

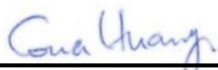
FCC SAR TEST REPORT

FCC ID : PU5-LN300WG5
Equipment : Notebook Computer
Brand Name : Lenovo
Model Name : Lenovo 300w 2-in-1 Gen 5
Applicant : Wistron Corporation
21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist,
New Taipei City 221, Taiwan
Manufacturer : Lenovo PC HK Limited
23/F, Lincoln House, Taikoo Place, 979 King's Road,
Quarry Bay, Hong Kong, P.R. China
Standard : FCC 47 CFR Part 2 (2.1093)

Equipment: Quectel EM060K-GL and Intel AX211NGW tested inside of Lenovo Notebook Computer

The product was received on Dec. 05, 2024 and testing was started from Mar. 19, 2025 and completed on Mar. 23, 2025. 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
FA4N2906	01	Initial issue of report	Apr. 15, 2025

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for Wistron Corporation, Notebook Computer, Lenovo 300w 2-in-1 Gen 5, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary	Highest Simultaneous Transmission 1g SAR (W/kg)
		Body	
		1g SAR (W/kg)	
Licensed	WCDMA II	1.20	1.20
	WCDMA IV	1.10	
	WCDMA V	1.20	
	LTE Band 7	1.00	
	LTE Band 12/17	1.17	
	LTE Band 13	1.03	
	LTE Band 14	1.09	
	LTE Band 2/25	1.13	
	LTE Band 5/26	1.18	
	LTE Band 30	1.12	
	LTE Band 38/41	1.16	
	LTE Band 42	1.00	
	LTE Band 43	1.14	
	LTE Band 48	1.11	
	LTE Band 4/66	1.19	
	LTE Band 71	1.16	
Date of Testing:		2025/03/19 ~ 2025/03/23	

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 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05



3. Equipment Under Test (EUT) Information

3.1 General Information

Product Feature & Specification	
Equipment Name	Notebook Computer
Brand Name	Lenovo
Model Name	Lenovo 300w 2-in-1 Gen 5
FCC ID	PU5-LN300WG5
Integrated WWAN Module	Brand Name: Quectel Model Name: EM060K-GL
Integrated WLAN Module	Brand Name: Intel Model Name: AX211NGW
Wireless Technology and Frequency Range	WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz 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: 3450 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 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, 6425MHz~ 6525MHz, 6525 MHz~6875 MHz, 6875MHz~7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz
Mode	RMC 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+ (16QAM uplink) LTE: QPSK, 16QAM, 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
EUT Stage	Production Unit
Remark: 1. This device is convertible type notebook PC, and there are two mode as usage way, one is laptop mode, another is tablet mode. 2. This device has two antenna vendors, RF exposure evaluation selects AWAN as the main test, High-tek will spot check worst case found in AWAN. 3. The Intel AX211NGW WLAN/BT module, FCC ID: PD9AX211NG is integrated into this host	



WWAN Antenna Information				
Antenna 1	Manufacturer	High-tek		Peak gain (dbi)
	Part number	Main Antenna:	025.902J7.0001	Type
		Auxiliary Antenna:	025.902J8.0001 (RX Only)	
Antenna 2	Manufacturer	AWAN		Peak gain (dbi)
	Part number	Main Antenna:	025.902J5.0001	Type
		Auxiliary Antenna:	025.902J6.0001 (RX Only)	

Antenna Information				
WWAN SKU	Manufacturer	AWAN		
	Antenna Type	PIFA Antenna		PIFA Antenna
	Part number	025.90272.0011 (AYP6Y-100371)		025.90273.0011 (AYP6Y-100372)
	Peak gain (dBi)	Main Antenna :		Aux Antenna :
		WLAN(2.4G):	0.73 dBi	BT/WLAN(2.4G):
		WLAN(5G B1):	1.97 dBi	WLAN(5G B1):
		WLAN(5G B2):	2.65 dBi	WLAN(5G B2):
		WLAN(5G B3):	2.39 dBi	WLAN(5G B3):
		WLAN(5G B4):	2.59 dBi	WLAN(5G B4):
		UNII-5	2.55 dBi	UNII-5
		UNII-6	1.98 dBi	UNII-6
		UNII-7	1.98 dBi	UNII-7
		UNII-8	2.07 dBi	UNII-8
WWAN SKU	Manufacturer	High-Tek Electronics Co., Ltd		
	Antenna Type	PIFA Antenna		PIFA Antenna
	Part number	025.90272.0001 (0ACAR022015N)		025.90273.0001 (0ACAR022016N)
	Peak gain (dBi)	Main Antenna :		Aux Antenna :
		WLAN(2.4G):	-1.12 dBi	BT/WLAN(2.4G):
		WLAN(5G B1):	-0.08 dBi	WLAN(5G B1):
		WLAN(5G B2):	0.51 dBi	WLAN(5G B2):
		WLAN(5G B3):	1.69 dBi	WLAN(5G B3):
		WLAN(5G B4):	1.55 dBi	WLAN(5G B4):
		UNII-5	2.35 dBi	UNII-5
		UNII-6	1.23 dBi	UNII-6
		UNII-7	1.64 dBi	UNII-7
		UNII-8	1.91 dBi	UNII-8

3.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05								
FCC ID	PU5-LN300WG5							
Equipment Name	Notebook Computer							
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 MH							
	LTE Band 30: 2305 MHz ~ 2315 MHz							
	LTE Band 38: 2570 MHz ~ 2620 MHz							
	LTE Band 41: 2496 MHz ~ 2690 MHz							
	LTE Band 42: 3450 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								
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							
uplink modulations used	QPSK / 16QAM							
LTE Voice / Data requirements	Data only							
LTE MPR permanently built-in by design	Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3							
	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
	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.							

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

LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5	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	26965	841.5
LTE Band 30												
	Bandwidth 5 MHz					Bandwidth 10 MHz						
	Channel #		Freq.(MHz)			Channel #			Freq.(MHz)			
L	27685		2307.5			27710			2310			
M	27710		2310									
H	27735		2312.5									
LTE Band 38												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580	37850	2580	37850	2580
M	38000	2595	38000	2595	38000	2595	38000	2595	38000	2595	38000	2595
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610	38150	2610	38150	2610
LTE Band 41												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506	39750	2506	39750	2506
L	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5	40185	2549.5	40185	2549.5
M	40620	2593	40620	2593	40620	2593	40620	2593	40620	2593	40620	2593
H	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5	41055	2636.5	41055	2636.5
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680	41490	2680	41490	2680
LTE Band 42 Part 96												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	43315	3552.5	43140	3555	43165	3557.5	43190	3560	43190	3560	43190	3560
M	43340	3575	43340	3575	43340	3575	43340	3575	43340	3575	43340	3575
H	43565	3597.5	43540	3595	43515	3592.5	43490	3590	43490	3590	43490	3590
LTE Band 42 Part 27Q												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	42115	3452.5	42140	3455	42165	3457.5	42190	3460	42190	3460	42190	3460
M	42590	3500	42590	3500	42590	3500	42590	3500	42590	3500	42590	3500
H	43065	3547.5	43040	3545	43015	3542.5	42990	3540	42990	3540	42990	3540

LTE Band 43 Part 96												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	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 43 Part 270												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	44615	3702.5	44640	3705	44665	3707.5	44690	3710				
M	45090	3750	45090	3750	45090	3750	45090	3750				
H	45565	3797.5	45540	3795	45515	3792.5	45490	3790				
LTE Band 48												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560				
LMH	55810	3607	55815	3607.5	55820	3608	55830	3609				
	56170	3643	56165	3642.5	56160	3642	56150	3641				
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690				
LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 71												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	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				

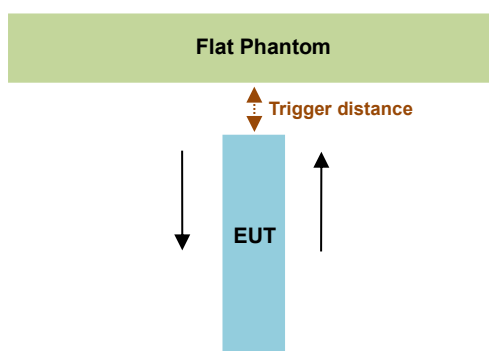
4. Proximity Sensor Triggering Test

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

For the device is fully integrated, touch sensing capacitive sensor. It uses a charge transfer capacitive acquisition method that is capable of near range proximity detection. In this device offers a state of the art capacitive sensing engine with an embedded sampling capacitor and voltage regulator allowing the overall solution cost to be reduced and improving system immunity in noisy environments.

Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed. The details are illustrated as following, and the shortest triggering distances were reported and used for SAR assessment.

In the preliminary triggering distance testing, the tissue-equivalent medium for different frequency bands were used for verification; no other frequency bands tissue-equivalent medium was found to result in shortest triggering distance than that for 1900MHz, and the tissue-equivalent medium for 1900MHz was used for formal proximity sensor triggering testing.



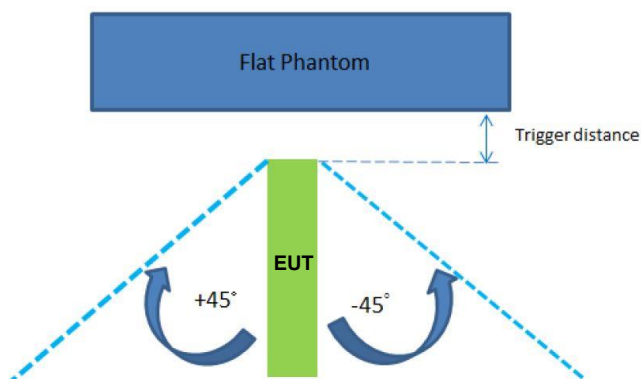
	Laptop Mode		Tablet Mode			
	Proximity Sensor Trigger Distance (mm)		Proximity Sensor Trigger Distance (mm)			
Position	Bottom Side		Back		Top Edge	
	moving toward	moving away	moving toward	moving away	moving toward	moving away
Minimum	31	29	32	29	30	27

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

Since the antenna and sensor are collocated and all of the peak SAR location is overlapping with the sensor pad for this device, therefore, According to KDB 616217 section 6.3, these procedures do not apply and are not required for this device. due to the antenna and sensor are collocated and the peak SAR location is overlapping with the sensor on this device.

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

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



The Sensor Trigger Distance (mm)		
Position	Top Edge	
	+40	-40
Minimum	27	27

Proximity sensor power reduction

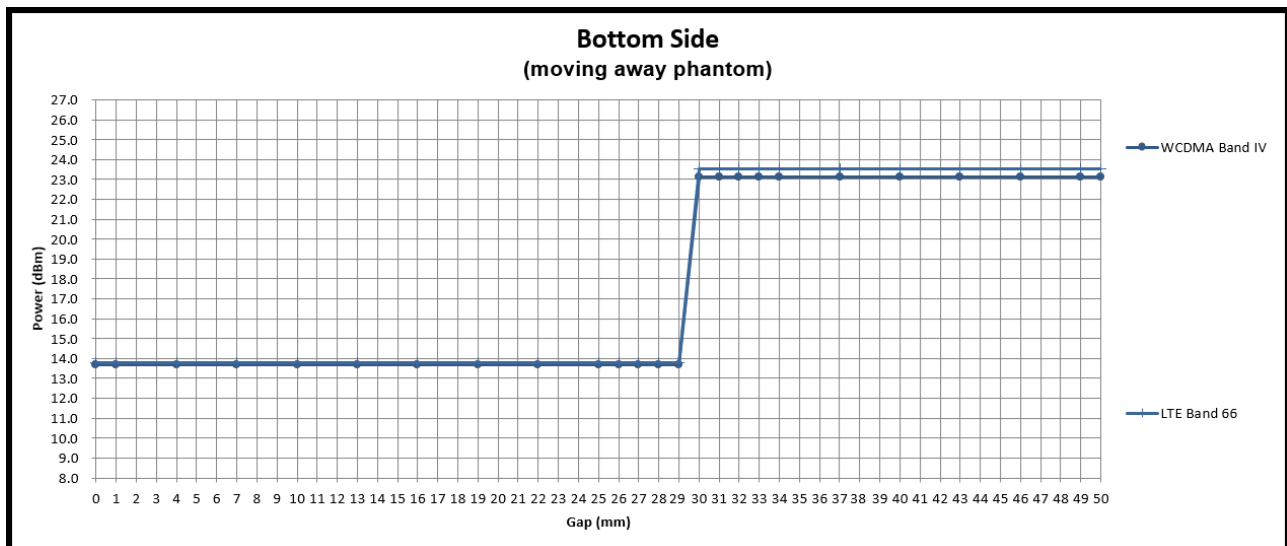
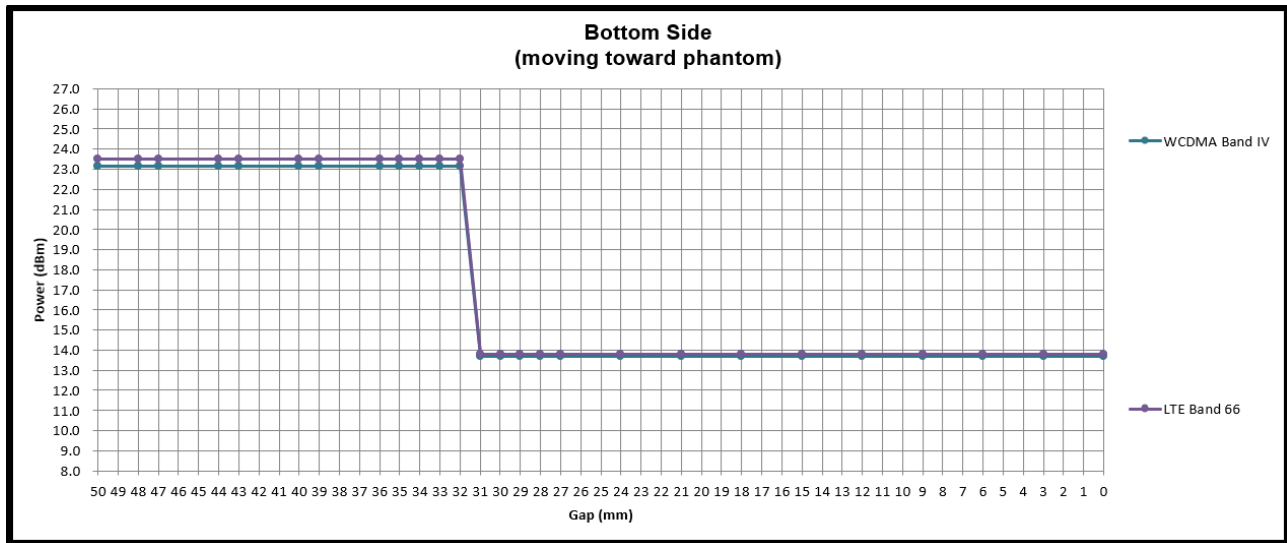
Exposure Position / wireless mode	Bottom Side/ Back/ Top Edge ⁽¹⁾
WCDMA II	9 dB
WCDMA IV	11 dB
WCDMA V	3.5 dB
LTE Band 7	8 dB
LTE Band 12/17	2 dB
LTE Band 13	2.5 dB
LTE Band 14	2.5 dB
LTE Band 2/25	9 dB
LTE Band 5/26	3 dB
LTE Band 30	6 dB
LTE Band 38/41	4.5 dB
LTE Band 42	3.5 dB
LTE Band 43	3.5 dB
LTE Band 48	3.5 dB
LTE Band 4/66	10 dB
LTE Band 71	1.5 dB

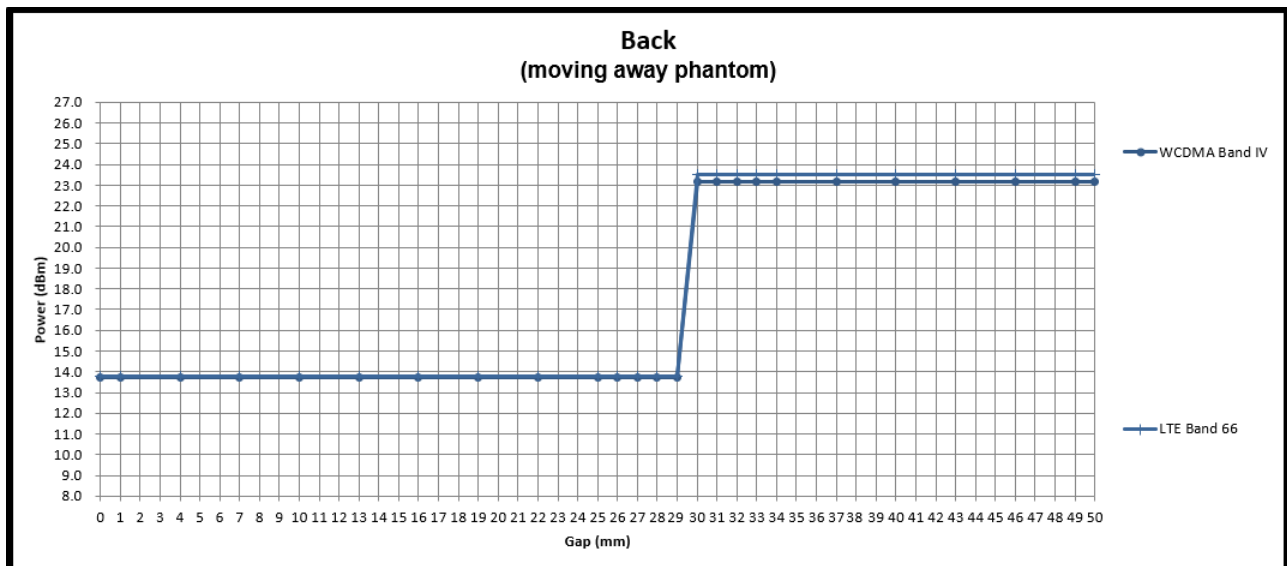
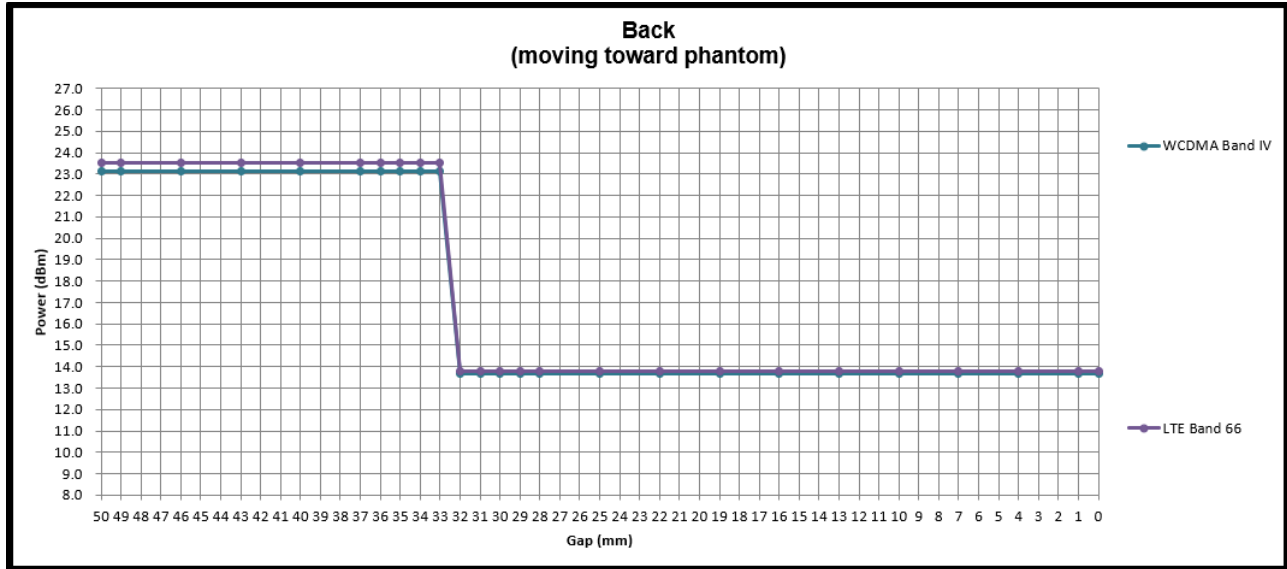
Remark:

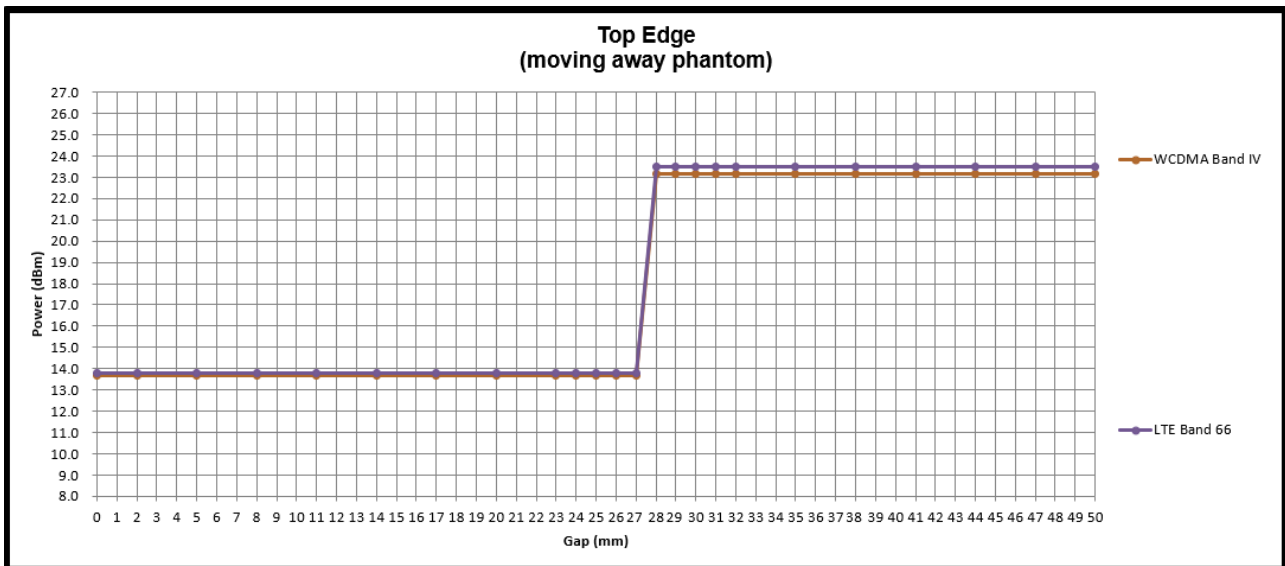
- ⁽¹⁾: Reduced maximum limit applied by activation of proximity sensor.
- Tests were performed in accordance with IEC _IEEE_ 62209-1528-2020 section 7.7 and compliant results are shown below.
- For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance was performed:

Main:

- Bottom Side: [28 mm](#)
- Back: [28 mm](#)
- Top Edge: [26 mm](#)

Power Measurement during Sensor Trigger distance testing






5. RF Exposure Limits

5.1 Uncontrolled Environment

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

5.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

5.3 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

6. Specific Absorption Rate (SAR)

6.1 Introduction

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

6.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

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

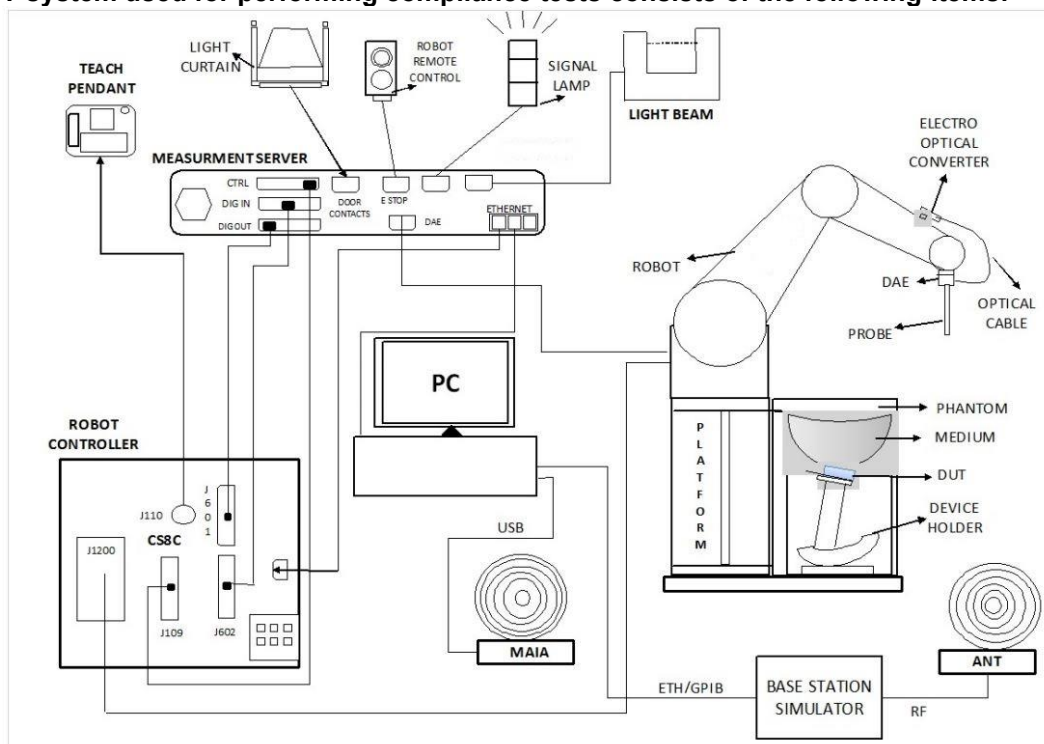
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

7. 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.

7.1 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 No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333			TW3786 No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010				
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		

7.2 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	

7.3 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

7.4 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.

7.5 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

8. Measurement Procedures

The measurement procedures are as follows:

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

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

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

8.1 Spatial Peak SAR Evaluation

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

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

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

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values 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

8.2 Power Reference Measurement

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

8.3 Area Scan

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

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ 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.	

8.4 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.				

8.5 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.

8.6 Power Drift Monitoring

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

9. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit ⁽²⁾	D750V3	1107	Jun. 22, 2022	Jun. 19, 2025
SPEAG	835MHz System Validation Kit ⁽²⁾	D835V2	4d167	Nov. 24, 2022	Nov. 21, 2025
SPEAG	1750MHz System Validation Kit ⁽²⁾	D1750V2	1068	Nov. 21, 2022	Nov. 18, 2025
SPEAG	1900MHz System Validation Kit ⁽²⁾	D1900V2	5d185	Jun. 17, 2022	Jun. 14, 2025
SPEAG	2300MHz System Validation Kit	D2300V2	1088	Jul. 10, 2024	Jul. 09, 2025
SPEAG	2600MHz System Validation Kit	D2600V2	1008	Aug. 15, 2024	Aug. 14, 2025
SPEAG	3500MHz System Validation Kit	D3500V2	1014	Jan. 15, 2025	Jan. 14, 2026
SPEAG	3700MHz System Validation Kit ⁽²⁾	D3700V2	1006	Jun. 20, 2022	Jun. 17, 2025
SPEAG	Data Acquisition Electronics	DAE4	656	Jan. 16, 2025	Jan. 15, 2026
SPEAG	Data Acquisition Electronics	DAE4	1647	Oct. 15, 2024	Oct. 14, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7700	Jan. 22, 2025	Jan. 21, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7814	Jun. 20, 2024	Jun. 19, 2025
Testo	Hygro meter	608-H1	45196600	Oct. 28, 2024	Oct. 27, 2025
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Nov. 12, 2024	Nov. 11, 2025
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Sep. 24, 2024	Sep. 23, 2025
Keysight	ENA Network Analyzer	E5071C	MY46104758	Oct. 20, 2024	Oct. 19, 2025
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 17, 2024	Sep. 16, 2025
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3690	Aug. 07, 2024	Aug. 06, 2025
Anritsu	Power Meter	ML2495A	1419002	Aug. 13, 2024	Aug. 12, 2025
Anritsu	Power Sensor	MA2411B	1911176	Aug. 13, 2024	Aug. 12, 2025
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jul. 09, 2024	Jul. 08, 2025
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 23, 2024	Oct. 22, 2025
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 according to KDB 865664 D01. 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.



10. System Verification

10.1 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

<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	22.4	0.888	42.443	0.89	41.90	-0.22	1.30	± 5	2025/3/19
835	22.4	0.922	42.147	0.90	41.50	2.44	1.56	± 5	2025/3/19
1750	22.5	1.376	40.165	1.37	40.10	0.44	0.16	± 5	2025/3/20
1900	22.5	1.391	40.062	1.40	40.00	-0.64	0.15	± 5	2025/3/20
2300	22.5	1.640	40.091	1.67	39.50	-1.80	1.50	± 5	2025/3/22
2600	22.5	1.991	38.996	1.96	39.00	1.58	-0.01	± 5	2025/3/22
3500	22.6	2.922	37.953	2.91	37.90	0.41	0.14	± 5	2025/3/23
3700	22.6	3.106	37.654	3.12	37.70	-0.45	-0.12	± 5	2025/3/23

10.2 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 (%)
SAR-08	2025/3/19	750	50	D750V3-1107	EX3DV4 - SN7814	DAE4 Sn1647	0.433	8.540	8.66	1.41
SAR-08	2025/3/19	835	50	D835V2-4d167	EX3DV4 - SN7814	DAE4 Sn1647	0.518	9.800	10.36	5.71
SAR-08	2025/3/20	1750	50	D1750V2-1068	EX3DV4 - SN7814	DAE4 Sn1647	1.980	36.700	39.6	7.90
SAR-08	2025/3/20	1900	50	D1900V2-5d185	EX3DV4 - SN7814	DAE4 Sn1647	1.900	39.000	38	-2.56
SAR-08	2025/3/22	2300	50	D2300V2-1088	EX3DV4 - SN7814	DAE4 Sn1647	2.220	48.200	44.4	-7.88
SAR-08	2025/3/22	2600	50	D2600V2-1008	EX3DV4 - SN7814	DAE4 Sn1647	2.720	55.700	54.4	-2.33
SAR-12	2025/3/23	3500	50	D3500V2-1014	EX3DV4 - SN7700	DAE4 Sn656	3.160	65.700	63.2	-3.81
SAR-12	2025/3/23	3700	50	D3700V2-1006	EX3DV4 - SN7700	DAE4 Sn656	3.360	65.600	67.2	2.44

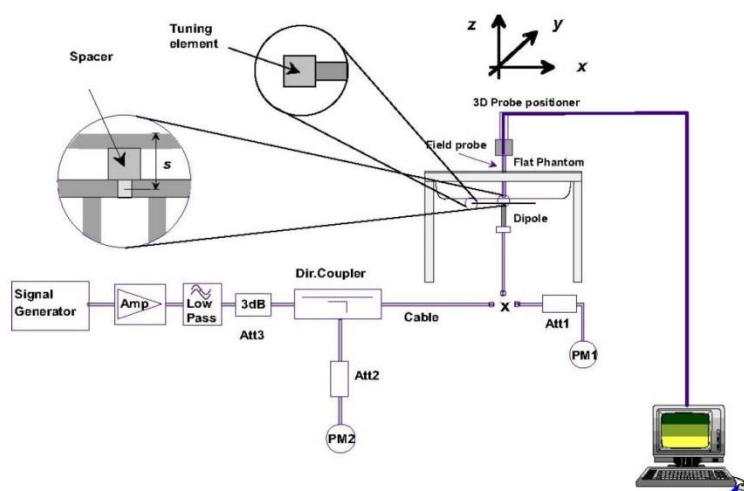


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

11. RF Exposure Positions

11.1 SAR Testing for Tablet

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

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

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. For HSPA+ devices supporting 16 QAM in the uplink, power measurements procedure is according to the configurations in Table C.11.1.4 of 3GPP TS 34.121-1.
4. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

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

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

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

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

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

Setup Configuration

HSUPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{hs} = 5/15 * \beta_c$.

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

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

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

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

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

Setup Configuration

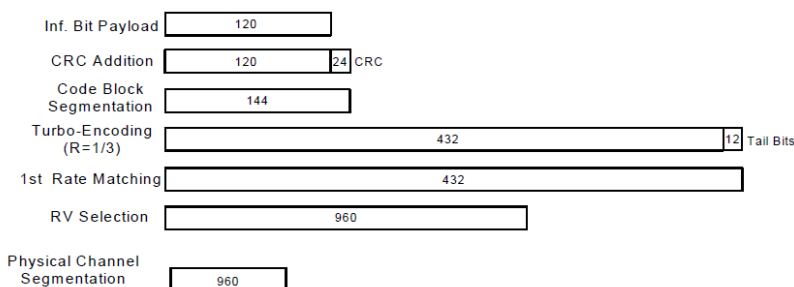
DC-HSDPA 3GPP release 8 Setup Configuration:

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

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

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

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


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

HSPA+ 3GPP release 7 (uplink category 7) 16QAM, Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2E:HSPA+:UL with 16QAM
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.4, quoted from the TS 34.121-1 s5.2E
 - iii. Set Channel Parms
 - iv. Set Cell Power = -86 dBm
 - v. Set Channel Type = HSPA
 - vi. Set UE Target Power =21 dBm
 - vii. Power Ctrl Mode= All Up Bits
 - viii. Set Manual Uplink DPCH Bc/Bd = Manual
 - ix. Set Manual Uplink DPCH Bc and Bd=15,15(for 34.121-1 v8.10.0 table C11.1.4 sub-test 1)
 - x. Set HSPA Conn DL Channel Levels
 - xi. Set HS-SCCH Configs
 - xii. Set RB Test Mode Setup
 - xiii. Set Common HSUPA Parameters
 - xiv. Set Serving Grant
 - xv. Confirm that E-TFCI is equal to the target E-TFCI of 105 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

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

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

Setup Configuration

<WCDMA Conducted Power>
General Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

Band		WCDMA II_Ant Main_Sensor OFF			Tune-up Limit (dBm)	WCDMA IV_Ant Main_Sensor OFF			Tune-up Limit (dBm)	WCDMA V_Ant Main_Sensor OFF			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.08	23.04	23.10	25.00	23.02	23.04	23.15	25.00	23.03	23.09	23.18	25.00
3GPP Rel 6	HSDPA Subtest-1	22.28	22.33	22.34	24.00	22.28	22.26	22.39	24.00	22.25	22.34	22.39	24.00
3GPP Rel 6	HSDPA Subtest-2	22.31	22.32	22.33	24.00	22.17	22.23	22.33	24.00	22.28	22.35	22.40	24.00
3GPP Rel 6	HSDPA Subtest-3	21.75	21.82	21.87	23.50	21.80	21.77	21.86	23.50	21.79	21.75	21.92	23.50
3GPP Rel 6	HSDPA Subtest-4	21.79	21.78	21.88	23.50	21.71	21.77	21.84	23.50	21.76	21.78	21.87	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.15	22.29	22.33	24.00	22.12	22.21	22.26	24.00	22.09	22.20	22.31	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.30	22.21	22.25	24.00	22.05	22.11	22.24	24.00	22.18	22.31	22.27	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.60	21.67	21.74	23.50	21.78	21.57	21.73	23.50	21.72	21.67	21.72	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.61	21.64	21.77	23.50	21.52	21.61	21.80	23.50	21.71	21.67	21.67	23.50
3GPP Rel 6	HSUPA Subtest-1	22.16	22.32	22.33	24.00	22.27	22.24	22.35	24.00	22.19	22.34	22.37	24.00
3GPP Rel 6	HSUPA Subtest-2	20.20	20.35	20.39	22.00	20.21	20.25	20.35	22.00	20.26	20.32	20.46	22.00
3GPP Rel 6	HSUPA Subtest-3	21.23	21.34	21.37	23.00	21.25	21.32	21.33	23.00	21.13	21.25	21.37	23.00
3GPP Rel 6	HSUPA Subtest-4	20.28	20.40	20.42	22.00	20.23	20.33	20.45	22.00	20.22	20.34	20.42	22.00
3GPP Rel 6	HSUPA Subtest-5	22.10	22.20	22.30	24.00	22.20	22.20	22.30	24.00	22.00	22.20	22.40	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.56	19.67	19.78	21.50	19.68	19.68	19.81	21.50	19.52	19.67	19.88	21.50

Band		WCDMA II_Ant Main_Sensor ON			Tune-up Limit (dBm)	WCDMA IV_Ant Main_Sensor ON			Tune-up Limit (dBm)	WCDMA V_Ant Main_Sensor ON			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	15.07	15.08	15.13	16.00	13.65	13.63	13.70	14.00	21.10	21.19	21.36	21.50
3GPP Rel 6	HSDPA Subtest-1	14.06	14.19	14.18	15.00	12.70	12.67	12.83	13.00	20.06	20.15	20.32	20.50
3GPP Rel 6	HSDPA Subtest-2	14.07	14.10	14.12	15.00	12.41	12.63	12.68	13.00	20.13	20.12	20.29	20.50
3GPP Rel 6	HSDPA Subtest-3	13.49	13.60	13.64	14.50	12.18	12.15	12.26	12.50	19.60	19.63	19.82	20.00
3GPP Rel 6	HSDPA Subtest-4	13.48	13.71	13.64	14.50	12.23	12.13	12.24	12.50	19.66	19.58	19.79	20.00
3GPP Rel 8	DC-HSDPA Subtest-1	14.03	14.17	14.16	15.00	12.67	12.65	12.81	13.00	20.03	20.12	20.30	20.50
3GPP Rel 8	DC-HSDPA Subtest-2	14.05	14.08	14.09	15.00	12.39	12.61	12.65	13.00	20.10	20.10	20.26	20.50
3GPP Rel 8	DC-HSDPA Subtest-3	13.46	13.57	13.61	14.50	12.16	12.12	12.23	12.50	19.57	19.61	19.80	20.00
3GPP Rel 8	DC-HSDPA Subtest-4	13.46	13.69	13.62	14.50	12.20	12.11	12.21	12.50	19.63	19.55	19.76	20.00
3GPP Rel 6	HSUPA Subtest-1	13.03	13.08	13.21	15.00	11.71	11.63	11.70	13.00	20.04	20.09	20.25	20.50
3GPP Rel 6	HSUPA Subtest-2	12.00	12.15	12.15	13.00	10.75	10.65	10.76	11.00	17.99	18.15	18.29	18.50
3GPP Rel 6	HSUPA Subtest-3	13.95	13.96	13.99	14.00	11.65	11.55	11.67	12.00	19.11	19.21	19.33	19.50
3GPP Rel 6	HSUPA Subtest-4	11.97	12.10	12.14	13.00	10.72	10.74	10.82	11.00	18.08	18.16	18.30	18.50
3GPP Rel 6	HSUPA Subtest-5	13.90	14.00	13.90	15.00	12.60	12.60	12.50	13.00	19.90	19.90	20.10	20.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	11.42	11.48	11.44	12.50	10.16	10.20	10.10	10.50	17.35	17.40	17.58	18.00

<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



<LTE Band 2_Ant Main_Sensor OFF>

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	23.13	23.27	23.26	24.5
20	QPSK	1	49	23.09	23.18	23.20	
20	QPSK	1	99	23.05	23.14	23.25	
20	QPSK	50	0	22.22	22.26	22.24	23.5
20	QPSK	50	24	22.21	22.25	22.23	
20	QPSK	50	50	22.19	22.22	22.23	
20	QPSK	100	0	22.20	22.29	22.28	23.5
20	16QAM	1	0	22.50	22.52	22.42	
20	16QAM	1	49	22.40	22.47	22.53	
20	16QAM	1	99	22.35	22.47	22.58	22.5
20	16QAM	50	0	21.24	21.25	21.28	
20	16QAM	50	24	21.26	21.27	21.35	
20	16QAM	50	50	21.19	21.26	21.39	22.5
20	16QAM	100	0	21.19	21.28	21.31	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.09	23.06	22.97	24.5
15	QPSK	1	37	22.91	22.98	23.08	
15	QPSK	1	74	22.93	23.09	23.14	
15	QPSK	36	0	22.18	22.15	22.13	23.5
15	QPSK	36	20	22.04	22.17	22.10	
15	QPSK	36	39	22.03	22.13	22.23	
15	QPSK	75	0	22.18	22.12	22.20	23.5
15	16QAM	1	0	22.31	22.49	22.34	
15	16QAM	1	37	22.21	22.35	22.35	
15	16QAM	1	74	22.20	22.47	22.58	22.5
15	16QAM	36	0	21.07	21.09	21.22	
15	16QAM	36	20	21.26	21.09	21.20	
15	16QAM	36	39	21.17	21.20	21.39	22.5
15	16QAM	75	0	21.15	21.28	21.24	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.07	23.18	23.16	24.5
10	QPSK	1	25	22.91	23.13	23.09	
10	QPSK	1	49	23.04	23.12	23.17	
10	QPSK	25	0	22.05	22.11	22.08	23.5
10	QPSK	25	12	22.21	22.14	22.27	
10	QPSK	25	25	22.03	22.17	22.24	
10	QPSK	50	0	22.02	22.10	22.19	23.5
10	16QAM	1	0	22.33	22.40	22.31	
10	16QAM	1	25	22.21	22.28	22.45	
10	16QAM	1	49	22.31	22.37	22.54	22.5
10	16QAM	25	0	21.11	21.07	21.10	
10	16QAM	25	12	21.21	21.27	21.26	
10	16QAM	25	25	21.13	21.21	21.36	22.5
10	16QAM	50	0	21.15	21.09	21.23	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.02	23.13	23.10	24.5
5	QPSK	1	12	23.05	23.03	23.03	
5	QPSK	1	24	22.97	23.01	23.09	
5	QPSK	12	0	22.01	22.03	22.18	23.5
5	QPSK	12	7	22.21	22.16	22.12	
5	QPSK	12	13	21.99	22.11	22.19	
5	QPSK	25	0	22.08	22.19	22.18	23.5
5	16QAM	1	0	22.40	22.51	22.28	



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5	16QAM	1	12	22.34	22.42	22.46	22.5
5	16QAM	1	24	22.25	22.47	22.41	
5	16QAM	12	0	21.22	21.18	21.16	
5	16QAM	12	7	21.12	21.09	21.25	
5	16QAM	12	13	21.01	21.12	21.39	
5	16QAM	25	0	21.13	21.10	21.13	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.04	23.24	22.97	24.5
3	QPSK	1	8	22.97	23.13	23.16	
3	QPSK	1	14	22.98	23.10	23.10	
3	QPSK	8	0	22.13	22.07	22.06	23.5
3	QPSK	8	4	22.02	22.07	22.27	
3	QPSK	8	7	22.06	22.20	22.25	
3	QPSK	15	0	22.06	22.16	22.12	
3	16QAM	1	0	22.47	22.41	22.29	
3	16QAM	1	8	22.34	22.47	22.38	23.5
3	16QAM	1	14	22.21	22.32	22.38	
3	16QAM	8	0	21.18	21.25	21.08	
3	16QAM	8	4	21.23	21.19	21.30	22.5
3	16QAM	8	7	21.04	21.16	21.29	
3	16QAM	15	0	21.15	21.28	21.19	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.03	23.06	23.18	24.5
1.4	QPSK	1	3	23.12	23.12	23.23	
1.4	QPSK	1	5	23.04	23.02	23.12	
1.4	QPSK	3	0	23.04	23.08	23.21	
1.4	QPSK	3	1	23.12	23.12	23.26	
1.4	QPSK	3	3	23.08	23.09	23.19	
1.4	QPSK	6	0	22.09	22.10	22.26	23.5
1.4	16QAM	1	0	22.31	22.36	22.44	23.5
1.4	16QAM	1	3	22.44	22.34	22.54	
1.4	16QAM	1	5	22.38	22.25	22.44	
1.4	16QAM	3	0	22.12	22.17	22.26	
1.4	16QAM	3	1	22.18	22.17	22.30	
1.4	16QAM	3	3	22.11	22.09	22.25	
1.4	16QAM	6	0	21.18	21.19	21.39	22.5



<LTE Band 2_Ant Main_Sensor ON>

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	14.17	14.10	14.06	
20	QPSK	1	49	14.09	14.01	14.05	15.5
20	QPSK	1	99	13.99	13.94	14.05	
20	QPSK	50	0	13.18	13.11	13.09	
20	QPSK	50	24	13.17	13.10	13.07	14.5
20	QPSK	50	50	13.12	13.03	13.08	
20	QPSK	100	0	13.14	13.07	13.06	
20	16QAM	1	0	13.53	13.44	13.34	14.5
20	16QAM	1	49	13.47	13.37	13.39	
20	16QAM	1	99	13.34	13.26	13.36	
20	16QAM	50	0	12.18	12.12	12.10	13.5
20	16QAM	50	24	12.18	12.13	12.13	
20	16QAM	50	50	12.12	12.06	12.15	
20	16QAM	100	0	12.14	12.08	12.10	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	14.08	13.99	13.94	
15	QPSK	1	37	13.98	13.90	13.96	15.5
15	QPSK	1	74	13.89	13.86	13.96	
15	QPSK	36	0	13.09	13.06	13.02	
15	QPSK	36	20	13.06	13.04	13.04	14.5
15	QPSK	36	39	13.07	12.95	13.08	
15	QPSK	75	0	13.05	13.00	12.98	
15	16QAM	1	0	13.48	13.34	13.29	14.5
15	16QAM	1	37	13.37	13.29	13.31	
15	16QAM	1	74	13.28	13.15	13.26	
15	16QAM	36	0	12.10	12.04	12.05	13.5
15	16QAM	36	20	12.10	12.03	12.03	
15	16QAM	36	39	12.02	12.00	12.10	
15	16QAM	75	0	12.06	12.02	12.05	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	14.12	13.99	13.98	
10	QPSK	1	25	13.99	13.90	13.94	15.5
10	QPSK	1	49	13.93	13.86	13.94	
10	QPSK	25	0	13.10	13.05	13.01	
10	QPSK	25	12	13.11	13.03	13.05	14.5
10	QPSK	25	25	13.01	12.95	13.03	
10	QPSK	50	0	13.08	13.00	12.98	
10	16QAM	1	0	13.42	13.37	13.25	14.5
10	16QAM	1	25	13.39	13.30	13.29	
10	16QAM	1	49	13.24	13.15	13.28	
10	16QAM	25	0	12.13	12.02	12.04	13.5
10	16QAM	25	12	12.13	12.05	12.05	
10	16QAM	25	25	12.04	11.97	12.09	
10	16QAM	50	0	12.08	12.00	11.99	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	14.12	14.04	13.93	
5	QPSK	1	12	14.04	13.96	13.96	15.5
5	QPSK	1	24	13.89	13.84	14.00	
5	QPSK	12	0	13.10	13.00	13.02	
5	QPSK	12	7	13.07	13.03	13.00	14.5
5	QPSK	12	13	13.04	12.95	13.03	
5	QPSK	25	0	13.07	12.97	13.00	
5	16QAM	1	0	13.45	13.36	13.29	14.5



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5	16QAM	1	12	13.37	13.28	13.29	13.5
5	16QAM	1	24	13.25	13.16	13.27	
5	16QAM	12	0	12.10	12.03	11.99	
5	16QAM	12	7	12.13	12.07	12.07	
5	16QAM	12	13	12.05	11.95	12.08	
5	16QAM	25	0	12.03	11.97	12.03	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	14.08	14.00	13.94	15.5
3	QPSK	1	8	14.02	13.91	13.99	
3	QPSK	1	14	13.91	13.86	13.97	
3	QPSK	8	0	13.06	13.03	12.98	14.5
3	QPSK	8	4	13.07	13.02	13.04	
3	QPSK	8	7	13.01	12.97	13.07	
3	QPSK	15	0	13.07	12.96	12.99	
3	16QAM	1	0	13.45	13.39	13.28	14.5
3	16QAM	1	8	13.37	13.28	13.32	
3	16QAM	1	14	13.23	13.15	13.26	
3	16QAM	8	0	12.12	12.07	12.03	13.5
3	16QAM	8	4	12.08	12.07	12.03	
3	16QAM	8	7	12.01	11.99	12.09	
3	16QAM	15	0	12.04	12.01	12.04	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	14.01	13.93	14.06	15.5
1.4	QPSK	1	3	14.10	14.01	14.11	
1.4	QPSK	1	5	14.00	13.91	14.02	
1.4	QPSK	3	0	14.06	13.95	14.08	
1.4	QPSK	3	1	14.11	14.02	14.12	
1.4	QPSK	3	3	14.05	13.97	14.09	
1.4	QPSK	6	0	13.08	12.93	13.08	14.5
1.4	16QAM	1	0	13.35	13.23	13.35	14.5
1.4	16QAM	1	3	13.44	13.30	13.44	
1.4	16QAM	1	5	13.38	13.23	13.34	
1.4	16QAM	3	0	13.12	13.03	13.13	
1.4	16QAM	3	1	13.17	13.07	13.16	
1.4	16QAM	3	3	13.13	13.00	13.09	
1.4	16QAM	6	0	12.15	12.04	12.18	13.5

<LTE Band 4_Ant Main_Sensor OFF>

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	23.50	23.51	23.50	24.5
20	QPSK	1	49	23.44	23.42	23.43	
20	QPSK	1	99	23.39	23.37	23.46	
20	QPSK	50	0	22.58	22.59	22.56	23.5
20	QPSK	50	24	22.51	22.57	22.55	
20	QPSK	50	50	22.50	22.55	22.55	
20	QPSK	100	0	22.48	22.54	22.53	23.5
20	16QAM	1	0	22.66	22.72	22.68	
20	16QAM	1	49	22.79	22.63	22.79	
20	16QAM	1	99	22.65	22.62	22.77	22.5
20	16QAM	50	0	21.57	21.54	21.53	
20	16QAM	50	24	21.53	21.53	21.57	
20	16QAM	50	50	21.47	21.49	21.62	
20	16QAM	100	0	21.46	21.51	21.49	Tune-up limit (dBm)
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.42	23.33	23.24	24.5



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15	QPSK	1	37	23.44	23.35	23.35	23.5
15	QPSK	1	74	23.27	23.30	23.37	
15	QPSK	36	0	22.53	22.39	22.55	
15	QPSK	36	20	22.47	22.48	22.51	
15	QPSK	36	39	22.44	22.46	22.42	
15	QPSK	75	0	22.37	22.41	22.33	23.5
15	16QAM	1	0	22.62	22.58	22.64	
15	16QAM	1	37	22.72	22.53	22.60	
15	16QAM	1	74	22.61	22.60	22.77	22.5
15	16QAM	36	0	21.51	21.43	21.33	
15	16QAM	36	20	21.38	21.33	21.56	
15	16QAM	36	39	21.45	21.44	21.48	
15	16QAM	75	0	21.34	21.37	21.29	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.42	23.33	23.26	24.5
10	QPSK	1	25	23.34	23.30	23.39	
10	QPSK	1	49	23.21	23.37	23.46	
10	QPSK	25	0	22.47	22.45	22.51	23.5
10	QPSK	25	12	22.46	22.52	22.43	
10	QPSK	25	25	22.49	22.46	22.59	
10	QPSK	50	0	22.40	22.52	22.50	
10	16QAM	1	0	22.64	22.64	22.54	23.5
10	16QAM	1	25	22.67	22.52	22.77	
10	16QAM	1	49	22.54	22.58	22.75	
10	16QAM	25	0	21.55	21.49	21.49	22.5
10	16QAM	25	12	21.37	21.40	21.37	
10	16QAM	25	25	21.34	21.38	21.44	
10	16QAM	50	0	21.38	21.46	21.37	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.27	23.32	23.29	24.5
5	QPSK	1	12	23.42	23.27	23.46	
5	QPSK	1	24	23.22	23.25	23.31	
5	QPSK	12	0	22.44	22.41	22.47	23.5
5	QPSK	12	7	22.45	22.51	22.45	
5	QPSK	12	13	22.36	22.38	22.54	
5	QPSK	25	0	22.29	22.41	22.43	
5	16QAM	1	0	22.63	22.60	22.49	23.5
5	16QAM	1	12	22.70	22.52	22.75	
5	16QAM	1	24	22.55	22.49	22.75	
5	16QAM	12	0	21.54	21.52	21.37	22.5
5	16QAM	12	7	21.38	21.37	21.50	
5	16QAM	12	13	21.32	21.38	21.52	
5	16QAM	25	0	21.41	21.44	21.29	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	23.41	23.23	23.32	24.5
3	QPSK	1	8	23.45	23.23	23.34	
3	QPSK	1	14	23.31	23.35	23.36	
3	QPSK	8	0	22.52	22.40	22.50	23.5
3	QPSK	8	4	22.33	22.39	22.49	
3	QPSK	8	7	22.32	22.38	22.56	
3	QPSK	15	0	22.44	22.38	22.49	
3	16QAM	1	0	22.64	22.66	22.55	23.5
3	16QAM	1	8	22.64	22.60	22.63	
3	16QAM	1	14	22.47	22.50	22.72	
3	16QAM	8	0	21.44	21.46	21.41	22.5
3	16QAM	8	4	21.39	21.40	21.46	
3	16QAM	8	7	21.40	21.40	21.45	
3	16QAM	15	0	21.32	21.51	21.37	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	



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1.4	QPSK	1	0	23.31	23.37	23.47	24.5
1.4	QPSK	1	3	23.40	23.44	23.47	
1.4	QPSK	1	5	23.33	23.32	23.42	
1.4	QPSK	3	0	23.39	23.39	23.49	
1.4	QPSK	3	1	23.45	23.43	23.46	
1.4	QPSK	3	3	23.40	23.39	23.50	23.5
1.4	QPSK	6	0	22.41	22.44	22.51	
1.4	16QAM	1	0	22.56	22.56	22.75	
1.4	16QAM	1	3	22.70	22.65	22.89	
1.4	16QAM	1	5	22.60	22.56	22.78	
1.4	16QAM	3	0	22.38	22.41	22.51	23.5
1.4	16QAM	3	1	22.42	22.44	22.56	
1.4	16QAM	3	3	22.39	22.37	22.49	
1.4	16QAM	6	0	21.50	21.49	21.58	
1.4	16QAM	6	0	21.50	21.49	21.58	

<LTE Band 4_Ant Main_Sensor ON>

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	13.46	13.38	13.48	14.5
20	QPSK	1	49	13.45	13.35	13.47	
20	QPSK	1	99	13.25	13.27	13.34	
20	QPSK	50	0	12.44	12.40	12.45	13.5
20	QPSK	50	24	12.38	12.39	12.37	
20	QPSK	50	50	12.34	12.33	12.39	
20	QPSK	100	0	12.34	12.39	12.40	13.5
20	16QAM	1	0	12.77	12.75	12.70	
20	16QAM	1	49	12.86	12.68	12.80	
20	16QAM	1	99	12.69	12.62	12.73	12.5
20	16QAM	50	0	11.51	11.45	11.41	
20	16QAM	50	24	11.43	11.44	11.42	
20	16QAM	50	50	11.40	11.40	11.46	12.5
20	16QAM	100	0	11.37	11.40	11.39	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	13.39	13.27	13.40	14.5
15	QPSK	1	37	13.34	13.24	13.40	
15	QPSK	1	74	13.14	13.20	13.28	
15	QPSK	36	0	12.39	12.29	12.31	13.5
15	QPSK	36	20	12.29	12.29	12.30	
15	QPSK	36	39	12.25	12.24	12.33	
15	QPSK	75	0	12.27	12.29	12.24	13.5
15	16QAM	1	0	12.66	12.69	12.61	
15	16QAM	1	37	12.81	12.59	12.71	
15	16QAM	1	74	12.60	12.51	12.63	12.5
15	16QAM	36	0	11.46	11.36	11.35	
15	16QAM	36	20	11.37	11.36	11.31	
15	16QAM	36	39	11.33	11.30	11.37	12.5
15	16QAM	75	0	11.32	11.29	11.29	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	13.41	13.30	13.42	14.5
10	QPSK	1	25	13.40	13.24	13.38	
10	QPSK	1	49	13.20	13.20	13.28	
10	QPSK	25	0	12.38	12.29	12.27	13.5
10	QPSK	25	12	12.30	12.34	12.26	
10	QPSK	25	25	12.23	12.23	12.33	
10	QPSK	50	0	12.29	12.30	12.28	13.5
10	16QAM	1	0	12.71	12.68	12.61	
10	16QAM	1	25	12.81	12.58	12.72	



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10	16QAM	1	49	12.63	12.52	12.66	12.5
10	16QAM	25	0	11.44	11.35	11.36	
10	16QAM	25	12	11.33	11.36	11.33	
10	16QAM	25	25	11.30	11.32	11.41	
10	16QAM	50	0	11.27	11.34	11.30	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	13.35	13.28	13.37	14.5
5	QPSK	1	12	13.37	13.24	13.41	
5	QPSK	1	24	13.20	13.19	13.23	
5	QPSK	12	0	12.34	12.32	12.30	13.5
5	QPSK	12	7	12.29	12.29	12.30	
5	QPSK	12	13	12.25	12.25	12.33	
5	QPSK	25	0	12.24	12.32	12.25	
5	16QAM	1	0	12.67	12.66	12.59	13.5
5	16QAM	1	12	12.75	12.62	12.75	
5	16QAM	1	24	12.59	12.51	12.64	
5	16QAM	12	0	11.44	11.39	11.30	12.5
5	16QAM	12	7	11.34	11.38	11.37	
5	16QAM	12	13	11.32	11.35	11.40	
5	16QAM	25	0	11.30	11.31	11.30	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	13.40	13.27	13.42	14.5
3	QPSK	1	8	13.40	13.28	13.40	
3	QPSK	1	14	13.18	13.19	13.25	
3	QPSK	8	0	12.36	12.29	12.30	13.5
3	QPSK	8	4	12.31	12.29	12.31	
3	QPSK	8	7	12.23	12.26	12.30	
3	QPSK	15	0	12.23	12.33	12.28	
3	16QAM	1	0	12.70	12.69	12.65	13.5
3	16QAM	1	8	12.80	12.58	12.69	
3	16QAM	1	14	12.58	12.51	12.66	
3	16QAM	8	0	11.46	11.39	11.32	12.5
3	16QAM	8	4	11.35	11.39	11.34	
3	16QAM	8	7	11.35	11.32	11.35	
3	16QAM	15	0	11.27	11.33	11.30	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	13.29	13.25	13.33	14.5
1.4	QPSK	1	3	13.34	13.35	13.41	
1.4	QPSK	1	5	13.26	13.26	13.33	
1.4	QPSK	3	0	13.32	13.31	13.39	
1.4	QPSK	3	1	13.38	13.35	13.43	
1.4	QPSK	3	3	13.32	13.31	13.40	13.5
1.4	QPSK	6	0	12.27	12.28	12.33	
1.4	16QAM	1	0	12.66	12.64	12.72	13.5
1.4	16QAM	1	3	12.69	12.65	12.78	
1.4	16QAM	1	5	12.62	12.58	12.68	
1.4	16QAM	3	0	12.41	12.37	12.47	
1.4	16QAM	3	1	12.44	12.42	12.51	
1.4	16QAM	3	3	12.41	12.37	12.43	
1.4	16QAM	6	0	11.41	11.40	11.48	12.5



<LTE Band 5_Ant Main_Sensor OFF>

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	24.5
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.31	23.32	23.30	
10	QPSK	1	25	23.29	23.25	23.29	23.5
10	QPSK	1	49	23.28	23.23	23.26	
10	QPSK	25	0	22.42	22.45	22.44	
10	QPSK	25	12	22.41	22.38	22.43	23.5
10	QPSK	25	25	22.41	22.37	22.38	
10	QPSK	50	0	22.45	22.46	22.32	
10	16QAM	1	0	22.57	22.56	22.42	23.5
10	16QAM	1	25	22.60	22.53	22.61	
10	16QAM	1	49	22.59	22.47	22.44	
10	16QAM	25	0	21.43	21.43	21.31	22.5
10	16QAM	25	12	21.45	21.42	21.44	
10	16QAM	25	25	21.41	21.36	21.38	
10	16QAM	50	0	21.43	21.37	21.32	24.5
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.16	23.14	23.05	24.5
5	QPSK	1	12	23.26	23.09	23.22	
5	QPSK	1	24	23.27	23.23	23.14	
5	QPSK	12	0	22.25	22.17	22.14	23.5
5	QPSK	12	7	22.44	22.18	22.31	
5	QPSK	12	13	22.25	22.29	22.38	
5	QPSK	25	0	22.25	22.24	22.23	23.5
5	16QAM	1	0	22.52	22.56	22.33	
5	16QAM	1	12	22.44	22.34	22.47	
5	16QAM	1	24	22.41	22.46	22.34	22.5
5	16QAM	12	0	21.28	21.40	21.26	
5	16QAM	12	7	21.43	21.39	21.26	
5	16QAM	12	13	21.26	21.27	21.24	24.5
5	16QAM	25	0	21.39	21.18	21.15	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.25	23.13	23.18	24.5
3	QPSK	1	8	23.22	23.15	23.25	
3	QPSK	1	14	23.19	23.04	23.22	
3	QPSK	8	0	22.29	22.25	22.17	23.5
3	QPSK	8	4	22.48	22.20	22.32	
3	QPSK	8	7	22.30	22.17	22.36	
3	QPSK	15	0	22.44	22.33	22.14	23.5
3	16QAM	1	0	22.48	22.53	22.25	
3	16QAM	1	8	22.57	22.38	22.44	
3	16QAM	1	14	22.58	22.47	22.30	22.5
3	16QAM	8	0	21.42	21.36	21.15	
3	16QAM	8	4	21.43	21.35	21.40	
3	16QAM	8	7	21.29	21.33	21.24	24.5
3	16QAM	15	0	21.37	21.32	21.29	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.26	23.17	23.16	24.5
1.4	QPSK	1	3	23.30	23.26	23.18	
1.4	QPSK	1	5	23.25	23.19	23.09	
1.4	QPSK	3	0	23.31	23.23	23.12	23.5
1.4	QPSK	3	1	23.31	23.29	23.19	
1.4	QPSK	3	3	23.31	23.24	23.18	
1.4	QPSK	6	0	22.38	22.31	22.32	23.5
1.4	16QAM	1	0	22.43	22.41	22.41	23.5



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1.4	16QAM	1	3	22.53	22.52	22.37	
1.4	16QAM	1	5	22.47	22.44	22.28	
1.4	16QAM	3	0	22.29	22.27	22.23	
1.4	16QAM	3	1	22.33	22.27	22.27	
1.4	16QAM	3	3	22.28	22.18	22.19	
1.4	16QAM	6	0	21.40	21.37	21.37	22.5

<LTE Band 5_Ant Main_Sensor ON>

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	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	19.85	19.75	19.68	21.5
10	QPSK	1	25	19.84	19.72	19.67	
10	QPSK	1	49	19.82	19.70	19.65	
10	QPSK	25	0	18.93	18.83	18.87	20.5
10	QPSK	25	12	18.92	18.82	18.86	
10	QPSK	25	25	18.82	18.78	18.81	
10	QPSK	50	0	18.85	18.82	18.78	20.5
10	16QAM	1	0	19.14	19.02	18.98	
10	16QAM	1	25	19.07	19.04	19.10	
10	16QAM	1	49	19.07	18.99	18.99	19.5
10	16QAM	25	0	17.91	17.83	17.73	
10	16QAM	25	12	17.93	17.85	17.90	
10	16QAM	25	25	17.84	17.79	17.83	19.5
10	16QAM	50	0	17.84	17.81	17.74	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	19.80	19.68	19.57	21.5
5	QPSK	1	12	19.79	19.63	19.72	
5	QPSK	1	24	19.75	19.65	19.66	
5	QPSK	12	0	18.84	18.72	18.71	20.5
5	QPSK	12	7	18.82	18.73	18.78	
5	QPSK	12	13	18.77	18.73	18.74	
5	QPSK	25	0	18.80	18.75	18.69	20.5
5	16QAM	1	0	19.04	18.92	18.92	
5	16QAM	1	12	18.99	18.95	19.01	
5	16QAM	1	24	18.97	18.94	18.93	19.5
5	16QAM	12	0	17.81	17.78	17.62	
5	16QAM	12	7	17.86	17.80	17.83	
5	16QAM	12	13	17.79	17.70	17.72	19.5
5	16QAM	25	0	17.77	17.71	17.64	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	19.79	19.67	19.58	21.5
3	QPSK	1	8	19.74	19.66	19.73	
3	QPSK	1	14	19.77	19.63	19.64	
3	QPSK	8	0	18.79	18.73	18.72	20.5
3	QPSK	8	4	18.87	18.72	18.81	
3	QPSK	8	7	18.71	18.71	18.71	
3	QPSK	15	0	18.75	18.72	18.67	20.5
3	16QAM	1	0	19.07	18.92	18.92	
3	16QAM	1	8	18.99	18.99	19.02	
3	16QAM	1	14	19.00	18.90	18.93	19.5
3	16QAM	8	0	17.85	17.76	17.63	
3	16QAM	8	4	17.87	17.80	17.82	
3	16QAM	8	7	17.75	17.70	17.78	19.5
3	16QAM	15	0	17.74	17.75	17.64	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	19.74	19.65	19.73	21.5



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1.4	QPSK	1	3	19.82	19.72	19.77	
1.4	QPSK	1	5	19.75	19.63	19.70	
1.4	QPSK	3	0	19.79	19.71	19.74	
1.4	QPSK	3	1	19.84	19.72	19.80	
1.4	QPSK	3	3	19.77	19.71	19.73	
1.4	QPSK	6	0	18.80	18.74	18.76	20.5
1.4	16QAM	1	0	19.04	18.94	18.95	20.5
1.4	16QAM	1	3	19.12	19.02	19.03	
1.4	16QAM	1	5	19.01	18.94	18.92	
1.4	16QAM	3	0	18.81	18.70	18.74	
1.4	16QAM	3	1	18.84	18.78	18.79	
1.4	16QAM	3	3	18.80	18.71	18.72	19.5
1.4	16QAM	6	0	17.88	17.78	17.81	

<LTE Band 7_Ant Main_Sensor OFF>

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	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.54	22.50	22.45	24
20	QPSK	1	49	22.50	22.48	22.44	
20	QPSK	1	99	22.53	22.49	22.44	
20	QPSK	50	0	21.68	21.67	21.08	23
20	QPSK	50	24	21.67	21.64	21.04	
20	QPSK	50	50	21.64	21.66	21.07	
20	QPSK	100	0	21.61	21.60	21.06	23
20	16QAM	1	0	21.76	21.74	21.19	
20	16QAM	1	49	21.79	21.80	21.30	
20	16QAM	1	99	21.80	21.90	21.30	22
20	16QAM	50	0	20.60	20.56	20.02	
20	16QAM	50	24	20.65	20.64	20.07	
20	16QAM	50	50	20.60	20.67	20.15	20.4
20	16QAM	100	0	20.50	20.60	20.04	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.38	22.36	22.25	24
15	QPSK	1	37	22.40	22.29	22.26	
15	QPSK	1	74	22.40	22.33	22.30	
15	QPSK	36	0	21.55	21.48	21.14	23
15	QPSK	36	20	21.51	21.46	21.12	
15	QPSK	36	39	21.49	21.54	21.16	
15	QPSK	75	0	21.49	21.45	21.13	23
15	16QAM	1	0	21.56	21.62	21.00	
15	16QAM	1	37	21.61	21.70	21.20	
15	16QAM	1	74	21.66	21.71	21.15	22
15	16QAM	36	0	20.47	20.41	20.08	
15	16QAM	36	20	20.49	20.52	20.27	
15	16QAM	36	39	20.41	20.56	20.39	20.11
15	16QAM	75	0	20.38	20.40	20.11	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.38	22.31	22.26	24
10	QPSK	1	25	22.35	22.36	22.25	
10	QPSK	1	49	22.42	22.38	22.29	
10	QPSK	25	0	21.48	21.57	21.10	23
10	QPSK	25	12	21.54	21.44	21.11	
10	QPSK	25	25	21.45	21.56	21.11	
10	QPSK	50	0	21.49	21.43	21.06	23
10	16QAM	1	0	21.64	21.59	21.03	
10	16QAM	1	25	21.67	21.66	21.12	
10	16QAM	1	49	21.70	21.71	21.15	



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10	16QAM	25	0	20.48	20.37	20.12	22
10	16QAM	25	12	20.46	20.45	20.07	
10	16QAM	25	25	20.47	20.51	20.02	
10	16QAM	50	0	20.37	20.44	20.11	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.37	22.30	22.32	24
5	QPSK	1	12	22.36	22.37	22.30	
5	QPSK	1	24	22.40	22.35	22.27	
5	QPSK	12	0	21.49	21.53	21.12	23
5	QPSK	12	7	21.47	21.45	21.09	
5	QPSK	12	13	21.51	21.51	21.07	
5	QPSK	25	0	21.47	21.46	21.11	
5	16QAM	1	0	21.62	21.57	21.19	23
5	16QAM	1	12	21.64	21.67	21.14	
5	16QAM	1	24	21.62	21.77	21.11	
5	16QAM	12	0	20.50	20.36	20.09	22
5	16QAM	12	7	20.46	20.52	20.15	
5	16QAM	12	13	20.45	20.47	20.01	
5	16QAM	25	0	20.40	20.40	20.13	

<LTE Band 7_Ant Main_Sensor ON>

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	15.76	15.72	15.62	16
20	QPSK	1	49	15.75	15.70	15.57	
20	QPSK	1	99	15.74	15.71	15.61	
20	QPSK	50	0	14.93	14.84	14.75	15
20	QPSK	50	24	14.92	14.83	14.71	
20	QPSK	50	50	14.82	14.82	14.74	
20	QPSK	100	0	14.83	14.81	14.69	
20	16QAM	1	0	14.88	14.88	14.72	15
20	16QAM	1	49	14.99	14.97	14.83	
20	16QAM	1	99	14.95	14.98	14.85	
20	16QAM	50	0	13.84	13.76	13.61	14
20	16QAM	50	24	13.88	13.84	13.68	
20	16QAM	50	50	13.80	13.87	13.73	
20	16QAM	100	0	13.74	13.80	13.66	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	15.65	15.61	15.51	16
15	QPSK	1	37	15.64	15.62	15.52	
15	QPSK	1	74	15.67	15.66	15.54	
15	QPSK	36	0	14.76	14.71	14.56	15
15	QPSK	36	20	14.82	14.76	14.65	
15	QPSK	36	39	14.76	14.84	14.65	
15	QPSK	75	0	14.71	14.76	14.63	
15	16QAM	1	0	14.82	14.79	14.61	15
15	16QAM	1	37	14.89	14.91	14.75	
15	16QAM	1	74	14.90	14.91	14.77	
15	16QAM	36	0	13.76	13.70	13.50	14
15	16QAM	36	20	13.78	13.75	13.60	
15	16QAM	36	39	13.73	13.79	13.67	
15	16QAM	75	0	13.69	13.69	13.56	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	15.71	15.67	15.54	16
10	QPSK	1	25	15.64	15.65	15.50	
10	QPSK	1	49	15.65	15.62	15.52	



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10	QPSK	25	0	14.73	14.74	14.54	15
10	QPSK	25	12	14.87	14.75	14.64	
10	QPSK	25	25	14.71	14.81	14.67	
10	QPSK	50	0	14.70	14.77	14.60	
10	16QAM	1	0	14.80	14.79	14.67	15
10	16QAM	1	25	14.94	14.86	14.78	
10	16QAM	1	49	14.90	14.89	14.77	
10	16QAM	25	0	13.73	13.65	13.53	14
10	16QAM	25	12	13.83	13.75	13.60	
10	16QAM	25	25	13.72	13.80	13.68	
10	16QAM	50	0	13.69	13.75	13.61	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	15.66	15.63	15.54	16
5	QPSK	1	12	15.65	15.60	15.49	
5	QPSK	1	24	15.65	15.61	15.56	
5	QPSK	12	0	14.71	14.74	14.58	15
5	QPSK	12	7	14.84	14.76	14.60	
5	QPSK	12	13	14.76	14.80	14.63	
5	QPSK	25	0	14.73	14.76	14.62	
5	16QAM	1	0	14.78	14.81	14.62	15
5	16QAM	1	12	14.93	14.87	14.72	
5	16QAM	1	24	14.90	14.88	14.76	
5	16QAM	12	0	13.76	13.70	13.51	14
5	16QAM	12	7	13.78	13.74	13.61	
5	16QAM	12	13	13.72	13.80	13.64	
5	16QAM	25	0	13.63	13.74	13.61	

<LTE Band 12_Ant Main_Sensor OFF>

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	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.51	23.55	23.49	24.5
10	QPSK	1	25	23.42	23.47	23.43	
10	QPSK	1	49	23.27	23.34	23.46	
10	QPSK	25	0	22.60	22.61	22.58	23.5
10	QPSK	25	12	22.59	22.52	22.57	
10	QPSK	25	25	22.59	22.57	22.56	
10	QPSK	50	0	22.60	22.61	22.59	
10	16QAM	1	0	22.44	22.60	22.62	23.5
10	16QAM	1	25	22.54	22.71	22.71	
10	16QAM	1	49	22.65	22.75	22.81	
10	16QAM	25	0	21.53	21.54	21.50	22.5
10	16QAM	25	12	21.60	21.54	21.55	
10	16QAM	25	25	21.56	21.53	21.54	
10	16QAM	50	0	21.60	21.56	21.55	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.24	23.21	23.39	24.5
5	QPSK	1	12	23.36	23.32	23.26	
5	QPSK	1	24	23.43	23.49	23.35	
5	QPSK	12	0	22.39	22.47	22.48	23.5
5	QPSK	12	7	22.56	22.55	22.41	
5	QPSK	12	13	22.59	22.44	22.37	
5	QPSK	25	0	22.45	22.53	22.46	
5	16QAM	1	0	22.27	22.45	22.42	23.5
5	16QAM	1	12	22.41	22.54	22.64	
5	16QAM	1	24	22.60	22.64	22.62	
5	16QAM	12	0	21.40	21.42	21.33	22.5
5	16QAM	12	7	21.54	21.48	21.52	



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5	16QAM	12	13	21.46	21.40	21.43	
5	16QAM	25	0	21.50	21.46	21.43	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.23	23.31	23.34	24.5
3	QPSK	1	8	23.23	23.42	23.37	
3	QPSK	1	14	23.49	23.36	23.47	
3	QPSK	8	0	22.39	22.51	22.34	23.5
3	QPSK	8	4	22.49	22.48	22.49	
3	QPSK	8	7	22.55	22.44	22.49	
3	QPSK	15	0	22.51	22.50	22.57	
3	16QAM	1	0	22.34	22.47	22.56	23.5
3	16QAM	1	8	22.38	22.60	22.71	
3	16QAM	1	14	22.56	22.57	22.80	
3	16QAM	8	0	21.33	21.37	21.43	22.5
3	16QAM	8	4	21.54	21.36	21.46	
3	16QAM	8	7	21.54	21.44	21.46	
3	16QAM	15	0	21.52	21.53	21.41	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.23	23.38	23.33	24.5
1.4	QPSK	1	3	23.32	23.47	23.41	
1.4	QPSK	1	5	23.24	23.38	23.31	
1.4	QPSK	3	0	23.31	23.47	23.40	
1.4	QPSK	3	1	23.32	23.49	23.45	
1.4	QPSK	3	3	23.30	23.45	23.42	23.5
1.4	QPSK	6	0	22.33	22.52	22.43	
1.4	16QAM	1	0	22.49	22.60	22.56	23.5
1.4	16QAM	1	3	22.57	22.66	22.61	
1.4	16QAM	1	5	22.49	22.61	22.50	
1.4	16QAM	3	0	22.30	22.40	22.36	
1.4	16QAM	3	1	22.37	22.48	22.39	
1.4	16QAM	3	3	22.27	22.43	22.29	22.5
1.4	16QAM	6	0	21.42	21.56	21.51	



<LTE Band 12_Ant Main_Sensor ON>

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	22.5
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	21.19	21.31	21.17	
10	QPSK	1	25	21.01	21.20	21.13	21.5
10	QPSK	1	49	21.12	21.22	21.07	
10	QPSK	25	0	20.34	20.45	20.16	
10	QPSK	25	12	20.33	20.41	20.15	21.5
10	QPSK	25	25	20.24	20.43	20.03	
10	QPSK	50	0	20.16	20.44	19.97	
10	16QAM	1	0	20.06	20.13	20.20	21.5
10	16QAM	1	25	20.13	20.20	20.20	
10	16QAM	1	49	20.26	20.21	20.30	
10	16QAM	25	0	18.95	19.03	18.97	20.5
10	16QAM	25	12	19.10	19.02	18.99	
10	16QAM	25	25	19.07	19.04	19.01	
10	16QAM	50	0	19.04	19.01	19.00	22.5
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	21.12	21.24	21.11	22.5
5	QPSK	1	12	20.91	21.13	21.08	
5	QPSK	1	24	21.03	21.11	21.02	
5	QPSK	12	0	20.16	20.36	19.96	21.5
5	QPSK	12	7	20.24	20.30	20.10	
5	QPSK	12	13	20.13	20.38	19.96	
5	QPSK	25	0	20.05	20.40	19.89	21.5
5	16QAM	1	0	19.97	20.07	20.13	
5	16QAM	1	12	20.03	20.12	20.12	
5	16QAM	1	24	20.21	20.10	20.24	20.5
5	16QAM	12	0	18.88	18.96	18.90	
5	16QAM	12	7	19.01	18.96	18.88	
5	16QAM	12	13	19.01	18.99	18.96	22.5
5	16QAM	25	0	18.93	18.90	18.92	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	21.10	21.25	21.12	22.5
3	QPSK	1	8	20.90	21.15	21.06	
3	QPSK	1	14	21.04	21.12	21.02	
3	QPSK	8	0	20.19	20.36	19.96	21.5
3	QPSK	8	4	20.27	20.30	20.07	
3	QPSK	8	7	20.14	20.36	19.98	
3	QPSK	15	0	20.08	20.40	19.88	21.5
3	16QAM	1	0	19.96	20.04	20.14	
3	16QAM	1	8	20.02	20.11	20.14	
3	16QAM	1	14	20.15	20.15	20.19	20.5
3	16QAM	8	0	18.89	18.97	18.91	
3	16QAM	8	4	19.02	18.91	18.89	
3	16QAM	8	7	18.98	18.97	18.92	22.5
3	16QAM	15	0	18.97	18.90	18.92	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	20.69	20.85	20.79	22.5
1.4	QPSK	1	3	20.78	20.93	20.86	
1.4	QPSK	1	5	20.71	20.83	20.78	
1.4	QPSK	3	0	20.77	20.90	20.87	21.5
1.4	QPSK	3	1	20.81	20.91	20.90	
1.4	QPSK	3	3	20.78	20.89	20.87	
1.4	QPSK	6	0	19.80	19.96	19.88	21.5
1.4	16QAM	1	0	20.00	20.11	20.10	21.5



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1.4	16QAM	1	3	20.07	20.22	20.16	
1.4	16QAM	1	5	19.99	20.12	20.09	
1.4	16QAM	3	0	19.82	19.89	19.89	
1.4	16QAM	3	1	19.83	19.92	19.93	
1.4	16QAM	3	3	19.78	19.91	19.85	
1.4	16QAM	6	0	18.89	19.02	18.97	20.5

<LTE Band 13_Ant Main_Sensor OFF>

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		23.40		24.5
10	QPSK	1	25		23.39		
10	QPSK	1	49		23.34		
10	QPSK	25	0		22.51		23.5
10	QPSK	25	12		22.48		
10	QPSK	25	25		22.48		
10	QPSK	50	0		22.54		
10	16QAM	1	0		22.55		23.5
10	16QAM	1	25		22.66		
10	16QAM	1	49		22.66		
10	16QAM	25	0		21.49		22.5
10	16QAM	25	12		21.53		
10	16QAM	25	25		21.49		
10	16QAM	50	0		21.50		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.34	23.34	23.37	24.5
5	QPSK	1	12	23.27	23.29	23.33	
5	QPSK	1	24	23.14	23.18	23.28	
5	QPSK	12	0	22.34	22.48	22.49	23.5
5	QPSK	12	7	22.38	22.28	22.39	
5	QPSK	12	13	22.42	22.37	22.41	
5	QPSK	25	0	22.53	22.43	22.40	
5	16QAM	1	0	22.35	22.50	22.47	23.5
5	16QAM	1	12	22.62	22.59	22.63	
5	16QAM	1	24	22.64	22.54	22.55	
5	16QAM	12	0	21.40	21.40	21.41	22.5
5	16QAM	12	7	21.53	21.51	21.40	
5	16QAM	12	13	21.39	21.49	21.42	
5	16QAM	25	0	21.38	21.30	21.40	



<LTE Band 13_Ant Main_Sensor ON>

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		21.46		22
10	QPSK	1	25		21.41		
10	QPSK	1	49		21.35		
10	QPSK	25	0		20.50		21
10	QPSK	25	12		20.45		
10	QPSK	25	25		20.41		
10	QPSK	50	0		20.42		
10	16QAM	1	0		20.64		21
10	16QAM	1	25		20.69		
10	16QAM	1	49		20.69		
10	16QAM	25	0		19.46		20
10	16QAM	25	12		19.47		
10	16QAM	25	25		19.45		
10	16QAM	50	0		19.45		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	21.38	21.41	21.39	22
5	QPSK	1	12	21.36	21.34	21.35	
5	QPSK	1	24	21.26	21.27	21.24	
5	QPSK	12	0	20.39	20.44	20.41	21
5	QPSK	12	7	20.37	20.39	20.40	
5	QPSK	12	13	20.32	20.35	20.33	
5	QPSK	25	0	20.34	20.36	20.33	
5	16QAM	1	0	20.56	20.58	20.59	21
5	16QAM	1	12	20.63	20.59	20.60	
5	16QAM	1	24	20.62	20.58	20.60	
5	16QAM	12	0	19.37	19.35	19.36	20
5	16QAM	12	7	19.39	19.41	19.40	
5	16QAM	12	13	19.37	19.39	19.36	
5	16QAM	25	0	19.38	19.38	19.36	



<LTE Band 14_Ant Main_Sensor OFF>

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			
Frequency (MHz)				793			
10	QPSK	1	0		23.43		24.5
10	QPSK	1	25		23.25		
10	QPSK	1	49		23.37		
10	QPSK	25	0		22.57		23.5
10	QPSK	25	12		22.48		
10	QPSK	25	25		22.53		
10	QPSK	50	0		22.57		23.5
10	16QAM	1	0		22.50		
10	16QAM	1	25		22.66		
10	16QAM	1	49		22.57		22.5
10	16QAM	25	0		21.43		
10	16QAM	25	12		21.55		
10	16QAM	25	25		21.49		22.5
10	16QAM	50	0		21.55		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	23.15	23.23	23.21	24.5
5	QPSK	1	12	23.27	23.27	23.25	
5	QPSK	1	24	23.35	23.35	23.33	
5	QPSK	12	0	22.38	22.45	22.29	23.5
5	QPSK	12	7	22.47	22.57	22.47	
5	QPSK	12	13	22.44	22.37	22.41	
5	QPSK	25	0	22.57	22.50	22.44	23.5
5	16QAM	1	0	22.34	22.41	22.40	
5	16QAM	1	12	22.47	22.50	22.53	
5	16QAM	1	24	22.51	22.44	22.50	22.5
5	16QAM	12	0	21.43	21.27	21.27	
5	16QAM	12	7	21.48	21.43	21.39	
5	16QAM	12	13	21.29	21.46	21.40	22.5
5	16QAM	25	0	21.40	21.40	21.45	



<LTE Band 14_Ant Main_Sensor ON>

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			
Frequency (MHz)				793			
10	QPSK	1	0		21.40		22
10	QPSK	1	25		21.39		
10	QPSK	1	49		21.31		
10	QPSK	25	0		20.46		21
10	QPSK	25	12		20.45		
10	QPSK	25	25		20.44		
10	QPSK	50	0		20.43		
10	16QAM	1	0		20.54		21
10	16QAM	1	25		20.74		
10	16QAM	1	49		20.63		
10	16QAM	25	0		19.42		20
10	16QAM	25	12		19.48		
10	16QAM	25	25		19.46		
10	16QAM	50	0		19.45		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	21.34	21.29	21.35	22
5	QPSK	1	12	21.32	21.31	21.29	
5	QPSK	1	24	21.23	21.26	21.21	
5	QPSK	12	0	20.35	20.35	20.32	21
5	QPSK	12	7	20.39	20.41	20.39	
5	QPSK	12	13	20.38	20.37	20.35	
5	QPSK	25	0	20.34	20.40	20.37	
5	16QAM	1	0	20.47	20.43	20.47	21
5	16QAM	1	12	20.68	20.69	20.68	
5	16QAM	1	24	20.55	20.56	20.56	
5	16QAM	12	0	19.37	19.33	19.34	20
5	16QAM	12	7	19.43	19.37	19.43	
5	16QAM	12	13	19.41	19.41	19.38	
5	16QAM	25	0	19.38	19.37	19.34	



<LTE Band 17_Ant Main_Sensor OFF>

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	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.49	23.43	23.50	
10	QPSK	1	25	23.36	23.32	23.40	24.5
10	QPSK	1	49	23.23	23.24	23.36	
10	QPSK	25	0	22.49	22.50	22.51	
10	QPSK	25	12	22.47	22.49	22.49	23.5
10	QPSK	25	25	22.40	22.47	22.47	
10	QPSK	50	0	22.48	22.47	22.49	
10	16QAM	1	0	22.38	22.46	22.58	23.5
10	16QAM	1	25	22.56	22.59	22.57	
10	16QAM	1	49	22.63	22.73	22.84	
10	16QAM	25	0	21.45	21.45	21.46	22.5
10	16QAM	25	12	21.46	21.48	21.51	
10	16QAM	25	25	21.43	21.51	21.49	
10	16QAM	50	0	21.46	21.49	21.47	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.22	23.11	23.18	24.5
5	QPSK	1	12	23.17	23.13	23.30	
5	QPSK	1	24	23.39	23.35	23.45	
5	QPSK	12	0	22.49	22.24	22.46	23.5
5	QPSK	12	7	22.39	22.35	22.36	
5	QPSK	12	13	22.33	22.37	22.45	
5	QPSK	25	0	22.44	22.33	22.34	23.5
5	16QAM	1	0	22.18	22.36	22.57	
5	16QAM	1	12	22.40	22.57	22.39	
5	16QAM	1	24	22.48	22.62	22.70	22.5
5	16QAM	12	0	21.34	21.32	21.46	
5	16QAM	12	7	21.34	21.38	21.33	
5	16QAM	12	13	21.39	21.39	21.47	
5	16QAM	25	0	21.34	21.47	21.35	



<LTE Band 17_Ant Main_Sensor ON>

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	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	20.90	20.67	20.87	
10	QPSK	1	25	20.83	20.64	20.79	22.5
10	QPSK	1	49	20.89	20.66	20.86	
10	QPSK	25	0	19.94	19.92	19.93	
10	QPSK	25	12	19.90	19.91	19.92	21.5
10	QPSK	25	25	19.88	19.88	19.88	
10	QPSK	50	0	19.92	19.91	19.89	
10	16QAM	1	0	20.02	20.00	20.10	21.5
10	16QAM	1	25	20.14	20.08	20.12	
10	16QAM	1	49	20.20	20.21	20.19	
10	16QAM	25	0	18.88	18.89	18.89	20.5
10	16QAM	25	12	18.93	18.92	18.93	
10	16QAM	25	25	18.92	18.89	18.91	
10	16QAM	50	0	18.88	18.89	18.89	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	20.79	20.60	20.72	22.5
5	QPSK	1	12	20.77	20.73	20.72	
5	QPSK	1	24	20.82	20.82	20.76	
5	QPSK	12	0	19.81	19.75	19.78	21.5
5	QPSK	12	7	19.82	19.82	19.82	
5	QPSK	12	13	19.83	19.80	19.83	
5	QPSK	25	0	19.87	19.85	19.83	21.5
5	16QAM	1	0	19.94	19.95	20.02	
5	16QAM	1	12	20.03	20.01	20.01	
5	16QAM	1	24	20.13	20.15	20.14	20.5
5	16QAM	12	0	18.83	18.84	18.78	
5	16QAM	12	7	18.84	18.87	18.83	
5	16QAM	12	13	18.83	18.79	18.80	
5	16QAM	25	0	18.78	18.81	18.78	



<LTE Band 25_Ant Main_Sensor OFF>

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	23.33	23.38	23.48	
20	QPSK	1	49	23.28	23.37	23.36	24.5
20	QPSK	1	99	23.20	23.36	23.45	
20	QPSK	50	0	22.42	22.49	22.60	
20	QPSK	50	24	22.41	22.48	22.52	23.5
20	QPSK	50	50	22.32	22.47	22.58	
20	QPSK	100	0	22.34	22.49	22.54	
20	16QAM	1	0	22.63	22.65	22.69	23.5
20	16QAM	1	49	22.64	22.70	22.71	
20	16QAM	1	99	22.50	22.66	22.73	
20	16QAM	50	0	21.45	21.53	21.55	22.5
20	16QAM	50	24	21.49	21.52	21.60	
20	16QAM	50	50	21.31	21.54	21.59	
20	16QAM	100	0	21.31	21.51	21.56	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	23.10	23.30	23.24	
15	QPSK	1	37	23.26	23.31	23.29	24.5
15	QPSK	1	74	23.17	23.25	23.35	
15	QPSK	36	0	22.38	22.31	22.43	
15	QPSK	36	20	22.40	22.40	22.57	23.5
15	QPSK	36	39	22.22	22.38	22.43	
15	QPSK	75	0	22.27	22.34	22.37	
15	16QAM	1	0	22.45	22.61	22.58	23.5
15	16QAM	1	37	22.63	22.64	22.70	
15	16QAM	1	74	22.35	22.65	22.73	
15	16QAM	36	0	21.37	21.44	21.53	22.5
15	16QAM	36	20	21.34	21.41	21.50	
15	16QAM	36	39	21.12	21.39	21.58	
15	16QAM	75	0	21.21	21.49	21.47	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	23.20	23.32	23.19	
10	QPSK	1	25	23.14	23.32	23.35	24.5
10	QPSK	1	49	23.10	23.33	23.37	
10	QPSK	25	0	22.34	22.33	22.46	
10	QPSK	25	12	22.26	22.48	22.45	23.5
10	QPSK	25	25	22.21	22.31	22.52	
10	QPSK	50	0	22.28	22.45	22.42	
10	16QAM	1	0	22.62	22.61	22.56	23.5
10	16QAM	1	25	22.55	22.52	22.65	
10	16QAM	1	49	22.49	22.65	22.67	
10	16QAM	25	0	21.30	21.34	21.35	22.5
10	16QAM	25	12	21.43	21.40	21.52	
10	16QAM	25	25	21.13	21.34	21.47	
10	16QAM	50	0	21.19	21.34	21.40	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	23.11	23.21	23.23	
5	QPSK	1	12	23.23	23.36	23.34	24.5
5	QPSK	1	24	23.07	23.31	23.30	
5	QPSK	12	0	22.27	22.36	22.41	
5	QPSK	12	7	22.36	22.41	22.54	23.5
5	QPSK	12	13	22.28	22.31	22.40	
5	QPSK	25	0	22.18	22.35	22.34	
5	16QAM	1	0	22.44	22.53	22.62	23.5



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5	16QAM	1	12	22.55	22.55	22.60	22.5
5	16QAM	1	24	22.43	22.58	22.66	
5	16QAM	12	0	21.41	21.47	21.42	
5	16QAM	12	7	21.48	21.35	21.40	
5	16QAM	12	13	21.27	21.46	21.49	
5	16QAM	25	0	21.18	21.44	21.42	
Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	23.08	23.21	23.33	24.5
3	QPSK	1	8	23.13	23.23	23.44	
3	QPSK	1	14	23.09	23.29	23.36	
3	QPSK	8	0	22.42	22.35	22.47	23.5
3	QPSK	8	4	22.25	22.38	22.57	
3	QPSK	8	7	22.14	22.34	22.47	
3	QPSK	15	0	22.30	22.45	22.38	
3	16QAM	1	0	22.60	22.50	22.54	23.5
3	16QAM	1	8	22.64	22.68	22.63	
3	16QAM	1	14	22.41	22.51	22.62	
3	16QAM	8	0	21.25	21.43	21.43	22.5
3	16QAM	8	4	21.31	21.43	21.41	
3	16QAM	8	7	21.24	21.44	21.56	
3	16QAM	15	0	21.28	21.31	21.46	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	23.14	23.27	23.35	24.5
1.4	QPSK	1	3	23.22	23.36	23.38	
1.4	QPSK	1	5	23.16	23.28	23.31	
1.4	QPSK	3	0	23.19	23.31	23.40	
1.4	QPSK	3	1	23.25	23.35	23.47	
1.4	QPSK	3	3	23.19	23.31	23.42	
1.4	QPSK	6	0	22.22	22.33	22.53	23.5
1.4	16QAM	1	0	22.47	22.61	22.59	23.5
1.4	16QAM	1	3	22.56	22.69	22.65	
1.4	16QAM	1	5	22.52	22.61	22.56	
1.4	16QAM	3	0	22.23	22.35	22.42	
1.4	16QAM	3	1	22.33	22.42	22.45	
1.4	16QAM	3	3	22.26	22.37	22.39	
1.4	16QAM	6	0	21.33	21.34	21.36	22.5



<LTE Band 25_Ant Main_Sensor ON>

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	14.53	14.55	14.62	
20	QPSK	1	49	14.40	14.44	14.55	15.5
20	QPSK	1	99	14.40	14.39	14.61	
20	QPSK	50	0	13.60	13.51	13.68	
20	QPSK	50	24	13.54	13.35	13.63	14.5
20	QPSK	50	50	13.51	13.45	13.65	
20	QPSK	100	0	13.39	13.36	13.67	
20	16QAM	1	0	13.51	13.52	13.55	14.5
20	16QAM	1	49	13.52	13.55	13.61	
20	16QAM	1	99	13.30	13.47	13.53	
20	16QAM	50	0	12.29	12.32	12.30	13.5
20	16QAM	50	24	12.28	12.33	12.40	
20	16QAM	50	50	12.15	12.25	12.35	
20	16QAM	100	0	12.14	12.29	12.34	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	14.44	14.49	14.52	
15	QPSK	1	37	14.33	14.36	14.48	15.5
15	QPSK	1	74	14.35	14.33	14.56	
15	QPSK	36	0	13.52	13.46	13.61	
15	QPSK	36	20	13.48	13.25	13.52	14.5
15	QPSK	36	39	13.45	13.37	13.58	
15	QPSK	75	0	13.31	13.28	13.57	
15	16QAM	1	0	13.45	13.44	13.46	14.5
15	16QAM	1	37	13.44	13.45	13.51	
15	16QAM	1	74	13.23	13.40	13.43	
15	16QAM	36	0	12.22	12.23	12.21	13.5
15	16QAM	36	20	12.17	12.25	12.35	
15	16QAM	36	39	12.05	12.15	12.30	
15	16QAM	75	0	12.09	12.20	12.26	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	14.43	14.46	14.51	
10	QPSK	1	25	14.31	14.33	14.49	15.5
10	QPSK	1	49	14.30	14.32	14.55	
10	QPSK	25	0	13.55	13.46	13.57	
10	QPSK	25	12	13.47	13.27	13.54	14.5
10	QPSK	25	25	13.40	13.38	13.57	
10	QPSK	50	0	13.34	13.29	13.59	
10	16QAM	1	0	13.44	13.44	13.44	14.5
10	16QAM	1	25	13.44	13.46	13.53	
10	16QAM	1	49	13.20	13.40	13.42	
10	16QAM	25	0	12.23	12.26	12.21	13.5
10	16QAM	25	12	12.20	12.26	12.29	
10	16QAM	25	25	12.09	12.15	12.28	
10	16QAM	50	0	12.03	12.20	12.29	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	14.45	14.49	14.54	
5	QPSK	1	12	14.30	14.35	14.44	15.5
5	QPSK	1	24	14.32	14.31	14.56	
5	QPSK	12	0	13.53	13.42	13.61	
5	QPSK	12	7	13.46	13.27	13.52	14.5
5	QPSK	12	13	13.46	13.34	13.60	
5	QPSK	25	0	13.31	13.30	13.60	
5	16QAM	1	0	13.40	13.45	13.48	14.5



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5	16QAM	1	12	13.44	13.49	13.50	13.5
5	16QAM	1	24	13.22	13.38	13.44	
5	16QAM	12	0	12.22	12.27	12.19	
5	16QAM	12	7	12.17	12.22	12.34	
5	16QAM	12	13	12.10	12.19	12.24	
5	16QAM	25	0	12.03	12.19	12.24	Tune-up limit (dBm)
Channel				26055	26340	26675	
Frequency (MHz)				1851.5	1880	1913.5	15.5
3	QPSK	1	0	14.44	14.46	14.54	
3	QPSK	1	8	14.33	14.38	14.45	
3	QPSK	1	14	14.32	14.29	14.50	
3	QPSK	8	0	13.55	13.44	13.58	
3	QPSK	8	4	13.48	13.26	13.54	14.5
3	QPSK	8	7	13.41	13.39	13.60	
3	QPSK	15	0	13.31	13.31	13.62	
3	16QAM	1	0	13.46	13.46	13.44	14.5
3	16QAM	1	8	13.41	13.45	13.55	
3	16QAM	1	14	13.23	13.38	13.44	
3	16QAM	8	0	12.23	12.24	12.19	13.5
3	16QAM	8	4	12.21	12.28	12.30	
3	16QAM	8	7	12.08	12.17	12.25	
3	16QAM	15	0	12.06	12.18	12.24	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	14.00	14.10	14.22	15.5
1.4	QPSK	1	3	14.08	14.17	14.29	
1.4	QPSK	1	5	13.99	14.07	14.21	
1.4	QPSK	3	0	14.03	14.13	14.28	
1.4	QPSK	3	1	14.08	14.16	14.32	
1.4	QPSK	3	3	14.04	14.10	14.26	
1.4	QPSK	6	0	13.05	13.15	13.31	14.5
1.4	16QAM	1	0	13.33	13.43	13.52	14.5
1.4	16QAM	1	3	13.43	13.52	13.59	
1.4	16QAM	1	5	13.31	13.39	13.49	
1.4	16QAM	3	0	13.08	13.17	13.30	
1.4	16QAM	3	1	13.15	13.22	13.34	
1.4	16QAM	3	3	13.09	13.16	13.29	
1.4	16QAM	6	0	12.14	12.23	12.35	13.5

<LTE Band 26_Ant Main_Sensor OFF>

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	23.54	23.42	23.34	24.5
15	QPSK	1	37	23.46	23.41	23.32	
15	QPSK	1	74	23.39	23.32	23.33	
15	QPSK	36	0	22.57	22.51	22.44	23.5
15	QPSK	36	20	22.51	22.50	22.43	
15	QPSK	36	39	22.55	22.47	22.42	
15	QPSK	75	0	22.54	22.49	22.43	23.5
15	16QAM	1	0	22.62	22.51	22.63	
15	16QAM	1	37	22.70	22.63	22.59	
15	16QAM	1	74	22.78	22.59	22.47	22.5
15	16QAM	36	0	21.52	21.46	21.39	
15	16QAM	36	20	21.54	21.53	21.48	
15	16QAM	36	39	21.61	21.47	21.42	
15	16QAM	75	0	21.51	21.49	21.42	Tune-up limit (dBm)
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	Tune-up limit (dBm)
10	QPSK	1	0	23.38	23.29	23.30	



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10	QPSK	1	25	23.34	23.35	23.13	23.5
10	QPSK	1	49	23.52	23.36	23.11	
10	QPSK	25	0	22.47	22.48	22.34	
10	QPSK	25	12	22.55	22.49	22.27	
10	QPSK	25	25	22.57	22.38	22.33	
10	QPSK	50	0	22.37	22.35	22.36	23.5
10	16QAM	1	0	22.44	22.37	22.49	
10	16QAM	1	25	22.64	22.63	22.47	
10	16QAM	1	49	22.77	22.42	22.38	22.5
10	16QAM	25	0	21.36	21.40	21.35	
10	16QAM	25	12	21.48	21.44	21.48	
10	16QAM	25	25	21.43	21.29	21.41	
10	16QAM	50	0	21.36	21.48	21.22	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.36	23.13	23.36	24.5
5	QPSK	1	12	23.42	23.43	23.22	
5	QPSK	1	24	23.48	23.24	23.24	
5	QPSK	12	0	22.42	22.46	22.23	23.5
5	QPSK	12	7	22.49	22.34	22.31	
5	QPSK	12	13	22.46	22.29	22.37	
5	QPSK	25	0	22.40	22.29	22.29	23.5
5	16QAM	1	0	22.58	22.31	22.43	
5	16QAM	1	12	22.52	22.62	22.57	
5	16QAM	1	24	22.62	22.53	22.44	22.5
5	16QAM	12	0	21.50	21.39	21.39	
5	16QAM	12	7	21.50	21.40	21.31	
5	16QAM	12	13	21.47	21.30	21.27	
5	16QAM	25	0	21.46	21.38	21.25	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	23.23	23.31	23.30	24.5
3	QPSK	1	8	23.46	23.31	23.31	
3	QPSK	1	14	23.41	23.18	23.29	
3	QPSK	8	0	22.36	22.38	22.25	23.5
3	QPSK	8	4	22.41	22.41	22.36	
3	QPSK	8	7	22.45	22.38	22.40	
3	QPSK	15	0	22.54	22.39	22.38	23.5
3	16QAM	1	0	22.52	22.35	22.46	
3	16QAM	1	8	22.50	22.49	22.56	
3	16QAM	1	14	22.77	22.54	22.28	22.5
3	16QAM	8	0	21.50	21.36	21.23	
3	16QAM	8	4	21.40	21.42	21.46	
3	16QAM	8	7	21.47	21.39	21.25	
3	16QAM	15	0	21.40	21.33	21.39	Tune-up limit (dBm)
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	24.5
1.4	QPSK	1	0	23.37	23.35	23.23	
1.4	QPSK	1	3	23.43	23.41	23.31	
1.4	QPSK	1	5	23.33	23.34	23.23	
1.4	QPSK	3	0	23.40	23.38	23.27	
1.4	QPSK	3	1	23.48	23.44	23.28	
1.4	QPSK	3	3	23.42	23.39	23.28	23.5
1.4	QPSK	6	0	22.44	22.47	22.33	
1.4	16QAM	1	0	22.53	22.56	22.45	23.5
1.4	16QAM	1	3	22.66	22.72	22.42	
1.4	16QAM	1	5	22.54	22.56	22.42	
1.4	16QAM	3	0	22.36	22.42	22.26	
1.4	16QAM	3	1	22.41	22.46	22.30	
1.4	16QAM	3	3	22.37	22.38	22.26	
1.4	16QAM	6	0	21.52	21.50	21.38	22.5



<LTE Band 26_Ant Main_Sensor ON>

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	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	20.25	20.22	20.19	
15	QPSK	1	37	20.23	20.20	20.13	21.5
15	QPSK	1	74	20.21	20.11	20.01	
15	QPSK	36	0	19.38	19.37	19.32	
15	QPSK	36	20	19.35	19.15	19.07	20.5
15	QPSK	36	39	19.33	19.27	19.28	
15	QPSK	75	0	19.37	19.14	19.39	
15	16QAM	1	0	19.51	19.55	19.57	20.5
15	16QAM	1	37	19.54	19.62	19.50	
15	16QAM	1	74	19.68	19.56	19.46	
15	16QAM	36	0	18.40	18.39	18.36	19.5
15	16QAM	36	20	18.43	18.42	18.35	
15	16QAM	36	39	18.49	18.36	18.31	
15	16QAM	75	0	18.40	18.43	18.34	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	20.17	20.12	20.09	
10	QPSK	1	25	20.12	20.09	20.06	21.5
10	QPSK	1	49	20.14	20.06	19.96	
10	QPSK	25	0	19.32	19.32	19.22	
10	QPSK	25	12	19.24	19.09	19.00	20.5
10	QPSK	25	25	19.26	19.22	19.17	
10	QPSK	50	0	19.27	19.09	19.30	
10	16QAM	1	0	19.43	19.48	19.51	20.5
10	16QAM	1	25	19.48	19.53	19.43	
10	16QAM	1	49	19.59	19.47	19.39	
10	16QAM	25	0	18.32	18.29	18.28	19.5
10	16QAM	25	12	18.36	18.35	18.25	
10	16QAM	25	25	18.38	18.31	18.21	
10	16QAM	50	0	18.29	18.33	18.28	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	20.16	20.11	20.08	
5	QPSK	1	12	20.13	20.11	20.06	21.5
5	QPSK	1	24	20.15	20.01	19.94	
5	QPSK	12	0	19.28	19.29	19.23	
5	QPSK	12	7	19.28	19.06	18.96	20.5
5	QPSK	12	13	19.22	19.18	19.17	
5	QPSK	25	0	19.31	19.04	19.31	
5	16QAM	1	0	19.42	19.48	19.49	20.5
5	16QAM	1	12	19.47	19.55	19.39	
5	16QAM	1	24	19.63	19.49	19.37	
5	16QAM	12	0	18.34	18.29	18.31	19.5
5	16QAM	12	7	18.37	18.34	18.29	
5	16QAM	12	13	18.40	18.25	18.25	
5	16QAM	25	0	18.31	18.37	18.26	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	20.17	20.11	20.14	
3	QPSK	1	8	20.14	20.10	20.03	21.5
3	QPSK	1	14	20.13	20.03	19.92	
3	QPSK	8	0	19.31	19.26	19.25	
3	QPSK	8	4	19.26	19.09	19.02	20.5
3	QPSK	8	7	19.24	19.19	19.18	
3	QPSK	15	0	19.26	19.04	19.33	
3	16QAM	1	0	19.45	19.46	19.51	20.5



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3	16QAM	1	8	19.47	19.57	19.44	19.5
3	16QAM	1	14	19.57	19.49	19.35	
3	16QAM	8	0	18.30	18.33	18.28	
3	16QAM	8	4	18.37	18.31	18.24	
3	16QAM	8	7	18.39	18.30	18.22	
3	16QAM	15	0	18.34	18.38	18.28	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	19.80	19.79	19.68	21.5
1.4	QPSK	1	3	19.88	19.86	19.75	
1.4	QPSK	1	5	19.79	19.77	19.66	
1.4	QPSK	3	0	19.85	19.83	19.72	
1.4	QPSK	3	1	19.88	19.86	19.77	
1.4	QPSK	3	3	19.86	19.84	19.72	
1.4	QPSK	6	0	18.90	18.89	18.80	20.5
1.4	16QAM	1	0	19.07	19.10	18.92	20.5
1.4	16QAM	1	3	19.18	19.18	19.01	
1.4	16QAM	1	5	19.05	19.09	18.91	
1.4	16QAM	3	0	18.88	18.86	18.75	
1.4	16QAM	3	1	18.93	18.92	18.76	
1.4	16QAM	3	3	18.86	18.84	18.74	
1.4	16QAM	6	0	17.94	17.91	17.82	19.5

<LTE Band 30_Ant Main_Sensor OFF>

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		21.74		23
10	QPSK	1	25		21.64		
10	QPSK	1	49		21.61		
10	QPSK	25	0		20.76		22
10	QPSK	25	12		20.71		
10	QPSK	25	25		20.73		
10	QPSK	50	0		20.75		
10	16QAM	1	0		21.07		22
10	16QAM	1	25		21.04		
10	16QAM	1	49		20.93		
10	16QAM	25	0		19.75		21
10	16QAM	25	12		19.82		
10	16QAM	25	25		19.79		
10	16QAM	50	0		19.80		
Channel				27685	27710	27735	Tune-up limit
Frequency (MHz)				2307.5	2310	2312.5	(dBm)
5	QPSK	1	0	21.60	21.71	21.72	23
5	QPSK	1	12	21.52	21.44	21.63	
5	QPSK	1	24	21.53	21.49	21.43	
5	QPSK	12	0	20.67	20.56	20.59	22
5	QPSK	12	7	20.65	20.61	20.73	
5	QPSK	12	13	20.56	20.66	20.60	
5	QPSK	25	0	20.69	20.60	20.62	
5	16QAM	1	0	20.92	21.04	20.91	22
5	16QAM	1	12	20.86	21.03	21.01	
5	16QAM	1	24	20.84	20.88	20.83	
5	16QAM	12	0	19.70	19.71	19.61	21
5	16QAM	12	7	19.68	19.78	19.76	
5	16QAM	12	13	19.77	19.79	19.69	
5	16QAM	25	0	19.79	19.68	19.63	

**<LTE Band 30_Ant Main_Sensor ON>**

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		16.82		17
10	QPSK	1	25		16.73		
10	QPSK	1	49		16.63		
10	QPSK	25	0		15.74		16
10	QPSK	25	12		15.71		
10	QPSK	25	25		15.73		
10	QPSK	50	0		15.72		
10	16QAM	1	0		15.99		16
10	16QAM	1	25		15.97		
10	16QAM	1	49		15.85		
10	16QAM	25	0		14.74		15
10	16QAM	25	12		14.74		
10	16QAM	25	25		14.75		
10	16QAM	50	0		14.73		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	16.77	16.71	16.74	17
5	QPSK	1	12	16.67	16.62	16.64	
5	QPSK	1	24	16.53	16.58	16.53	
5	QPSK	12	0	15.67	15.67	15.64	16
5	QPSK	12	7	15.63	15.62	15.66	
5	QPSK	12	13	15.69	15.69	15.67	
5	QPSK	25	0	15.67	15.67	15.64	
5	16QAM	1	0	15.89	15.89	15.90	16
5	16QAM	1	12	15.90	15.86	15.89	
5	16QAM	1	24	15.76	15.77	15.77	
5	16QAM	12	0	14.66	14.66	14.64	15
5	16QAM	12	7	14.69	14.65	14.68	
5	16QAM	12	13	14.64	14.66	14.70	
5	16QAM	25	0	14.67	14.63	14.68	

<LTE Band 66_Ant Main_Sensor OFF>

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	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.51	23.45	23.29	24.5
20	QPSK	1	49	23.41	23.44	23.18	
20	QPSK	1	99	23.45	23.26	23.25	
20	QPSK	50	0	22.61	22.58	22.48	23.5
20	QPSK	50	24	22.54	22.57	22.47	
20	QPSK	50	50	22.59	22.54	22.32	
20	QPSK	100	0	22.58	22.54	22.46	
20	16QAM	1	0	22.65	22.60	22.58	23.5
20	16QAM	1	49	22.71	22.65	22.44	
20	16QAM	1	99	22.64	22.58	22.52	
20	16QAM	50	0	21.54	21.54	21.47	22.5
20	16QAM	50	24	21.64	21.53	21.46	
20	16QAM	50	50	21.58	21.54	21.30	
20	16QAM	100	0	21.58	21.50	21.45	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.24	23.33	23.22	24.5
15	QPSK	1	37	23.39	23.32	23.04	
15	QPSK	1	74	23.27	23.13	23.12	



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15	QPSK	36	0	22.50	22.42	22.43	23.5
15	QPSK	36	20	22.54	22.40	22.32	
15	QPSK	36	39	22.46	22.51	22.23	
15	QPSK	75	0	22.38	22.51	22.46	
15	16QAM	1	0	22.61	22.57	22.48	23.5
15	16QAM	1	37	22.52	22.56	22.43	
15	16QAM	1	74	22.56	22.52	22.37	
15	16QAM	36	0	21.36	21.44	21.46	22.5
15	16QAM	36	20	21.51	21.33	21.30	
15	16QAM	36	39	21.49	21.39	21.17	
15	16QAM	75	0	21.46	21.39	21.41	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.29	23.28	23.26	24.5
10	QPSK	1	25	23.43	23.45	23.03	
10	QPSK	1	49	23.26	23.26	23.09	
10	QPSK	25	0	22.43	22.39	22.37	23.5
10	QPSK	25	12	22.46	22.49	22.48	
10	QPSK	25	25	22.50	22.54	22.22	
10	QPSK	50	0	22.39	22.46	22.35	
10	16QAM	1	0	22.64	22.44	22.44	23.5
10	16QAM	1	25	22.70	22.50	22.43	
10	16QAM	1	49	22.44	22.39	22.49	
10	16QAM	25	0	21.45	21.36	21.45	22.5
10	16QAM	25	12	21.55	21.36	21.37	
10	16QAM	25	25	21.52	21.52	21.25	
10	16QAM	50	0	21.46	21.30	21.31	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.35	23.27	23.19	24.5
5	QPSK	1	12	23.47	23.40	23.18	
5	QPSK	1	24	23.36	23.25	23.12	
5	QPSK	12	0	22.40	22.41	22.31	23.5
5	QPSK	12	7	22.43	22.52	22.47	
5	QPSK	12	13	22.59	22.53	22.30	
5	QPSK	25	0	22.45	22.53	22.30	
5	16QAM	1	0	22.52	22.54	22.43	23.5
5	16QAM	1	12	22.57	22.53	22.24	
5	16QAM	1	24	22.52	22.49	22.48	
5	16QAM	12	0	21.52	21.50	21.44	22.5
5	16QAM	12	7	21.58	21.35	21.39	
5	16QAM	12	13	21.55	21.44	21.22	
5	16QAM	25	0	21.44	21.36	21.32	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.33	23.28	23.20	24.5
3	QPSK	1	8	23.49	23.45	23.01	
3	QPSK	1	14	23.41	23.08	23.11	
3	QPSK	8	0	22.44	22.56	22.38	23.5
3	QPSK	8	4	22.45	22.47	22.42	
3	QPSK	8	7	22.59	22.45	22.13	
3	QPSK	15	0	22.52	22.48	22.33	
3	16QAM	1	0	22.64	22.44	22.38	23.5
3	16QAM	1	8	22.57	22.57	22.25	
3	16QAM	1	14	22.47	22.45	22.41	
3	16QAM	8	0	21.41	21.49	21.34	22.5
3	16QAM	8	4	21.50	21.52	21.46	
3	16QAM	8	7	21.57	21.51	21.26	
3	16QAM	15	0	21.39	21.35	21.40	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.32	23.33	23.21	24.5
1.4	QPSK	1	3	23.39	23.43	23.30	



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1.4	QPSK	1	5	23.34	23.31	23.23	
1.4	QPSK	3	0	23.35	23.36	23.27	
1.4	QPSK	3	1	23.41	23.42	23.33	
1.4	QPSK	3	3	23.38	23.37	23.28	
1.4	QPSK	6	0	22.40	22.44	22.29	23.5
1.4	16QAM	1	0	22.60	22.51	22.48	23.5
1.4	16QAM	1	3	22.63	22.65	22.56	
1.4	16QAM	1	5	22.54	22.54	22.44	
1.4	16QAM	3	0	22.40	22.37	22.24	
1.4	16QAM	3	1	22.42	22.43	22.32	
1.4	16QAM	3	3	22.41	22.38	22.28	22.5
1.4	16QAM	6	0	21.50	21.44	21.32	

<LTE Band 66_Ant Main_Sensor ON>

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	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	13.81	13.79	13.66	14.5
20	QPSK	1	49	13.79	13.65	13.59	
20	QPSK	1	99	13.78	13.77	13.57	
20	QPSK	50	0	12.76	12.75	12.66	13.5
20	QPSK	50	24	12.74	12.72	12.63	
20	QPSK	50	50	12.71	12.60	12.60	
20	QPSK	100	0	12.75	12.69	12.48	
20	16QAM	1	0	12.75	12.74	12.65	13.5
20	16QAM	1	49	12.84	12.73	12.46	
20	16QAM	1	99	12.78	12.51	12.47	
20	16QAM	50	0	11.49	11.42	11.30	12.5
20	16QAM	50	24	11.54	11.42	11.32	
20	16QAM	50	50	11.52	11.35	11.21	
20	16QAM	100	0	11.48	11.38	11.30	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	13.75	13.74	13.55	14.5
15	QPSK	1	37	13.73	13.59	13.51	
15	QPSK	1	74	13.69	13.66	13.52	
15	QPSK	36	0	12.71	12.67	12.58	13.5
15	QPSK	36	20	12.63	12.62	12.55	
15	QPSK	36	39	12.63	12.52	12.50	
15	QPSK	75	0	12.68	12.61	12.37	
15	16QAM	1	0	12.65	12.64	12.58	13.5
15	16QAM	1	37	12.76	12.65	12.39	
15	16QAM	1	74	12.69	12.43	12.42	
15	16QAM	36	0	11.43	11.37	11.23	12.5
15	16QAM	36	20	11.43	11.32	11.26	
15	16QAM	36	39	11.43	11.28	11.11	
15	16QAM	75	0	11.43	11.33	11.24	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	13.73	13.70	13.55	14.5
10	QPSK	1	25	13.74	13.54	13.49	
10	QPSK	1	49	13.72	13.68	13.47	
10	QPSK	25	0	12.66	12.64	12.60	13.5
10	QPSK	25	12	12.65	12.67	12.58	
10	QPSK	25	25	12.64	12.54	12.50	
10	QPSK	50	0	12.64	12.59	12.40	
10	16QAM	1	0	12.66	12.68	12.55	13.5
10	16QAM	1	25	12.78	12.63	12.36	
10	16QAM	1	49	12.67	12.45	12.37	
10	16QAM	25	0	11.43	11.36	11.25	12.5



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10	16QAM	25	12	11.49	11.37	11.21	
10	16QAM	25	25	11.42	11.28	11.12	
10	16QAM	50	0	11.42	11.31	11.19	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	13.72	13.74	13.61	14.5
5	QPSK	1	12	13.74	13.59	13.53	
5	QPSK	1	24	13.70	13.67	13.52	
5	QPSK	12	0	12.67	12.70	12.57	13.5
5	QPSK	12	7	12.64	12.67	12.55	
5	QPSK	12	13	12.60	12.52	12.55	
5	QPSK	25	0	12.67	12.63	12.42	13.5
5	16QAM	1	0	12.65	12.64	12.58	
5	16QAM	1	12	12.74	12.62	12.36	
5	16QAM	1	24	12.70	12.42	12.42	12.5
5	16QAM	12	0	11.38	11.35	11.21	
5	16QAM	12	7	11.43	11.32	11.25	
5	16QAM	12	13	11.47	11.27	11.11	12.5
5	16QAM	25	0	11.43	11.27	11.21	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	13.75	13.73	13.60	14.5
3	QPSK	1	8	13.69	13.55	13.51	
3	QPSK	1	14	13.69	13.66	13.46	
3	QPSK	8	0	12.65	12.66	12.55	13.5
3	QPSK	8	4	12.64	12.67	12.58	
3	QPSK	8	7	12.60	12.50	12.54	
3	QPSK	15	0	12.67	12.60	12.37	13.5
3	16QAM	1	0	12.66	12.66	12.59	
3	16QAM	1	8	12.73	12.63	12.36	
3	16QAM	1	14	12.71	12.43	12.39	12.5
3	16QAM	8	0	11.44	11.31	11.23	
3	16QAM	8	4	11.46	11.31	11.26	
3	16QAM	8	7	11.44	11.30	11.12	12.5
3	16QAM	15	0	11.38	11.28	11.23	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	13.27	13.25	13.08	14.5
1.4	QPSK	1	3	13.34	13.33	13.15	
1.4	QPSK	1	5	13.25	13.25	13.06	
1.4	QPSK	3	0	13.33	13.31	13.14	13.5
1.4	QPSK	3	1	13.36	13.33	13.16	
1.4	QPSK	3	3	13.33	13.32	13.13	
1.4	QPSK	6	0	12.28	12.28	12.10	13.5
1.4	16QAM	1	0	12.60	12.59	12.41	
1.4	16QAM	1	3	12.71	12.64	12.47	
1.4	16QAM	1	5	12.62	12.58	12.42	12.5
1.4	16QAM	3	0	12.37	12.36	12.17	
1.4	16QAM	3	1	12.42	12.39	12.23	
1.4	16QAM	3	3	12.38	12.33	12.18	12.5
1.4	16QAM	6	0	11.41	11.34	11.24	



<LTE Band 71_Ant Main_Sensor OFF>

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	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	23.50	23.44	23.46	24.5
20	QPSK	1	49	23.47	23.40	23.41	
20	QPSK	1	99	23.33	23.41	23.35	
20	QPSK	50	0	22.66	22.56	22.45	23.5
20	QPSK	50	24	22.55	22.49	22.43	
20	QPSK	50	50	22.48	22.45	22.44	
20	QPSK	100	0	22.56	22.50	22.41	
20	16QAM	1	0	22.66	22.69	22.66	23.5
20	16QAM	1	49	22.74	22.66	22.65	
20	16QAM	1	99	22.63	22.71	22.63	
20	16QAM	50	0	21.58	21.52	21.43	22.5
20	16QAM	50	24	21.55	21.51	21.41	
20	16QAM	50	50	21.51	21.44	21.48	
20	16QAM	100	0	21.54	21.46	21.38	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.47	23.25	23.31	24.5
15	QPSK	1	37	23.32	23.40	23.38	
15	QPSK	1	74	23.21	23.32	23.26	
15	QPSK	36	0	22.53	22.42	22.28	23.5
15	QPSK	36	20	22.39	22.40	22.24	
15	QPSK	36	39	22.39	22.45	22.34	
15	QPSK	75	0	22.53	22.41	22.32	
15	16QAM	1	0	22.48	22.57	22.64	23.5
15	16QAM	1	37	22.68	22.65	22.56	
15	16QAM	1	74	22.48	22.54	22.49	
15	16QAM	36	0	21.54	21.37	21.41	22.5
15	16QAM	36	20	21.49	21.46	21.21	
15	16QAM	36	39	21.44	21.35	21.44	
15	16QAM	75	0	21.47	21.27	21.33	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	23.38	23.27	23.33	24.5
10	QPSK	1	25	23.39	23.39	23.28	
10	QPSK	1	49	23.29	23.29	23.28	
10	QPSK	25	0	22.48	22.51	22.44	23.5
10	QPSK	25	12	22.40	22.45	22.34	
10	QPSK	25	25	22.43	22.38	22.46	
10	QPSK	50	0	22.40	22.49	22.34	
10	16QAM	1	0	22.65	22.57	22.61	23.5
10	16QAM	1	25	22.71	22.49	22.49	
10	16QAM	1	49	22.60	22.57	22.55	
10	16QAM	25	0	21.42	21.49	21.32	22.5
10	16QAM	25	12	21.46	21.44	21.23	
10	16QAM	25	25	21.40	21.27	21.30	
10	16QAM	50	0	21.35	21.35	21.28	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	23.30	23.39	23.26	24.5
5	QPSK	1	12	23.34	23.34	23.25	
5	QPSK	1	24	23.14	23.31	23.21	
5	QPSK	12	0	22.65	22.54	22.28	23.5
5	QPSK	12	7	22.45	22.45	22.27	
5	QPSK	12	13	22.46	22.29	22.36	
5	QPSK	25	0	22.56	22.41	22.36	
5	16QAM	1	0	22.51	22.52	22.60	23.5



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5	16QAM	1	12	22.65	22.50	22.54	22.5
5	16QAM	1	24	22.63	22.60	22.44	
5	16QAM	12	0	21.57	21.51	21.27	
5	16QAM	12	7	21.45	21.42	21.25	
5	16QAM	12	13	21.50	21.37	21.35	
5	16QAM	25	0	21.45	21.28	21.30	

<LTE Band 71_Ant Main_Sensor ON>

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	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	21.80	21.68	21.74	23
20	QPSK	1	49	21.76	21.58	21.62	
20	QPSK	1	99	21.74	21.50	21.58	
20	QPSK	50	0	20.91	20.81	20.90	22
20	QPSK	50	24	20.84	20.77	20.80	
20	QPSK	50	50	20.79	20.76	20.56	
20	QPSK	100	0	20.79	20.76	20.72	22
20	16QAM	1	0	20.91	20.81	20.93	
20	16QAM	1	49	21.01	20.96	20.94	
20	16QAM	1	99	20.91	20.94	20.90	21
20	16QAM	50	0	19.74	19.66	19.59	
20	16QAM	50	24	19.71	19.64	19.58	
20	16QAM	50	50	19.69	19.64	19.69	21
20	16QAM	100	0	19.64	19.66	19.56	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	21.75	21.63	21.63	23
15	QPSK	1	37	21.69	21.48	21.51	
15	QPSK	1	74	21.65	21.44	21.50	
15	QPSK	36	0	20.80	20.75	20.79	22
15	QPSK	36	20	20.73	20.68	20.69	
15	QPSK	36	39	20.68	20.65	20.50	
15	QPSK	75	0	20.69	20.69	20.61	22
15	16QAM	1	0	20.81	20.74	20.84	
15	16QAM	1	37	20.91	20.91	20.89	
15	16QAM	1	74	20.84	20.84	20.83	21
15	16QAM	36	0	19.65	19.60	19.53	
15	16QAM	36	20	19.66	19.55	19.53	
15	16QAM	36	39	19.62	19.54	19.59	21
15	16QAM	75	0	19.53	19.60	19.49	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	21.69	21.58	21.68	23
10	QPSK	1	25	21.70	21.53	21.57	
10	QPSK	1	49	21.68	21.40	21.49	
10	QPSK	25	0	20.85	20.70	20.83	22
10	QPSK	25	12	20.77	20.68	20.75	
10	QPSK	25	25	20.73	20.65	20.47	
10	QPSK	50	0	20.68	20.65	20.65	22
10	16QAM	1	0	20.85	20.72	20.82	
10	16QAM	1	25	20.94	20.90	20.85	
10	16QAM	1	49	20.83	20.88	20.81	21
10	16QAM	25	0	19.69	19.56	19.49	
10	16QAM	25	12	19.62	19.53	19.52	
10	16QAM	25	25	19.64	19.53	19.63	21
10	16QAM	50	0	19.54	19.59	19.51	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	21.75	21.61	21.64	23



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5	QPSK	1	12	21.69	21.51	21.52	22
5	QPSK	1	24	21.64	21.42	21.49	
5	QPSK	12	0	20.83	20.71	20.83	
5	QPSK	12	7	20.77	20.71	20.75	
5	QPSK	12	13	20.73	20.70	20.49	
5	QPSK	25	0	20.68	20.65	20.67	22
5	16QAM	1	0	20.83	20.71	20.83	
5	16QAM	1	12	20.96	20.86	20.87	
5	16QAM	1	24	20.82	20.83	20.81	21
5	16QAM	12	0	19.63	19.60	19.52	
5	16QAM	12	7	19.61	19.53	19.51	
5	16QAM	12	13	19.64	19.57	19.61	
5	16QAM	25	0	19.59	19.57	19.49	

<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.

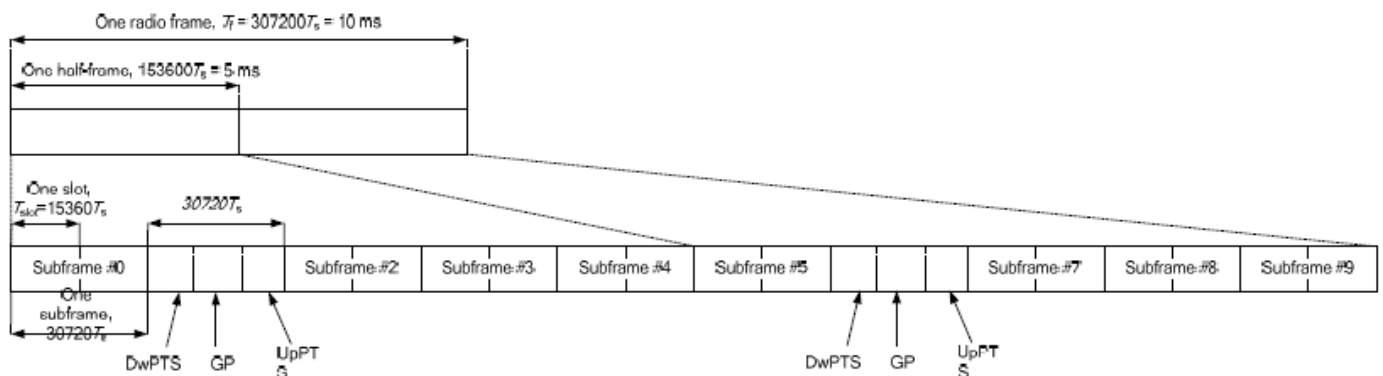


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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:

- Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is:
 $(3+0.167)/5 = 63.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is:
 $(3+0.143)/5 = 62.9\%$
- 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 38_Ant Main_Sensor OFF>

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	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.78	22.87	22.92	24
20	QPSK	1	49	22.76	22.85	22.86	
20	QPSK	1	99	22.77	22.86	22.83	
20	QPSK	50	0	21.85	21.95	21.96	23
20	QPSK	50	24	21.83	21.94	21.94	
20	QPSK	50	50	21.84	21.91	21.92	
20	QPSK	100	0	21.80	21.94	21.95	23
20	16QAM	1	0	21.75	21.92	22.04	
20	16QAM	1	49	21.86	21.95	21.94	
20	16QAM	1	99	22.02	21.93	21.94	22
20	16QAM	50	0	20.85	20.96	21.03	
20	16QAM	50	24	20.88	21.04	21.02	
20	16QAM	50	50	20.97	21.03	21.00	22
20	16QAM	100	0	20.86	21.00	21.00	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.62	22.79	22.82	24
15	QPSK	1	37	22.59	22.71	22.74	
15	QPSK	1	74	22.74	22.78	22.69	
15	QPSK	36	0	21.67	21.95	21.81	23
15	QPSK	36	20	21.69	21.75	21.92	
15	QPSK	36	39	21.84	21.87	21.87	
15	QPSK	75	0	21.68	21.94	21.78	23
15	16QAM	1	0	21.60	21.92	22.02	
15	16QAM	1	37	21.83	21.77	21.80	
15	16QAM	1	74	21.94	21.79	21.77	22
15	16QAM	36	0	20.70	20.76	20.87	
15	16QAM	36	20	20.79	21.00	20.98	
15	16QAM	36	39	20.89	20.99	20.82	22
15	16QAM	75	0	20.82	20.94	20.98	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.54	22.79	22.74	24
10	QPSK	1	25	22.58	22.71	22.75	
10	QPSK	1	49	22.63	22.71	22.68	
10	QPSK	25	0	21.69	21.76	21.82	23
10	QPSK	25	12	21.80	21.82	21.86	
10	QPSK	25	25	21.90	21.87	21.84	
10	QPSK	50	0	21.71	21.79	21.90	23
10	16QAM	1	0	21.62	21.91	21.93	
10	16QAM	1	25	21.85	21.78	21.93	
10	16QAM	1	49	21.82	21.78	21.90	22
10	16QAM	25	0	20.82	20.86	21.00	
10	16QAM	25	12	20.83	20.94	20.84	
10	16QAM	25	25	20.88	20.98	21.00	22
10	16QAM	50	0	20.69	20.80	20.95	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.68	22.76	22.84	24
5	QPSK	1	12	22.63	22.67	22.72	
5	QPSK	1	24	22.80	22.71	22.77	
5	QPSK	12	0	21.62	21.93	21.86	23
5	QPSK	12	7	21.66	21.94	21.87	
5	QPSK	12	13	21.84	21.87	21.72	
5	QPSK	25	0	21.64	21.79	21.78	23
5	16QAM	1	0	21.63	21.85	22.02	



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5	16QAM	1	12	21.69	21.78	21.81	22
5	16QAM	1	24	22.02	21.73	21.76	
5	16QAM	12	0	20.82	20.88	21.03	
5	16QAM	12	7	20.80	20.89	20.97	
5	16QAM	12	13	20.83	20.96	21.00	
5	16QAM	25	0	20.78	20.96	21.00	

<LTE Band 38_Ant Main_Sensor ON>

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	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	18.21	18.26	18.33	19.5
20	QPSK	1	49	18.18	18.24	18.32	
20	QPSK	1	99	18.20	18.25	18.29	
20	QPSK	50	0	17.36	17.46	17.50	18.5
20	QPSK	50	24	17.31	17.45	17.48	
20	QPSK	50	50	17.35	17.44	17.49	
20	QPSK	100	0	17.30	17.43	17.48	
20	16QAM	1	0	17.14	17.29	17.39	18.5
20	16QAM	1	49	17.26	17.45	17.43	
20	16QAM	1	99	17.45	17.38	17.38	
20	16QAM	50	0	16.28	16.48	16.45	17.5
20	16QAM	50	24	16.35	16.46	16.47	
20	16QAM	50	50	16.45	16.48	16.50	
20	16QAM	100	0	16.32	16.45	16.48	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	18.12	18.20	18.25	19.5
15	QPSK	1	37	18.13	18.19	18.21	
15	QPSK	1	74	18.13	18.14	18.23	
15	QPSK	36	0	17.28	17.38	17.37	18.5
15	QPSK	36	20	17.24	17.39	17.42	
15	QPSK	36	39	17.42	17.37	17.40	
15	QPSK	75	0	17.22	17.36	17.33	
15	16QAM	1	0	17.06	17.18	17.30	18.5
15	16QAM	1	37	17.17	17.38	17.36	
15	16QAM	1	74	17.36	17.32	17.29	
15	16QAM	36	0	16.20	16.39	16.39	17.5
15	16QAM	36	20	16.28	16.36	16.38	
15	16QAM	36	39	16.38	16.39	16.45	
15	16QAM	75	0	16.24	16.34	16.39	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	18.13	18.20	18.22	19.5
10	QPSK	1	25	18.08	18.14	18.27	
10	QPSK	1	49	18.10	18.16	18.24	
10	QPSK	25	0	17.25	17.33	17.34	18.5
10	QPSK	25	12	17.26	17.38	17.43	
10	QPSK	25	25	17.36	17.38	17.42	
10	QPSK	50	0	17.25	17.39	17.36	
10	16QAM	1	0	17.06	17.21	17.28	18.5
10	16QAM	1	25	17.15	17.37	17.35	
10	16QAM	1	49	17.36	17.30	17.28	
10	16QAM	25	0	16.23	16.40	16.34	17.5
10	16QAM	25	12	16.24	16.39	16.41	
10	16QAM	25	25	16.38	16.38	16.44	
10	16QAM	50	0	16.27	16.38	16.41	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	18.16	18.18	18.28	19.5



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5	QPSK	1	12	18.08	18.18	18.27	18.5
5	QPSK	1	24	18.13	18.17	18.24	
5	QPSK	12	0	17.28	17.33	17.33	
5	QPSK	12	7	17.24	17.44	17.37	
5	QPSK	12	13	17.39	17.43	17.42	
5	QPSK	25	0	17.19	17.40	17.37	18.5
5	16QAM	1	0	17.07	17.24	17.31	
5	16QAM	1	12	17.18	17.36	17.35	
5	16QAM	1	24	17.39	17.28	17.33	
5	16QAM	12	0	16.21	16.38	16.34	17.5
5	16QAM	12	7	16.25	16.40	16.37	
5	16QAM	12	13	16.38	16.38	16.43	
5	16QAM	25	0	16.26	16.40	16.42	

<LTE Band 41_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.97	23.06	22.86	22.90	22.83	24
20	QPSK	1	49	22.93	23.04	22.78	22.89	22.78	
20	QPSK	1	99	22.96	23.01	22.85	22.88	22.82	
20	QPSK	50	0	22.11	22.16	21.92	21.95	21.90	23
20	QPSK	50	24	22.10	22.11	21.90	21.94	21.88	
20	QPSK	50	50	22.10	22.11	21.91	21.94	21.89	
20	QPSK	100	0	22.09	22.10	21.91	21.95	21.89	
20	16QAM	1	0	22.08	22.08	21.88	22.00	21.93	23
20	16QAM	1	49	21.97	22.13	22.02	21.93	21.87	
20	16QAM	1	99	22.01	22.10	21.94	21.81	21.78	
20	16QAM	50	0	21.11	21.13	20.98	20.95	20.87	22
20	16QAM	50	24	21.12	21.11	20.96	20.98	20.90	
20	16QAM	50	50	21.08	21.10	20.93	20.99	20.89	
20	16QAM	100	0	21.09	21.03	20.98	20.99	20.87	
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	22.79	23.05	22.84	22.87	22.63	24.00
15	QPSK	1	37	22.90	22.92	22.69	22.87	22.71	
15	QPSK	1	74	22.96	22.85	22.75	22.85	22.69	
15	QPSK	36	0	22.02	22.07	21.84	21.81	21.87	23
15	QPSK	36	20	21.99	21.99	21.76	21.85	21.84	
15	QPSK	36	39	22.06	22.09	21.82	21.78	21.80	
15	QPSK	75	0	21.92	21.93	21.87	21.87	21.77	
15	16QAM	1	0	21.94	22.03	21.71	21.90	21.81	23
15	16QAM	1	37	21.80	22.05	21.94	21.75	21.82	
15	16QAM	1	74	21.98	21.92	21.91	21.68	21.76	
15	16QAM	36	0	20.93	21.05	20.83	20.90	20.79	22
15	16QAM	36	20	21.07	20.99	20.94	20.80	20.72	
15	16QAM	36	39	21.05	20.94	20.85	20.89	20.72	
15	16QAM	75	0	20.94	21.01	20.80	20.85	20.82	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.84	22.86	22.83	22.82	22.81	24.00
10	QPSK	1	25	22.87	22.97	22.77	22.81	22.74	
10	QPSK	1	49	22.82	22.89	22.82	22.80	22.68	
10	QPSK	25	0	22.02	22.16	21.73	21.91	21.83	23
10	QPSK	25	12	21.95	22.11	21.89	21.92	21.86	
10	QPSK	25	25	22.00	22.01	21.92	21.83	21.78	
10	QPSK	50	0	21.93	21.95	21.82	21.85	21.83	
10	16QAM	1	0	22.06	22.05	21.72	22.00	21.90	23



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10	16QAM	1	25	21.80	22.03	21.88	21.78	21.73	22
10	16QAM	1	49	21.87	22.02	21.90	21.81	21.73	
10	16QAM	25	0	21.04	20.97	20.84	20.91	20.76	
10	16QAM	25	12	21.08	20.93	20.81	20.98	20.79	
10	16QAM	25	25	21.02	21.01	20.84	20.89	20.83	
10	16QAM	50	0	21.08	21.01	20.97	20.98	20.73	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	22.77	22.86	22.68	22.80	22.65	24.00
5	QPSK	1	12	22.90	22.90	22.65	22.87	22.69	
5	QPSK	1	24	22.88	22.93	22.77	22.83	22.79	
5	QPSK	12	0	22.10	21.98	21.85	21.82	21.83	23
5	QPSK	12	7	21.94	21.99	21.93	21.80	21.87	
5	QPSK	12	13	21.91	22.11	21.82	21.75	21.79	
5	QPSK	25	0	22.05	21.97	21.91	21.85	21.78	
5	16QAM	1	0	22.03	21.98	21.68	22.00	21.74	23
5	16QAM	1	12	21.79	22.00	21.92	21.92	21.87	
5	16QAM	1	24	21.94	21.97	21.93	21.69	21.69	
5	16QAM	12	0	20.98	21.01	20.82	20.81	20.69	22
5	16QAM	12	7	21.12	21.03	20.81	20.78	20.77	
5	16QAM	12	13	20.97	20.98	20.80	20.91	20.74	
5	16QAM	25	0	21.07	20.91	20.93	20.99	20.74	

<LTE Band 41_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	18.40	18.41	18.39	18.35	18.22	19.5
20	QPSK	1	49	18.38	18.39	18.34	18.31	18.18	
20	QPSK	1	99	18.38	18.36	18.38	18.34	18.15	
20	QPSK	50	0	17.59	17.60	17.46	17.41	17.23	18.5
20	QPSK	50	24	17.54	17.50	17.40	17.40	17.22	
20	QPSK	50	50	17.58	17.49	17.45	17.40	17.21	
20	QPSK	100	0	17.49	17.50	17.39	17.36	17.17	
20	16QAM	1	0	17.48	17.50	17.38	17.40	17.24	18.5
20	16QAM	1	49	17.48	17.54	17.40	17.42	17.19	
20	16QAM	1	99	17.53	17.53	17.47	17.43	17.20	
20	16QAM	50	0	16.53	16.58	16.43	16.42	16.20	17.5
20	16QAM	50	24	16.51	16.46	16.46	16.41	16.23	
20	16QAM	50	50	16.56	16.48	16.43	16.39	16.20	
20	16QAM	100	0	16.53	16.47	16.43	16.40	16.21	
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	18.33	18.35	18.32	18.30	18.11	19.50
15	QPSK	1	37	18.32	18.34	18.23	18.23	18.10	
15	QPSK	1	74	18.32	18.30	18.33	18.25	18.05	
15	QPSK	36	0	17.51	17.43	17.41	17.33	17.18	18.5
15	QPSK	36	20	17.47	17.43	17.35	17.35	17.13	
15	QPSK	36	39	17.53	17.40	17.37	17.32	17.15	
15	QPSK	75	0	17.40	17.45	17.31	17.30	17.07	
15	16QAM	1	0	17.37	17.44	17.32	17.29	17.18	18.5
15	16QAM	1	37	17.42	17.45	17.35	17.35	17.11	
15	16QAM	1	74	17.42	17.44	17.38	17.32	17.10	
15	16QAM	36	0	16.42	16.52	16.34	16.34	16.13	17.5
15	16QAM	36	20	16.44	16.40	16.41	16.35	16.17	
15	16QAM	36	39	16.47	16.38	16.35	16.32	16.15	
15	16QAM	75	0	16.45	16.42	16.32	16.32	16.11	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	18.34	18.33	18.28	18.25	18.11	19.50



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10	QPSK	1	25	18.33	18.31	18.29	18.26	18.08	18.5
10	QPSK	1	49	18.30	18.28	18.28	18.26	18.08	
10	QPSK	25	0	17.54	17.42	17.37	17.35	17.17	
10	QPSK	25	12	17.49	17.44	17.34	17.35	17.12	
10	QPSK	25	25	17.48	17.40	17.37	17.34	17.10	
10	QPSK	50	0	17.42	17.42	17.30	17.29	17.07	18.5
10	16QAM	1	0	17.40	17.42	17.32	17.32	17.18	
10	16QAM	1	25	17.40	17.46	17.32	17.33	17.11	
10	16QAM	1	49	17.48	17.42	17.39	17.37	17.11	17.5
10	16QAM	25	0	16.46	16.47	16.37	16.32	16.12	
10	16QAM	25	12	16.40	16.40	16.35	16.32	16.18	
10	16QAM	25	25	16.45	16.38	16.32	16.31	16.09	
10	16QAM	50	0	16.43	16.40	16.36	16.31	16.10	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	18.29	18.32	18.32	18.25	18.17	19.50
5	QPSK	1	12	18.29	18.32	18.27	18.24	18.11	
5	QPSK	1	24	18.28	18.31	18.29	18.29	18.05	
5	QPSK	12	0	17.52	17.41	17.39	17.35	17.13	18.5
5	QPSK	12	7	17.45	17.44	17.35	17.35	17.11	
5	QPSK	12	13	17.51	17.39	17.34	17.34	17.15	
5	QPSK	25	0	17.41	17.42	17.28	17.30	17.07	
5	16QAM	1	0	17.42	17.40	17.31	17.30	17.14	18.5
5	16QAM	1	12	17.41	17.49	17.34	17.31	17.11	
5	16QAM	1	24	17.44	17.43	17.38	17.38	17.12	
5	16QAM	12	0	16.42	16.52	16.35	16.32	16.09	17.5
5	16QAM	12	7	16.41	16.37	16.40	16.32	16.14	
5	16QAM	12	13	16.51	16.40	16.33	16.31	16.11	
5	16QAM	25	0	16.42	16.38	16.34	16.34	16.15	

<LTE Band 42_Ant Main_Sensor OFF>

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	
Frequency (MHz)				3560	3575	3590	
20	QPSK	1	0	20.82	20.89	20.85	22
20	QPSK	1	49	20.75	20.77	20.67	
20	QPSK	1	99	20.71	20.73	20.64	
20	QPSK	50	0	19.84	19.88	19.85	21
20	QPSK	50	24	19.74	19.84	19.78	
20	QPSK	50	50	19.74	19.82	19.82	
20	QPSK	100	0	19.74	19.79	19.76	21
20	16QAM	1	0	19.83	19.90	19.87	
20	16QAM	1	49	19.77	19.83	19.77	
20	16QAM	1	99	19.73	19.73	19.63	20
20	16QAM	50	0	18.78	18.86	18.77	
20	16QAM	50	24	18.74	18.84	18.84	
20	16QAM	50	50	18.83	18.84	18.82	
20	16QAM	100	0	18.85	18.85	18.84	
Channel				43165	43340	43515	
Frequency (MHz)				3557.5	3575	3592.5	
15	QPSK	1	0	20.63	20.73	20.67	22
15	QPSK	1	37	20.56	20.67	20.49	
15	QPSK	1	74	20.57	20.63	20.45	
15	QPSK	36	0	19.72	19.77	19.73	21
15	QPSK	36	20	19.55	19.68	19.62	
15	QPSK	36	39	19.60	19.71	19.70	
15	QPSK	75	0	19.57	19.63	19.66	
15	16QAM	1	0	19.72	19.74	19.74	21



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15	16QAM	1	37	19.66	19.64	19.60	20
15	16QAM	1	74	19.57	19.53	19.49	
15	16QAM	36	0	18.63	18.74	18.60	
15	16QAM	36	20	18.61	18.72	18.72	
15	16QAM	36	39	18.69	18.72	18.71	
15	16QAM	75	0	18.69	18.66	18.68	
Channel				43140	43340	43540	Tune-up limit (dBm)
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	20.66	20.77	20.68	22
10	QPSK	1	25	20.58	20.64	20.50	
10	QPSK	1	49	20.52	20.63	20.45	
10	QPSK	25	0	19.74	19.76	19.73	21
10	QPSK	25	12	19.62	19.67	19.59	
10	QPSK	25	25	19.59	19.62	19.65	
10	QPSK	50	0	19.60	19.59	19.57	
10	16QAM	1	0	19.63	19.71	19.76	21
10	16QAM	1	25	19.66	19.69	19.60	
10	16QAM	1	49	19.61	19.61	19.47	
10	16QAM	25	0	18.62	18.68	18.62	20
10	16QAM	25	12	18.57	18.65	18.68	
10	16QAM	25	25	18.69	18.67	18.68	
10	16QAM	50	0	18.65	18.69	18.72	
Channel				43115	43340	43565	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3575	3597.5	
5	QPSK	1	0	20.64	20.75	20.74	22
5	QPSK	1	12	20.58	20.63	20.50	
5	QPSK	1	24	20.57	20.58	20.52	
5	QPSK	12	0	19.69	19.72	19.73	21
5	QPSK	12	7	19.57	19.74	19.68	
5	QPSK	12	13	19.62	19.68	19.66	
5	QPSK	25	0	19.56	19.68	19.65	
5	16QAM	1	0	19.70	19.75	19.69	21
5	16QAM	1	12	19.67	19.66	19.67	
5	16QAM	1	24	19.63	19.54	19.46	
5	16QAM	12	0	18.60	18.76	18.67	20
5	16QAM	12	7	18.62	18.69	18.69	
5	16QAM	12	13	18.69	18.72	18.63	
5	16QAM	25	0	18.69	18.68	18.72	



<LTE Band 42_Ant Main_Sensor ON>

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	
Frequency (MHz)				3560	3575	3590	
20	QPSK	1	0	17.61	17.64	17.61	18.5
20	QPSK	1	49	17.52	17.56	17.52	
20	QPSK	1	99	17.58	17.61	17.57	
20	QPSK	50	0	16.73	16.78	16.73	17.5
20	QPSK	50	24	16.73	16.76	16.74	
20	QPSK	50	50	16.75	16.79	16.76	
20	QPSK	100	0	16.71	16.74	16.71	17.5
20	16QAM	1	0	16.80	16.82	16.79	
20	16QAM	1	49	16.79	16.81	16.78	
20	16QAM	1	99	16.75	16.77	16.74	16.5
20	16QAM	50	0	15.78	15.80	15.78	
20	16QAM	50	24	15.78	15.83	15.81	
20	16QAM	50	50	15.70	15.74	15.71	16.5
20	16QAM	100	0	15.74	15.77	15.75	
Channel				43165	43340	43515	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3575	3592.5	
15	QPSK	1	0	17.42	17.54	17.48	18.5
15	QPSK	1	37	17.35	17.41	17.41	
15	QPSK	1	74	17.38	17.50	17.43	
15	QPSK	36	0	16.56	16.66	16.58	17.5
15	QPSK	36	20	16.54	16.66	16.57	
15	QPSK	36	39	16.60	16.64	16.56	
15	QPSK	75	0	16.54	16.56	16.60	17.5
15	16QAM	1	0	16.68	16.68	16.65	
15	16QAM	1	37	16.67	16.68	16.65	
15	16QAM	1	74	16.57	16.62	16.58	16.5
15	16QAM	36	0	15.62	15.65	15.62	
15	16QAM	36	20	15.58	15.70	15.65	
15	16QAM	36	39	15.59	15.62	15.55	16.5
15	16QAM	75	0	15.54	15.58	15.59	
Channel				43140	43340	43540	Tune-up limit (dBm)
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	17.48	17.46	17.41	18.5
10	QPSK	1	25	17.35	17.46	17.37	
10	QPSK	1	49	17.41	17.44	17.37	
10	QPSK	25	0	16.59	16.65	16.53	17.5
10	QPSK	25	12	16.63	16.62	16.58	
10	QPSK	25	25	16.57	16.60	16.56	
10	QPSK	50	0	16.54	16.64	16.57	17.5
10	16QAM	1	0	16.62	16.64	16.66	
10	16QAM	1	25	16.65	16.63	16.62	
10	16QAM	1	49	16.59	16.57	16.63	16.5
10	16QAM	25	0	15.68	15.69	15.59	
10	16QAM	25	12	15.61	15.63	15.66	
10	16QAM	25	25	15.53	15.54	15.51	16.5
10	16QAM	50	0	15.62	15.57	15.62	
Channel				43115	43340	43565	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3575	3597.5	
5	QPSK	1	0	17.47	17.44	17.41	18.5
5	QPSK	1	12	17.36	17.44	17.35	
5	QPSK	1	24	17.38	17.43	17.47	
5	QPSK	12	0	16.61	16.66	16.55	17.5
5	QPSK	12	7	16.60	16.65	16.63	
5	QPSK	12	13	16.64	16.65	16.58	
5	QPSK	25	0	16.54	16.58	16.61	17.5
5	16QAM	1	0	16.69	16.64	16.67	



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5	16QAM	1	12	16.68	16.69	16.65	16.5
5	16QAM	1	24	16.55	16.58	16.62	
5	16QAM	12	0	15.64	15.61	15.62	
5	16QAM	12	7	15.58	15.63	15.71	
5	16QAM	12	13	15.50	15.59	15.60	
5	16QAM	25	0	15.57	15.58	15.59	

<LTE Band 42_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	20.67	20.78	20.91	22
20	QPSK	1	49	20.54	20.64	20.77	
20	QPSK	1	99	20.61	20.66	20.76	
20	QPSK	50	0	19.67	19.81	19.90	21
20	QPSK	50	24	19.62	19.78	19.88	
20	QPSK	50	50	19.66	19.73	19.88	
20	QPSK	100	0	19.72	19.76	19.87	21
20	16QAM	1	0	19.67	19.77	19.98	
20	16QAM	1	49	19.46	19.82	19.85	
20	16QAM	1	99	19.59	19.72	19.79	20
20	16QAM	50	0	18.67	18.81	18.94	
20	16QAM	50	24	18.62	18.81	18.89	
20	16QAM	50	50	18.72	18.76	18.86	
20	16QAM	100	0	18.71	18.79	18.89	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	20.65	20.75	20.81	22
15	QPSK	1	37	20.45	20.61	20.70	
15	QPSK	1	74	20.59	20.48	20.58	
15	QPSK	36	0	19.59	19.79	19.83	21
15	QPSK	36	20	19.55	19.71	19.68	
15	QPSK	36	39	19.54	19.54	19.68	
15	QPSK	75	0	19.58	19.56	19.75	21
15	16QAM	1	0	19.53	19.71	19.78	
15	16QAM	1	37	19.40	19.78	19.65	
15	16QAM	1	74	19.44	19.68	19.65	20
15	16QAM	36	0	18.67	18.73	18.92	
15	16QAM	36	20	18.46	18.64	18.81	
15	16QAM	36	39	18.65	18.58	18.70	
15	16QAM	75	0	18.67	18.68	18.71	
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	20.50	20.66	20.84	22
10	QPSK	1	25	20.35	20.63	20.72	
10	QPSK	1	49	20.60	20.63	20.64	
10	QPSK	25	0	19.52	19.62	19.80	21
10	QPSK	25	12	19.56	19.66	19.74	
10	QPSK	25	25	19.63	19.53	19.71	
10	QPSK	50	0	19.53	19.66	19.87	21
10	16QAM	1	0	19.47	19.69	19.92	
10	16QAM	1	25	19.29	19.70	19.83	
10	16QAM	1	49	19.44	19.68	19.76	20
10	16QAM	25	0	18.63	18.64	18.81	
10	16QAM	25	12	18.56	18.81	18.78	
10	16QAM	25	25	18.58	18.68	18.85	
10	16QAM	50	0	18.64	18.63	18.76	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	20.58	20.72	20.86	22



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5	QPSK	1	12	20.45	20.48	20.74	21
5	QPSK	1	24	20.54	20.56	20.68	
5	QPSK	12	0	19.65	19.65	19.87	
5	QPSK	12	7	19.47	19.65	19.77	
5	QPSK	12	13	19.53	19.69	19.73	
5	QPSK	25	0	19.60	19.71	19.77	21
5	16QAM	1	0	19.64	19.77	19.89	
5	16QAM	1	12	19.27	19.74	19.79	
5	16QAM	1	24	19.57	19.68	19.78	20
5	16QAM	12	0	18.49	18.80	18.91	
5	16QAM	12	7	18.48	18.67	18.89	
5	16QAM	12	13	18.56	18.58	18.71	
5	16QAM	25	0	18.60	18.60	18.77	

<LTE Band 42_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	17.64	17.67	17.69	18.5
20	QPSK	1	49	17.56	17.66	17.63	
20	QPSK	1	99	17.63	17.64	17.65	
20	QPSK	50	0	16.70	16.76	16.83	17.5
20	QPSK	50	24	16.64	16.75	16.81	
20	QPSK	50	50	16.69	16.73	16.82	
20	QPSK	100	0	16.72	16.72	16.80	17.5
20	16QAM	1	0	16.72	16.79	16.87	
20	16QAM	1	49	16.66	16.77	16.84	
20	16QAM	1	99	16.73	16.71	16.83	16.5
20	16QAM	50	0	15.63	15.75	15.85	
20	16QAM	50	24	15.64	15.75	15.86	
20	16QAM	50	50	15.72	15.71	15.81	
20	16QAM	100	0	15.76	15.76	15.82	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	17.59	17.60	17.64	18.5
15	QPSK	1	37	17.50	17.56	17.56	
15	QPSK	1	74	17.57	17.59	17.55	
15	QPSK	36	0	16.59	16.65	16.77	17.5
15	QPSK	36	20	16.55	16.69	16.75	
15	QPSK	36	39	16.62	16.63	16.72	
15	QPSK	75	0	16.64	16.67	16.70	17.5
15	16QAM	1	0	16.63	16.72	16.82	
15	16QAM	1	37	16.60	16.70	16.78	
15	16QAM	1	74	16.68	16.64	16.77	16.5
15	16QAM	36	0	15.52	15.64	15.76	
15	16QAM	36	20	15.58	15.64	15.77	
15	16QAM	36	39	15.62	15.62	15.70	
15	16QAM	75	0	15.66	15.68	15.73	
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	17.57	17.56	17.60	18.5
10	QPSK	1	25	17.50	17.58	17.52	
10	QPSK	1	49	17.54	17.56	17.59	
10	QPSK	25	0	16.64	16.68	16.75	17.5
10	QPSK	25	12	16.59	16.70	16.71	
10	QPSK	25	25	16.62	16.67	16.72	
10	QPSK	50	0	16.67	16.65	16.73	17.5
10	16QAM	1	0	16.65	16.74	16.78	
10	16QAM	1	25	16.59	16.67	16.73	
10	16QAM	1	49	16.67	16.64	16.77	



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10	16QAM	25	0	15.57	15.69	15.77	16.5
10	16QAM	25	12	15.53	15.69	15.79	
10	16QAM	25	25	15.65	15.60	15.72	
10	16QAM	50	0	15.65	15.70	15.75	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	17.58	17.59	17.63	18.5
5	QPSK	1	12	17.47	17.59	17.56	
5	QPSK	1	24	17.57	17.56	17.56	
5	QPSK	12	0	16.65	16.71	16.75	17.5
5	QPSK	12	7	16.57	16.65	16.72	
5	QPSK	12	13	16.62	16.62	16.74	
5	QPSK	25	0	16.64	16.61	16.75	
5	16QAM	1	0	16.62	16.71	16.79	17.5
5	16QAM	1	12	16.57	16.66	16.77	
5	16QAM	1	24	16.65	16.60	16.76	
5	16QAM	12	0	15.57	15.67	15.77	16.5
5	16QAM	12	7	15.53	15.65	15.75	
5	16QAM	12	13	15.61	15.64	15.73	
5	16QAM	25	0	15.67	15.70	15.73	

<LTE Band 43_Ant Main_Sensor OFF>

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	
Frequency (MHz)				3610	3650	3690	
20	QPSK	1	0	20.91	20.93	20.98	22
20	QPSK	1	49	20.75	20.80	20.83	
20	QPSK	1	99	20.67	20.71	20.74	
20	QPSK	50	0	19.96	19.94	20.01	21
20	QPSK	50	24	19.85	19.86	19.93	
20	QPSK	50	50	19.76	19.76	19.84	
20	QPSK	100	0	19.82	19.83	19.89	
20	16QAM	1	0	20.01	20.05	20.09	21
20	16QAM	1	49	19.86	19.86	19.91	
20	16QAM	1	99	19.69	19.73	19.76	
20	16QAM	50	0	18.94	18.95	19.01	20
20	16QAM	50	24	18.88	18.93	18.96	
20	16QAM	50	50	18.82	18.84	18.89	
20	16QAM	100	0	18.93	18.90	18.98	
Channel				43665	44090	44515	Tune-up limit (dBm)
Frequency (MHz)				3607.5	3650	3692.5	
15	QPSK	1	0	20.78	20.80	20.83	22
15	QPSK	1	37	20.62	20.70	20.65	
15	QPSK	1	74	20.53	20.51	20.57	
15	QPSK	36	0	19.80	19.74	19.89	21
15	QPSK	36	20	19.69	19.75	19.81	
15	QPSK	36	39	19.66	19.66	19.67	
15	QPSK	75	0	19.68	19.67	19.75	
15	16QAM	1	0	19.90	19.89	19.91	21
15	16QAM	1	37	19.74	19.76	19.73	
15	16QAM	1	74	19.49	19.55	19.62	
15	16QAM	36	0	18.78	18.79	18.90	20
15	16QAM	36	20	18.72	18.80	18.81	
15	16QAM	36	39	18.67	18.66	18.79	
15	16QAM	75	0	18.78	18.72	18.81	
Channel				43640	44090	44540	Tune-up limit (dBm)
Frequency (MHz)				3605	3650	3695	
10	QPSK	1	0	20.80	20.74	20.82	22
10	QPSK	1	25	20.65	20.68	20.70	
10	QPSK	1	49	20.51	20.56	20.60	



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10	QPSK	25	0	19.85	19.79	19.85	21
10	QPSK	25	12	19.74	19.74	19.73	
10	QPSK	25	25	19.58	19.63	19.67	
10	QPSK	50	0	19.62	19.68	19.75	
10	16QAM	1	0	19.91	19.88	19.96	21
10	16QAM	1	25	19.72	19.69	19.78	
10	16QAM	1	49	19.58	19.54	19.62	
10	16QAM	25	0	18.76	18.83	18.87	20
10	16QAM	25	12	18.75	18.80	18.82	
10	16QAM	25	25	18.69	18.69	18.72	
10	16QAM	50	0	18.81	18.73	18.85	
Channel				43615	44090	44565	Tune-up limit (dBm)
Frequency (MHz)				3602.5	3650	3697.5	
5	QPSK	1	0	20.77	20.80	20.80	22
5	QPSK	1	12	20.55	20.69	20.70	
5	QPSK	1	24	20.54	20.56	20.64	
5	QPSK	12	0	19.83	19.80	19.82	21
5	QPSK	12	7	19.75	19.71	19.74	
5	QPSK	12	13	19.65	19.62	19.65	
5	QPSK	25	0	19.62	19.71	19.76	
5	16QAM	1	0	19.84	19.89	19.93	21
5	16QAM	1	12	19.69	19.70	19.77	
5	16QAM	1	24	19.58	19.59	19.64	
5	16QAM	12	0	18.78	18.84	18.88	20
5	16QAM	12	7	18.77	18.78	18.82	
5	16QAM	12	13	18.68	18.71	18.73	
5	16QAM	25	0	18.80	18.72	18.82	

<LTE Band 43_Ant Main_Sensor ON>

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	
Frequency (MHz)				3610	3650	3690	
20	QPSK	1	0	18.00	17.99	18.09	18.5
20	QPSK	1	49	17.78	17.83	17.88	
20	QPSK	1	99	17.73	17.73	17.81	
20	QPSK	50	0	16.99	17.03	17.08	17.5
20	QPSK	50	24	16.97	16.98	17.06	
20	QPSK	50	50	16.90	16.91	17.00	
20	QPSK	100	0	16.93	16.93	17.00	
20	16QAM	1	0	17.08	17.11	17.16	17.5
20	16QAM	1	49	16.93	16.97	17.03	
20	16QAM	1	99	16.87	16.83	16.92	
20	16QAM	50	0	16.03	16.06	16.12	16.5
20	16QAM	50	24	15.97	15.96	16.05	
20	16QAM	50	50	15.92	15.95	16.01	
20	16QAM	100	0	15.98	15.97	16.03	
Channel				43665	44090	44515	Tune-up limit (dBm)
Frequency (MHz)				3607.5	3650	3692.5	
15	QPSK	1	0	17.83	17.86	17.90	18.5
15	QPSK	1	37	17.62	17.72	17.76	
15	QPSK	1	74	17.54	17.62	17.70	
15	QPSK	36	0	16.79	16.93	16.97	17.5
15	QPSK	36	20	16.77	16.80	16.94	
15	QPSK	36	39	16.75	16.80	16.85	
15	QPSK	75	0	16.77	16.78	16.89	
15	16QAM	1	0	16.91	16.93	17.00	17.5
15	16QAM	1	37	16.75	16.82	16.93	
15	16QAM	1	74	16.77	16.64	16.74	
15	16QAM	36	0	15.90	15.94	15.99	16.5
15	16QAM	36	20	15.81	15.84	15.86	



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15	16QAM	36	39	15.77	15.76	15.81	Tune-up limit (dBm)
15	16QAM	75	0	15.81	15.81	15.93	
Channel				43640	44090	44540	Tune-up limit (dBm)
Frequency (MHz)				3605	3650	3695	
10	QPSK	1	0	17.86	17.81	17.96	18.5
10	QPSK	1	25	17.64	17.66	17.70	
10	QPSK	1	49	17.55	17.61	17.71	
10	QPSK	25	0	16.87	16.90	16.95	17.5
10	QPSK	25	12	16.77	16.86	16.87	
10	QPSK	25	25	16.75	16.71	16.90	
10	QPSK	50	0	16.83	16.80	16.86	
10	16QAM	1	0	16.97	16.94	17.01	17.5
10	16QAM	1	25	16.73	16.80	16.90	
10	16QAM	1	49	16.75	16.73	16.82	16.5
10	16QAM	25	0	15.86	15.89	15.94	
10	16QAM	25	12	15.81	15.77	15.94	
10	16QAM	25	25	15.81	15.78	15.84	
10	16QAM	50	0	15.78	15.81	15.84	
Channel				43615	44090	44565	Tune-up limit (dBm)
Frequency (MHz)				3602.5	3650	3697.5	
5	QPSK	1	0	17.81	17.88	17.97	18.5
5	QPSK	1	12	17.58	17.63	17.77	
5	QPSK	1	24	17.55	17.54	17.70	
5	QPSK	12	0	16.80	16.83	16.91	17.5
5	QPSK	12	7	16.79	16.82	16.95	
5	QPSK	12	13	16.76	16.72	16.90	
5	QPSK	25	0	16.82	16.78	16.81	
5	16QAM	1	0	16.97	16.99	17.04	17.5
5	16QAM	1	12	16.77	16.86	16.91	
5	16QAM	1	24	16.77	16.72	16.79	
5	16QAM	12	0	15.83	15.88	16.02	16.5
5	16QAM	12	7	15.77	15.85	15.92	
5	16QAM	12	13	15.75	15.84	15.81	
5	16QAM	25	0	15.88	15.79	15.89	

<LTE Band 43_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				44690	45090	45490	Tune-up limit (dBm)
Frequency (MHz)				3710	3750	3790	
20	QPSK	1	0	21.06	20.91	20.66	22
20	QPSK	1	49	20.90	20.74	20.47	
20	QPSK	1	99	20.81	20.51	20.32	
20	QPSK	50	0	20.06	19.87	19.61	21
20	QPSK	50	24	19.99	19.81	19.52	
20	QPSK	50	50	19.93	19.63	19.46	
20	QPSK	100	0	19.96	19.78	19.53	
20	16QAM	1	0	20.16	20.01	19.71	21
20	16QAM	1	49	19.99	19.79	19.56	
20	16QAM	1	99	19.86	19.58	19.42	
20	16QAM	50	0	19.06	18.88	18.66	20
20	16QAM	50	24	19.03	18.82	18.58	
20	16QAM	50	50	18.95	18.64	18.51	
20	16QAM	100	0	19.04	18.80	18.56	
Channel				44665	45090	45515	Tune-up limit (dBm)
Frequency (MHz)				3707.5	3750	3792.5	
15	QPSK	1	0	20.93	20.74	20.66	22
15	QPSK	1	37	20.86	20.58	20.29	
15	QPSK	1	74	20.67	20.42	20.29	
15	QPSK	36	0	19.90	19.77	19.60	21



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15	QPSK	36	20	19.90	19.75	19.43	
15	QPSK	36	39	19.73	19.54	19.45	
15	QPSK	75	0	19.84	19.63	19.34	
15	16QAM	1	0	20.13	19.96	19.53	21
15	16QAM	1	37	19.96	19.75	19.36	
15	16QAM	1	74	19.85	19.43	19.35	
15	16QAM	36	0	18.90	18.81	18.53	20
15	16QAM	36	20	18.87	18.78	18.48	
15	16QAM	36	39	18.94	18.57	18.40	
15	16QAM	75	0	19.01	18.76	18.51	
Channel				44640	45090	45540	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	QPSK	1	0	20.93	20.88	20.47	22
10	QPSK	1	25	20.83	20.56	20.33	
10	QPSK	1	49	20.80	20.36	20.14	
10	QPSK	25	0	19.89	19.81	19.51	21
10	QPSK	25	12	19.93	19.80	19.51	
10	QPSK	25	25	19.74	19.55	19.40	
10	QPSK	50	0	19.78	19.73	19.36	21
10	16QAM	1	0	20.07	19.95	19.64	
10	16QAM	1	25	19.80	19.71	19.46	
10	16QAM	1	49	19.69	19.38	19.41	20
10	16QAM	25	0	19.06	18.78	18.47	
10	16QAM	25	12	18.96	18.71	18.44	
10	16QAM	25	25	18.80	18.53	18.32	
10	16QAM	50	0	19.03	18.61	18.55	
Channel				44615	45090	45565	Tune-up limit (dBm)
Frequency (MHz)				3702.5	3750	3797.5	
5	QPSK	1	0	21.05	20.71	20.61	22
5	QPSK	1	12	20.89	20.73	20.37	
5	QPSK	1	24	20.73	20.35	20.28	
5	QPSK	12	0	20.02	19.78	19.50	21
5	QPSK	12	7	19.85	19.69	19.51	
5	QPSK	12	13	19.75	19.59	19.29	
5	QPSK	25	0	19.96	19.61	19.48	21
5	16QAM	1	0	20.02	19.83	19.56	
5	16QAM	1	12	19.79	19.61	19.48	
5	16QAM	1	24	19.74	19.49	19.38	20
5	16QAM	12	0	19.01	18.82	18.56	
5	16QAM	12	7	18.97	18.64	18.58	
5	16QAM	12	13	18.77	18.55	18.43	
5	16QAM	25	0	18.91	18.68	18.46	

<LTE Band 43_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				44690	45090	45490	
Frequency (MHz)				3710	3750	3790	
20	QPSK	1	0	18.17	17.87	17.78	18.5
20	QPSK	1	49	17.98	17.73	17.66	
20	QPSK	1	99	17.90	17.59	17.66	
20	QPSK	50	0	17.14	16.94	16.81	17.5
20	QPSK	50	24	17.11	16.88	16.80	
20	QPSK	50	50	17.05	16.72	16.74	
20	QPSK	100	0	17.10	16.88	16.78	17.5
20	16QAM	1	0	17.22	16.99	16.83	
20	16QAM	1	49	17.08	16.84	16.67	
20	16QAM	1	99	17.00	16.65	16.67	16.5
20	16QAM	50	0	16.17	15.92	15.82	
20	16QAM	50	24	16.12	15.91	15.81	
20	16QAM	50	50	16.09	15.77	15.74	



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20	16QAM	100	0	16.13	15.91	15.79	Tune-up limit (dBm)
Channel				44665	45090	45515	
Frequency (MHz)				3707.5	3750	3792.5	
15	QPSK	1	0	18.07	17.76	17.73	18.5
15	QPSK	1	37	17.90	17.62	17.60	
15	QPSK	1	74	17.82	17.52	17.59	
15	QPSK	36	0	17.03	16.85	16.71	17.5
15	QPSK	36	20	17.05	16.78	16.73	
15	QPSK	36	39	16.99	16.63	16.64	
15	QPSK	75	0	16.99	16.81	16.69	
15	16QAM	1	0	17.11	16.92	16.78	17.5
15	16QAM	1	37	16.99	16.76	16.58	
15	16QAM	1	74	16.91	16.60	16.59	
15	16QAM	36	0	16.11	15.87	15.73	16.5
15	16QAM	36	20	16.06	15.85	15.72	
15	16QAM	36	39	16.04	15.71	15.65	
15	16QAM	75	0	16.06	15.83	15.74	
Channel				44640	45090	45540	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	QPSK	1	0	18.06	17.78	17.71	18.5
10	QPSK	1	25	17.88	17.67	17.59	
10	QPSK	1	49	17.80	17.49	17.61	
10	QPSK	25	0	17.07	16.88	16.76	17.5
10	QPSK	25	12	17.06	16.77	16.75	
10	QPSK	25	25	16.95	16.67	16.69	
10	QPSK	50	0	17.00	16.82	16.69	
10	16QAM	1	0	17.15	16.93	16.73	17.5
10	16QAM	1	25	16.99	16.74	16.59	
10	16QAM	1	49	16.92	16.55	16.62	
10	16QAM	25	0	16.12	15.85	15.76	16.5
10	16QAM	25	12	16.06	15.85	15.70	
10	16QAM	25	25	16.01	15.66	15.64	
10	16QAM	50	0	16.02	15.84	15.68	
Channel				44615	45090	45565	Tune-up limit (dBm)
Frequency (MHz)				3702.5	3750	3797.5	
5	QPSK	1	0	18.07	17.81	17.73	18.5
5	QPSK	1	12	17.93	17.64	17.55	
5	QPSK	1	24	17.80	17.54	17.59	
5	QPSK	12	0	17.04	16.85	16.70	17.5
5	QPSK	12	7	17.05	16.83	16.69	
5	QPSK	12	13	17.00	16.63	16.69	
5	QPSK	25	0	17.02	16.79	16.67	
5	16QAM	1	0	17.11	16.91	16.76	17.5
5	16QAM	1	12	17.02	16.79	16.62	
5	16QAM	1	24	16.89	16.58	16.59	
5	16QAM	12	0	16.12	15.84	15.76	16.5
5	16QAM	12	7	16.03	15.82	15.70	
5	16QAM	12	13	16.03	15.70	15.64	
5	16QAM	25	0	16.02	15.80	15.73	



<LTE Band 48_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	20.84	20.85	20.80	21.01	22
20	QPSK	1	49	20.73	20.74	20.65	20.87	
20	QPSK	1	99	20.71	20.67	20.61	20.74	
20	QPSK	50	0	19.87	19.88	19.85	20.01	21
20	QPSK	50	24	19.85	19.84	19.80	19.97	
20	QPSK	50	50	19.82	19.77	19.75	19.90	
20	QPSK	100	0	19.84	19.84	19.79	19.95	21
20	16QAM	1	0	19.95	19.90	19.90	20.12	
20	16QAM	1	49	19.80	19.78	19.76	19.96	
20	16QAM	1	99	19.76	19.75	19.68	19.87	20
20	16QAM	50	0	18.87	18.90	18.86	19.04	
20	16QAM	50	24	18.89	18.84	18.83	18.99	
20	16QAM	50	50	18.85	18.83	18.78	18.93	20
20	16QAM	100	0	18.85	18.83	18.80	18.96	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	20.65	20.69	20.67	20.81	22
15	QPSK	1	37	20.63	20.64	20.48	20.73	
15	QPSK	1	74	20.54	20.54	20.51	20.56	
15	QPSK	36	0	19.72	19.82	19.66	19.89	21
15	QPSK	36	20	19.77	19.74	19.79	19.93	
15	QPSK	36	39	19.70	19.63	19.74	19.84	
15	QPSK	75	0	19.78	19.72	19.59	19.77	21
15	16QAM	1	0	19.76	19.89	19.72	20.01	
15	16QAM	1	37	19.68	19.65	19.62	19.89	
15	16QAM	1	74	19.59	19.66	19.62	19.70	20
15	16QAM	36	0	18.75	18.86	18.72	18.85	
15	16QAM	36	20	18.74	18.78	18.70	18.93	
15	16QAM	36	39	18.77	18.72	18.76	18.88	20
15	16QAM	75	0	18.71	18.71	18.69	18.91	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	20.75	20.77	20.70	20.91	22
10	QPSK	1	25	20.58	20.60	20.52	20.67	
10	QPSK	1	49	20.69	20.65	20.56	20.60	
10	QPSK	25	0	19.71	19.75	19.65	19.83	21
10	QPSK	25	12	19.85	19.68	19.80	19.97	
10	QPSK	25	25	19.73	19.57	19.74	19.80	
10	QPSK	50	0	19.83	19.80	19.59	19.78	21
10	16QAM	1	0	19.79	19.74	19.73	20.09	
10	16QAM	1	25	19.75	19.65	19.67	19.77	
10	16QAM	1	49	19.75	19.55	19.54	19.70	20
10	16QAM	25	0	18.73	18.81	18.75	18.86	
10	16QAM	25	12	18.78	18.76	18.82	18.93	
10	16QAM	25	25	18.67	18.68	18.75	18.77	20
10	16QAM	50	0	18.65	18.76	18.76	18.78	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	20.77	20.80	20.64	20.89	22
5	QPSK	1	12	20.63	20.57	20.53	20.82	
5	QPSK	1	24	20.63	20.54	20.55	20.60	
5	QPSK	12	0	19.71	19.71	19.76	19.86	21
5	QPSK	12	7	19.74	19.66	19.70	19.85	
5	QPSK	12	13	19.78	19.65	19.67	19.83	
5	QPSK	25	0	19.79	19.72	19.70	19.92	21
5	16QAM	1	0	19.79	19.74	19.89	20.12	



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5	16QAM	1	12	19.69	19.60	19.73	19.82	20
5	16QAM	1	24	19.67	19.60	19.53	19.73	
5	16QAM	12	0	18.81	18.79	18.74	18.88	
5	16QAM	12	7	18.80	18.82	18.82	18.97	
5	16QAM	12	13	18.75	18.76	18.68	18.82	
5	16QAM	25	0	18.72	18.83	18.76	18.94	

<LTE Band 48_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	16.77	16.78	16.76	16.79	18.5
20	QPSK	1	49	16.76	16.74	16.75	16.77	
20	QPSK	1	99	16.61	16.60	16.61	16.72	
20	QPSK	50	0	15.66	15.69	15.64	15.78	17.5
20	QPSK	50	24	15.65	15.65	15.62	15.76	
20	QPSK	50	50	15.56	15.57	15.58	15.71	
20	QPSK	100	0	15.64	15.64	15.62	15.74	
20	16QAM	1	0	15.61	15.59	15.60	15.59	17.5
20	16QAM	1	49	15.67	15.63	15.61	15.60	
20	16QAM	1	99	15.68	15.63	15.59	15.53	
20	16QAM	50	0	14.80	14.73	14.76	14.76	16.5
20	16QAM	50	24	14.81	14.75	14.71	14.69	
20	16QAM	50	50	14.75	14.66	14.66	14.61	
20	16QAM	100	0	14.78	14.73	14.68	14.69	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	16.70	16.69	16.70	16.73	18.5
15	QPSK	1	37	16.58	16.58	16.51	16.57	
15	QPSK	1	74	16.51	16.53	16.52	16.52	
15	QPSK	36	0	15.61	15.61	15.55	15.69	17.5
15	QPSK	36	20	15.59	15.59	15.55	15.71	
15	QPSK	36	39	15.59	15.51	15.50	15.63	
15	QPSK	75	0	15.59	15.57	15.55	15.67	
15	16QAM	1	0	15.52	15.53	15.55	15.51	17.5
15	16QAM	1	37	15.57	15.55	15.51	15.51	
15	16QAM	1	74	15.58	15.56	15.59	15.58	
15	16QAM	36	0	14.75	14.68	14.70	14.70	16.5
15	16QAM	36	20	14.71	14.65	14.66	14.59	
15	16QAM	36	39	14.65	14.56	14.61	14.56	
15	16QAM	75	0	14.69	14.67	14.63	14.61	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	16.67	16.72	16.68	16.74	18.5
10	QPSK	1	25	16.57	16.55	16.58	16.57	
10	QPSK	1	49	16.54	16.54	16.53	16.52	
10	QPSK	25	0	15.60	15.64	15.55	15.69	17.5
10	QPSK	25	12	15.55	15.59	15.55	15.68	
10	QPSK	25	25	15.59	15.50	15.50	15.62	
10	QPSK	50	0	15.54	15.55	15.55	15.68	
10	16QAM	1	0	15.52	15.54	15.50	15.53	17.5
10	16QAM	1	25	15.62	15.58	15.55	15.54	
10	16QAM	1	49	15.59	15.54	15.52	15.56	
10	16QAM	25	0	14.72	14.63	14.67	14.71	16.5
10	16QAM	25	12	14.73	14.69	14.63	14.62	
10	16QAM	25	25	14.65	14.58	14.60	14.56	
10	16QAM	50	0	14.73	14.63	14.59	14.60	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	16.70	16.73	16.71	16.69	18.5



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5	QPSK	1	12	16.50	16.59	16.59	16.57	17.5
5	QPSK	1	24	16.56	16.51	16.51	16.55	
5	QPSK	12	0	15.59	15.60	15.56	15.72	
5	QPSK	12	7	15.55	15.59	15.57	15.67	
5	QPSK	12	13	15.58	15.51	15.58	15.61	
5	QPSK	25	0	15.56	15.59	15.53	15.68	17.5
5	16QAM	1	0	15.51	15.51	15.55	15.51	
5	16QAM	1	12	15.62	15.54	15.52	15.51	
5	16QAM	1	24	15.60	15.55	15.53	15.54	16.5
5	16QAM	12	0	14.71	14.64	14.68	14.66	
5	16QAM	12	7	14.72	14.67	14.62	14.63	
5	16QAM	12	13	14.65	14.56	14.60	14.55	
5	16QAM	25	0	14.71	14.64	14.59	14.60	



<SAR test exclusion table>

General Note:

- The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
- Maximum power is the source-based time-average power and represents the maximum RF output power among production units
- Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
- Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
- Per KDB 447498 D01v06, at 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following
 - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100 MHz to 1500 MHz
 - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz

Exposure Position	Wireless Interface	WCDMA Band V	WCDMA Band IV	WCDMA Band II	LTE Band 71	LTE Band 12	LTE Band 13	LTE Band 14	LTE Band 17	LTE Band 5	LTE Band 26	LTE Band 4	LTE Band 66	LTE Band 2	LTE Band 25	LTE Band 30	LTE Band 7	LTE Band 38	LTE Band 41	LTE Band 42	LTE Band 48	LTE Band 43
	Calculated Frequency (MHz)	846	1750	1907	695	715	784	795	713	848	848	1754	1779	1909	1914	2312	2567	2617	2687	3597	3697	3800
	Maximum power (dBm)	25.0	25.0	25.0	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	23.0	24.0	24.0	24.0	22.0	22.0	22.0
	Maximum rated power(mW)	316.23	316.23	316.23	281.84	281.84	281.84	281.84	281.84	281.84	281.84	281.84	281.84	281.84	281.84	199.53	251.19	251.19	251.19	158.49	158.49	158.49
Back	Separation distance(mm)	6.1																				
	exclusion threshold	47.8	68.7	71.7	38.6	39.1	41.0	41.3	39.1	42.6	42.6	61.3	61.7	63.9	64.0	49.8	66.1	66.7	67.6	49.4	50.0	50.7
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Top Edge	Separation distance(mm)	5.0																				
	exclusion threshold	58.2	83.7	87.3	47.0	47.7	49.9	50.3	47.6	51.9	51.9	74.7	75.2	77.9	78.0	60.7	80.5	81.3	82.4	60.1	61.0	61.8
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Right Edge	Separation distance(mm)	19.4																				
	exclusion threshold	15.0	21.6	22.5	12.1	12.3	12.9	13.0	12.3	13.4	13.4	19.2	19.4	20.1	20.1	15.6	20.8	21.0	21.2	15.5	15.7	15.9
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bottom Edge	Separation distance(mm)	186.0																				
	exclusion threshold	930.0	1473.0	1469.0	810.0	826.0	880.0	889.0	824.0	932.0	932.0	1473.0	1472.0	1469.0	1468.0	1459.0	1454.0	1453.0	1452.0	1439.0	1438.0	1437.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Left Edge	Separation distance(mm)	196.6																				
	exclusion threshold	990.0	1579.0	1575.0	859.0	876.0	936.0	945.0	874.0	992.0	992.0	1579.0	1578.0	1575.0	1574.0	1565.0	1560.0	1559.0	1558.0	1545.0	1544.0	1543.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Bottom Side	Separation distance(mm)	5.0																				
	exclusion threshold	58.2	83.7	87.3	47.0	47.7	49.9	50.3	47.6	51.9	51.9	74.7	75.2	77.9	78.0	60.7	80.5	81.3	82.4	60.1	61.0	61.8
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

13. 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.

UMTS Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ 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.

**13.1 Body SAR****<WCDMA SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	User Scenario	Power Reduction	Ch.	Freq. (MHz)	Antenna 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)
	WCDMA II_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	9538	1907.6	AWAN	15.13	16.00	1.222	0.08	0.904	1.105
	WCDMA II_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	9262	1852.4	AWAN	15.07	16.00	1.239	-0.08	0.909	1.126
1	WCDMA II_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	9400	1880	AWAN	15.08	16.00	1.236	-0.01	0.969	1.198
	WCDMA II_Ant Main	RMC 12.2Kbps	Bottom Side	28mm	Laptop	OFF	9538	1907.6	AWAN	23.10	25.00	1.549	0.08	0.001	0.002
	WCDMA II_Ant Main	RMC 12.2Kbps	Back	0mm	Tablet	ON	9538	1907.6	AWAN	15.13	16.00	1.222	0.01	0.651	0.796
	WCDMA II_Ant Main	RMC 12.2Kbps	Right Edge	0mm	Tablet	OFF	9538	1907.6	AWAN	23.10	25.00	1.549	0	0.096	0.149
	WCDMA II_Ant Main	RMC 12.2Kbps	Top Edge	0mm	Tablet	ON	9538	1907.6	AWAN	15.13	16.00	1.222	-0.08	0.614	0.750
	WCDMA II_Ant Main	RMC 12.2Kbps	Back	28mm	Tablet	OFF	9538	1907.6	AWAN	23.10	25.00	1.549	0.01	0.001	0.002
	WCDMA II_Ant Main	RMC 12.2Kbps	Top Edge	26mm	Tablet	OFF	9538	1907.6	AWAN	23.10	25.00	1.549	-0.08	0.001	0.002
	WCDMA II_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	9400	1880	HTK	15.08	16.00	1.236	0.1	0.603	0.745
	WCDMA IV_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	1513	1752.6	AWAN	13.70	14.00	1.072	0.12	0.880	0.943
2	WCDMA IV_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	1312	1712.4	AWAN	13.65	14.00	1.084	0.18	1.010	1.095
	WCDMA IV_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	1413	1732.6	AWAN	13.63	14.00	1.089	0.14	0.986	1.074
	WCDMA IV_Ant Main	RMC 12.2Kbps	Bottom Side	28mm	Laptop	OFF	1513	1752.6	AWAN	23.15	25.00	1.531	0.1	0.001	0.002
	WCDMA IV_Ant Main	RMC 12.2Kbps	Back	0mm	Tablet	ON	1513	1752.6	AWAN	13.70	14.00	1.072	0.08	0.470	0.504
	WCDMA IV_Ant Main	RMC 12.2Kbps	Right Edge	0mm	Tablet	OFF	1513	1752.6	AWAN	23.15	25.00	1.531	0	0.060	0.092
	WCDMA IV_Ant Main	RMC 12.2Kbps	Top Edge	0mm	Tablet	ON	1513	1752.6	AWAN	13.70	14.00	1.072	-0.03	0.690	0.740
	WCDMA IV_Ant Main	RMC 12.2Kbps	Back	28mm	Tablet	OFF	1513	1752.6	AWAN	23.15	25.00	1.531	-0.18	0.001	0.002
	WCDMA IV_Ant Main	RMC 12.2Kbps	Top Edge	26mm	Tablet	OFF	1513	1752.6	AWAN	23.15	25.00	1.531	0.12	0.001	0.002
	WCDMA IV_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	1312	1712.4	HTK	13.65	14.00	1.084	-0.05	0.503	0.545
	WCDMA V_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	4233	846.6	AWAN	21.36	21.50	1.033	0.08	1.010	1.043
3	WCDMA V_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	4132	826.4	AWAN	21.10	21.50	1.096	0.03	1.090	1.195
	WCDMA V_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	4182	836.4	AWAN	21.19	21.50	1.074	0.01	1.060	1.138
	WCDMA V_Ant Main	RMC 12.2Kbps	Bottom Side	28mm	Laptop	OFF	4233	846.6	AWAN	23.18	25.00	1.521	0.08	0.066	0.100
	WCDMA V_Ant Main	RMC 12.2Kbps	Back	0mm	Tablet	ON	4233	846.6	AWAN	21.36	21.50	1.033	0.03	1.020	1.054
	WCDMA V_Ant Main	RMC 12.2Kbps	Back	0mm	Tablet	ON	4132	826.4	AWAN	21.10	21.50	1.096	-0.08	0.999	1.095
	WCDMA V_Ant Main	RMC 12.2Kbps	Back	0mm	Tablet	ON	4182	836.4	AWAN	21.19	21.50	1.074	-0.08	1.020	1.095
	WCDMA V_Ant Main	RMC 12.2Kbps	Right Edge	0mm	Tablet	OFF	4233	846.6	AWAN	23.18	25.00	1.521	0.1	0.104	0.158
	WCDMA V_Ant Main	RMC 12.2Kbps	Top Edge	0mm	Tablet	ON	4233	846.6	AWAN	21.36	21.50	1.033	-0.18	0.284	0.293
	WCDMA V_Ant Main	RMC 12.2Kbps	Back	28mm	Tablet	OFF	4233	846.6	AWAN	23.18	25.00	1.521	-0.17	0.060	0.091
	WCDMA V_Ant Main	RMC 12.2Kbps	Top Edge	26mm	Tablet	OFF	4233	846.6	AWAN	23.18	25.00	1.521	0.14	0.001	0.002
	WCDMA V_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	4132	826.4	HTK	21.10	21.50	1.096	0.12	1.080	1.184
	WCDMA V_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	4182	836.4	HTK	21.19	21.50	1.074	0.08	1.010	1.085
	WCDMA V_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	4233	846.6	HTK	21.36	21.50	1.033	0.1	1.130	1.167



<LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	User Scenario	Power Reduction	Ch.	Freq. (MHz)	Antenna 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)
	LTE Band 7_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	20850	2510	AWAN	15.76	16.00	1.057	-0.17	0.921	0.973
	LTE Band 7_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	21100	2535	AWAN	15.72	16.00	1.067	-0.03	0.928	0.990
	LTE Band 7_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	21350	2560	AWAN	15.62	16.00	1.091	0.14	0.901	0.983
	LTE Band 7_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	20850	2510	AWAN	14.93	15.00	1.016	0.11	0.739	0.751
	LTE Band 7_Ant Main	20M	QPSK	100	0	Bottom Side	0mm	Laptop	ON	20850	2510	AWAN	14.83	15.00	1.040	-0.05	0.750	0.780
	LTE Band 7_Ant Main	20M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	20850	2510	AWAN	22.54	24.00	1.400	-0.05	0.056	0.078
	LTE Band 7_Ant Main	20M	QPSK	50	0	Bottom Side	28mm	Laptop	OFF	20850	2510	AWAN	21.68	23.00	1.355	0.02	0.046	0.062
	LTE Band 7_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	20850	2510	AWAN	15.76	16.00	1.057	0.18	0.776	0.820
	LTE Band 7_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	21100	2535	AWAN	15.72	16.00	1.067	0.14	0.747	0.797
	LTE Band 7_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	21350	2560	AWAN	15.62	16.00	1.091	-0.17	0.740	0.807
	LTE Band 7_Ant Main	20M	QPSK	50	0	Back	0mm	Tablet	ON	20850	2510	AWAN	14.93	15.00	1.016	0.17	0.764	0.776
	LTE Band 7_Ant Main	20M	QPSK	100	0	Back	0mm	Tablet	ON	20850	2510	AWAN	14.83	15.00	1.040	-0.05	0.683	0.710
	LTE Band 7_Ant Main	20M	QPSK	1	0	Right Edge	0mm	Tablet	OFF	20850	2510	AWAN	22.54	24.00	1.400	0.01	0.153	0.214
	LTE Band 7_Ant Main	20M	QPSK	50	0	Right Edge	0mm	Tablet	OFF	20850	2510	AWAN	21.68	23.00	1.355	0	0.133	0.180
	LTE Band 7_Ant Main	20M	QPSK	1	0	Top Edge	0mm	Tablet	ON	20850	2510	AWAN	15.76	16.00	1.057	-0.17	0.352	0.372
	LTE Band 7_Ant Main	20M	QPSK	50	0	Top Edge	0mm	Tablet	ON	20850	2510	AWAN	14.93	15.00	1.016	0.04	0.282	0.287
	LTE Band 7_Ant Main	20M	QPSK	1	0	Back	28mm	Tablet	OFF	20850	2510	AWAN	22.54	24.00	1.400	0.18	0.062	0.087
	LTE Band 7_Ant Main	20M	QPSK	50	0	Back	28mm	Tablet	OFF	20850	2510	AWAN	21.68	23.00	1.355	0.03	0.051	0.069
	LTE Band 7_Ant Main	20M	QPSK	1	0	Top Edge	26mm	Tablet	OFF	20850	2510	AWAN	22.54	24.00	1.400	-0.17	0.052	0.073
	LTE Band 7_Ant Main	20M	QPSK	50	0	Top Edge	26mm	Tablet	OFF	20850	2510	AWAN	21.68	23.00	1.355	0.03	0.043	0.058
	LTE Band 7_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	20850	2510	HTK	15.76	16.00	1.057	-0.01	0.938	0.991
4	LTE Band 7_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	21100	2535	HTK	15.72	16.00	1.067	0.04	0.941	1.004
	LTE Band 7_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	21350	2560	HTK	15.62	16.00	1.091	-0.08	0.872	0.951
5	LTE Band 12_Ant Main	10M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	23095	707.5	AWAN	21.31	22.50	1.315	-0.02	0.888	1.168
	LTE Band 12_Ant Main	10M	QPSK	25	0	Bottom Side	0mm	Laptop	ON	23095	707.5	AWAN	20.45	21.50	1.274	0.08	0.736	0.938
	LTE Band 12_Ant Main	10M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	23095	707.5	AWAN	20.44	21.50	1.276	0.01	0.674	0.860
	LTE Band 12_Ant Main	10M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	23095	707.5	AWAN	23.55	24.50	1.245	-0.05	0.071	0.088
	LTE Band 12_Ant Main	10M	QPSK	25	0	Bottom Side	28mm	Laptop	OFF	23095	707.5	AWAN	22.61	23.50	1.227	0.11	0.057	0.070
	LTE Band 12_Ant Main	10M	QPSK	1	0	Back	0mm	Tablet	ON	23095	707.5	AWAN	21.31	22.50	1.315	0.03	0.803	1.056
	LTE Band 12_Ant Main	10M	QPSK	25	0	Back	0mm	Tablet	ON	23095	707.5	AWAN	20.45	21.50	1.274	-0.08	0.662	0.843
	LTE Band 12_Ant Main	10M	QPSK	50	0	Back	0mm	Tablet	ON	23095	707.5	AWAN	20.44	21.50	1.276	-0.08	0.694	0.886
	LTE Band 12_Ant Main	10M	QPSK	1	0	Right Edge	0mm	Tablet	OFF	23095	707.5	AWAN	23.55	24.50	1.245	0.1	0.136	0.169
	LTE Band 12_Ant Main	10M	QPSK	25	0	Right Edge	0mm	Tablet	OFF	23095	707.5	AWAN	22.61	23.50	1.227	-0.18	0.114	0.140
	LTE Band 12_Ant Main	10M	QPSK	1	0	Top Edge	0mm	Tablet	ON	23095	707.5	AWAN	21.31	22.50	1.315	0.1	0.189	0.249
	LTE Band 12_Ant Main	10M	QPSK	25	0	Top Edge	0mm	Tablet	ON	23095	707.5	AWAN	20.45	21.50	1.274	0.12	0.155	0.197
	LTE Band 12_Ant Main	10M	QPSK	1	0	Back	28mm	Tablet	OFF	23095	707.5	AWAN	23.55	24.50	1.245	0.01	0.070	0.087
	LTE Band 12_Ant Main	10M	QPSK	25	0	Back	28mm	Tablet	OFF	23095	707.5	AWAN	22.61	23.50	1.227	-0.09	0.056	0.069
	LTE Band 12_Ant Main	10M	QPSK	1	0	Top Edge	26mm	Tablet	OFF	23095	707.5	AWAN	23.55	24.50	1.245	-0.17	0.001	0.001
	LTE Band 12_Ant Main	10M	QPSK	25	0	Top Edge	26mm	Tablet	OFF	23095	707.5	AWAN	22.61	23.50	1.227	0.04	0.001	0.001
	LTE Band 12_Ant Main	10M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	23095	707.5	HTK	21.31	22.50	1.315	0.08	0.617	0.811
	LTE Band 13_Ant Main	10M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	23230	782	AWAN	21.46	22.00	1.132	0.13	0.807	0.914
	LTE Band 13_Ant Main	10M	QPSK	25	0	Bottom Side	0mm	Laptop	ON	23230	782	AWAN	20.50	21.00	1.122	0.12	0.674	0.756
	LTE Band 13_Ant Main	10M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	23230	782	AWAN	20.42	21.00	1.143	0.03	0.683	0.781
	LTE Band 13_Ant Main	10M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	23230	782	AWAN	23.40	24.50	1.288	-0.01	0.076	0.098
	LTE Band 13_Ant Main	10M	QPSK	25	0	Bottom Side	28mm	Laptop	OFF	23230	782	AWAN	22.51	23.50	1.256	-0.07	0.062	0.078
6	LTE Band 13_Ant Main	10M	QPSK	1	0	Back	0mm	Tablet	ON	23230	782	AWAN	21.46	22.00	1.132	-0.04	0.910	1.030



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	LTE Band 13_Ant Main	10M	QPSK	25	0	Back	0mm	Tablet	ON	23230	782	AWAN	20.50	21.00	1.122	0.18	0.751	0.843
	LTE Band 13_Ant Main	10M	QPSK	50	0	Back	0mm	Tablet	ON	23230	782	AWAN	20.42	21.00	1.143	0.16	0.747	0.854
	LTE Band 13_Ant Main	10M	QPSK	1	0	Right Edge	0mm	Tablet	OFF	23230	782	AWAN	23.40	24.50	1.288	-0.1	0.111	0.143
	LTE Band 13_Ant Main	10M	QPSK	25	0	Right Edge	0mm	Tablet	OFF	23230	782	AWAN	22.51	23.50	1.256	0.07	0.093	0.117
	LTE Band 13_Ant Main	10M	QPSK	1	0	Top Edge	0mm	Tablet	ON	23230	782	AWAN	21.46	22.00	1.132	0.18	0.402	0.455
	LTE Band 13_Ant Main	10M	QPSK	25	0	Top Edge	0mm	Tablet	ON	23230	782	AWAN	20.50	21.00	1.122	-0.1	0.335	0.376
	LTE Band 13_Ant Main	10M	QPSK	1	0	Back	28mm	Tablet	OFF	23230	782	AWAN	23.40	24.50	1.288	-0.08	0.086	0.111
	LTE Band 13_Ant Main	10M	QPSK	25	0	Back	28mm	Tablet	OFF	23230	782	AWAN	22.51	23.50	1.256	0.07	0.070	0.088
	LTE Band 13_Ant Main	10M	QPSK	1	0	Top Edge	26mm	Tablet	OFF	23230	782	AWAN	23.40	24.50	1.288	0.06	0.001	0.001
	LTE Band 13_Ant Main	10M	QPSK	25	0	Top Edge	26mm	Tablet	OFF	23230	782	AWAN	22.51	23.50	1.256	-0.02	0.001	0.001
	LTE Band 13_Ant Main	10M	QPSK	1	0	Back	0mm	Laptop	ON	23230	782	HTK	21.46	22.00	1.132	0.01	0.899	1.018
7	LTE Band 14_Ant Main	10M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	23330	793	AWAN	21.40	22.00	1.148	0.08	0.951	1.092
	LTE Band 14_Ant Main	10M	QPSK	25	0	Bottom Side	0mm	Laptop	ON	23330	793	AWAN	20.46	21.00	1.132	0.01	0.791	0.895
	LTE Band 14_Ant Main	10M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	23330	793	AWAN	20.43	21.00	1.140	0.1	0.743	0.847
	LTE Band 14_Ant Main	10M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	23330	793	AWAN	23.43	24.50	1.279	-0.08	0.091	0.116
	LTE Band 14_Ant Main	10M	QPSK	25	0	Bottom Side	28mm	Laptop	OFF	23330	793	AWAN	22.57	23.50	1.239	0.07	0.075	0.093
	LTE Band 14_Ant Main	10M	QPSK	1	0	Back	0mm	Tablet	ON	23330	793	AWAN	21.40	22.00	1.148	-0.17	0.934	1.072
	LTE Band 14_Ant Main	10M	QPSK	25	0	Back	0mm	Tablet	ON	23330	793	AWAN	20.46	21.00	1.132	0.04	0.765	0.866
	LTE Band 14_Ant Main	10M	QPSK	50	0	Back	0mm	Tablet	ON	23330	793	AWAN	20.43	21.00	1.140	-0.01	0.781	0.890
	LTE Band 14_Ant Main	10M	QPSK	1	0	Right Edge	0mm	Tablet	OFF	23330	793	AWAN	23.43	24.50	1.279	-0.08	0.113	0.145
	LTE Band 14_Ant Main	10M	QPSK	25	0	Right Edge	0mm	Tablet	OFF	23330	793	AWAN	22.57	23.50	1.239	0.05	0.091	0.113
	LTE Band 14_Ant Main	10M	QPSK	1	0	Top Edge	0mm	Tablet	ON	23330	793	AWAN	21.40	22.00	1.148	0.06	0.429	0.492
	LTE Band 14_Ant Main	10M	QPSK	25	0	Top Edge	0mm	Tablet	ON	23330	793	AWAN	20.46	21.00	1.132	-0.09	0.345	0.391
	LTE Band 14_Ant Main	10M	QPSK	1	0	Back	28mm	Tablet	OFF	23330	793	AWAN	23.43	24.50	1.279	0.13	0.065	0.083
	LTE Band 14_Ant Main	10M	QPSK	25	0	Back	28mm	Tablet	OFF	23330	793	AWAN	22.57	23.50	1.239	-0.06	0.053	0.066
	LTE Band 14_Ant Main	10M	QPSK	1	0	Top Edge	26mm	Tablet	OFF	23330	793	AWAN	23.43	24.50	1.279	0.03	0.001	0.001
	LTE Band 14_Ant Main	10M	QPSK	25	0	Top Edge	26mm	Tablet	OFF	23330	793	AWAN	22.57	23.50	1.239	0.01	0.001	0.001
	LTE Band 14_Ant Main	10M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	23330	793	HTK	21.40	22.00	1.148	-0.08	0.858	0.985
	LTE Band 25_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	26590	1905	AWAN	14.62	15.50	1.225	0.14	0.820	1.005
	LTE Band 25_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	26140	1860	AWAN	14.53	15.50	1.250	-0.17	0.872	1.090
8	LTE Band 25_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	26340	1880	AWAN	14.55	15.50	1.245	0.01	0.908	1.130
	LTE Band 25_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	26590	1905	AWAN	13.68	14.50	1.208	0.17	0.654	0.790
	LTE Band 25_Ant Main	20M	QPSK	100	0	Bottom Side	0mm	Laptop	ON	26590	1905	AWAN	13.67	14.50	1.211	0.1	0.511	0.619
	LTE Band 25_Ant Main	20M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	26590	1905	AWAN	23.48	24.50	1.265	0.16	0.001	0.001
	LTE Band 25_Ant Main	20M	QPSK	50	0	Bottom Side	28mm	Laptop	OFF	26590	1905	AWAN	22.60	23.50	1.230	0.15	0.001	0.001
	LTE Band 25_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	26590	1905	AWAN	14.62	15.50	1.225	-0.17	0.596	0.730
	LTE Band 25_Ant Main	20M	QPSK	50	0	Back	0mm	Tablet	ON	26590	1905	AWAN	13.68	14.50	1.208	0.04	0.493	0.596
	LTE Band 25_Ant Main	20M	QPSK	1	0	Right Edge	0mm	Tablet	OFF	26590	1905	AWAN	23.48	24.50	1.265	0	0.100	0.127
	LTE Band 25_Ant Main	20M	QPSK	50	0	Right Edge	0mm	Tablet	OFF	26590	1905	AWAN	22.60	23.50	1.230	0	0.085	0.105
	LTE Band 25_Ant Main	20M	QPSK	1	0	Top Edge	0mm	Tablet	ON	26590	1905	AWAN	14.62	15.50	1.225	0.05	0.620	0.760
	LTE Band 25_Ant Main	20M	QPSK	50	0	Top Edge	0mm	Tablet	ON	26590	1905	AWAN	13.68	14.50	1.208	0.06	0.540	0.652
	LTE Band 25_Ant Main	20M	QPSK	1	0	Back	28mm	Tablet	OFF	26590	1905	AWAN	23.48	24.50	1.265	-0.1	0.001	0.001
	LTE Band 25_Ant Main	20M	QPSK	50	0	Back	28mm	Tablet	OFF	26590	1905	AWAN	22.60	23.50	1.230	0.06	0.001	0.001
	LTE Band 25_Ant Main	20M	QPSK	1	0	Top Edge	26mm	Tablet	OFF	26590	1905	AWAN	23.48	24.50	1.265	0.18	0.054	0.068
	LTE Band 25_Ant Main	20M	QPSK	50	0	Top Edge	26mm	Tablet	OFF	26590	1905	AWAN	22.60	23.50	1.230	-0.17	0.044	0.054
	LTE Band 25_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	26340	1880	HTK	14.55	15.50	1.245	0.13	0.508	0.632
9	LTE Band 26_Ant Main	15M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	26865	831.5	AWAN	20.22	21.50	1.343	0.04	0.875	1.175
	LTE Band 26_Ant Main	15M	QPSK	36	0	Bottom Side	0mm	Laptop	ON	26865	831.5	AWAN	19.37	20.50	1.297	-0.17	0.701	0.909
	LTE Band 26_Ant Main	15M	QPSK	75	0	Bottom Side	0mm	Laptop	ON	26865	831.5	AWAN	19.14	20.50	1.368	-0.03	0.640	0.876

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	LTE Band 26_Ant Main	15M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	26865	831.5	AWAN	23.42	24.50	1.282	0.01	0.075	0.096
	LTE Band 26_Ant Main	15M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	26865	831.5	AWAN	23.42	24.50	1.282	0.01	0.075	0.096
	LTE Band 26_Ant Main	15M	QPSK	1	0	Back	0mm	Tablet	ON	26865	831.5	AWAN	20.22	21.50	1.343	0.14	0.712	0.956
	LTE Band 26_Ant Main	15M	QPSK	36	0	Back	0mm	Tablet	ON	26865	831.5	AWAN	19.37	20.50	1.297	0.11	0.570	0.739
	LTE Band 26_Ant Main	15M	QPSK	75	0	Back	0mm	Tablet	ON	26865	831.5	AWAN	19.14	20.50	1.368	-0.05	0.585	0.800
	LTE Band 26_Ant Main	15M	QPSK	1	0	Right Edge	0mm	Tablet	OFF	26865	831.5	AWAN	23.42	24.50	1.282	0	0.115	0.147
	LTE Band 26_Ant Main	15M	QPSK	36	0	Right Edge	0mm	Tablet	OFF	26865	831.5	AWAN	22.51	23.50	1.256	0	0.093	0.117
	LTE Band 26_Ant Main	15M	QPSK	1	0	Top Edge	0mm	Tablet	ON	26865	831.5	AWAN	20.22	21.50	1.343	-0.17	0.218	0.293
	LTE Band 26_Ant Main	15M	QPSK	36	0	Top Edge	0mm	Tablet	ON	26865	831.5	AWAN	19.37	20.50	1.297	0.17	0.168	0.218
	LTE Band 26_Ant Main	15M	QPSK	1	0	Back	28mm	Tablet	OFF	26865	831.5	AWAN	23.42	24.50	1.282	-0.15	0.001	0.001
	LTE Band 26_Ant Main	15M	QPSK	36	0	Back	28mm	Tablet	OFF	26865	831.5	AWAN	22.51	23.50	1.256	-0.15	0.001	0.001
	LTE Band 26_Ant Main	15M	QPSK	1	0	Top Edge	26mm	Tablet	OFF	26865	831.5	AWAN	23.42	24.50	1.282	0.07	0.001	0.001
	LTE Band 26_Ant Main	15M	QPSK	36	0	Top Edge	26mm	Tablet	OFF	26865	831.5	AWAN	22.51	23.50	1.256	0.07	0.001	0.001
	LTE Band 26_Ant Main	15M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	26865	831.5	HTK	20.22	21.50	1.343	-0.05	0.687	0.923
10	LTE Band 30_Ant Main	10M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	27710	2310	AWAN	16.82	17.00	1.042	-0.08	1.070	1.115
	LTE Band 30_Ant Main	10M	QPSK	25	0	Bottom Side	0mm	Laptop	ON	27710	2310	AWAN	15.74	16.00	1.062	0.05	0.863	0.917
	LTE Band 30_Ant Main	10M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	27710	2310	AWAN	15.72	16.00	1.067	0.06	0.833	0.889
	LTE Band 30_Ant Main	10M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	27710	2310	AWAN	21.74	23.00	1.337	0.03	0.001	0.001
	LTE Band 30_Ant Main	10M	QPSK	25	0	Bottom Side	28mm	Laptop	OFF	27710	2310	AWAN	20.76	22.00	1.330	-0.08	0.001	0.001
	LTE Band 30_Ant Main	10M	QPSK	1	0	Back	0mm	Laptop	ON	27710	2310	AWAN	16.82	17.00	1.042	-0.09	1.040	1.084
	LTE Band 30_Ant Main	10M	QPSK	25	0	Back	0mm	Tablet	ON	27710	2310	AWAN	15.74	16.00	1.062	-0.08	0.844	0.896
	LTE Band 30_Ant Main	10M	QPSK	50	0	Back	0mm	Tablet	ON	27710	2310	AWAN	15.72	16.00	1.067	0.13	0.891	0.951
	LTE Band 30_Ant Main	10M	QPSK	1	0	Right Edge	0mm	Tablet	OFF	27710	2310	AWAN	21.74	23.00	1.337	0	0.082	0.110
	LTE Band 30_Ant Main	10M	QPSK	25	0	Right Edge	0mm	Tablet	OFF	27710	2310	AWAN	20.76	22.00	1.330	0	0.067	0.089
	LTE Band 30_Ant Main	10M	QPSK	1	0	Top Edge	0mm	Tablet	ON	27710	2310	AWAN	16.82	17.00	1.042	0.18	0.381	0.397
	LTE Band 30_Ant Main	10M	QPSK	25	0	Top Edge	0mm	Tablet	ON	27710	2310	AWAN	15.74	16.00	1.062	0.16	0.307	0.326
	LTE Band 30_Ant Main	10M	QPSK	1	0	Back	28mm	Tablet	OFF	27710	2310	AWAN	21.74	23.00	1.337	-0.15	0.001	0.001
	LTE Band 30_Ant Main	10M	QPSK	25	0	Back	28mm	Tablet	OFF	27710	2310	AWAN	20.76	22.00	1.330	0.1	0.001	0.001
	LTE Band 30_Ant Main	10M	QPSK	1	0	Top Edge	26mm	Tablet	OFF	27710	2310	AWAN	21.74	23.00	1.337	0.11	0.001	0.001
	LTE Band 30_Ant Main	10M	QPSK	25	0	Top Edge	26mm	Tablet	OFF	27710	2310	AWAN	20.76	22.00	1.330	0.03	0.001	0.001
	LTE Band 30_Ant Main	10M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	27710	2310	HTK	16.82	17.00	1.042	-0.1	0.740	0.771



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Report No. : FA4N2906

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	User Scenario	Power Reduction	Ch.	Freq. (MHz)	Antenna 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 41_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	40185	2549.5	AWAN	18.41	19.50	1.285	62.9	1.006	0.07	0.881	1.139
	LTE Band 41_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	39750	2506	AWAN	18.40	19.50	1.288	62.9	1.006	-0.06	0.886	1.148
	LTE Band 41_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	40620	2593	AWAN	18.39	19.50	1.291	62.9	1.006	0.18	0.747	0.970
	LTE Band 41_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	41055	2636.5	AWAN	18.35	19.50	1.303	62.9	1.006	-0.1	0.715	0.937
	LTE Band 41_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	41490	2680	AWAN	18.22	19.50	1.343	62.9	1.006	0.01	0.630	0.851
	LTE Band 41_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	40185	2549.5	AWAN	17.60	18.50	1.230	62.9	1.006	-0.15	0.701	0.867
	LTE Band 41_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	39750	2506	AWAN	17.59	18.50	1.233	62.9	1.006	0.19	0.720	0.893
	LTE Band 41_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	40620	2593	AWAN	17.46	18.50	1.271	62.9	1.006	0.07	0.603	0.771
	LTE Band 41_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	41055	2636.5	AWAN	17.41	18.50	1.285	62.9	1.006	-0.18	0.555	0.717
	LTE Band 41_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	41490	2680	AWAN	17.23	18.50	1.340	62.9	1.006	0.03	0.485	0.654
	LTE Band 41_Ant Main	20M	QPSK	100	0	Bottom Side	0mm	Laptop	ON	40185	2549.5	AWAN	17.50	18.50	1.259	62.9	1.006	-0.15	0.649	0.822
	LTE Band 41_Ant Main	20M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	40185	2549.5	AWAN	23.06	24.00	1.242	62.9	1.006	-0.17	0.057	0.071
	LTE Band 41_Ant Main	20M	QPSK	50	0	Bottom Side	28mm	Laptop	OFF	40185	2549.5	AWAN	22.16	23.00	1.213	62.9	1.006	0.04	0.047	0.057
	LTE Band 41_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	40185	2549.5	AWAN	18.41	19.50	1.285	62.9	1.006	-0.15	0.858	1.109
11	LTE Band 41_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	39750	2506	AWAN	18.40	19.50	1.288	62.9	1.006	0.02	0.897	1.162
	LTE Band 41_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	40620	2593	AWAN	18.39	19.50	1.291	62.9	1.006	0.11	0.797	1.035
	LTE Band 41_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	41055	2636.5	AWAN	18.35	19.50	1.303	62.9	1.006	-0.08	0.828	1.085
	LTE Band 41_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	41490	2680	AWAN	18.22	19.50	1.343	62.9	1.006	-0.17	0.856	1.157
	LTE Band 41_Ant Main	20M	QPSK	50	0	Back	0mm	Tablet	ON	40185	2549.5	AWAN	17.60	18.50	1.230	62.9	1.006	-0.08	0.688	0.851
	LTE Band 41_Ant Main	20M	QPSK	50	0	Back	0mm	Tablet	ON	39750	2506	AWAN	17.59	18.50	1.233	62.9	1.006	-0.04	0.714	0.886
	LTE Band 41_Ant Main	20M	QPSK	50	0	Back	0mm	Tablet	ON	40620	2593	AWAN	17.46	18.50	1.271	62.9	1.006	-0.08	0.634	0.811
	LTE Band 41_Ant Main	20M	QPSK	50	0	Back	0mm	Tablet	ON	41055	2636.5	AWAN	17.41	18.50	1.285	62.9	1.006	0.17	0.668	0.864
	LTE Band 41_Ant Main	20M	QPSK	50	0	Back	0mm	Tablet	ON	41490	2680	AWAN	17.23	18.50	1.340	62.9	1.006	0.18	0.695	0.937
	LTE Band 41_Ant Main	20M	QPSK	100	0	Back	0mm	Tablet	ON	40185	2549.5	AWAN	17.50	18.50	1.259	62.9	1.006	-0.04	0.675	0.855
	LTE Band 41_Ant Main	20M	QPSK	1	0	Right Edge	0mm	Tablet	OFF	40185	2549.5	AWAN	23.06	24.00	1.242	62.9	1.006	-0.08	0.123	0.154
	LTE Band 41_Ant Main	20M	QPSK	50	0	Right Edge	0mm	Tablet	OFF	40185	2549.5	AWAN	22.16	23.00	1.213	62.9	1.006	0	0.100	0.122
	LTE Band 41_Ant Main	20M	QPSK	1	0	Top Edge	0mm	Tablet	ON	40185	2549.5	AWAN	18.41	19.50	1.285	62.9	1.006	-0.13	0.313	0.405
	LTE Band 41_Ant Main	20M	QPSK	50	0	Top Edge	0mm	Tablet	ON	40185	2549.5	AWAN	17.60	18.50	1.230	62.9	1.006	0.06	0.248	0.307
	LTE Band 41_Ant Main	20M	QPSK	1	0	Back	28mm	Tablet	OFF	40185	2549.5	AWAN	23.06	24.00	1.242	62.9	1.006	-0.08	0.060	0.075
	LTE Band 41_Ant Main	20M	QPSK	50	0	Back	28mm	Tablet	OFF	40185	2549.5	AWAN	22.16	23.00	1.213	62.9	1.006	0.06	0.049	0.060
	LTE Band 41_Ant Main	20M	QPSK	1	0	Top Edge	26mm	Tablet	OFF	40185	2549.5	AWAN	23.06	24.00	1.242	62.9	1.006	-0.08	0.046	0.057
	LTE Band 41_Ant Main	20M	QPSK	50	0	Top Edge	26mm	Tablet	OFF	40185	2549.5	AWAN	22.16	23.00	1.213	62.9	1.006	0.04	0.038	0.046
	LTE Band 41_Ant Main	20M	QPSK	1	0	Back	0mm	Laptop	ON	39750	2506	HTK	18.40	19.50	1.288	62.9	1.006	-0.03	0.853	1.105
	LTE Band 41_Ant Main	20M	QPSK	1	0	Back	0mm	Laptop	ON	40185	2549.5	HTK	18.41	19.50	1.285	62.9	1.006	-0.03	0.859	1.110
	LTE Band 41_Ant Main	20M	QPSK	1	0	Back	0mm	Laptop	ON	40620	2593	HTK	18.39	19.50	1.291	62.9	1.006	0.08	0.761	0.988
	LTE Band 41_Ant Main	20M	QPSK	1	0	Back	0mm	Laptop	ON	41055	2636.5	HTK	18.35	19.50	1.303	62.9	1.006	-0.07	0.734	0.962
	LTE Band 41_Ant Main	20M	QPSK	1	0	Back	0mm	Laptop	ON	41490	2680	HTK	18.22	19.50	1.343	62.9	1.006	0.05	0.657	0.888
	LTE Band 42_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	43340	3575	AWAN	17.64	18.50	1.219	62.9	1.006	0.01	0.745	0.914
	LTE Band 42_Ant Main	20M	QPSK	50	50	Bottom Side	0mm	Laptop	ON	43340	3575	AWAN	16.79	17.50	1.178	62.9	1.006	0.03	0.646	0.766
	LTE Band 42_Ant Main	20M	QPSK	100	0	Bottom Side	0mm	Laptop	ON	43340	3575	AWAN	16.74	17.50	1.191	62.9	1.006	-0.08	0.616	0.738
	LTE Band 42_Ant Main	20M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	43340	3575	AWAN	20.89	22.00	1.291	62.9	1.006	-0.08	0.031	0.040
	LTE Band 42_Ant Main	20M	QPSK	50	0	Bottom Side	28mm	Laptop	OFF	43340	3575	AWAN	19.88	21.00	1.294	62.9	1.006	0.1	0.024	0.031
	LTE Band 42_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	43340	3575	AWAN	17.64	18.50	1.219	62.9	1.006	-0.18	0.646	0.792
	LTE Band 42_Ant Main	20M	QPSK	50	50	Back	0mm	Tablet	ON	43340	3575	AWAN	16.79	17.50	1.178	62.9	1.006	0.1	0.552	0.654
	LTE Band 42_Ant Main	20M	QPSK	1	0	Right Edge	0mm	Tablet	OFF	43340	3575	AWAN	20.89	22.00	1.291	62.9	1.006	0.12	0.155	0.201
	LTE Band 42_Ant Main	20M	QPSK	50	0	Right Edge	0mm	Tablet	OFF	43340	3575	AWAN	19.88	21.00	1.294	62.9	1.006	0.08	0.133	0.173
	LTE Band 42_Ant Main	20M	QPSK	1	0	Top Edge	0mm	Tablet	ON	43340	3575	AWAN	17.64	18.50	1.219	62.9	1.006	-0.17	0.072	0.088



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	LTE Band 42_Ant Main	20M	QPSK	50	50	Top Edge	0mm	Tablet	ON	43340	3575	AWAN	16.79	17.50	1.178	62.9	1.006	-0.03	0.055	0.065
	LTE Band 42_Ant Main	20M	QPSK	1	0	Back	28mm	Tablet	OFF	43340	3575	AWAN	20.89	22.00	1.291	62.9	1.006	0.14	0.028	0.036
	LTE Band 42_Ant Main	20M	QPSK	50	0	Back	28mm	Tablet	OFF	43340	3575	AWAN	19.88	21.00	1.294	62.9	1.006	0.11	0.022	0.029
	LTE Band 42_Ant Main	20M	QPSK	1	0	Top Edge	26mm	Tablet	OFF	43340	3575	AWAN	20.89	22.00	1.291	62.9	1.006	-0.05	0.067	0.087
	LTE Band 42_Ant Main	20M	QPSK	50	0	Top Edge	26mm	Tablet	OFF	43340	3575	AWAN	19.88	21.00	1.294	62.9	1.006	0.18	0.051	0.066
	LTE Band 42_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	43340	3575	HTK	17.64	18.50	1.219	62.9	1.006	0.14	0.600	0.736
12	LTE Band 42_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	42990	3540	AWAN	17.69	18.50	1.205	62.9	1.006	-0.11	0.828	1.004
	LTE Band 42_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	42190	3460	AWAN	17.64	18.50	1.219	62.9	1.006	0.08	0.603	0.739
	LTE Band 42_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	42590	3500	AWAN	17.67	18.50	1.211	62.9	1.006	0.01	0.709	0.864
	LTE Band 42_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	42990	3540	AWAN	16.83	17.50	1.167	62.9	1.006	0.03	0.681	0.799
	LTE Band 42_Ant Main	20M	QPSK	100	0	Bottom Side	0mm	Laptop	ON	42990	3540	AWAN	16.80	17.50	1.175	62.9	1.006	0.1	0.693	0.819
	LTE Band 42_Ant Main	20M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	42990	3540	AWAN	20.91	22.00	1.285	62.9	1.006	0.18	0.041	0.053
	LTE Band 42_Ant Main	20M	QPSK	50	0	Bottom Side	28mm	Laptop	OFF	42990	3540	AWAN	19.90	21.00	1.288	62.9	1.006	0.16	0.033	0.043
	LTE Band 42_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	42990	3540	AWAN	17.69	18.50	1.205	62.9	1.006	-0.18	0.751	0.910
	LTE Band 42_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	42190	3460	AWAN	17.64	18.50	1.219	62.9	1.006	0.1	0.457	0.560
	LTE Band 42_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	42590	3500	AWAN	17.67	18.50	1.211	62.9	1.006	0.12	0.577	0.703
	LTE Band 42_Ant Main	20M	QPSK	50	0	Back	0mm	Tablet	ON	42990	3540	AWAN	16.83	17.50	1.167	62.9	1.006	0.08	0.614	0.721
	LTE Band 42_Ant Main	20M	QPSK	100	0	Back	0mm	Tablet	ON	42990	3540	AWAN	16.80	17.50	1.175	62.9	1.006	0.14	0.628	0.742
	LTE Band 42_Ant Main	20M	QPSK	1	0	Right Edge	0mm	Tablet	OFF	42990	3540	AWAN	20.91	22.00	1.285	62.9	1.006	0.11	0.173	0.224
	LTE Band 42_Ant Main	20M	QPSK	50	0	Right Edge	0mm	Tablet	OFF	42990	3540	AWAN	19.90	21.00	1.288	62.9	1.006	-0.05	0.147	0.190
	LTE Band 42_Ant Main	20M	QPSK	1	0	Top Edge	0mm	Tablet	ON	42990	3540	AWAN	17.69	18.50	1.205	62.9	1.006	0.18	0.080	0.097
	LTE Band 42_Ant Main	20M	QPSK	50	0	Top Edge	0mm	Tablet	ON	42990	3540	AWAN	16.83	17.50	1.167	62.9	1.006	0.14	0.061	0.072
	LTE Band 42_Ant Main	20M	QPSK	1	0	Back	28mm	Tablet	OFF	42990	3540	AWAN	20.91	22.00	1.285	62.9	1.006	-0.04	0.039	0.050
	LTE Band 42_Ant Main	20M	QPSK	50	0	Back	28mm	Tablet	OFF	42990	3540	AWAN	19.90	21.00	1.288	62.9	1.006	0.03	0.031	0.040
	LTE Band 42_Ant Main	20M	QPSK	1	0	Top Edge	26mm	Tablet	OFF	42990	3540	AWAN	20.91	22.00	1.285	62.9	1.006	-0.13	0.075	0.097
	LTE Band 42_Ant Main	20M	QPSK	50	0	Top Edge	26mm	Tablet	OFF	42990	3540	AWAN	19.90	21.00	1.288	62.9	1.006	0.06	0.060	0.078
	LTE Band 42_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	42990	3540	HTK	17.69	18.50	1.205	62.9	1.006	-0.17	0.666	0.807
	LTE Band 42_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	42190	3460	HTK	17.64	18.50	1.219	62.9	1.006	0.17	0.497	0.609
	LTE Band 42_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	42590	3500	HTK	17.67	18.50	1.211	62.9	1.006	-0.05	0.593	0.722
	LTE Band 43_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	44490	3690	AWAN	18.09	18.50	1.099	62.9	1.006	-0.17	0.676	0.747
	LTE Band 43_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	44490	3690	AWAN	17.08	17.50	1.102	62.9	1.006	0.17	0.564	0.625
	LTE Band 43_Ant Main	20M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	44490	3690	AWAN	20.98	22.00	1.265	62.9	1.006	-0.05	0.033	0.042
	LTE Band 43_Ant Main	20M	QPSK	50	0	Bottom Side	28mm	Laptop	OFF	44490	3690	AWAN	20.01	21.00	1.256	62.9	1.006	0.01	0.027	0.034
	LTE Band 43_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	44490	3690	AWAN	18.09	18.50	1.099	62.9	1.006	0.1	0.732	0.809
	LTE Band 43_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	43690	3610	AWAN	18.00	18.50	1.122	62.9	1.006	-0.17	0.671	0.757
	LTE Band 43_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	44090	3650	AWAN	17.99	18.50	1.125	62.9	1.006	0.04	0.678	0.767
	LTE Band 43_Ant Main	20M	QPSK	50	0	Back	0mm	Tablet	ON	44490	3690	AWAN	17.08	17.50	1.102	62.9	1.006	-0.01	0.500	0.554
	LTE Band 43_Ant Main	20M	QPSK	100	0	Back	0mm	Tablet	ON	44490	3690	AWAN	17.00	17.50	1.122	62.9	1.006	0.07	0.488	0.551
	LTE Band 43_Ant Main	20M	QPSK	1	0	Right Edge	0mm	Tablet	OFF	44490	3690	AWAN	20.98	22.00	1.265	62.9	1.006	-0.08	0.143	0.182
	LTE Band 43_Ant Main	20M	QPSK	50	0	Right Edge	0mm	Tablet	OFF	44490	3690	AWAN	20.01	21.00	1.256	62.9	1.006	0.05	0.102	0.129
	LTE Band 43_Ant Main	20M	QPSK	1	0	Top Edge	0mm	Tablet	ON	44490	3690	AWAN	18.09	18.50	1.099	62.9	1.006	0.06	0.244	0.270
	LTE Band 43_Ant Main	20M	QPSK	50	0	Top Edge	0mm	Tablet	ON	44490	3690	AWAN	17.08	17.50	1.102	62.9	1.006	-0.09	0.209	0.232
	LTE Band 43_Ant Main	20M	QPSK	1	0	Back	28mm	Tablet	OFF	44490	3690	AWAN	20.98	22.00	1.265	62.9	1.006	-0.08	0.059	0.075
	LTE Band 43_Ant Main	20M	QPSK	50	0	Back	28mm	Tablet	OFF	44490	3690	AWAN	20.01	21.00	1.256	62.9	1.006	0.13	0.050	0.063
	LTE Band 43_Ant Main	20M	QPSK	1	0	Top Edge	26mm	Tablet	OFF	44490	3690	AWAN	20.98	22.00	1.265	62.9	1.006	0.12	0.047	0.060
	LTE Band 43_Ant Main	20M	QPSK	50	0	Top Edge	26mm	Tablet	OFF	44490	3690	AWAN	20.01	21.00	1.256	62.9	1.006	0.03	0.033	0.042
	LTE Band 43_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	44490	3690	HTK	18.09	18.50	1.099	62.9	1.006	0.18	0.888	0.982
	LTE Band 43_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	43690	3610	HTK	18.00	18.50	1.122	62.9	1.006	0.16	0.812	0.917
	LTE Band 43_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	44090	3650	HTK	17.99	18.50	1.125	62.9	1.006	-0.1	0.836	0.946



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	LTE Band 43_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	44690	3710	AWAN	18.17	18.50	1.079	62.9	1.006	0.01	0.729	0.791
	LTE Band 43_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	44690	3710	AWAN	17.14	17.50	1.086	62.9	1.006	0.04	0.603	0.659
	LTE Band 43_Ant Main	20M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	44690	3710	AWAN	21.06	22.00	1.242	62.9	1.006	0.06	0.036	0.045
	LTE Band 43_Ant Main	20M	QPSK	50	0	Bottom Side	28mm	Laptop	OFF	44690	3710	AWAN	20.06	21.00	1.242	62.9	1.006	-0.03	0.029	0.036
	LTE Band 43_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	44690	3710	AWAN	18.17	18.50	1.079	62.9	1.006	0.06	0.788	0.855
	LTE Band 43_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	45090	3750	AWAN	17.87	18.50	1.156	62.9	1.006	-0.09	0.708	0.823
	LTE Band 43_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	45490	3790	AWAN	17.78	18.50	1.180	62.9	1.006	-0.08	0.744	0.883
	LTE Band 43_Ant Main	20M	QPSK	50	0	Back	0mm	Tablet	ON	44690	3710	AWAN	17.14	17.50	1.086	62.9	1.006	0.13	0.535	0.584
	LTE Band 43_Ant Main	20M	QPSK	100	0	Back	0mm	Tablet	ON	44690	3710	AWAN	17.10	17.50	1.096	62.9	1.006	0.18	0.473	0.522
	LTE Band 43_Ant Main	20M	QPSK	1	0	Right Edge	0mm	Tablet	OFF	44690	3710	AWAN	21.06	22.00	1.242	62.9	1.006	0.16	0.162	0.202
	LTE Band 43_Ant Main	20M	QPSK	50	0	Right Edge	0mm	Tablet	OFF	44690	3710	AWAN	20.06	21.00	1.242	62.9	1.006	-0.1	0.111	0.139
	LTE Band 43_Ant Main	20M	QPSK	1	0	Top Edge	0mm	Tablet	ON	44690	3710	AWAN	18.17	18.50	1.079	62.9	1.006	0.07	0.262	0.284
	LTE Band 43_Ant Main	20M	QPSK	50	0	Top Edge	0mm	Tablet	ON	44690	3710	AWAN	17.14	17.50	1.086	62.9	1.006	0.18	0.220	0.240
	LTE Band 43_Ant Main	20M	QPSK	1	0	Back	28mm	Tablet	OFF	44690	3710	AWAN	21.06	22.00	1.242	62.9	1.006	-0.03	0.066	0.082
	LTE Band 43_Ant Main	20M	QPSK	50	0	Back	28mm	Tablet	OFF	44690	3710	AWAN	20.06	21.00	1.242	62.9	1.006	0.05	0.053	0.066
	LTE Band 43_Ant Main	20M	QPSK	1	0	Top Edge	26mm	Tablet	OFF	44690	3710	AWAN	21.06	22.00	1.242	62.9	1.006	0.08	0.051	0.064
	LTE Band 43_Ant Main	20M	QPSK	50	0	Top Edge	26mm	Tablet	OFF	44690	3710	AWAN	20.06	21.00	1.242	62.9	1.006	0.03	0.041	0.051
13	LTE Band 43_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	45490	3790	HTK	17.78	18.50	1.180	62.9	1.006	0.01	0.960	1.140
	LTE Band 43_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	44690	3710	HTK	18.17	18.50	1.079	62.9	1.006	0.19	0.915	0.993
	LTE Band 43_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	45090	3750	HTK	17.87	18.50	1.156	62.9	1.006	0.07	0.953	1.108
	LTE Band 48_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	56640	3690	AWAN	16.79	18.50	1.483	62.9	1.006	-0.18	0.633	0.944
	LTE Band 48_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	55340	3560	AWAN	16.77	18.50	1.489	62.9	1.006	0.03	0.728	1.090
14	LTE Band 48_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	55830	3609	AWAN	16.78	18.50	1.486	62.9	1.006	-0.16	0.744	1.112
	LTE Band 48_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	56150	3641	AWAN	16.76	18.50	1.493	62.9	1.006	-0.15	0.723	1.086
	LTE Band 48_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	56640	3690	AWAN	15.78	17.50	1.486	62.9	1.006	-0.15	0.503	0.752
	LTE Band 48_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	55340	3560	AWAN	15.66	17.50	1.528	62.9	1.006	0.11	0.478	0.735
	LTE Band 48_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	55830	3609	AWAN	15.69	17.50	1.517	62.9	1.006	-0.08	0.610	0.931
	LTE Band 48_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	56150	3641	AWAN	15.64	17.50	1.535	62.9	1.006	-0.17	0.582	0.899
	LTE Band 48_Ant Main	20M	QPSK	100	0	Bottom Side	0mm	Laptop	ON	56640	3690	AWAN	15.74	17.50	1.500	62.9	1.006	-0.08	0.479	0.723
	LTE Band 48_Ant Main	20M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	56640	3690	AWAN	21.01	22.00	1.256	62.9	1.006	0.05	0.042	0.053
	LTE Band 48_Ant Main	20M	QPSK	50	0	Bottom Side	28mm	Laptop	OFF	56640	3690	AWAN	20.01	21.00	1.256	62.9	1.006	0.16	0.034	0.043
	LTE Band 48_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	56640	3690	AWAN	16.79	18.50	1.483	62.9	1.006	-0.04	0.456	0.680
	LTE Band 48_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	55340	3560	AWAN	16.77	18.50	1.489	62.9	1.006	-0.08	0.535	0.801
	LTE Band 48_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	55830	3609	AWAN	16.78	18.50	1.486	62.9	1.006	0.17	0.451	0.674
	LTE Band 48_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	56150	3641	AWAN	16.76	18.50	1.493	62.9	1.006	0.18	0.411	0.617
	LTE Band 48_Ant Main	20M	QPSK	50	0	Back	0mm	Tablet	ON	56640	3690	AWAN	15.78	17.50	1.486	62.9	1.006	-0.04	0.374	0.559
	LTE Band 48_Ant Main	20M	QPSK	100	0	Back	0mm	Tablet	ON	56640	3690	AWAN	15.74	17.50	1.500	62.9	1.006	-0.08	0.304	0.459
	LTE Band 48_Ant Main	20M	QPSK	1	0	Right Edge	0mm	Tablet	OFF	56640	3690	AWAN	21.01	22.00	1.256	62.9	1.006	-0.13	0.226	0.286
	LTE Band 48_Ant Main	20M	QPSK	50	0	Right Edge	0mm	Tablet	OFF	56640	3690	AWAN	20.01	21.00	1.256	62.9	1.006	-0.13	0.177	0.224
	LTE Band 48_Ant Main	20M	QPSK	1	0	Top Edge	0mm	Tablet	ON	56640	3690	AWAN	16.79	18.50	1.483	62.9	1.006	0.06	0.174	0.260
	LTE Band 48_Ant Main	20M	QPSK	50	0	Top Edge	0mm	Tablet	ON	56640	3690	AWAN	15.78	17.50	1.486	62.9	1.006	-0.03	0.148	0.221
	LTE Band 48_Ant Main	20M	QPSK	1	0	Back	28mm	Tablet	OFF	56640	3690	AWAN	21.01	22.00	1.256	62.9	1.006	-0.11	0.042	0.053
	LTE Band 48_Ant Main	20M	QPSK	50	0	Back	28mm	Tablet	OFF	56640	3690	AWAN	20.01	21.00	1.256	62.9	1.006	0.04	0.034	0.043
	LTE Band 48_Ant Main	20M	QPSK	1	0	Top Edge	26mm	Tablet	OFF	56640	3690	AWAN	21.01	22.00	1.256	62.9	1.006	0.03	0.034	0.043
	LTE Band 48_Ant Main	20M	QPSK	50	0	Top Edge	26mm	Tablet	OFF	56640	3690	AWAN	20.01	21.00	1.256	62.9	1.006	0.06	0.027	0.034
	LTE Band 48_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	55830	3609	HTK	16.78	18.50	1.486	62.9	1.006	-0.07	0.569	0.851
	LTE Band 48_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	55340	3560	HTK	16.77	18.50	1.489	62.9	1.006	0.08	0.654	0.980
	LTE Band 48_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	56150	3641	HTK	16.76	18.50	1.493	62.9	1.006	0.05	0.518	0.778
	LTE Band 48_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	56640	3690	HTK	16.79	18.50	1.483	62.9	1.006	-0.03	0.584	0.871



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	User Scenario	Power Reduction	Ch.	Freq. (MHz)	Antenna 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)
	LTE Band 66_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	132072	1720	AWAN	13.81	14.50	1.172	0.12	1.010	1.184
15	LTE Band 66_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	132322	1745	AWAN	13.79	14.50	1.178	0.13	1.010	1.190
	LTE Band 66_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	132572	1770	AWAN	13.66	14.50	1.213	0.03	0.855	1.037
	LTE Band 66_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	132072	1720	AWAN	12.76	13.50	1.186	0.18	0.809	0.959
	LTE Band 66_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	132322	1745	AWAN	12.75	13.50	1.189	0.16	0.841	1.000
	LTE Band 66_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	132572	1770	AWAN	12.66	13.50	1.213	-0.1	0.693	0.841
	LTE Band 66_Ant Main	20M	QPSK	100	0	Bottom Side	0mm	Laptop	ON	132072	1720	AWAN	12.75	13.50	1.189	0.07	0.823	0.979
	LTE Band 66_Ant Main	20M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	132072	1720	AWAN	23.51	24.50	1.256	-0.02	0.001	0.001
	LTE Band 66_Ant Main	20M	QPSK	50	0	Bottom Side	28mm	Laptop	OFF	132072	1720	AWAN	22.61	23.50	1.227	0.01	0.001	0.001
	LTE Band 66_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	132072	1720	AWAN	13.81	14.50	1.172	0.18	0.512	0.600
	LTE Band 66_Ant Main	20M	QPSK	50	0	Back	0mm	Tablet	ON	132072	1720	AWAN	12.76	13.50	1.186	-0.1	0.401	0.476
	LTE Band 66_Ant Main	20M	QPSK	1	0	Right Edge	0mm	Tablet	OFF	132072	1720	AWAN	23.51	24.50	1.256	0	0.068	0.085
	LTE Band 66_Ant Main	20M	QPSK	50	0	Right Edge	0mm	Tablet	OFF	132072	1720	AWAN	22.61	23.50	1.227	0	0.057	0.070
	LTE Band 66_Ant Main	20M	QPSK	1	0	Top Edge	0mm	Tablet	ON	132072	1720	AWAN	13.81	14.50	1.172	0.19	0.546	0.640
	LTE Band 66_Ant Main	20M	QPSK	50	0	Top Edge	0mm	Tablet	ON	132072	1720	AWAN	12.76	13.50	1.186	0.07	0.454	0.538
	LTE Band 66_Ant Main	20M	QPSK	1	0	Back	28mm	Tablet	OFF	132072	1720	AWAN	23.51	24.50	1.256	0.15	0.001	0.001
	LTE Band 66_Ant Main	20M	QPSK	50	0	Back	28mm	Tablet	OFF	132072	1720	AWAN	22.61	23.50	1.227	0.14	0.001	0.001
	LTE Band 66_Ant Main	20M	QPSK	1	0	Top Edge	26mm	Tablet	OFF	132072	1720	AWAN	23.51	24.50	1.256	0.11	0.001	0.001
	LTE Band 66_Ant Main	20M	QPSK	50	0	Top Edge	26mm	Tablet	OFF	132072	1720	AWAN	22.61	23.50	1.227	0.15	0.001	0.001
	LTE Band 66_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	132322	1745	HTK	13.79	14.50	1.178	0.03	0.427	0.503
	LTE Band 71_Ant Main	20M	QPSK	1	0	Bottom Side	0mm	Laptop	ON	133297	680.5	AWAN	21.68	23.00	1.355	-0.15	0.820	1.111
	LTE Band 71_Ant Main	20M	QPSK	50	0	Bottom Side	0mm	Laptop	ON	133297	680.5	AWAN	20.81	22.00	1.315	0.19	0.666	0.876
	LTE Band 71_Ant Main	20M	QPSK	100	0	Bottom Side	0mm	Laptop	ON	133297	680.5	AWAN	20.76	22.00	1.330	0.07	0.685	0.911
	LTE Band 71_Ant Main	20M	QPSK	1	0	Bottom Side	28mm	Laptop	OFF	133297	680.5	AWAN	23.44	24.50	1.276	-0.08	0.060	0.077
	LTE Band 71_Ant Main	20M	QPSK	50	0	Bottom Side	28mm	Laptop	OFF	133297	680.5	AWAN	22.56	23.50	1.242	0.04	0.048	0.060
16	LTE Band 71_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	133297	680.5	AWAN	21.68	23.00	1.355	0.02	0.854	1.157
	LTE Band 71_Ant Main	20M	QPSK	50	0	Back	0mm	Tablet	ON	133297	680.5	AWAN	20.81	22.00	1.315	-0.18	0.710	0.934
	LTE Band 71_Ant Main	20M	QPSK	100	0	Back	0mm	Tablet	ON	133297	680.5	AWAN	20.76	22.00	1.330	0.03	0.708	0.942
	LTE Band 71_Ant Main	20M	QPSK	1	0	Right Edge	0mm	Tablet	OFF	133297	680.5	AWAN	23.44	24.50	1.276	-0.15	0.096	0.122
	LTE Band 71_Ant Main	20M	QPSK	50	0	Right Edge	0mm	Tablet	OFF	133297	680.5	AWAN	22.56	23.50	1.242	-0.15	0.084	0.104
	LTE Band 71_Ant Main	20M	QPSK	1	0	Top Edge	0mm	Tablet	ON	133297	680.5	AWAN	21.68	23.00	1.355	0.11	0.198	0.268
	LTE Band 71_Ant Main	20M	QPSK	50	0	Top Edge	0mm	Tablet	ON	133297	680.5	AWAN	20.81	22.00	1.315	-0.08	0.165	0.217
	LTE Band 71_Ant Main	20M	QPSK	1	0	Back	28mm	Tablet	OFF	133297	680.5	AWAN	23.44	24.50	1.276	0.16	0.001	0.001
	LTE Band 71_Ant Main	20M	QPSK	50	0	Back	28mm	Tablet	OFF	133297	680.5	AWAN	22.56	23.50	1.242	0.02	0.001	0.001
	LTE Band 71_Ant Main	20M	QPSK	1	0	Top Edge	26mm	Tablet	OFF	133297	680.5	AWAN	23.44	24.50	1.276	0.05	0.051	0.065
	LTE Band 71_Ant Main	20M	QPSK	50	0	Top Edge	26mm	Tablet	OFF	133297	680.5	AWAN	22.56	23.50	1.242	0.01	0.042	0.052
	LTE Band 71_Ant Main	20M	QPSK	1	0	Back	0mm	Tablet	ON	133297	680.5	HTK	21.68	23.00	1.355	-0.17	0.782	1.060

13.2 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	User Scenario	Power Reduction	Ch.	Freq. (MHz)	Antenna 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)	Ratio	Reported 1g SAR (W/kg)
1st	WCDMA II_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	9400	1880	AWAN	15.08	16.00	1.236			-0.01	0.969	-	1.198
2nd	WCDMA II_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	9400	1880	AWAN	15.08	16.00	1.236			0.11	0.945	1.025	1.168
1st	WCDMA IV_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	1312	1712.4	AWAN	13.65	14.00	1.084			0.18	1.010	-	1.095
2nd	WCDMA IV_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	1312	1712.4	AWAN	13.65	14.00	1.084			0.17	0.994	1.016	1.077
1st	WCDMA V_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	4233	846.6	HTK	21.36	21.50	1.033			0.1	1.130	-	1.167
2nd	WCDMA V_Ant Main	RMC 12.2Kbps	Bottom Side	0mm	Laptop	ON	4233	846.6	HTK	21.36	21.50	1.033			-0.04	1.040	1.087	1.074
1st	LTE Band 7_Ant Main	20M_QPSK_1_0	Bottom Side	0mm	Laptop	ON	21100	2535	HTK	15.72	16.00	1.067			0.04	0.941	-	1.004
2nd	LTE Band 7_Ant Main	20M_QPSK_1_0	Bottom Side	0mm	Laptop	ON	21100	2535	HTK	15.72	16.00	1.067			0.01	0.914	1.030	0.975
1st	LTE Band 14_Ant Main	10M_QPSK_1_0	Bottom Side	0mm	Laptop	ON	23330	793	AWAN	21.40	22.00	1.148			0.08	0.951	-	1.092
2nd	LTE Band 14_Ant Main	10M_QPSK_1_0	Bottom Side	0mm	Laptop	ON	23330	793	AWAN	21.40	22.00	1.148			0.02	0.939	1.013	1.078
1st	LTE Band 30_Ant Main	10M_QPSK_1_0	Bottom Side	0mm	Laptop	ON	27710	2310	AWAN	16.82	17.00	1.042			-0.08	1.070	-	1.115
2nd	LTE Band 30_Ant Main	10M_QPSK_1_0	Bottom Side	0mm	Laptop	ON	27710	2310	AWAN	16.82	17.00	1.042			-0.03	1.020	1.049	1.063
1st	LTE Band 42_Ant Main	20M_QPSK_1_0	Bottom Side	0mm	Laptop	ON	42990	3540	AWAN	17.69	18.50	1.205	62.9	1.006	-0.11	0.828	-	1.004
2nd	LTE Band 42_Ant Main	20M_QPSK_1_0	Bottom Side	0mm	Laptop	ON	42990	3540	AWAN	17.69	18.50	1.205	62.9	1.006	0.15	0.799	1.036	0.969
1st	LTE Band 43_Ant Main	20M_QPSK_1_0	Back	0mm	Tablet	ON	45490	3790	HTK	17.78	18.50	1.180	62.9	1.006	0.01	0.960	-	1.140
2nd	LTE Band 43_Ant Main	20M_QPSK_1_0	Back	0mm	Tablet	ON	45490	3790	HTK	17.78	18.50	1.180	62.9	1.006	-0.06	0.952	1.008	1.130

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.

14. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Body
1.	WWAN Main + WLAN Main	Yes
2.	WWAN Main + WLAN Aux	Yes
3.	WWAN Main + WLAN MIMO+BT	Yes

General Note:

- The Intel AX211NGW WLAN/BT module, FCC ID: PD9AX211NG is integrated into this host
- The WiFi/BT SAR of 1.59 W/kg was used conservatively for the purpose of simultaneous transmission analysis. For the WLAN main and WLAN Aux Sim-Tx analysis include in WLAN SAR report. In this report only, assessment WWAN to each WLAN/BT antenna.
- 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 < 1.6W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, 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 $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
 - The SPLSR calculated results please refer to section 14.2.

14.1 Body Exposure Conditions

Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	SPLSR	Case No.
	Maximum WWAN Main 1g SAR (W/kg)	WLAN Main 1g SAR (W/kg)	WLAN Aux 1g SAR (W/kg)	WLAN MIMO+BT 1g SAR (W/kg)					
Bottom Side at 0mm_Laptop	1.198	1.590	1.590	1.590	2.788	2.788	2.788	0.03	Case 1
Back at 0mm_Tablet	1.162	1.590	1.590	1.590	2.752	2.752	2.752	0.03	Case 2
Right Edge at 0mm_Tablet	0.286				0.286	0.286	0.286		
Top Edge at 0mm_Tablet	0.760				0.760	0.760	0.760		

14.2 SPLSR Evaluation and Analysis

General Note:

1. According to the antenna location of appendix D, the minimum distance between each WWAN/WLAN transmitter antennas are used for SPLSR analysis.
2. For SPLSR analysis is selected highest standalone SAR from each WWAN transmit antenna to be evaluated and it is conservative.
3. $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary

	Band	Position	SAR (W/kg)	Gap	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)				
Case 1	Maximum WWAN Main	Bottom Side	1.198	0mm	172.84	2.79	0.03	Not required
	WLAN_Main		1.59	0mm				
	Maximum WWAN Main	Bottom Side	1.198	0mm	189.07	2.79	0.02	Not required
	WLAN_Aux		1.59	0mm				
	Maximum WWAN Main	Bottom Side	1.198	0mm	172.84	2.79	0.03	Not required
	WLAN_MIMO+BT		1.59	0mm				
	Band	Position	SAR (W/kg)	Gap	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)				
Case 2	Maximum WWAN Main	Back	1.162	0mm	172.84	2.75	0.03	Not required
	WLAN_Main		1.59	0mm				
	Maximum WWAN Main	Back	1.162	0mm	189.07	2.75	0.02	Not required
	WLAN_Aux		1.59	0mm				
	Maximum WWAN Main	Back	1.162	0mm	172.84	2.75	0.03	Not required
	WLAN_MIMO+BT		1.59	0mm				

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15. Uncertainty Assessment

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

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.

16. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [6] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [7] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [8] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [9] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [10] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.