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [7] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [8] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [9] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.