FCC SAR TEST REPORT

FCC ID	: 2AJN7-TP00164AL
Equipment	: Notebook Computer
Brand Name	: Lenovo
Model Name	: TP00164A
Applicant	: LC Future Center Limited Taiwan Branch 7F., No.780, Beian Rd., Zhongshan Dist., Taipei 104, 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 EM061K-GL, Intel AX211D2W and Intel BE201D2W tested inside of Lenovo Notebook Computer.

The product was received on Jan. 26, 2025 and testing was started from Jan. 27, 2025 and completed on Feb. 12, 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.

Cona Huang

Approved by: Cona Huang / Deputy Manager

ilac-MRA TAF Testing Laboratory 1190

Sporton International Inc. EMC & Wireless Communications Laboratory

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History of this test report

Report No.	Version	Description	Issued Date
FA4D1634-02	01	Initial issue of report	Mar. 20, 2025

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for LC Future Center Limited Taiwan Branch, Notebook Computer, TP00164A, are as follows.

Frequency Band		Highest SAR Summary Body 1g SAR (W/kg)	Highest Simultaneous Transmission 1g SAR (W/kg)
WCDMA	WCDMA II	1.11	1.17
	WCDMA IV	1.14	
	WCDMA V	1.17	
LTE	LTE Band 7	1.08	
	LTE Band 12/17	1.05	
	LTE Band 13	1.05	
	LTE Band 14	1.09	
	LTE Band 2/25	1.06	
	LTE Band 5/26	1.09	
	LTE Band 30	1.10	
	LTE Band 38/41	1.12	
	LTE Band 4/66	0.99	
	LTE Band 71	1.09	
Date of Testing:		2025/1/27 ~ 2025/2/12	

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg 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	TP00164A
FCC ID	2AJN7-TP00164AL
Integrated WWAN Module	Brand Name: Quectel Model Name: EM061K-GL
Integrated WLAN Module 1	Brand Name: Intel Model Name: AX211D2W
Integrated WLAN Module 2	Brand Name: Intel Model Name: BE201D2W
Integrated NFC Module	Brand Name: Foxconn Model Name: T77H747
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 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, 6425 MHz ~ 6525 MHz, 6525 MHz ~ 6875 MHz, 6875 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC : 13.56 MHz
Mode	RMC 12.2Kbps HSDPA HSUPA DC-HSDPA LTE: QPSK, 16QAM, WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE NFC: ASK
EUT Stage	Production Unit

Remark:

1. This device has two antenna vendors; RF exposure evaluation selects ICT as the main test, AWAN will spot check worst case found in ICT.
2. This device is convertible type notebook PC, and there are two mode as usage way, one is laptop mode, another is tablet mode.
3. The Intel AX211D2W WLAN/BT module (FCC ID: PD9AX211D2) is integrated into this host.
4. The Intel BE201D2W WLAN/BT module (FCC ID: PD9BE201D2) is also integrated into this host.
5. The FCC ID: MCLT77H747 NFC module is integrated into this host, and NFC transmitters are considered to be operating simultaneously when there is overlapping transmission with the exception of transmission during network hand-offs with maximum hand-off duration less than 30 seconds.

WWAN Antenna Information				
Main Antenna	Manufacturer	Luxshare-ICT	Peak gain(dBi)	0.60
	Part number	DC330028F00	Type	PIFA
	Manufacturer	AWAN	Peak gain(dBi)	1.87
	Part number	DC330028J00	Type	PIFA

3.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05	
FCC ID	2AJN7-TP00164AL
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 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 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 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**
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.

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

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

LTE Band 2

	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900

LTE Band 4

	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745

LTE Band 5

	Bandwidth 1.4 MHz	Bandwidth 3 MHz	Bandwidth 5 MHz	Bandwidth 10 MHz

	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844

LTE Band 7

	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560

LTE Band 12

	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711

LTE Band 13

	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)
L	23205	779.5	23230	782
M	23230	782		
H	23255	784.5		

LTE Band 14

	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Channel #	Channel #	Freq.(MHz)
L	23305	790.5	23330	793
M	23330	793		
H	23355	795.5		

LTE Band 17

	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Freq.(MHz)	Channel #	Freq. (MHz)
L	23755	706.5	23780	709
M	23790	710	23790	710
H	23825	713.5	23800	711

LTE Band 25

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

LTE Band 26

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

LTE Band 30

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

LTE Band 38

	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580

M	38000	2595	38000	2595	38000	2595	38000	2595
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610

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

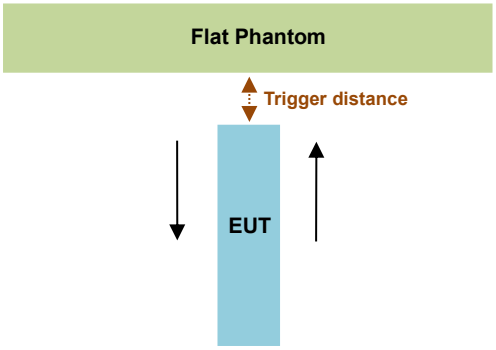
LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	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.



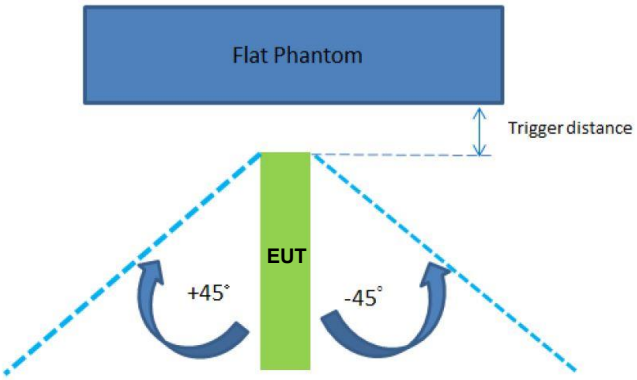
	Laptop Mode		Tablet Mode					
	Proximity Sensor Trigger Distance (mm)		Proximity Sensor Trigger Distance (mm)					
Position	Bottom Side		Back		Top Edge		Right Edge	
	moving toward	moving away	moving toward	moving away	moving toward	moving away	moving toward	moving away
Minimum	36	38	32	34	35	40	32	42

<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 section6.3, 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 ≤ 10° increments until the tablet is ± 45° from the vertical position at 0°, and the maximum output power remains in the reduced mode.



The Sensor Trigger Distance (mm)				
Position	Top Edge		Right Edge	
	+40	-40	+40	-40
Minimum	35	35	15	15

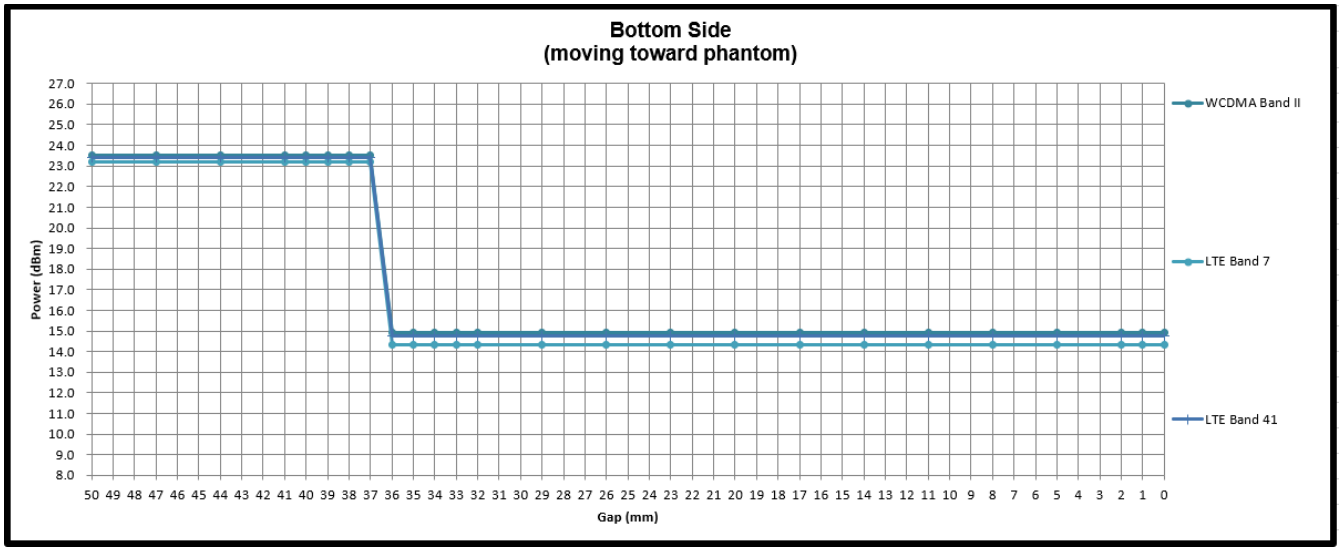
Proximity sensor power reduction

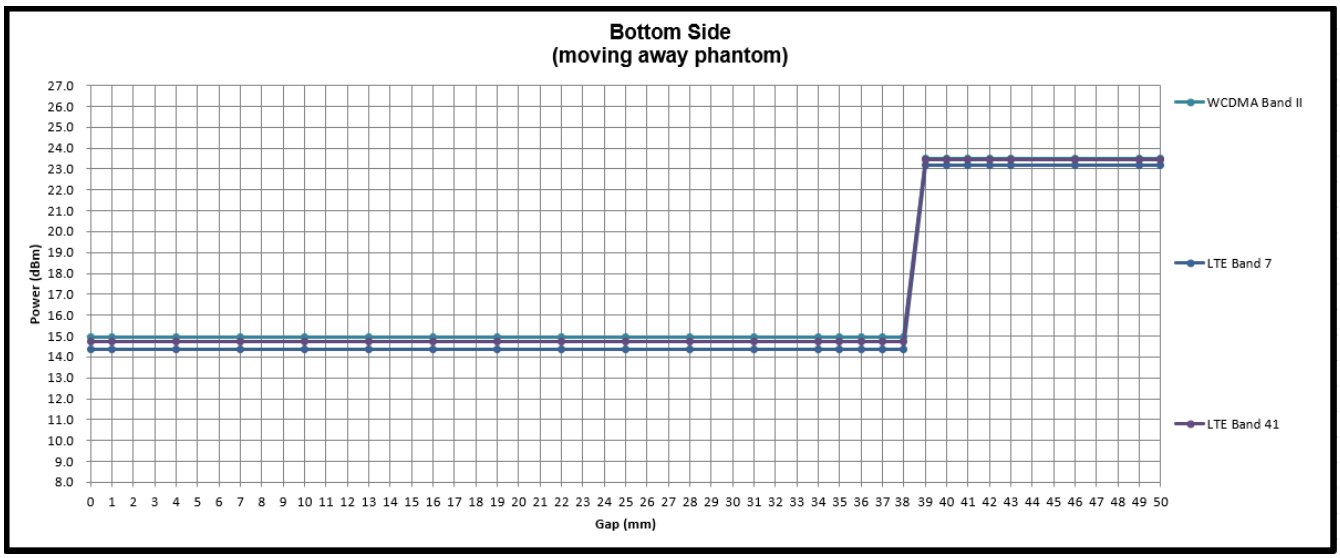
Exposure Position / wireless mode	Bottom Side/ Back/ Top Edge/ Right Edge(1)
WCDMA II	9.5 dB
WCDMA IV	10 dB
WCDMA V	8 dB
LTE Band 7	11.5 dB
LTE Band 12/17	8 dB
LTE Band 13	7 dB
LTE Band 14	7 dB
LTE Band 2/25	9 dB
LTE Band 5/26	7.5 dB
LTE Band 30	9 dB
LTE Band 38/41	9 dB
LTE Band 4/66	10 dB
LTE Band 71	8 dB

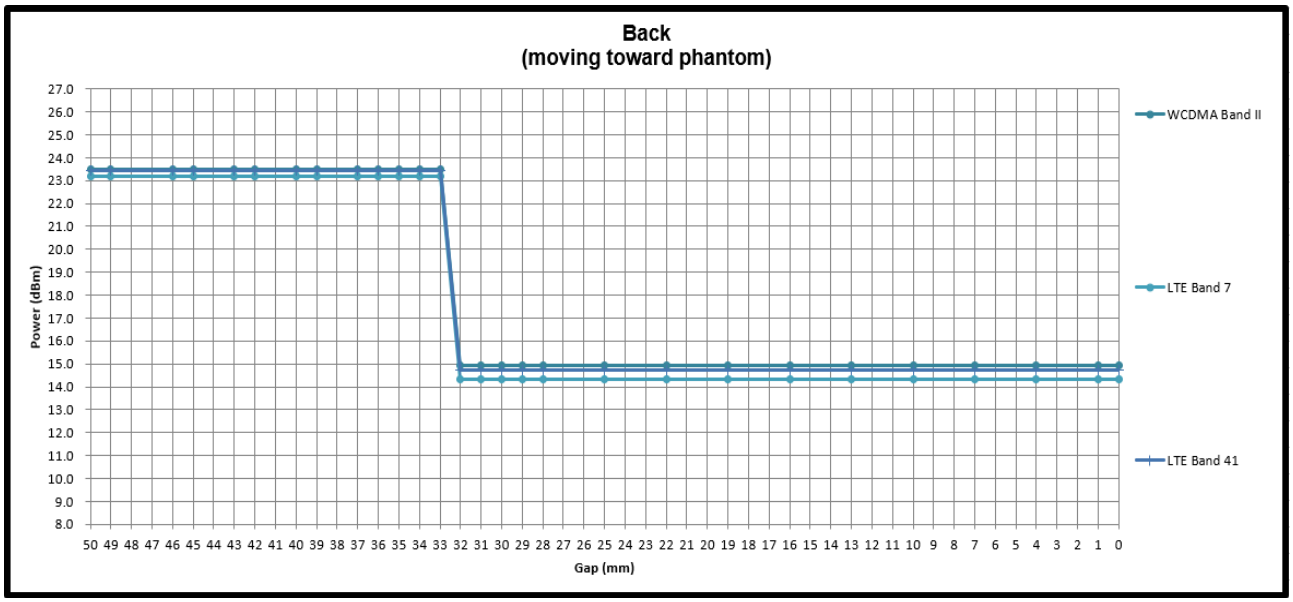
Remark:

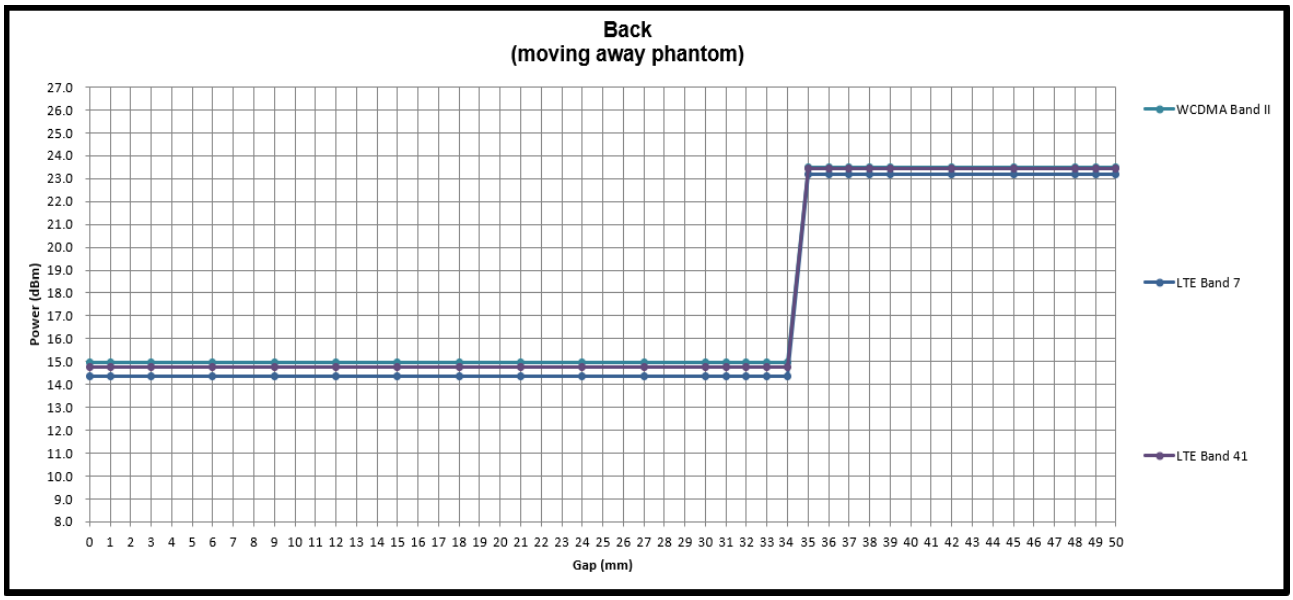
1. (1): Reduced maximum limit applied by activation of proximity sensor.
2. Tests were performed in accordance with KDB 616217 D04 section 6.1, 6.2, 6.3, 6.4 and 6.5 and compliant results are shown as below.
3. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance was performed:
   Main:
   - Bottom Side: 35 mm
   - Back: 31 mm
   - Top Edge: 34 mm
   - Right Edge: 14 mm

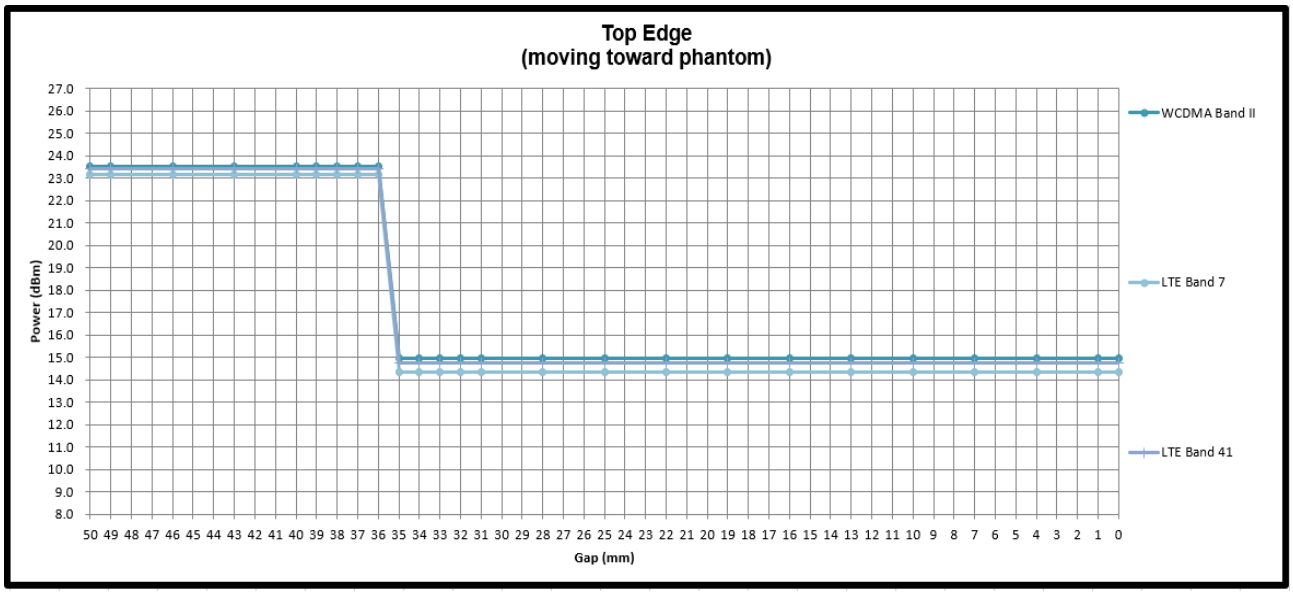
Power Measurement during Sensor Trigger distance testing

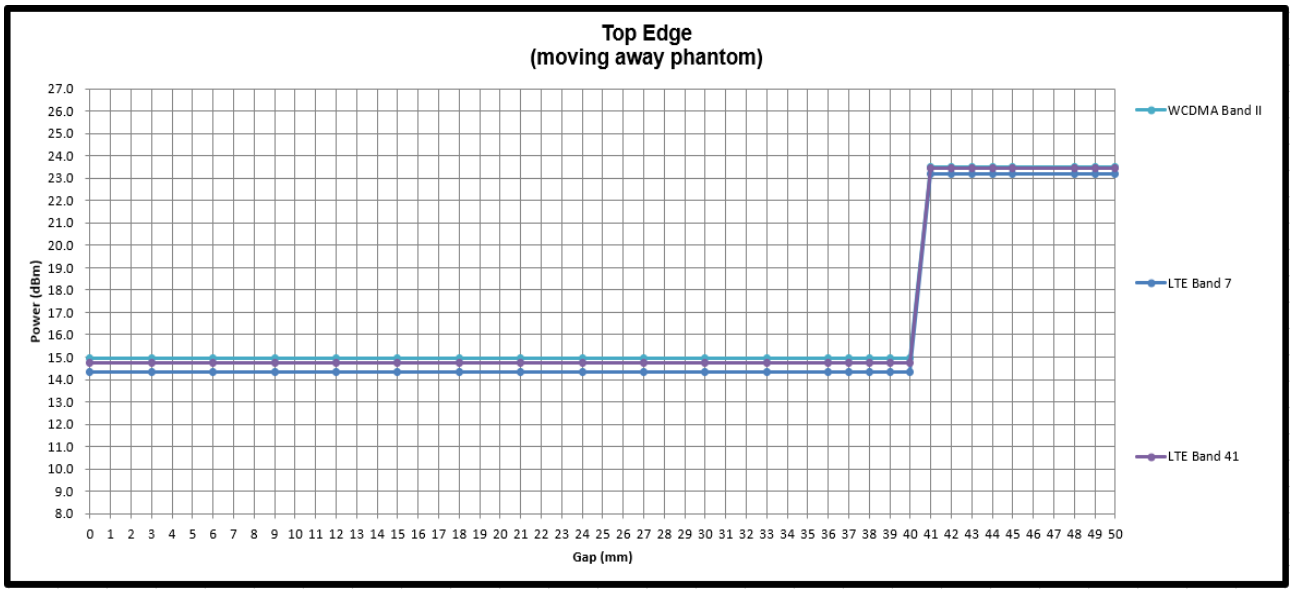


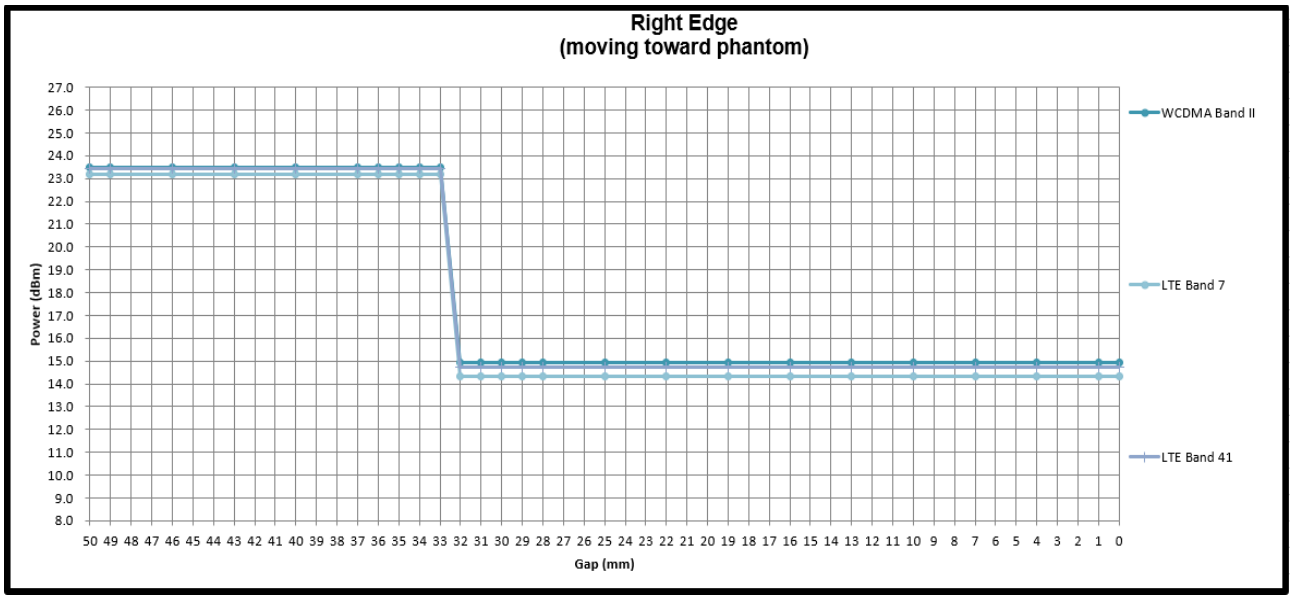


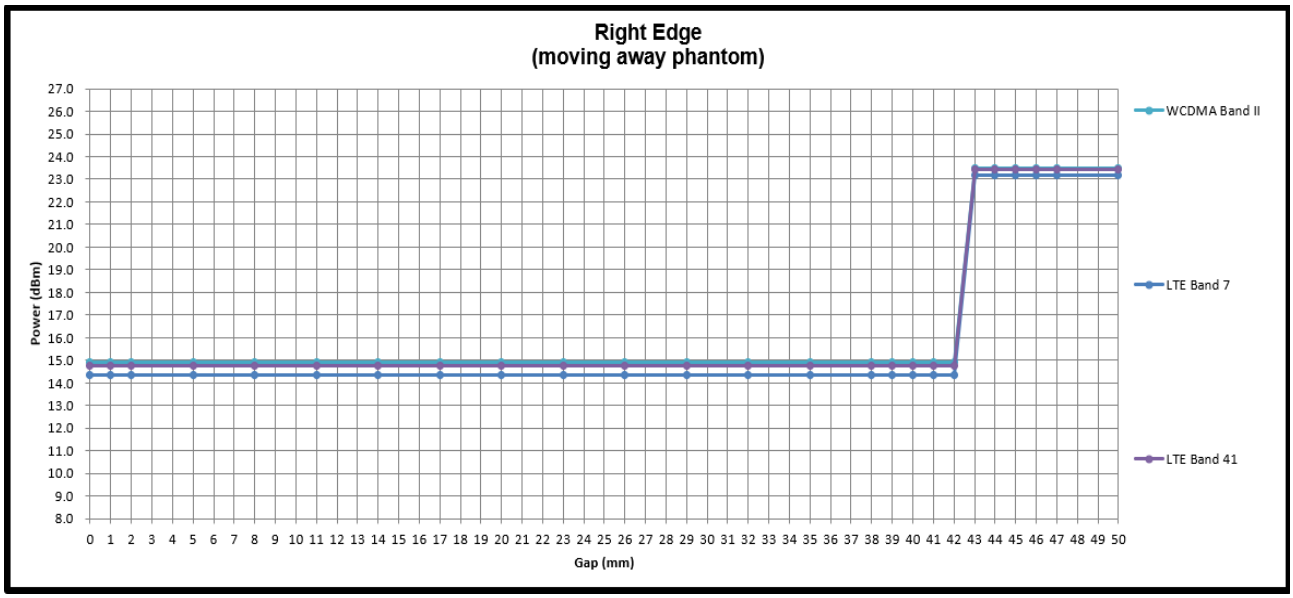

Back
(moving toward phantom)
Power (dBm)
Gap (mm)
WCDMA Band II
LTE Band 7
LTE Band 41


Back
(moving away phantom)
Power (dBm)
Gap (mm)
WCDMA Band II
LTE Band 7
LTE Band 41


Top Edge
(moving toward phantom)
Power (dBm)
Gap (mm)
WCDMA Band II
LTE Band 7
LTE Band 41


Top Edge
(moving away phantom)
Power (dBm)
Gap (mm)
WCDMA Band II
LTE Band 7
LTE Band 41


Right Edge
(moving toward phantom)
Power (dBm)
Gap (mm)
WCDMA Band II
LTE Band 7
LTE Band 41


Right Edge
(moving away phantom)
Power (dBm)
Gap (mm)
WCDMA Band II
LTE Band 7
LTE Band 41

5. RF Exposure Limits

5.1 Uncontrolled Environment

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

5.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

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 4cm^2 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/f2)	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/f2)	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:

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

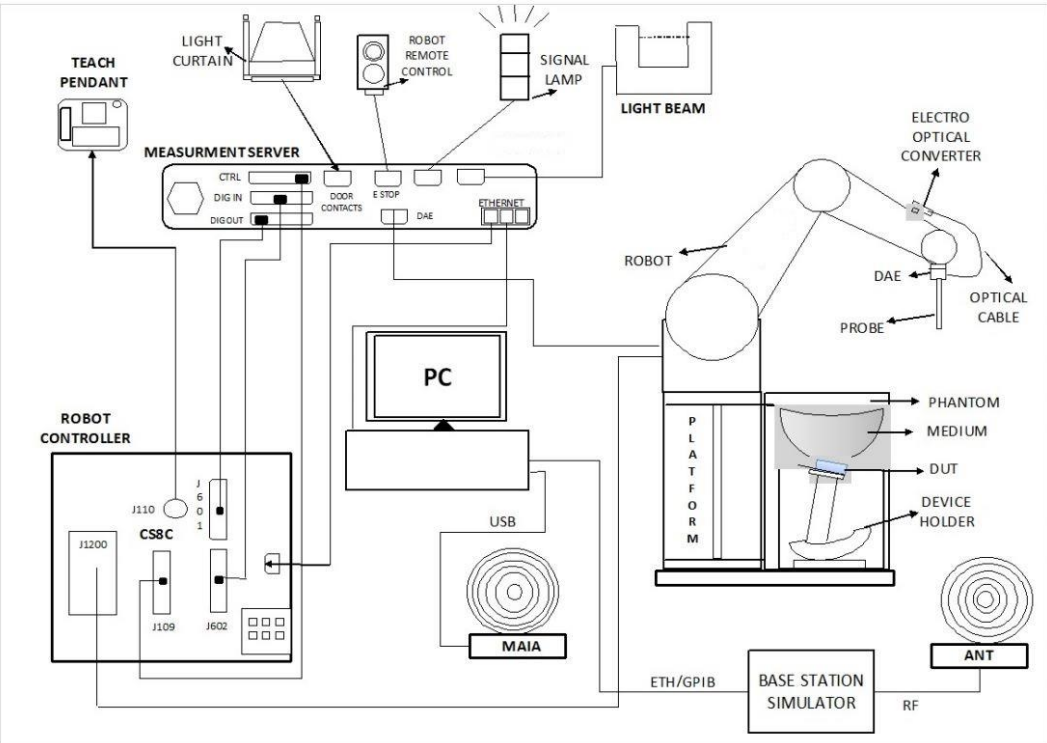
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

7. System Description and Setup

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



- 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 µW/g – >100 mW/g; Linearity: ±0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	

<EX3DV4 Probe>

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

7.3 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.

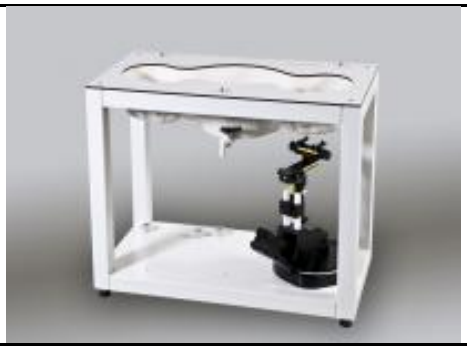
The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

Fig 5.1 Photo of DAE

7.4 Phantom

<SAM Twin Phantom>

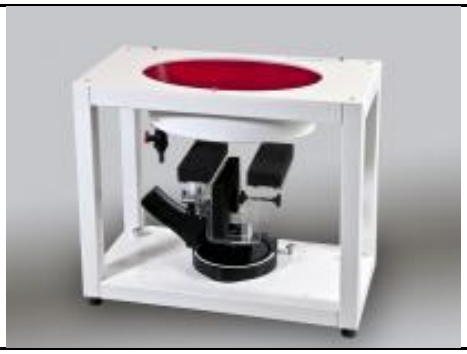
Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume	Approx. 25 liters
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet
Measurement Areas	Left Hand, Right Hand, Flat Phantom



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 form the measurement grid to the high-resolution grid
(e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
(f) Calculation of the averaged SAR within masses of 1g and 10g

8.2 Power Reference Measurement

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

8.3 Area Scan

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

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

8.4 Zoom Scan

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

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

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

8.5 Volume Scan Procedures

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

8.6 Power Drift Monitoring

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

9. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1012	Aug. 22, 2024	Aug. 21, 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	D1900V2	5d041	Aug. 15, 2024	Aug. 14, 2025
SPEAG	2300MHz System Validation Kit	D2300V2	1088	Jul. 10, 2024	Jul. 09, 2025
SPEAG	2600MHz System Validation Kit(2)	D2600V2	1078	Jun. 23, 2022	Jun. 20, 2025
SPEAG	Data Acquisition Electronics	DAE4	1311	Sep. 16, 2024	Sep. 15, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	3925	Apr. 24, 2024	Apr. 23, 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℃ to 25℃, 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℃ to 25℃ and within ± 2℃ 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. (℃)	Conductivity (σ)	Permittivity (ε_r)	Conductivity Target (σ)	Permittivity Target (ε_r)	Delta (σ) (%)	Delta (ε_r) (%)	Limit (%)	Date
750	22.2	0.893	42.800	0.89	41.90	0.34	2.15	±5	2025/1/27
750	22.3	0.895	42.900	0.89	41.90	0.56	2.39	±5	2025/1/28
750	22.1	0.890	42.300	0.89	41.90	0.00	0.95	±5	2025/1/29
750	22.6	0.887	42.200	0.89	41.90	-0.34	0.72	±5	2025/1/30
835	22.6	0.921	41.900	0.90	41.50	2.33	0.96	±5	2025/1/31
835	22.5	0.918	41.800	0.90	41.50	2.00	0.72	±5	2025/2/1
1750	22.4	1.360	41.100	1.37	40.10	-0.73	2.49	±5	2025/2/3
1750	22.4	1.370	41.100	1.37	40.10	0.00	2.49	±5	2025/2/4
1900	22.2	1.440	39.500	1.40	40.00	2.86	-1.25	±5	2025/2/6
1900	22.5	1.450	39.600	1.40	40.00	3.57	-1.00	±5	2025/2/7
2300	22.1	1.660	39.200	1.67	39.50	-0.60	-0.76	±5	2025/2/9
2600	22.3	2.010	38.100	1.96	39.00	2.55	-2.31	±5	2025/2/11
2600	22.7	2.020	38.100	1.96	39.00	3.06	-2.31	±5	2025/2/12

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-06	2025/1/27	750	50	D750V3-1012	EX3DV4 - SN3925	DAE4 Sn1311	0.426	8.400	8.52	1.43
SAR-06	2025/1/28	750	50	D750V3-1012	EX3DV4 - SN3925	DAE4 Sn1311	0.430	8.400	8.6	2.38
SAR-06	2025/1/29	750	50	D750V3-1012	EX3DV4 - SN3925	DAE4 Sn1311	0.429	8.400	8.58	2.14
SAR-06	2025/1/30	750	50	D750V3-1012	EX3DV4 - SN3925	DAE4 Sn1311	0.434	8.400	8.68	3.33
SAR-06	2025/1/31	835	50	D835V2-4d167	EX3DV4 - SN3925	DAE4 Sn1311	0.464	9.800	9.28	-5.31
SAR-06	2025/2/1	835	50	D835V2-4d167	EX3DV4 - SN3925	DAE4 Sn1311	0.463	9.800	9.26	-5.51
SAR-06	2025/2/3	1750	50	D1750V2-1068	EX3DV4 - SN3925	DAE4 Sn1311	1.780	36.700	35.6	-3.00
SAR-06	2025/2/4	1750	50	D1750V2-1068	EX3DV4 - SN3925	DAE4 Sn1311	1.790	36.700	35.8	-2.45
SAR-06	2025/2/6	1900	50	D1900V2-5d041	EX3DV4 - SN3925	DAE4 Sn1311	1.840	39.200	36.8	-6.12
SAR-06	2025/2/7	1900	50	D1900V2-5d041	EX3DV4 - SN3925	DAE4 Sn1311	1.900	39.200	38	-3.06
SAR-06	2025/2/9	2300	50	D2300V2-1088	EX3DV4 - SN3925	DAE4 Sn1311	2.310	48.200	46.2	-4.15
SAR-06	2025/2/11	2600	50	D2600V2-1078	EX3DV4 - SN3925	DAE4 Sn1311	2.810	55.400	56.2	1.44
SAR-06	2025/2/12	2600	50	D2600V2-1078	EX3DV4 - SN3925	DAE4 Sn1311	2.810	55.400	56.2	1.44

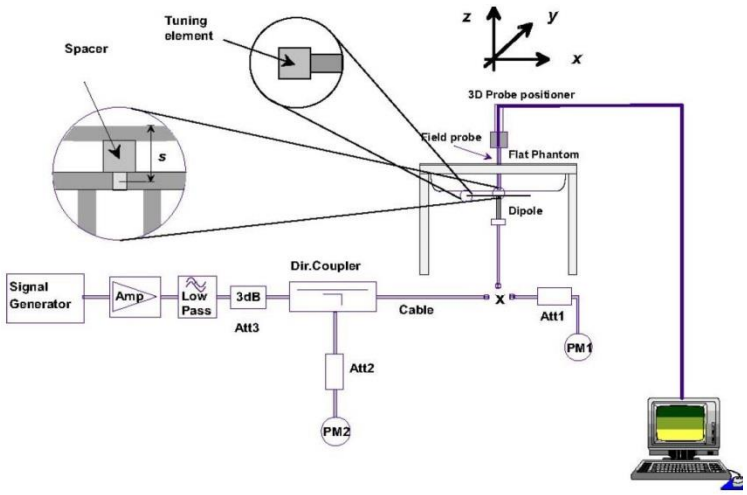


Fig 8.3.1 System Performance Check Setup

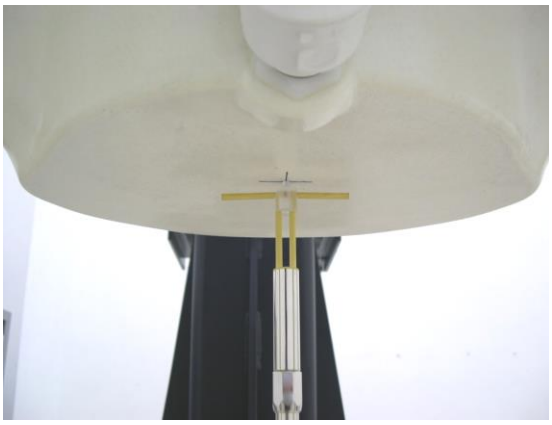


Fig 8.3.2 Setup Photo

11. 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 DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

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

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

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

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

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

Setup Configuration

HSUPA Setup Configuration:

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

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

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

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

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

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

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

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

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

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

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

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

C.8.1.12 Fixed Reference Channel Definition H-Set 12

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

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

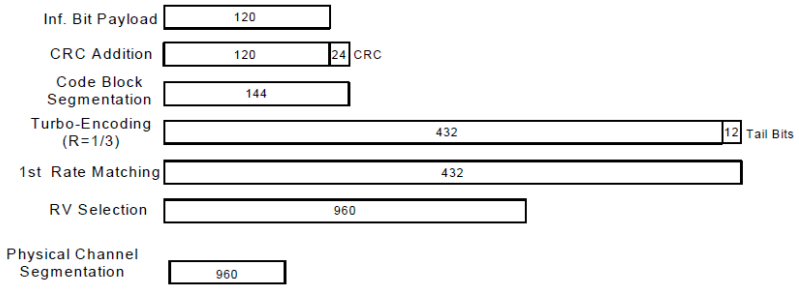


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

<WCDMA Conducted Power>

General Note:

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

Band		WCDMA II_Sensor OFF			Tune-up Limit (dBm)	WCDMA IV_Sensor OFF			Tune-up Limit (dBm)	WCDMA V_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	23.29	23.51	23.50	25.00	23.53	23.66	23.65	25.00	23.85	24.08	23.90	25.00
3GPP Rel 6	HSDPA Subtest-1	22.27	22.51	22.34	24.00	22.60	22.60	22.72	24.00	22.85	22.98	22.92	24.00
3GPP Rel 6	HSDPA Subtest-2	22.23	22.27	22.36	24.00	22.58	22.60	22.73	24.00	22.86	22.95	22.92	24.00
3GPP Rel 6	HSDPA Subtest-3	21.83	21.97	21.90	23.50	22.08	22.05	22.17	23.50	22.39	22.44	22.43	23.50
3GPP Rel 6	HSDPA Subtest-4	21.79	21.65	21.80	23.50	22.19	22.06	22.21	23.50	22.37	22.41	22.36	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.19	22.33	22.27	24.00	22.57	22.55	22.63	24.00	22.83	22.94	22.85	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.11	22.11	22.17	24.00	22.54	22.54	22.64	24.00	22.86	22.90	22.92	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.77	21.81	21.73	23.50	22.05	22.01	22.09	23.50	22.30	22.42	22.42	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.68	21.51	21.73	23.50	22.14	21.99	22.15	23.50	22.28	22.35	22.34	23.50
3GPP Rel 6	HSUPA Subtest-1	22.23	22.39	22.42	24.00	22.52	22.61	22.68	24.00	22.61	22.68	22.55	24.00
3GPP Rel 6	HSUPA Subtest-2	20.16	20.47	20.42	22.00	20.53	20.49	20.61	22.00	20.43	20.49	20.51	22.00
3GPP Rel 6	HSUPA Subtest-3	21.24	21.49	21.36	23.00	21.45	21.47	21.62	23.00	21.49	21.63	21.56	23.00
3GPP Rel 6	HSUPA Subtest-4	20.25	20.36	20.29	22.00	20.59	20.63	20.74	22.00	20.52	20.63	20.47	22.00
3GPP Rel 6	HSUPA Subtest-5	22.20	22.40	22.20	24.00	22.30	22.20	22.70	24.00	22.40	22.50	22.30	24.00

Band		WCDMA II_Sensor ON			Tune-up Limit (dBm)	WCDMA IV_Sensor ON			Tune-up Limit (dBm)	WCDMA V_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	14.70	14.94	14.77	15.50	14.51	14.59	14.57	15.00	16.54	16.67	16.58	17.00
3GPP Rel 6	HSDPA Subtest-1	13.64	13.92	13.58	14.50	13.50	13.51	13.62	14.00	15.40	15.57	15.52	16.00
3GPP Rel 6	HSDPA Subtest-2	13.61	13.65	13.58	14.50	13.54	13.44	13.59	14.00	15.39	15.52	15.50	16.00
3GPP Rel 6	HSDPA Subtest-3	13.22	13.31	13.16	14.00	12.98	12.91	13.00	13.50	14.89	14.96	15.02	15.50
3GPP Rel 6	HSDPA Subtest-4	13.16	13.06	13.06	14.00	13.14	12.96	13.06	13.50	14.94	14.90	14.97	15.50
3GPP Rel 8	DC-HSDPA Subtest-1	13.51	13.72	13.48	14.50	13.55	13.47	13.49	14.00	15.41	15.44	15.42	16.00
3GPP Rel 8	DC-HSDPA Subtest-2	13.48	13.51	13.34	14.50	13.49	13.41	13.47	14.00	15.43	15.41	15.52	16.00
3GPP Rel 8	DC-HSDPA Subtest-3	13.09	13.15	12.94	14.00	12.99	12.89	12.91	13.50	14.80	14.91	15.00	15.50
3GPP Rel 8	DC-HSDPA Subtest-4	13.07	12.91	12.99	14.00	13.05	12.88	13.02	13.50	14.82	14.87	14.89	15.50
3GPP Rel 6	HSUPA Subtest-1	13.60	13.80	13.59	14.50	13.49	13.51	13.52	14.00	15.16	15.17	15.15	16.00
3GPP Rel 6	HSUPA Subtest-2	11.53	11.80	11.63	12.50	11.49	11.35	11.48	12.00	12.98	13.07	13.06	14.00
3GPP Rel 6	HSUPA Subtest-3	12.61	12.82	12.53	13.50	12.37	12.31	12.51	13.00	14.01	14.22	14.16	15.00
3GPP Rel 6	HSUPA Subtest-4	11.57	11.73	11.46	12.50	11.49	11.53	11.66	12.00	13.05	13.21	12.99	14.00
3GPP Rel 6	HSUPA Subtest-5	13.51	13.74	13.44	14.50	13.23	13.13	13.58	14.00	14.95	14.99	14.90	16.00

<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 ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE 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 ≤ 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_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	23.10	23.18	23.07	24.5
20	QPSK	1	49	23.09	23.15	22.95	
20	QPSK	1	99	23.07	22.98	22.90	
20	QPSK	50	0	22.14	22.20	22.06	23.5
20	QPSK	50	24	22.09	22.15	22.03	
20	QPSK	50	50	22.08	22.12	22.05	
20	QPSK	100	0	22.07	22.11	22.05	
20	16QAM	1	0	22.42	22.55	22.39	23.5
20	16QAM	1	49	22.41	22.50	22.43	
20	16QAM	1	99	22.38	22.42	22.39	
20	16QAM	50	0	21.18	21.47	21.31	22.5
20	16QAM	50	24	21.16	21.57	21.38	
20	16QAM	50	50	21.20	21.54	21.33	
20	16QAM	100	0	21.31	21.50	21.42	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.07	23.00	22.94	24.5
15	QPSK	1	37	22.93	22.95	22.89	
15	QPSK	1	74	23.06	22.86	22.77	
15	QPSK	36	0	22.14	22.08	22.05	23.5
15	QPSK	36	20	21.98	22.09	21.99	
15	QPSK	36	39	21.91	22.08	21.99	
15	QPSK	75	0	21.93	22.06	21.97	
15	16QAM	1	0	22.42	22.35	22.22	23.5
15	16QAM	1	37	22.36	22.41	22.31	
15	16QAM	1	74	22.37	22.35	22.20	
15	16QAM	36	0	21.10	21.37	21.28	22.5
15	16QAM	36	20	20.99	21.40	21.35	
15	16QAM	36	39	21.16	21.43	21.16	
15	16QAM	75	0	21.27	21.32	21.24	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.96	23.11	22.99	24.5
10	QPSK	1	25	23.01	23.02	22.91	
10	QPSK	1	49	22.87	22.79	22.85	
10	QPSK	25	0	21.97	22.13	22.04	23.5
10	QPSK	25	12	21.99	22.01	21.86	
10	QPSK	25	25	22.00	22.12	21.92	
10	QPSK	50	0	21.93	22.04	21.89	
10	16QAM	1	0	22.30	22.46	22.21	23.5
10	16QAM	1	25	22.32	22.31	22.42	
10	16QAM	1	49	22.31	22.30	22.19	
10	16QAM	25	0	21.14	21.37	21.12	22.5
10	16QAM	25	12	21.02	21.50	21.22	
10	16QAM	25	25	21.16	21.34	21.14	
10	16QAM	50	0	21.18	21.42	21.40	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.00	23.17	22.93	24.5
5	QPSK	1	12	22.98	22.99	22.92	
5	QPSK	1	24	23.04	22.84	22.81	
5	QPSK	12	0	22.14	22.11	21.89	23.5
5	QPSK	12	7	22.02	21.98	21.91	
5	QPSK	12	13	22.01	22.01	22.03	
5	QPSK	25	0	22.02	21.98	21.97	
5	16QAM	1	0	22.24	22.48	22.38	23.5

5	16QAM	1	12	22.30	22.30	22.29	
5	16QAM	1	24	22.31	22.38	22.39	
5	16QAM	12	0	21.15	21.32	21.11	22.5
5	16QAM	12	7	21.15	21.40	21.31	
5	16QAM	12	13	21.01	21.35	21.21	
5	16QAM	25	0	21.20	21.30	21.42	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.03	22.98	22.93	24.5
3	QPSK	1	8	22.89	23.14	22.84	
3	QPSK	1	14	22.92	22.90	22.83	
3	QPSK	8	0	21.99	22.14	21.94	23.5
3	QPSK	8	4	21.97	22.14	21.87	
3	QPSK	8	7	21.97	22.12	21.88	
3	QPSK	15	0	21.98	22.05	21.83	
3	16QAM	1	0	22.25	22.46	22.29	23.5
3	16QAM	1	8	22.31	22.36	22.31	
3	16QAM	1	14	22.32	22.37	22.20	
3	16QAM	8	0	21.17	21.31	21.28	22.5
3	16QAM	8	4	21.02	21.49	21.19	
3	16QAM	8	7	21.01	21.46	21.26	
3	16QAM	15	0	21.20	21.46	21.35	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.96	23.03	22.92	24.5
1.4	QPSK	1	3	22.91	23.09	22.81	
1.4	QPSK	1	5	22.98	22.96	22.82	
1.4	QPSK	3	0	22.96	23.04	22.95	
1.4	QPSK	3	1	23.05	23.15	22.91	
1.4	QPSK	3	3	22.94	22.98	22.81	
1.4	QPSK	6	0	22.47	22.59	22.30	23.5
1.4	16QAM	1	0	22.38	22.37	22.24	23.5
1.4	16QAM	1	3	22.30	22.33	22.30	
1.4	16QAM	1	5	22.33	22.40	22.23	
1.4	16QAM	3	0	22.38	22.49	22.32	
1.4	16QAM	3	1	22.26	22.36	22.30	
1.4	16QAM	3	3	22.34	22.38	22.27	
1.4	16QAM	6	0	21.21	21.44	21.30	22.5

<LTE Band 2_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	14.31	14.35	14.24	15.5
20	QPSK	1	49	14.30	14.30	14.14	
20	QPSK	1	99	14.23	14.29	14.09	
20	QPSK	50	0	13.36	13.39	13.25	14.5
20	QPSK	50	24	13.34	13.37	13.24	
20	QPSK	50	50	13.33	13.35	13.22	
20	QPSK	100	0	13.32	13.38	13.23	
20	16QAM	1	0	13.65	13.55	13.52	14.5
20	16QAM	1	49	13.56	13.58	13.57	
20	16QAM	1	99	13.55	13.55	13.43	
20	16QAM	50	0	12.42	12.43	12.27	13.5
20	16QAM	50	24	12.45	12.48	12.32	
20	16QAM	50	50	12.40	12.45	12.30	
20	16QAM	100	0	12.39	12.39	12.26	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	14.31	14.32	14.20	15.5
15	QPSK	1	37	14.24	14.27	14.08	
15	QPSK	1	74	14.23	14.23	14.03	
15	QPSK	36	0	13.35	13.31	13.16	14.5
15	QPSK	36	20	13.32	13.34	13.24	
15	QPSK	36	39	13.33	13.30	13.16	
15	QPSK	75	0	13.25	13.36	13.22	
15	16QAM	1	0	13.56	13.55	13.51	14.5
15	16QAM	1	37	13.46	13.54	13.55	
15	16QAM	1	74	13.47	13.45	13.40	
15	16QAM	36	0	12.34	12.40	12.27	13.5
15	16QAM	36	20	12.44	12.47	12.23	
15	16QAM	36	39	12.31	12.37	12.25	
15	16QAM	75	0	12.30	12.37	12.21	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	14.21	14.27	14.15	15.5
10	QPSK	1	25	14.28	14.24	14.07	
10	QPSK	1	49	14.16	14.29	14.04	
10	QPSK	25	0	13.31	13.31	13.17	14.5
10	QPSK	25	12	13.33	13.31	13.24	
10	QPSK	25	25	13.25	13.30	13.22	
10	QPSK	50	0	13.32	13.28	13.22	
10	16QAM	1	0	13.58	13.50	13.43	14.5
10	16QAM	1	25	13.47	13.50	13.48	
10	16QAM	1	49	13.46	13.51	13.36	
10	16QAM	25	0	12.35	12.41	12.17	13.5
10	16QAM	25	12	12.41	12.44	12.27	
10	16QAM	25	25	12.32	12.44	12.27	
10	16QAM	50	0	12.31	12.34	12.22	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	14.23	14.27	14.20	15.5
5	QPSK	1	12	14.21	14.23	14.14	
5	QPSK	1	24	14.17	14.22	13.99	
5	QPSK	12	0	13.29	13.36	13.17	14.5
5	QPSK	12	7	13.33	13.29	13.21	
5	QPSK	12	13	13.32	13.28	13.17	
5	QPSK	25	0	13.25	13.29	13.14	
5	16QAM	1	0	13.55	13.45	13.46	14.5

5	16QAM	1	12	13.50	13.56	13.56	
5	16QAM	1	24	13.50	13.46	13.34	
5	16QAM	12	0	12.40	12.36	12.20	13.5
5	16QAM	12	7	12.44	12.46	12.26	
5	16QAM	12	13	12.35	12.36	12.23	
5	16QAM	25	0	12.29	12.34	12.18	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	14.28	14.27	14.14	15.5
3	QPSK	1	8	14.24	14.20	14.13	
3	QPSK	1	14	14.22	14.25	14.05	
3	QPSK	8	0	13.33	13.35	13.15	14.5
3	QPSK	8	4	13.31	13.31	13.18	
3	QPSK	8	7	13.25	13.33	13.20	
3	QPSK	15	0	13.22	13.34	13.15	
3	16QAM	1	0	13.65	13.45	13.49	14.5
3	16QAM	1	8	13.56	13.55	13.52	
3	16QAM	1	14	13.49	13.55	13.33	
3	16QAM	8	0	12.38	12.42	12.23	13.5
3	16QAM	8	4	12.41	12.48	12.22	
3	16QAM	8	7	12.39	12.35	12.29	
3	16QAM	15	0	12.30	12.34	12.21	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	14.25	14.29	14.18	15.5
1.4	QPSK	1	3	14.20	14.25	14.14	
1.4	QPSK	1	5	14.23	14.26	14.06	
1.4	QPSK	3	0	14.27	14.35	14.17	
1.4	QPSK	3	1	14.25	14.27	14.13	
1.4	QPSK	3	3	14.18	14.20	13.99	
1.4	QPSK	6	0	13.32	13.33	13.23	14.5
1.4	16QAM	1	0	14.28	14.32	14.17	14.5
1.4	16QAM	1	3	14.30	14.25	14.14	
1.4	16QAM	1	5	14.23	14.19	14.00	
1.4	16QAM	3	0	14.28	14.24	14.07	
1.4	16QAM	3	1	14.19	14.16	14.05	
1.4	16QAM	3	3	14.17	14.17	14.01	
1.4	16QAM	6	0	12.32	12.35	12.23	13.5

<LTE Band 4_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	23.65	23.66	23.54	24.5
20	QPSK	1	49	23.64	23.57	23.48	
20	QPSK	1	99	23.55	23.50	23.50	
20	QPSK	50	0	22.62	22.69	22.66	23.5
20	QPSK	50	24	22.55	22.63	22.65	
20	QPSK	50	50	22.62	22.65	22.64	
20	QPSK	100	0	22.59	22.65	22.62	
20	16QAM	1	0	22.96	22.80	22.84	23.5
20	16QAM	1	49	22.93	22.74	22.81	
20	16QAM	1	99	22.76	22.74	22.78	
20	16QAM	50	0	21.65	21.61	21.63	22.5
20	16QAM	50	24	21.77	21.67	21.66	
20	16QAM	50	50	21.61	21.62	21.66	
20	16QAM	100	0	21.72	21.62	21.63	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.60	23.59	23.53	24.5
15	QPSK	1	37	23.49	23.37	23.33	
15	QPSK	1	74	23.54	23.50	23.44	
15	QPSK	36	0	22.60	22.58	22.53	23.5
15	QPSK	36	20	22.58	22.46	22.51	
15	QPSK	36	39	22.48	22.63	22.52	
15	QPSK	75	0	22.62	22.55	22.55	
15	16QAM	1	0	22.78	22.72	22.84	23.5
15	16QAM	1	37	22.85	22.69	22.70	
15	16QAM	1	74	22.62	22.62	22.75	
15	16QAM	36	0	21.59	21.59	21.63	22.5
15	16QAM	36	20	21.67	21.54	21.60	
15	16QAM	36	39	21.61	21.47	21.50	
15	16QAM	75	0	21.68	21.61	21.51	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.58	23.49	23.35	24.5
10	QPSK	1	25	23.62	23.47	23.47	
10	QPSK	1	49	23.47	23.31	23.48	
10	QPSK	25	0	22.60	22.53	22.57	23.5
10	QPSK	25	12	22.48	22.60	22.48	
10	QPSK	25	25	22.61	22.47	22.50	
10	QPSK	50	0	22.67	22.56	22.61	
10	16QAM	1	0	22.82	22.63	22.76	23.5
10	16QAM	1	25	22.83	22.58	22.71	
10	16QAM	1	49	22.65	22.65	22.63	
10	16QAM	25	0	21.55	21.59	21.53	22.5
10	16QAM	25	12	21.75	21.66	21.62	
10	16QAM	25	25	21.56	21.53	21.62	
10	16QAM	50	0	21.52	21.57	21.46	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.52	23.44	23.53	24.5
5	QPSK	1	12	23.53	23.49	23.42	
5	QPSK	1	24	23.51	23.33	23.42	
5	QPSK	12	0	22.71	22.62	22.62	23.5
5	QPSK	12	7	22.60	22.45	22.45	
5	QPSK	12	13	22.47	22.47	22.62	
5	QPSK	25	0	22.68	22.52	22.46	
5	16QAM	1	0	22.89	22.76	22.83	23.5

5	16QAM	1	12	22.87	22.63	22.63	
5	16QAM	1	24	22.68	22.55	22.60	
5	16QAM	12	0	21.50	21.47	21.59	22.5
5	16QAM	12	7	21.62	21.62	21.55	
5	16QAM	12	13	21.50	21.43	21.63	
5	16QAM	25	0	21.69	21.50	21.55	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	23.46	23.63	23.35	24.5
3	QPSK	1	8	23.64	23.55	23.36	
3	QPSK	1	14	23.54	23.39	23.47	
3	QPSK	8	0	22.58	22.62	22.49	23.5
3	QPSK	8	4	22.58	22.63	22.57	
3	QPSK	8	7	22.42	22.46	22.48	
3	QPSK	15	0	22.52	22.52	22.53	
3	16QAM	1	0	22.88	22.69	22.70	23.5
3	16QAM	1	8	22.77	22.54	22.75	
3	16QAM	1	14	22.74	22.64	22.59	
3	16QAM	8	0	21.62	21.57	21.48	22.5
3	16QAM	8	4	21.76	21.52	21.59	
3	16QAM	8	7	21.50	21.42	21.60	
3	16QAM	15	0	21.60	21.51	21.47	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.63	23.49	23.50	24.5
1.4	QPSK	1	3	23.59	23.47	23.32	
1.4	QPSK	1	5	23.50	23.32	23.36	
1.4	QPSK	3	0	23.60	23.54	23.50	
1.4	QPSK	3	1	23.52	23.52	23.40	
1.4	QPSK	3	3	23.48	23.45	23.41	
1.4	QPSK	6	0	22.51	22.58	22.46	23.5
1.4	16QAM	1	0	22.92	22.63	22.81	23.5
1.4	16QAM	1	3	22.77	22.65	22.62	
1.4	16QAM	1	5	22.57	22.70	22.68	
1.4	16QAM	3	0	22.88	22.71	22.71	
1.4	16QAM	3	1	22.91	22.71	22.67	
1.4	16QAM	3	3	22.57	22.72	22.58	
1.4	16QAM	6	0	21.55	21.59	21.59	22.5

<LTE Band 4_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	13.90	13.92	13.83	14.5
20	QPSK	1	49	13.84	13.91	13.75	
20	QPSK	1	99	13.77	13.76	13.76	
20	QPSK	50	0	12.85	12.90	12.83	13.5
20	QPSK	50	24	12.83	12.87	12.82	
20	QPSK	50	50	12.84	12.83	12.82	
20	QPSK	100	0	12.77	12.87	12.80	
20	16QAM	1	0	13.22	13.27	13.18	13.5
20	16QAM	1	49	13.24	13.30	13.25	
20	16QAM	1	99	13.16	13.17	13.14	
20	16QAM	50	0	11.89	11.88	11.88	12.5
20	16QAM	50	24	11.93	11.96	11.88	
20	16QAM	50	50	11.88	11.85	11.85	
20	16QAM	100	0	11.89	11.93	11.88	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	13.90	13.83	13.81	14.5
15	QPSK	1	37	13.83	13.81	13.75	
15	QPSK	1	74	13.67	13.72	13.69	
15	QPSK	36	0	12.82	12.82	12.79	13.5
15	QPSK	36	20	12.79	12.87	12.78	
15	QPSK	36	39	12.82	12.83	12.77	
15	QPSK	75	0	12.70	12.85	12.78	
15	16QAM	1	0	13.14	13.24	13.17	13.5
15	16QAM	1	37	13.23	13.20	13.16	
15	16QAM	1	74	13.07	13.12	13.06	
15	16QAM	36	0	11.89	11.81	11.81	12.5
15	16QAM	36	20	11.93	11.91	11.88	
15	16QAM	36	39	11.88	11.79	11.79	
15	16QAM	75	0	11.89	11.89	11.88	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	13.90	13.89	13.78	14.5
10	QPSK	1	25	13.74	13.85	13.70	
10	QPSK	1	49	13.69	13.74	13.71	
10	QPSK	25	0	12.82	12.90	12.78	13.5
10	QPSK	25	12	12.76	12.83	12.79	
10	QPSK	25	25	12.76	12.79	12.81	
10	QPSK	50	0	12.74	12.87	12.77	
10	16QAM	1	0	13.22	13.21	13.18	13.5
10	16QAM	1	25	13.16	13.21	13.16	
10	16QAM	1	49	13.12	13.11	13.11	
10	16QAM	25	0	11.86	11.79	11.83	12.5
10	16QAM	25	12	11.91	11.86	11.87	
10	16QAM	25	25	11.85	11.77	11.78	
10	16QAM	50	0	11.84	11.87	11.81	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	13.81	13.84	13.73	14.5
5	QPSK	1	12	13.75	13.87	13.68	
5	QPSK	1	24	13.77	13.69	13.74	
5	QPSK	12	0	12.80	12.90	12.80	13.5
5	QPSK	12	7	12.76	12.81	12.74	
5	QPSK	12	13	12.75	12.80	12.82	
5	QPSK	25	0	12.75	12.87	12.78	
5	16QAM	1	0	13.14	13.21	13.17	13.5

5	16QAM	1	12	13.15	13.23	13.20	
5	16QAM	1	24	13.09	13.07	13.12	
5	16QAM	12	0	11.85	11.78	11.79	12.5
5	16QAM	12	7	11.92	11.89	11.86	
5	16QAM	12	13	11.84	11.78	11.78	
5	16QAM	25	0	11.89	11.83	11.83	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	13.84	13.86	13.77	14.5
3	QPSK	1	8	13.76	13.81	13.68	
3	QPSK	1	14	13.67	13.76	13.71	
3	QPSK	8	0	12.85	12.83	12.82	13.5
3	QPSK	8	4	12.80	12.85	12.78	
3	QPSK	8	7	12.75	12.79	12.73	
3	QPSK	15	0	12.69	12.84	12.73	
3	16QAM	1	0	13.22	13.27	13.10	13.5
3	16QAM	1	8	13.17	13.20	13.16	
3	16QAM	1	14	13.11	13.12	13.10	
3	16QAM	8	0	11.83	11.87	11.79	12.5
3	16QAM	8	4	11.85	11.92	11.79	
3	16QAM	8	7	11.84	11.85	11.76	
3	16QAM	15	0	11.80	11.92	11.80	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	13.89	13.85	13.73	14.5
1.4	QPSK	1	3	13.80	13.89	13.66	
1.4	QPSK	1	5	13.69	13.76	13.76	
1.4	QPSK	3	0	13.82	13.92	13.82	
1.4	QPSK	3	1	13.84	13.84	13.75	
1.4	QPSK	3	3	13.68	13.73	13.68	
1.4	QPSK	6	0	12.78	12.79	12.76	13.5
1.4	16QAM	1	0	12.80	12.76	12.68	13.5
1.4	16QAM	1	3	12.65	12.69	12.70	
1.4	16QAM	1	5	12.69	12.84	12.64	
1.4	16QAM	3	0	13.15	13.25	13.05	
1.4	16QAM	3	1	13.09	13.15	13.07	
1.4	16QAM	3	3	13.06	13.04	13.02	
1.4	16QAM	6	0	11.79	11.86	11.79	12.5

<LTE Band 5_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	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.61	23.67	23.64	24.5
10	QPSK	1	25	23.59	23.65	23.60	
10	QPSK	1	49	23.56	23.58	23.52	
10	QPSK	25	0	22.78	22.79	22.72	23.5
10	QPSK	25	12	22.71	22.74	22.66	
10	QPSK	25	25	22.75	22.72	22.69	
10	QPSK	50	0	22.78	22.78	22.71	
10	16QAM	1	0	22.95	22.96	22.91	23.5
10	16QAM	1	25	22.90	22.94	22.90	
10	16QAM	1	49	22.90	22.84	22.67	
10	16QAM	25	0	21.76	21.80	21.77	22.5
10	16QAM	25	12	21.83	21.84	21.79	
10	16QAM	25	25	21.79	21.78	21.73	
10	16QAM	50	0	21.80	21.76	21.76	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.56	23.47	23.60	24.5
5	QPSK	1	12	23.42	23.48	23.55	
5	QPSK	1	24	23.44	23.54	23.39	
5	QPSK	12	0	22.62	22.68	22.64	23.5
5	QPSK	12	7	22.61	22.64	22.61	
5	QPSK	12	13	22.66	22.69	22.68	
5	QPSK	25	0	22.49	22.56	22.54	
5	16QAM	1	0	22.84	22.93	22.72	23.5
5	16QAM	1	12	22.71	22.88	22.71	
5	16QAM	1	24	22.84	22.76	22.63	
5	16QAM	12	0	21.64	21.69	21.66	22.5
5	16QAM	12	7	21.80	21.82	21.61	
5	16QAM	12	13	21.71	21.70	21.69	
5	16QAM	25	0	21.77	21.68	21.57	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.59	23.61	23.51	24.5
3	QPSK	1	8	23.54	23.55	23.42	
3	QPSK	1	14	23.44	23.39	23.34	
3	QPSK	8	0	22.71	22.67	22.58	23.5
3	QPSK	8	4	22.64	22.65	22.65	
3	QPSK	8	7	22.66	22.56	22.67	
3	QPSK	15	0	22.63	22.74	22.66	
3	16QAM	1	0	22.92	22.76	22.86	23.5
3	16QAM	1	8	22.86	22.93	22.88	
3	16QAM	1	14	22.77	22.75	22.57	
3	16QAM	8	0	21.69	21.75	21.73	22.5
3	16QAM	8	4	21.67	21.70	21.61	
3	16QAM	8	7	21.74	21.61	21.56	
3	16QAM	15	0	21.67	21.74	21.67	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.50	23.65	23.58	24.5
1.4	QPSK	1	3	23.42	23.60	23.45	
1.4	QPSK	1	5	23.40	23.48	23.33	
1.4	QPSK	3	0	23.60	23.51	23.48	
1.4	QPSK	3	1	23.55	23.50	23.53	
1.4	QPSK	3	3	23.42	23.52	23.48	
1.4	QPSK	6	0	22.78	22.80	22.54	23.5
1.4	16QAM	1	0	22.88	22.79	22.79	23.5
1.4	16QAM	1	3	22.82	22.86	22.78	
1.4	16QAM	1	5	22.80	22.73	22.59	
1.4	16QAM	3	0	22.88	22.82	22.72	
1.4	16QAM	3	1	22.83	22.93	22.89	
1.4	16QAM	3	3	22.72	22.71	22.58	
1.4	16QAM	6	0	21.61	21.63	21.71	22.5

<LTE Band 5_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	15.77	15.89	15.85	17
10	QPSK	1	25	15.75	15.85	15.81	
10	QPSK	1	49	15.75	15.79	15.72	
10	QPSK	25	0	14.85	14.95	14.93	16
10	QPSK	25	12	14.86	14.90	14.91	
10	QPSK	25	25	14.82	14.86	14.82	
10	QPSK	50	0	14.82	14.90	14.89	
10	16QAM	1	0	15.10	15.23	15.15	16
10	16QAM	1	25	15.11	15.12	15.06	
10	16QAM	1	49	15.04	15.13	15.09	
10	16QAM	25	0	13.85	13.90	13.93	15
10	16QAM	25	12	14.00	13.90	13.90	
10	16QAM	25	25	13.91	13.87	13.85	
10	16QAM	50	0	13.91	13.94	13.88	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	15.76	15.88	15.85	17
5	QPSK	1	12	15.67	15.78	15.74	
5	QPSK	1	24	15.68	15.76	15.62	
5	QPSK	12	0	14.75	14.94	14.87	16
5	QPSK	12	7	14.80	14.85	14.81	
5	QPSK	12	13	14.73	14.83	14.78	
5	QPSK	25	0	14.75	14.89	14.84	
5	16QAM	1	0	15.01	15.15	15.09	16
5	16QAM	1	12	15.09	15.10	15.05	
5	16QAM	1	24	14.96	15.07	15.04	
5	16QAM	12	0	13.80	13.82	13.91	15
5	16QAM	12	7	13.95	13.80	13.85	
5	16QAM	12	13	13.86	13.78	13.77	
5	16QAM	25	0	13.81	13.85	13.84	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	15.69	15.89	15.82	17
3	QPSK	1	8	15.65	15.81	15.73	
3	QPSK	1	14	15.68	15.72	15.65	
3	QPSK	8	0	14.76	14.93	14.90	16
3	QPSK	8	4	14.82	14.80	14.85	
3	QPSK	8	7	14.81	14.82	14.82	
3	QPSK	15	0	14.77	14.80	14.85	
3	16QAM	1	0	15.09	15.16	15.06	16
3	16QAM	1	8	15.03	15.11	14.98	
3	16QAM	1	14	14.98	15.06	15.08	
3	16QAM	8	0	13.81	13.89	13.93	15
3	16QAM	8	4	13.91	13.85	13.88	
3	16QAM	8	7	13.81	13.86	13.80	
3	16QAM	15	0	13.83	13.91	13.88	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	15.73	15.86	15.79	17
1.4	QPSK	1	3	15.74	15.80	15.79	
1.4	QPSK	1	5	15.67	15.78	15.64	
1.4	QPSK	3	0	15.73	15.81	15.78	
1.4	QPSK	3	1	15.71	15.78	15.73	
1.4	QPSK	3	3	15.66	15.71	15.72	
1.4	QPSK	6	0	14.76	14.84	14.82	16
1.4	16QAM	1	0	15.04	15.22	15.11	16
1.4	16QAM	1	3	15.04	15.03	15.04	
1.4	16QAM	1	5	14.95	15.12	15.04	
1.4	16QAM	3	0	14.82	14.88	14.91	
1.4	16QAM	3	1	14.82	14.84	14.91	
1.4	16QAM	3	3	14.73	14.83	14.74	
1.4	16QAM	6	0	13.89	13.85	13.85	15

<LTE Band 7_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	23.20	22.90	22.32	24
20	QPSK	1	49	23.17	22.70	22.24	
20	QPSK	1	99	23.00	22.66	22.24	
20	QPSK	50	0	22.57	22.03	21.58	23
20	QPSK	50	24	22.47	22.02	21.50	
20	QPSK	50	50	22.23	21.95	21.47	
20	QPSK	100	0	22.29	21.99	21.46	
20	16QAM	1	0	22.32	21.82	21.35	23
20	16QAM	1	49	22.29	21.79	21.30	
20	16QAM	1	99	22.17	21.74	21.26	
20	16QAM	50	0	21.33	20.85	20.36	22
20	16QAM	50	24	21.27	20.83	20.28	
20	16QAM	50	50	21.16	20.82	20.24	
20	16QAM	100	0	21.16	20.82	20.19	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.06	22.80	22.14	24
15	QPSK	1	37	23.02	22.53	22.22	
15	QPSK	1	74	22.85	22.47	22.14	
15	QPSK	36	0	22.45	21.88	21.46	23
15	QPSK	36	20	22.27	21.92	21.40	
15	QPSK	36	39	22.08	21.91	21.40	
15	QPSK	75	0	22.11	21.98	21.38	
15	16QAM	1	0	22.15	21.65	21.33	23
15	16QAM	1	37	22.13	21.69	21.15	
15	16QAM	1	74	22.09	21.67	21.23	
15	16QAM	36	0	21.28	20.79	20.30	22
15	16QAM	36	20	21.19	20.70	20.23	
15	16QAM	36	39	21.15	20.67	20.17	
15	16QAM	75	0	20.98	20.66	20.07	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.03	22.72	22.22	24
10	QPSK	1	25	23.05	22.66	22.15	
10	QPSK	1	49	22.82	22.61	22.06	
10	QPSK	25	0	22.37	21.93	21.39	23
10	QPSK	25	12	22.47	22.02	21.48	
10	QPSK	25	25	22.23	21.95	21.27	
10	QPSK	50	0	22.09	21.94	21.34	
10	16QAM	1	0	22.14	21.82	21.30	23
10	16QAM	1	25	22.24	21.66	21.26	
10	16QAM	1	49	22.03	21.69	21.16	
10	16QAM	25	0	21.17	20.73	20.29	22
10	16QAM	25	12	21.12	20.78	20.14	
10	16QAM	25	25	21.06	20.62	20.23	
10	16QAM	50	0	21.16	20.82	20.17	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.17	22.72	22.19	24
5	QPSK	1	12	23.09	22.63	22.23	
5	QPSK	1	24	22.95	22.58	22.23	
5	QPSK	12	0	22.50	22.01	21.56	23
5	QPSK	12	7	22.29	21.87	21.45	
5	QPSK	12	13	22.03	21.84	21.44	
5	QPSK	25	0	22.27	21.84	21.46	

5	16QAM	1	0	22.25	21.73	21.30	23
5	16QAM	1	12	22.12	21.77	21.17	
5	16QAM	1	24	22.15	21.67	21.17	
5	16QAM	12	0	21.15	20.83	20.16	22
5	16QAM	12	7	21.15	20.77	20.27	
5	16QAM	12	13	20.97	20.77	20.13	
5	16QAM	25	0	21.11	20.73	20.12	

<LTE Band 7_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	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	12.11	11.75	11.70	12.5
20	QPSK	1	49	12.03	11.73	11.71	
20	QPSK	1	99	11.78	11.62	11.67	
20	QPSK	50	0	11.17	10.86	10.89	11.5
20	QPSK	50	24	11.10	10.85	10.83	
20	QPSK	50	50	11.10	10.79	10.81	
20	QPSK	100	0	10.97	10.81	10.82	
20	16QAM	1	0	11.37	11.04	10.89	11.5
20	16QAM	1	49	11.23	11.01	10.99	
20	16QAM	1	99	11.01	10.92	10.98	
20	16QAM	50	0	10.10	9.85	9.80	10.5
20	16QAM	50	24	10.08	9.85	9.81	
20	16QAM	50	50	9.97	9.81	9.84	
20	16QAM	100	0	9.95	9.80	9.79	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	12.10	11.67	11.63	12.5
15	QPSK	1	37	11.96	11.69	11.61	
15	QPSK	1	74	11.70	11.52	11.59	
15	QPSK	36	0	11.07	10.80	10.89	11.5
15	QPSK	36	20	11.00	10.85	10.81	
15	QPSK	36	39	11.04	10.69	10.80	
15	QPSK	75	0	10.89	10.77	10.82	
15	16QAM	1	0	11.36	10.97	10.85	11.5
15	16QAM	1	37	11.15	10.92	10.96	
15	16QAM	1	74	10.96	10.89	10.93	
15	16QAM	36	0	10.01	9.79	9.70	10.5
15	16QAM	36	20	10.00	9.85	9.75	
15	16QAM	36	39	9.92	9.81	9.80	
15	16QAM	75	0	9.95	9.71	9.72	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	12.04	11.67	11.69	12.5
10	QPSK	1	25	11.96	11.67	11.63	
10	QPSK	1	49	11.74	11.54	11.62	
10	QPSK	25	0	11.17	10.81	10.81	11.5
10	QPSK	25	12	11.00	10.84	10.77	
10	QPSK	25	25	11.07	10.79	10.71	
10	QPSK	50	0	10.87	10.81	10.75	
10	16QAM	1	0	11.30	11.04	10.86	11.5
10	16QAM	1	25	11.18	10.95	10.96	
10	16QAM	1	49	11.00	10.89	10.94	
10	16QAM	25	0	10.08	9.80	9.75	10.5
10	16QAM	25	12	9.99	9.85	9.80	
10	16QAM	25	25	9.95	9.73	9.76	
10	16QAM	50	0	9.94	9.74	9.79	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	

5	QPSK	1	0	12.01	11.70	11.65	12.5
5	QPSK	1	12	11.95	11.70	11.63	
5	QPSK	1	24	11.78	11.54	11.57	
5	QPSK	12	0	11.10	10.82	10.89	11.5
5	QPSK	12	7	11.06	10.76	10.77	
5	QPSK	12	13	11.01	10.73	10.77	
5	QPSK	25	0	10.91	10.74	10.75	
5	16QAM	1	0	11.32	10.96	10.88	11.5
5	16QAM	1	12	11.21	10.99	10.89	
5	16QAM	1	24	10.98	10.90	10.91	
5	16QAM	12	0	10.08	9.81	9.71	10.5
5	16QAM	12	7	10.00	9.85	9.76	
5	16QAM	12	13	9.92	9.77	9.78	
5	16QAM	25	0	9.91	9.78	9.69	

<LTE Band 12_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	23.40	23.42	23.41	24.5
10	QPSK	1	25	23.33	23.37	23.40	
10	QPSK	1	49	23.29	23.35	23.17	
10	QPSK	25	0	22.52	22.59	22.40	23.5
10	QPSK	25	12	22.49	22.54	22.37	
10	QPSK	25	25	22.36	22.46	22.32	
10	QPSK	50	0	22.38	22.55	22.37	
10	16QAM	1	0	22.48	22.65	22.58	23.5
10	16QAM	1	25	22.52	22.62	22.64	
10	16QAM	1	49	22.59	22.64	22.38	
10	16QAM	25	0	21.42	21.51	21.40	22.5
10	16QAM	25	12	21.37	21.55	21.41	
10	16QAM	25	25	21.34	21.48	21.33	
10	16QAM	50	0	21.41	21.52	21.33	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.38	23.38	23.34	24.5
5	QPSK	1	12	23.29	23.27	23.29	
5	QPSK	1	24	23.09	23.18	23.02	
5	QPSK	12	0	22.43	22.53	22.33	23.5
5	QPSK	12	7	22.33	22.43	22.30	
5	QPSK	12	13	22.20	22.46	22.30	
5	QPSK	25	0	22.33	22.42	22.28	
5	16QAM	1	0	22.31	22.51	22.54	23.5
5	16QAM	1	12	22.40	22.44	22.49	
5	16QAM	1	24	22.48	22.49	22.26	
5	16QAM	12	0	21.25	21.36	21.21	22.5
5	16QAM	12	7	21.36	21.38	21.29	
5	16QAM	12	13	21.16	21.33	21.27	
5	16QAM	25	0	21.28	21.40	21.27	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.29	23.32	23.39	24.5
3	QPSK	1	8	23.32	23.22	23.26	
3	QPSK	1	14	23.14	23.21	23.12	
3	QPSK	8	0	22.51	22.47	22.33	23.5
3	QPSK	8	4	22.49	22.54	22.28	
3	QPSK	8	7	22.20	22.30	22.19	
3	QPSK	15	0	22.33	22.46	22.31	
3	16QAM	1	0	22.42	22.55	22.56	23.5
3	16QAM	1	8	22.49	22.57	22.57	

3	16QAM	1	14	22.59	22.54	22.19	
3	16QAM	8	0	21.40	21.49	21.31	22.5
3	16QAM	8	4	21.37	21.43	21.41	
3	16QAM	8	7	21.18	21.29	21.17	
3	16QAM	15	0	21.25	21.42	21.23	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.24	23.24	23.22	24.5
1.4	QPSK	1	3	23.13	23.33	23.20	
1.4	QPSK	1	5	23.27	23.23	23.11	
1.4	QPSK	3	0	23.31	23.40	23.26	
1.4	QPSK	3	1	23.15	23.22	23.28	
1.4	QPSK	3	3	23.17	23.22	23.16	
1.4	QPSK	6	0	22.27	22.40	22.32	23.5
1.4	16QAM	1	0	22.48	22.59	22.38	23.5
1.4	16QAM	1	3	22.36	22.57	22.58	
1.4	16QAM	1	5	22.57	22.58	22.23	
1.4	16QAM	3	0	22.39	22.57	22.42	
1.4	16QAM	3	1	22.52	22.53	22.55	
1.4	16QAM	3	3	22.55	22.44	22.32	
1.4	16QAM	6	0	21.31	21.33	21.23	22.5

<LTE Band 12_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	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	15.76	15.79	15.74	16.5
10	QPSK	1	25	15.72	15.75	15.73	
10	QPSK	1	49	15.65	15.70	15.65	
10	QPSK	25	0	14.81	14.84	14.81	15.5
10	QPSK	25	12	14.79	14.80	14.77	
10	QPSK	25	25	14.77	14.73	14.73	
10	QPSK	50	0	14.79	14.81	14.75	
10	16QAM	1	0	15.14	15.20	15.21	15.5
10	16QAM	1	25	15.15	15.11	15.16	
10	16QAM	1	49	15.11	15.05	15.07	
10	16QAM	25	0	13.87	13.83	13.81	14.5
10	16QAM	25	12	13.86	13.84	13.82	
10	16QAM	25	25	13.79	13.75	13.75	
10	16QAM	50	0	13.83	13.81	13.76	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	15.66	15.74	15.67	16.5
5	QPSK	1	12	15.65	15.65	15.73	
5	QPSK	1	24	15.61	15.64	15.60	
5	QPSK	12	0	14.80	14.76	14.73	15.5
5	QPSK	12	7	14.76	14.72	14.68	
5	QPSK	12	13	14.75	14.63	14.65	
5	QPSK	25	0	14.78	14.81	14.74	
5	16QAM	1	0	15.05	15.16	15.11	15.5
5	16QAM	1	12	15.08	15.11	15.13	
5	16QAM	1	24	15.07	14.95	15.04	
5	16QAM	12	0	13.78	13.82	13.79	14.5
5	16QAM	12	7	13.77	13.80	13.72	
5	16QAM	12	13	13.79	13.69	13.75	
5	16QAM	25	0	13.76	13.71	13.67	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	15.75	15.70	15.67	16.5
3	QPSK	1	8	15.66	15.67	15.73	

3	QPSK	1	14	15.64	15.69	15.55	
3	QPSK	8	0	14.72	14.80	14.76	15.5
3	QPSK	8	4	14.70	14.75	14.69	
3	QPSK	8	7	14.68	14.64	14.70	
3	QPSK	15	0	14.72	14.80	14.73	
3	16QAM	1	0	15.10	15.16	15.13	15.5
3	16QAM	1	8	15.13	15.03	15.08	
3	16QAM	1	14	15.07	14.97	15.01	
3	16QAM	8	0	13.84	13.83	13.79	14.5
3	16QAM	8	4	13.81	13.74	13.77	
3	16QAM	8	7	13.73	13.75	13.75	
3	16QAM	15	0	13.80	13.75	13.74	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	15.73	15.78	15.69	16.5
1.4	QPSK	1	3	15.68	15.70	15.73	
1.4	QPSK	1	5	15.58	15.63	15.55	
1.4	QPSK	3	0	14.74	14.79	14.75	
1.4	QPSK	3	1	14.79	14.76	14.70	
1.4	QPSK	3	3	14.71	14.68	14.72	
1.4	QPSK	6	0	14.76	14.75	14.69	15.5
1.4	16QAM	1	0	15.07	15.18	15.21	15.5
1.4	16QAM	1	3	15.05	15.02	15.15	
1.4	16QAM	1	5	15.11	15.00	15.07	
1.4	16QAM	3	0	13.77	13.74	13.78	
1.4	16QAM	3	1	13.84	13.83	13.80	
1.4	16QAM	3	3	13.76	13.71	13.73	
1.4	16QAM	6	0	13.75	13.71	13.76	14.5

<LTE Band 13_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		23.63		24.5
10	QPSK	1	25		23.61		
10	QPSK	1	49		23.50		
10	QPSK	25	0		22.70		23.5
10	QPSK	25	12		22.67		
10	QPSK	25	25		22.62		
10	QPSK	50	0		22.69		
10	16QAM	1	0		22.66		23.5
10	16QAM	1	25		22.83		
10	16QAM	1	49		22.78		
10	16QAM	25	0		21.72		22.5
10	16QAM	25	12		21.68		
10	16QAM	25	25		21.64		
10	16QAM	50	0		21.71		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.49	23.57	23.49	24.5
5	QPSK	1	12	23.59	23.61	23.47	
5	QPSK	1	24	23.50	23.39	23.41	
5	QPSK	12	0	22.61	22.68	22.51	23.5
5	QPSK	12	7	22.52	22.51	22.70	
5	QPSK	12	13	22.57	22.54	22.52	
5	QPSK	25	0	22.62	22.55	22.68	
5	16QAM	1	0	22.52	22.57	22.57	23.5
5	16QAM	1	12	22.78	22.74	22.83	
5	16QAM	1	24	22.77	22.64	22.62	
5	16QAM	12	0	21.72	21.59	21.72	22.5
5	16QAM	12	7	21.66	21.64	21.54	
5	16QAM	12	13	21.52	21.63	21.44	
5	16QAM	25	0	21.65	21.62	21.55	

<LTE Band 13_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		16.36		17.5
10	QPSK	1	25		16.31		
10	QPSK	1	49		16.19		
10	QPSK	25	0		15.40		16.5
10	QPSK	25	12		15.37		
10	QPSK	25	25		15.29		
10	QPSK	50	0		15.35		
10	16QAM	1	0		15.53		16.5
10	16QAM	1	25		15.55		
10	16QAM	1	49		15.64		
10	16QAM	25	0		14.40		15.5
10	16QAM	25	12		14.39		
10	16QAM	25	25		14.33		
10	16QAM	50	0		14.40		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	16.35	16.28	16.27	17.5
5	QPSK	1	12	16.24	16.29	16.21	
5	QPSK	1	24	16.15	16.15	16.12	
5	QPSK	12	0	15.35	15.40	15.36	16.5
5	QPSK	12	7	15.28	15.36	15.29	
5	QPSK	12	13	15.23	15.19	15.28	
5	QPSK	25	0	15.25	15.29	15.26	
5	16QAM	1	0	15.50	15.43	15.50	16.5
5	16QAM	1	12	15.53	15.45	15.55	
5	16QAM	1	24	15.56	15.55	15.55	
5	16QAM	12	0	14.38	14.33	14.35	15.5
5	16QAM	12	7	14.34	14.29	14.34	
5	16QAM	12	13	14.31	14.24	14.31	
5	16QAM	25	0	14.30	14.40	14.33	

<LTE Band 14_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		23.68		24.5
10	QPSK	1	25		23.63		
10	QPSK	1	49		23.53		
10	QPSK	25	0		22.78		23.5
10	QPSK	25	12		22.73		
10	QPSK	25	25		22.71		
10	QPSK	50	0		22.75		
10	16QAM	1	0		22.89		23.5
10	16QAM	1	25		22.82		
10	16QAM	1	49		22.84		
10	16QAM	25	0		21.76		22.5
10	16QAM	25	12		21.80		
10	16QAM	25	25		21.73		
10	16QAM	50	0		21.72		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	23.55	23.61	23.61	24.5
5	QPSK	1	12	23.44	23.60	23.62	
5	QPSK	1	24	23.41	23.39	23.47	
5	QPSK	12	0	22.68	22.75	22.78	23.5
5	QPSK	12	7	22.70	22.69	22.54	
5	QPSK	12	13	22.53	22.63	22.67	
5	QPSK	25	0	22.68	22.55	22.58	
5	16QAM	1	0	22.71	22.71	22.75	23.5
5	16QAM	1	12	22.62	22.64	22.72	
5	16QAM	1	24	22.65	22.80	22.76	
5	16QAM	12	0	21.58	21.71	21.70	22.5
5	16QAM	12	7	21.77	21.78	21.78	
5	16QAM	12	13	21.68	21.67	21.65	
5	16QAM	25	0	21.58	21.68	21.52	

<LTE Band 14_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		16.40		17.5
10	QPSK	1	25		16.35		
10	QPSK	1	49		16.24		
10	QPSK	25	0		15.45		16.5
10	QPSK	25	12		15.41		
10	QPSK	25	25		15.35		
10	QPSK	50	0		15.37		
10	16QAM	1	0		15.81		16.5
10	16QAM	1	25		15.75		
10	16QAM	1	49		15.58		
10	16QAM	25	0		14.44		15.5
10	16QAM	25	12		14.44		
10	16QAM	25	25		14.39		
10	16QAM	50	0		14.44		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	16.30	16.40	16.39	17.5
5	QPSK	1	12	16.27	16.32	16.26	
5	QPSK	1	24	16.17	16.21	16.20	
5	QPSK	12	0	15.44	15.35	15.43	16.5
5	QPSK	12	7	15.37	15.37	15.33	
5	QPSK	12	13	15.25	15.28	15.35	
5	QPSK	25	0	15.35	15.27	15.29	
5	16QAM	1	0	15.77	15.81	15.75	16.5
5	16QAM	1	12	15.75	15.66	15.71	
5	16QAM	1	24	15.57	15.53	15.49	
5	16QAM	12	0	14.40	14.41	14.43	15.5
5	16QAM	12	7	14.42	14.36	14.36	
5	16QAM	12	13	14.37	14.30	14.34	
5	16QAM	25	0	14.38	14.37	14.38	

<LTE Band 17_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	23.43	23.46	23.40	24.5
10	QPSK	1	25	23.41	23.42	23.41	
10	QPSK	1	49	23.32	23.37	23.17	
10	QPSK	25	0	22.51	22.55	22.42	23.5
10	QPSK	25	12	22.48	22.52	22.36	
10	QPSK	25	25	22.43	22.47	22.34	
10	QPSK	50	0	22.47	22.50	22.40	
10	16QAM	1	0	22.64	22.61	22.52	23.5
10	16QAM	1	25	22.64	22.53	22.49	
10	16QAM	1	49	22.58	22.52	22.44	
10	16QAM	25	0	21.58	21.48	21.41	22.5
10	16QAM	25	12	21.54	21.44	21.42	
10	16QAM	25	25	21.49	21.39	21.35	
10	16QAM	50	0	21.54	21.43	21.38	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.39	23.28	23.22	24.5
5	QPSK	1	12	23.22	23.24	23.41	
5	QPSK	1	24	23.31	23.19	23.08	
5	QPSK	12	0	22.49	22.52	22.38	23.5
5	QPSK	12	7	22.38	22.48	22.19	
5	QPSK	12	13	22.29	22.33	22.33	
5	QPSK	25	0	22.33	22.36	22.31	
5	16QAM	1	0	22.52	22.59	22.32	23.5
5	16QAM	1	12	22.58	22.51	22.45	
5	16QAM	1	24	22.44	22.49	22.31	
5	16QAM	12	0	21.55	21.29	21.40	22.5
5	16QAM	12	7	21.36	21.41	21.22	
5	16QAM	12	13	21.40	21.25	21.27	
5	16QAM	25	0	21.49	21.31	21.36	

<LTE Band 17_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	15.79	15.83	15.75	16.5
10	QPSK	1	25	15.73	15.74	15.72	
10	QPSK	1	49	15.58	15.68	15.62	
10	QPSK	25	0	14.85	14.88	14.78	15.5
10	QPSK	25	12	14.80	14.80	14.79	
10	QPSK	25	25	14.77	14.69	14.73	
10	QPSK	50	0	14.80	14.87	14.78	
10	16QAM	1	0	15.18	15.12	15.06	15.5
10	16QAM	1	25	14.95	14.98	15.04	
10	16QAM	1	49	14.93	15.08	15.02	
10	16QAM	25	0	13.89	13.86	13.84	14.5
10	16QAM	25	12	13.85	13.83	13.83	
10	16QAM	25	25	13.79	13.78	13.77	
10	16QAM	50	0	13.86	13.80	13.83	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	15.73	15.76	15.68	16.5
5	QPSK	1	12	15.64	15.70	15.69	
5	QPSK	1	24	15.56	15.68	15.56	
5	QPSK	12	0	14.76	14.85	14.68	15.5
5	QPSK	12	7	14.75	14.80	14.72	
5	QPSK	12	13	14.72	14.64	14.73	
5	QPSK	25	0	14.75	14.82	14.69	
5	16QAM	1	0	15.15	15.03	15.00	15.5
5	16QAM	1	12	14.93	14.90	15.01	
5	16QAM	1	24	14.89	15.00	14.94	
5	16QAM	12	0	13.85	13.78	13.82	14.5
5	16QAM	12	7	13.77	13.73	13.74	
5	16QAM	12	13	13.70	13.76	13.68	
5	16QAM	25	0	13.77	13.72	13.75	

<LTE Band 25_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	23.45	23.53	23.36	24.5
20	QPSK	1	49	23.44	23.50	23.13	
20	QPSK	1	99	23.41	23.39	22.89	
20	QPSK	50	0	22.62	22.69	22.55	23.5
20	QPSK	50	24	22.61	22.66	22.53	
20	QPSK	50	50	22.57	22.67	22.49	
20	QPSK	100	0	22.60	22.66	22.51	
20	16QAM	1	0	22.87	22.95	22.68	23.5
20	16QAM	1	49	22.87	22.92	22.60	
20	16QAM	1	99	22.80	22.81	22.59	
20	16QAM	50	0	21.64	21.73	21.48	22.5
20	16QAM	50	24	21.70	21.79	21.46	
20	16QAM	50	50	21.62	21.73	21.45	
20	16QAM	100	0	21.68	21.71	21.55	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	23.36	23.50	23.20	24.5
15	QPSK	1	37	23.41	23.31	23.13	
15	QPSK	1	74	23.31	23.34	22.72	
15	QPSK	36	0	22.51	22.69	22.36	23.5
15	QPSK	36	20	22.45	22.63	22.52	
15	QPSK	36	39	22.47	22.47	22.30	
15	QPSK	75	0	22.60	22.62	22.37	
15	16QAM	1	0	22.77	22.76	22.53	23.5
15	16QAM	1	37	22.80	22.82	22.46	
15	16QAM	1	74	22.68	22.78	22.49	
15	16QAM	36	0	21.61	21.66	21.46	22.5
15	16QAM	36	20	21.61	21.64	21.43	
15	16QAM	36	39	21.47	21.61	21.28	
15	16QAM	75	0	21.68	21.62	21.35	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	23.27	23.36	23.27	24.5
10	QPSK	1	25	23.33	23.50	23.03	
10	QPSK	1	49	23.38	23.39	22.85	
10	QPSK	25	0	22.59	22.58	22.50	23.5
10	QPSK	25	12	22.42	22.46	22.40	
10	QPSK	25	25	22.47	22.66	22.46	
10	QPSK	50	0	22.40	22.58	22.43	
10	16QAM	1	0	22.70	22.94	22.67	23.5
10	16QAM	1	25	22.81	22.80	22.46	
10	16QAM	1	49	22.75	22.77	22.47	
10	16QAM	25	0	21.52	21.53	21.38	22.5
10	16QAM	25	12	21.67	21.77	21.46	
10	16QAM	25	25	21.53	21.63	21.37	
10	16QAM	50	0	21.60	21.53	21.53	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	23.28	23.47	23.33	24.5
5	QPSK	1	12	23.26	23.50	23.02	
5	QPSK	1	24	23.38	23.20	22.84	
5	QPSK	12	0	22.45	22.58	22.48	23.5
5	QPSK	12	7	22.42	22.63	22.41	
5	QPSK	12	13	22.50	22.47	22.38	
5	QPSK	25	0	22.58	22.57	22.40	
5	16QAM	1	0	22.78	22.83	22.58	23.5

5	16QAM	1	12	22.70	22.75	22.40	
5	16QAM	1	24	22.61	22.67	22.47	
5	16QAM	12	0	21.62	21.54	21.33	22.5
5	16QAM	12	7	21.69	21.64	21.43	
5	16QAM	12	13	21.43	21.68	21.44	
5	16QAM	25	0	21.49	21.60	21.42	
Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	23.26	23.52	23.35	24.5
3	QPSK	1	8	23.32	23.33	23.02	
3	QPSK	1	14	23.37	23.34	22.74	
3	QPSK	8	0	22.45	22.65	22.42	23.5
3	QPSK	8	4	22.43	22.55	22.47	
3	QPSK	8	7	22.56	22.47	22.29	
3	QPSK	15	0	22.45	22.59	22.42	
3	16QAM	1	0	22.79	22.94	22.49	23.5
3	16QAM	1	8	22.81	22.82	22.41	
3	16QAM	1	14	22.71	22.65	22.47	
3	16QAM	8	0	21.50	21.56	21.40	22.5
3	16QAM	8	4	21.70	21.68	21.45	
3	16QAM	8	7	21.55	21.60	21.27	
3	16QAM	15	0	21.49	21.64	21.49	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	23.28	23.49	23.31	24.5
1.4	QPSK	1	3	23.32	23.35	23.12	
1.4	QPSK	1	5	23.33	23.24	22.74	
1.4	QPSK	3	0	23.41	23.35	23.34	
1.4	QPSK	3	1	23.28	23.39	23.01	
1.4	QPSK	3	3	23.41	23.34	22.73	
1.4	QPSK	6	0	22.41	22.61	22.49	23.5
1.4	16QAM	1	0	22.71	22.89	22.68	23.5
1.4	16QAM	1	3	22.78	22.81	22.54	
1.4	16QAM	1	5	22.73	22.61	22.59	
1.4	16QAM	3	0	22.78	22.90	22.48	
1.4	16QAM	3	1	22.77	22.73	22.44	
1.4	16QAM	3	3	22.76	22.72	22.39	
1.4	16QAM	6	0	21.64	21.64	21.39	22.5

<LTE Band 25_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	14.51	14.65	14.47	15.5
20	QPSK	1	49	14.49	14.62	14.45	
20	QPSK	1	99	14.44	14.48	14.35	
20	QPSK	50	0	13.58	13.71	13.59	14.5
20	QPSK	50	24	13.57	13.70	13.56	
20	QPSK	50	50	13.59	13.65	13.54	
20	QPSK	100	0	13.54	13.67	13.56	
20	16QAM	1	0	13.58	13.91	13.71	14.5
20	16QAM	1	49	13.90	13.92	13.88	
20	16QAM	1	99	13.80	13.75	13.70	
20	16QAM	50	0	12.64	12.75	12.57	13.5
20	16QAM	50	24	12.66	12.78	12.61	
20	16QAM	50	50	12.60	12.73	12.62	
20	16QAM	100	0	12.60	12.71	12.56	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	14.41	14.59	14.44	15.5
15	QPSK	1	37	14.47	14.60	14.38	
15	QPSK	1	74	14.35	14.47	14.26	
15	QPSK	36	0	13.55	13.61	13.50	14.5
15	QPSK	36	20	13.52	13.64	13.55	
15	QPSK	36	39	13.54	13.61	13.46	
15	QPSK	75	0	13.51	13.61	13.52	
15	16QAM	1	0	13.48	13.84	13.65	14.5
15	16QAM	1	37	13.88	13.82	13.79	
15	16QAM	1	74	13.78	13.71	13.60	
15	16QAM	36	0	12.56	12.69	12.52	13.5
15	16QAM	36	20	12.59	12.71	12.60	
15	16QAM	36	39	12.58	12.72	12.57	
15	16QAM	75	0	12.59	12.69	12.50	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	14.51	14.57	14.38	15.5
10	QPSK	1	25	14.46	14.54	14.45	
10	QPSK	1	49	14.37	14.46	14.31	
10	QPSK	25	0	13.58	13.65	13.49	14.5
10	QPSK	25	12	13.48	13.62	13.48	
10	QPSK	25	25	13.52	13.59	13.49	
10	QPSK	50	0	13.47	13.59	13.53	
10	16QAM	1	0	13.53	13.90	13.68	14.5
10	16QAM	1	25	13.86	13.85	13.81	
10	16QAM	1	49	13.79	13.73	13.65	
10	16QAM	25	0	12.58	12.75	12.57	13.5
10	16QAM	25	12	12.56	12.78	12.52	
10	16QAM	25	25	12.52	12.70	12.56	
10	16QAM	50	0	12.51	12.71	12.51	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	14.50	14.59	14.40	15.5
5	QPSK	1	12	14.45	14.62	14.42	
5	QPSK	1	24	14.41	14.47	14.25	
5	QPSK	12	0	13.53	13.70	13.50	14.5
5	QPSK	12	7	13.54	13.62	13.51	
5	QPSK	12	13	13.58	13.65	13.47	
5	QPSK	25	0	13.46	13.61	13.52	
5	16QAM	1	0	13.52	13.83	13.70	14.5

5	16QAM	1	12	13.82	13.86	13.78	
5	16QAM	1	24	13.77	13.70	13.70	
5	16QAM	12	0	12.63	12.66	12.50	13.5
5	16QAM	12	7	12.64	12.75	12.60	
5	16QAM	12	13	12.58	12.68	12.54	
5	16QAM	25	0	12.60	12.68	12.46	
Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	14.44	14.64	14.46	15.5
3	QPSK	1	8	14.42	14.52	14.42	
3	QPSK	1	14	14.38	14.43	14.28	
3	QPSK	8	0	13.51	13.64	13.54	14.5
3	QPSK	8	4	13.48	13.64	13.50	
3	QPSK	8	7	13.56	13.65	13.44	
3	QPSK	15	0	13.45	13.60	13.55	
3	16QAM	1	0	13.51	13.84	13.64	14.5
3	16QAM	1	8	13.85	13.85	13.88	
3	16QAM	1	14	13.73	13.66	13.64	
3	16QAM	8	0	12.54	12.72	12.49	13.5
3	16QAM	8	4	12.62	12.73	12.58	
3	16QAM	8	7	12.53	12.70	12.59	
3	16QAM	15	0	12.59	12.62	12.46	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	14.47	14.64	14.38	15.5
1.4	QPSK	1	3	14.49	14.61	14.45	
1.4	QPSK	1	5	14.41	14.45	14.31	
1.4	QPSK	3	0	14.47	14.56	14.37	
1.4	QPSK	3	1	14.41	14.54	14.51	
1.4	QPSK	3	3	14.36	14.44	14.27	
1.4	QPSK	6	0	13.47	13.62	13.55	14.5
1.4	16QAM	1	0	13.52	13.90	13.66	14.5
1.4	16QAM	1	3	13.86	13.88	13.83	
1.4	16QAM	1	5	13.70	13.65	13.70	
1.4	16QAM	3	0	13.44	13.66	13.51	
1.4	16QAM	3	1	13.48	13.89	13.71	
1.4	16QAM	3	3	13.80	13.88	13.84	
1.4	16QAM	6	0	12.52	12.62	12.50	13.5

<LTE Band 26_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	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	23.77	23.66	23.60	24.5
15	QPSK	1	37	23.73	23.64	23.59	
15	QPSK	1	74	23.70	23.63	23.51	
15	QPSK	36	0	22.88	22.79	22.74	23.5
15	QPSK	36	20	22.84	22.77	22.72	
15	QPSK	36	39	22.80	22.71	22.67	
15	QPSK	75	0	22.81	22.76	22.73	
15	16QAM	1	0	22.99	22.98	22.91	23.5
15	16QAM	1	37	22.92	22.95	22.86	
15	16QAM	1	74	22.85	22.81	22.79	
15	16QAM	36	0	21.83	21.81	21.76	22.5
15	16QAM	36	20	21.88	21.83	21.78	
15	16QAM	36	39	21.91	21.73	21.71	
15	16QAM	75	0	21.83	21.82	21.80	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.58	23.66	23.43	24.5

10	QPSK	1	25	23.57	23.49	23.54	
10	QPSK	1	49	23.66	23.52	23.34	
10	QPSK	25	0	22.72	22.67	22.67	23.5
10	QPSK	25	12	22.76	22.63	22.57	
10	QPSK	25	25	22.76	22.55	22.67	
10	QPSK	50	0	22.74	22.68	22.61	
10	16QAM	1	0	22.88	22.91	22.83	23.5
10	16QAM	1	25	22.89	22.82	22.84	
10	16QAM	1	49	22.69	22.63	22.70	
10	16QAM	25	0	21.71	21.81	21.69	22.5
10	16QAM	25	12	21.80	21.63	21.67	
10	16QAM	25	25	21.80	21.73	21.51	
10	16QAM	50	0	21.81	21.74	21.65	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.73	23.58	23.46	24.5
5	QPSK	1	12	23.54	23.61	23.57	
5	QPSK	1	24	23.70	23.51	23.43	
5	QPSK	12	0	22.69	22.66	22.63	23.5
5	QPSK	12	7	22.84	22.66	22.60	
5	QPSK	12	13	22.72	22.69	22.64	
5	QPSK	25	0	22.74	22.61	22.63	
5	16QAM	1	0	22.90	22.92	22.74	23.5
5	16QAM	1	12	22.90	22.79	22.67	
5	16QAM	1	24	22.76	22.73	22.69	
5	16QAM	12	0	21.76	21.76	21.76	22.5
5	16QAM	12	7	21.84	21.73	21.67	
5	16QAM	12	13	21.84	21.67	21.66	
5	16QAM	25	0	21.72	21.81	21.63	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	23.70	23.59	23.48	24.5
3	QPSK	1	8	23.65	23.48	23.51	
3	QPSK	1	14	23.63	23.55	23.39	
3	QPSK	8	0	22.75	22.59	22.56	23.5
3	QPSK	8	4	22.77	22.59	22.57	
3	QPSK	8	7	22.79	22.61	22.57	
3	QPSK	15	0	22.80	22.64	22.60	
3	16QAM	1	0	22.85	22.88	22.78	23.5
3	16QAM	1	8	22.89	22.79	22.82	
3	16QAM	1	14	22.75	22.73	22.60	
3	16QAM	8	0	21.79	21.70	21.58	22.5
3	16QAM	8	4	21.83	21.75	21.61	
3	16QAM	8	7	21.71	21.58	21.64	
3	16QAM	15	0	21.64	21.78	21.68	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	23.76	23.47	23.41	24.5
1.4	QPSK	1	3	23.54	23.63	23.58	
1.4	QPSK	1	5	23.53	23.63	23.32	
1.4	QPSK	3	0	23.71	23.54	23.40	
1.4	QPSK	3	1	23.72	23.54	23.45	
1.4	QPSK	3	3	23.56	23.61	23.40	
1.4	QPSK	6	0	22.63	22.64	22.69	23.5
1.4	16QAM	1	0	22.95	22.86	22.73	23.5
1.4	16QAM	1	3	22.87	22.75	22.71	
1.4	16QAM	1	5	22.81	22.63	22.59	
1.4	16QAM	3	0	22.97	22.85	22.78	
1.4	16QAM	3	1	22.88	22.83	22.79	
1.4	16QAM	3	3	22.78	22.79	22.65	
1.4	16QAM	6	0	21.74	21.73	21.63	22.5

<LTE Band 26_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	15.96	15.93	15.90	17
15	QPSK	1	37	15.83	15.87	15.79	
15	QPSK	1	74	15.91	15.83	15.79	
15	QPSK	36	0	15.05	15.00	14.90	16
15	QPSK	36	20	15.03	14.98	14.95	
15	QPSK	36	39	15.01	14.94	14.86	
15	QPSK	75	0	14.95	14.96	14.91	
15	16QAM	1	0	15.25	15.30	15.14	16
15	16QAM	1	37	15.20	15.27	15.19	
15	16QAM	1	74	15.25	15.28	15.02	
15	16QAM	36	0	14.02	14.01	13.95	15
15	16QAM	36	20	14.01	14.00	13.92	
15	16QAM	36	39	14.05	13.96	13.89	
15	16QAM	75	0	13.96	13.93	13.89	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	15.86	15.85	15.87	17
10	QPSK	1	25	15.74	15.87	15.77	
10	QPSK	1	49	15.81	15.74	15.74	
10	QPSK	25	0	15.02	15.00	14.88	16
10	QPSK	25	12	15.02	14.97	14.85	
10	QPSK	25	25	14.97	14.93	14.78	
10	QPSK	50	0	14.85	14.96	14.86	
10	16QAM	1	0	15.18	15.27	15.07	16
10	16QAM	1	25	15.15	15.27	15.09	
10	16QAM	1	49	15.17	15.27	14.99	
10	16QAM	25	0	14.01	13.92	13.90	15
10	16QAM	25	12	13.92	13.92	13.83	
10	16QAM	25	25	13.99	13.95	13.84	
10	16QAM	50	0	13.94	13.89	13.82	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	15.93	15.89	15.80	17
5	QPSK	1	12	15.76	15.86	15.77	
5	QPSK	1	24	15.89	15.83	15.73	
5	QPSK	12	0	14.97	14.96	14.89	16
5	QPSK	12	7	15.01	14.90	14.93	
5	QPSK	12	13	14.93	14.93	14.86	
5	QPSK	25	0	14.94	14.96	14.85	
5	16QAM	1	0	15.20	15.30	15.13	16
5	16QAM	1	12	15.18	15.22	15.13	
5	16QAM	1	24	15.18	15.23	15.00	
5	16QAM	12	0	13.92	13.96	13.94	15
5	16QAM	12	7	13.95	13.97	13.92	
5	16QAM	12	13	14.04	13.93	13.89	
5	16QAM	25	0	13.94	13.89	13.83	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	15.88	15.89	15.86	17
3	QPSK	1	8	15.73	15.79	15.76	
3	QPSK	1	14	15.87	15.78	15.77	
3	QPSK	8	0	15.02	14.97	14.86	16
3	QPSK	8	4	15.03	14.96	14.92	
3	QPSK	8	7	14.97	14.88	14.78	
3	QPSK	15	0	14.89	14.90	14.84	
3	16QAM	1	0	15.19	15.24	15.13	16

3	16QAM	1	8	15.10	15.24	15.09	
3	16QAM	1	14	15.20	15.23	14.97	
3	16QAM	8	0	14.02	13.98	13.90	15
3	16QAM	8	4	14.01	14.00	13.87	
3	16QAM	8	7	13.99	13.89	13.81	
3	16QAM	15	0	13.91	13.89	13.80	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	15.89	15.86	15.82	17
1.4	QPSK	1	3	15.83	15.79	15.75	
1.4	QPSK	1	5	15.84	15.73	15.75	
1.4	QPSK	3	0	15.87	15.91	15.81	
1.4	QPSK	3	1	15.78	15.84	15.75	
1.4	QPSK	3	3	15.91	15.78	15.74	
1.4	QPSK	6	0	14.89	14.91	14.91	16
1.4	16QAM	1	0	15.20	15.29	15.07	16
1.4	16QAM	1	3	15.10	15.25	15.16	
1.4	16QAM	1	5	15.20	15.18	15.02	
1.4	16QAM	3	0	15.25	15.23	15.08	
1.4	16QAM	3	1	15.13	15.17	15.11	
1.4	16QAM	3	3	15.21	15.20	14.99	
1.4	16QAM	6	0	13.96	13.87	13.82	15

<LTE Band 30_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		21.65		23
10	QPSK	1	25		21.56		
10	QPSK	1	49		21.54		
10	QPSK	25	0		20.62		22
10	QPSK	25	12		20.60		
10	QPSK	25	25		20.61		
10	QPSK	50	0		20.60		
10	16QAM	1	0		20.90		22
10	16QAM	1	25		20.87		
10	16QAM	1	49		20.62		
10	16QAM	25	0		19.63		21
10	16QAM	25	12		19.67		
10	16QAM	25	25		19.49		
10	16QAM	50	0		19.47		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	21.61	21.58	21.59	23
5	QPSK	1	12	21.40	21.51	21.56	
5	QPSK	1	24	21.52	21.47	21.54	
5	QPSK	12	0	20.51	20.58	20.48	22
5	QPSK	12	7	20.44	20.54	20.55	
5	QPSK	12	13	20.46	20.50	20.46	
5	QPSK	25	0	20.50	20.64	20.56	
5	16QAM	1	0	20.72	20.90	20.76	22
5	16QAM	1	12	20.74	20.67	20.82	
5	16QAM	1	24	20.43	20.47	20.61	
5	16QAM	12	0	19.51	19.56	19.56	21
5	16QAM	12	7	19.66	19.63	19.53	
5	16QAM	12	13	19.45	19.48	19.44	
5	16QAM	25	0	19.31	19.40	19.32	

<LTE Band 30_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		12.90		14
10	QPSK	1	25		12.84		
10	QPSK	1	49		12.75		
10	QPSK	25	0		11.88		13
10	QPSK	25	12		11.85		
10	QPSK	25	25		11.84		
10	QPSK	50	0		11.86		
10	16QAM	1	0		12.16		13
10	16QAM	1	25		12.07		
10	16QAM	1	49		12.11		
10	16QAM	25	0		10.86		12
10	16QAM	25	12		10.87		
10	16QAM	25	25		10.82		
10	16QAM	50	0		10.89		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	12.85	12.83	12.87	14
5	QPSK	1	12	12.82	12.78	12.75	
5	QPSK	1	24	12.74	12.70	12.75	
5	QPSK	12	0	11.81	11.88	11.78	13
5	QPSK	12	7	11.75	11.85	11.82	
5	QPSK	12	13	11.79	11.78	11.74	
5	QPSK	25	0	11.78	11.86	11.80	
5	16QAM	1	0	12.08	12.15	12.16	13
5	16QAM	1	12	12.04	12.05	12.00	
5	16QAM	1	24	12.07	12.07	12.05	
5	16QAM	12	0	10.82	10.86	10.79	12
5	16QAM	12	7	10.84	10.83	10.86	
5	16QAM	12	13	10.80	10.78	10.74	
5	16QAM	25	0	10.86	10.83	10.84	

<LTE Band 66_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	23.46	23.52	23.22	24.5
20	QPSK	1	49	23.44	23.47	23.26	
20	QPSK	1	99	23.44	23.45	23.27	
20	QPSK	50	0	22.52	22.62	22.41	23.5
20	QPSK	50	24	22.44	22.60	22.39	
20	QPSK	50	50	22.42	22.59	22.39	
20	QPSK	100	0	22.38	22.56	22.35	
20	16QAM	1	0	22.57	22.76	22.48	23.5
20	16QAM	1	49	22.54	22.69	22.50	
20	16QAM	1	99	22.51	22.66	22.58	
20	16QAM	50	0	21.31	21.61	21.24	22.5
20	16QAM	50	24	21.45	21.62	21.27	
20	16QAM	50	50	21.42	21.60	21.28	
20	16QAM	100	0	21.37	21.58	21.22	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.43	23.44	23.15	24.5
15	QPSK	1	37	23.30	23.47	23.14	
15	QPSK	1	74	23.40	23.35	23.08	

15	QPSK	36	0	22.52	22.52	22.24	23.5
15	QPSK	36	20	22.30	22.44	22.37	
15	QPSK	36	39	22.26	22.58	22.32	
15	QPSK	75	0	22.25	22.48	22.16	
15	16QAM	1	0	22.53	22.72	22.36	23.5
15	16QAM	1	37	22.46	22.69	22.36	
15	16QAM	1	74	22.43	22.65	22.49	
15	16QAM	36	0	21.29	21.51	21.10	22.5
15	16QAM	36	20	21.27	21.48	21.13	
15	16QAM	36	39	21.24	21.46	21.14	
15	16QAM	75	0	21.37	21.55	21.04	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.27	23.44	23.08	24.5
10	QPSK	1	25	23.26	23.40	23.13	
10	QPSK	1	49	23.26	23.39	23.27	
10	QPSK	25	0	22.32	22.45	22.21	23.5
10	QPSK	25	12	22.29	22.44	22.36	
10	QPSK	25	25	22.27	22.58	22.29	
10	QPSK	50	0	22.37	22.47	22.24	
10	16QAM	1	0	22.44	22.64	22.39	23.5
10	16QAM	1	25	22.36	22.60	22.47	
10	16QAM	1	49	22.50	22.49	22.40	
10	16QAM	25	0	21.18	21.50	21.05	22.5
10	16QAM	25	12	21.38	21.47	21.07	
10	16QAM	25	25	21.39	21.46	21.26	
10	16QAM	50	0	21.28	21.44	21.19	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.37	23.44	23.19	24.5
5	QPSK	1	12	23.40	23.46	23.06	
5	QPSK	1	24	23.25	23.43	23.12	
5	QPSK	12	0	22.37	22.55	22.25	23.5
5	QPSK	12	7	22.39	22.50	22.32	
5	QPSK	12	13	22.31	22.47	22.26	
5	QPSK	25	0	22.35	22.52	22.22	
5	16QAM	1	0	22.39	22.72	22.29	23.5
5	16QAM	1	12	22.54	22.63	22.43	
5	16QAM	1	24	22.38	22.63	22.52	
5	16QAM	12	0	21.22	21.42	21.09	22.5
5	16QAM	12	7	21.31	21.46	21.14	
5	16QAM	12	13	21.28	21.46	21.28	
5	16QAM	25	0	21.18	21.58	21.05	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.32	23.35	23.15	24.5
3	QPSK	1	8	23.27	23.45	23.06	
3	QPSK	1	14	23.35	23.43	23.27	
3	QPSK	8	0	22.51	22.48	22.40	23.5
3	QPSK	8	4	22.26	22.57	22.34	
3	QPSK	8	7	22.34	22.44	22.26	
3	QPSK	15	0	22.22	22.37	22.17	
3	16QAM	1	0	22.54	22.72	22.34	23.5
3	16QAM	1	8	22.39	22.51	22.39	
3	16QAM	1	14	22.31	22.57	22.43	
3	16QAM	8	0	21.22	21.45	21.16	22.5
3	16QAM	8	4	21.31	21.44	21.07	
3	16QAM	8	7	21.40	21.51	21.23	
3	16QAM	15	0	21.17	21.43	21.22	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.44	23.34	23.15	24.5
1.4	QPSK	1	3	23.37	23.41	23.13	

1.4	QPSK	1	5	23.30	23.43	23.12	
1.4	QPSK	3	0	23.42	23.45	23.07	
1.4	QPSK	3	1	23.31	23.46	23.18	
1.4	QPSK	3	3	23.40	23.34	23.10	
1.4	QPSK	6	0	22.29	22.47	22.35	23.5
1.4	16QAM	1	0	22.43	22.57	22.36	
1.4	16QAM	1	3	22.37	22.69	22.43	
1.4	16QAM	1	5	22.43	22.55	22.47	23.5
1.4	16QAM	3	0	22.56	22.70	22.29	
1.4	16QAM	3	1	22.40	22.49	22.45	
1.4	16QAM	3	3	22.33	22.65	22.42	
1.4	16QAM	6	0	21.30	21.46	21.09	22.5

<LTE Band 66_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	14.02	14.05	14.00	14.5
20	QPSK	1	49	13.92	13.90	13.99	
20	QPSK	1	99	13.98	14.02	13.97	
20	QPSK	50	0	12.99	13.06	13.05	13.5
20	QPSK	50	24	12.97	12.98	13.03	
20	QPSK	50	50	12.94	12.94	13.03	
20	QPSK	100	0	12.99	13.04	13.01	
20	16QAM	1	0	13.29	13.30	13.21	13.5
20	16QAM	1	49	13.48	13.42	13.39	
20	16QAM	1	99	13.49	13.45	13.34	
20	16QAM	50	0	12.08	12.03	12.04	12.5
20	16QAM	50	24	12.17	12.06	12.09	
20	16QAM	50	50	12.17	11.99	12.10	
20	16QAM	100	0	12.13	11.99	12.04	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	14.01	14.02	13.90	14.5
15	QPSK	1	37	13.90	13.81	13.97	
15	QPSK	1	74	13.91	14.02	13.95	
15	QPSK	36	0	12.97	13.05	12.97	13.5
15	QPSK	36	20	12.89	12.89	12.95	
15	QPSK	36	39	12.84	12.89	12.95	
15	QPSK	75	0	12.93	12.94	13.01	
15	16QAM	1	0	13.22	13.29	13.20	13.5
15	16QAM	1	37	13.43	13.50	13.38	
15	16QAM	1	74	13.43	13.46	13.31	
15	16QAM	36	0	12.03	11.95	12.02	12.5
15	16QAM	36	20	12.17	11.97	12.06	
15	16QAM	36	39	12.09	11.98	12.04	
15	16QAM	75	0	12.12	11.92	11.97	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	13.95	14.01	13.93	14.5
10	QPSK	1	25	13.86	13.82	13.92	
10	QPSK	1	49	13.98	14.02	13.94	
10	QPSK	25	0	12.94	12.99	12.99	13.5
10	QPSK	25	12	12.90	12.95	13.00	
10	QPSK	25	25	12.89	12.93	13.01	
10	QPSK	50	0	12.96	12.96	12.91	
10	16QAM	1	0	13.24	13.24	13.12	13.5
10	16QAM	1	25	13.43	13.46	13.38	
10	16QAM	1	49	13.48	13.50	13.29	
10	16QAM	25	0	12.02	12.02	11.98	12.5
10	16QAM	25	12	12.15	12.00	12.08	
10	16QAM	25	25	12.12	11.97	12.10	
10	16QAM	50	0	12.08	11.89	12.00	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	14.01	13.95	13.97	14.5
5	QPSK	1	12	13.92	13.82	13.89	
5	QPSK	1	24	13.97	14.00	13.88	
5	QPSK	12	0	12.98	13.01	13.02	13.5
5	QPSK	12	7	12.91	12.94	12.93	
5	QPSK	12	13	12.94	12.89	13.02	
5	QPSK	25	0	12.94	12.95	13.01	
5	16QAM	1	0	13.26	13.24	13.20	13.5

5	16QAM	1	12	13.40	13.42	13.32	
5	16QAM	1	24	13.42	13.43	13.24	
5	16QAM	12	0	12.02	11.99	12.01	12.5
5	16QAM	12	7	12.16	12.00	12.05	
5	16QAM	12	13	12.13	11.97	12.07	
5	16QAM	25	0	12.03	11.92	11.98	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	13.92	13.98	13.94	14.5
3	QPSK	1	8	13.91	13.88	13.99	
3	QPSK	1	14	13.98	14.01	13.96	
3	QPSK	8	0	12.97	13.03	13.03	13.5
3	QPSK	8	4	12.97	12.98	12.95	
3	QPSK	8	7	12.89	12.93	13.02	
3	QPSK	15	0	12.90	13.01	12.99	
3	16QAM	1	0	13.20	13.21	13.16	13.5
3	16QAM	1	8	13.41	13.48	13.35	
3	16QAM	1	14	13.44	13.49	13.30	
3	16QAM	8	0	12.08	12.00	11.99	12.5
3	16QAM	8	4	12.16	12.01	12.06	
3	16QAM	8	7	12.08	11.96	12.07	
3	16QAM	15	0	12.03	11.98	11.96	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	13.97	13.97	13.94	14.5
1.4	QPSK	1	3	13.91	13.86	13.92	
1.4	QPSK	1	5	13.94	13.92	13.96	
1.4	QPSK	3	0	13.99	14.00	14.00	
1.4	QPSK	3	1	13.89	13.84	13.92	
1.4	QPSK	3	3	13.89	14.00	13.90	
1.4	QPSK	6	0	12.96	12.94	13.01	13.5
1.4	16QAM	1	0	13.22	13.30	13.15	13.5
1.4	16QAM	1	3	13.38	13.43	13.35	
1.4	16QAM	1	5	13.43	13.46	13.24	
1.4	16QAM	3	0	13.26	13.21	13.17	
1.4	16QAM	3	1	13.41	13.48	13.33	
1.4	16QAM	3	3	13.39	13.45	13.29	
1.4	16QAM	6	0	12.11	11.90	12.04	12.5

<LTE Band 71_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	23.69	23.79	23.73	24.5
20	QPSK	1	49	23.62	23.74	23.71	
20	QPSK	1	99	23.56	23.62	23.59	
20	QPSK	50	0	22.82	22.87	22.77	23.5
20	QPSK	50	24	22.76	22.79	22.74	
20	QPSK	50	50	22.73	22.72	22.74	
20	QPSK	100	0	22.74	22.86	22.70	
20	16QAM	1	0	22.89	22.99	22.91	23.5
20	16QAM	1	49	22.87	22.88	22.88	
20	16QAM	1	99	22.80	22.96	22.78	
20	16QAM	50	0	21.81	21.89	21.83	22.5
20	16QAM	50	24	21.75	21.83	21.73	
20	16QAM	50	50	21.76	21.69	21.74	
20	16QAM	100	0	21.82	21.74	21.67	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.67	23.74	23.59	24.5

15	QPSK	1	37	23.47	23.74	23.57	
15	QPSK	1	74	23.42	23.43	23.56	
15	QPSK	36	0	22.80	22.79	22.61	23.5
15	QPSK	36	20	22.73	22.77	22.60	
15	QPSK	36	39	22.67	22.65	22.61	
15	QPSK	75	0	22.62	22.68	22.64	
15	16QAM	1	0	22.84	22.92	22.72	23.5
15	16QAM	1	37	22.84	22.69	22.83	
15	16QAM	1	74	22.64	22.90	22.58	
15	16QAM	36	0	21.80	21.74	21.72	22.5
15	16QAM	36	20	21.62	21.78	21.64	
15	16QAM	36	39	21.69	21.62	21.60	
15	16QAM	75	0	21.64	21.59	21.56	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	23.59	23.73	23.58	24.5
10	QPSK	1	25	23.57	23.58	23.70	
10	QPSK	1	49	23.45	23.56	23.56	
10	QPSK	25	0	22.66	22.85	22.77	23.5
10	QPSK	25	12	22.76	22.65	22.57	
10	QPSK	25	25	22.71	22.72	22.54	
10	QPSK	50	0	22.58	22.86	22.60	
10	16QAM	1	0	22.70	22.98	22.85	23.5
10	16QAM	1	25	22.84	22.81	22.69	
10	16QAM	1	49	22.77	22.85	22.67	
10	16QAM	25	0	21.79	21.85	21.72	22.5
10	16QAM	25	12	21.67	21.80	21.56	
10	16QAM	25	25	21.59	21.52	21.70	
10	16QAM	50	0	21.66	21.65	21.48	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	23.67	23.68	23.73	24.5
5	QPSK	1	12	23.47	23.71	23.52	
5	QPSK	1	24	23.41	23.51	23.59	
5	QPSK	12	0	22.72	22.85	22.66	23.5
5	QPSK	12	7	22.56	22.65	22.69	
5	QPSK	12	13	22.60	22.54	22.57	
5	QPSK	25	0	22.68	22.67	22.53	
5	16QAM	1	0	22.85	22.97	22.80	23.5
5	16QAM	1	12	22.68	22.87	22.74	
5	16QAM	1	24	22.62	22.88	22.71	
5	16QAM	12	0	21.73	21.86	21.80	22.5
5	16QAM	12	7	21.55	21.78	21.63	
5	16QAM	12	13	21.65	21.51	21.72	
5	16QAM	25	0	21.64	21.65	21.51	

<LTE Band 71_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	15.70	15.77	15.75	16.5
20	QPSK	1	49	15.62	15.67	15.64	
20	QPSK	1	99	15.52	15.54	15.56	
20	QPSK	50	0	14.73	14.79	14.76	15.5
20	QPSK	50	24	14.64	14.65	14.72	
20	QPSK	50	50	14.68	14.63	14.63	
20	QPSK	100	0	14.54	14.71	14.67	
20	16QAM	1	0	15.04	15.10	15.06	15.5
20	16QAM	1	49	14.97	15.04	14.93	
20	16QAM	1	99	14.77	14.81	14.93	
20	16QAM	50	0	13.76	13.72	13.78	14.5
20	16QAM	50	24	13.70	13.67	13.73	
20	16QAM	50	50	13.70	13.69	13.68	
20	16QAM	100	0	13.74	13.65	13.69	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	15.68	15.67	15.71	16.5
15	QPSK	1	37	15.53	15.66	15.54	
15	QPSK	1	74	15.47	15.44	15.47	
15	QPSK	36	0	14.73	14.76	14.76	15.5
15	QPSK	36	20	14.54	14.61	14.71	
15	QPSK	36	39	14.59	14.63	14.55	
15	QPSK	75	0	14.53	14.69	14.64	
15	16QAM	1	0	14.95	15.08	15.02	15.5
15	16QAM	1	37	14.87	14.97	14.91	
15	16QAM	1	74	14.75	14.77	14.85	
15	16QAM	36	0	13.68	13.64	13.69	14.5
15	16QAM	36	20	13.61	13.58	13.69	
15	16QAM	36	39	13.65	13.65	13.67	
15	16QAM	75	0	13.73	13.55	13.65	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	15.70	15.77	15.71	16.5
10	QPSK	1	25	15.61	15.59	15.63	
10	QPSK	1	49	15.45	15.54	15.50	
10	QPSK	25	0	14.71	14.69	14.70	15.5
10	QPSK	25	12	14.59	14.61	14.63	
10	QPSK	25	25	14.63	14.57	14.54	
10	QPSK	50	0	14.52	14.63	14.61	
10	16QAM	1	0	14.95	15.10	14.97	15.5
10	16QAM	1	25	14.90	15.00	14.90	
10	16QAM	1	49	14.75	14.73	14.89	
10	16QAM	25	0	13.73	13.68	13.72	14.5
10	16QAM	25	12	13.70	13.66	13.66	
10	16QAM	25	25	13.66	13.61	13.63	
10	16QAM	50	0	13.71	13.65	13.63	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	15.66	15.76	15.74	16.5
5	QPSK	1	12	15.56	15.65	15.57	
5	QPSK	1	24	15.50	15.44	15.56	
5	QPSK	12	0	14.70	14.71	14.74	15.5
5	QPSK	12	7	14.64	14.59	14.65	
5	QPSK	12	13	14.66	14.60	14.57	
5	QPSK	25	0	14.44	14.68	14.67	
5	16QAM	1	0	14.94	15.01	15.05	15.5

5	16QAM	1	12	14.90	14.94	14.84	
5	16QAM	1	24	14.77	14.73	14.85	
5	16QAM	12	0	13.71	13.67	13.70	14.5
5	16QAM	12	7	13.68	13.65	13.70	
5	16QAM	12	13	13.67	13.65	13.60	
5	16QAM	25	0	13.69	13.58	13.60	

<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

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

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

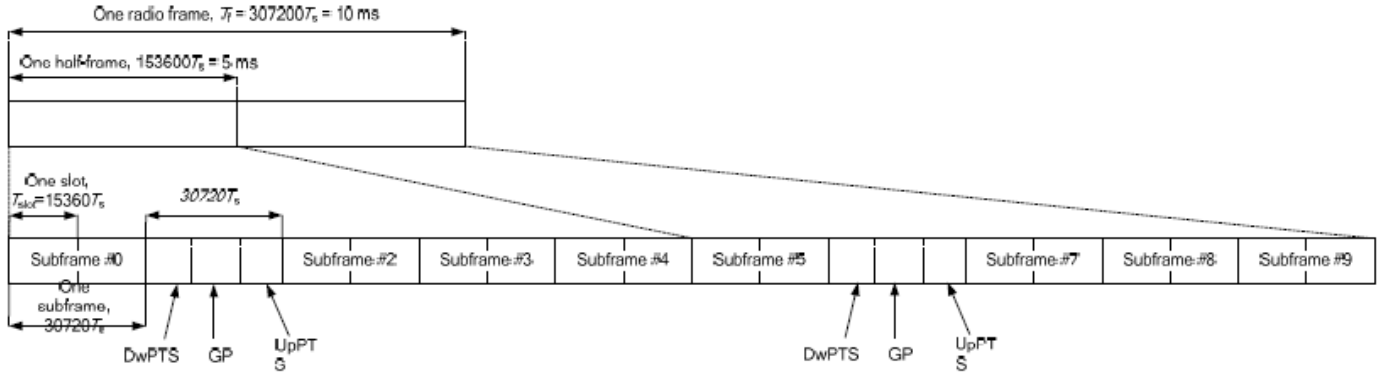


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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

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

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

The highest duty factor is resulted from:

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

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

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

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

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

<LTE Band 38_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	22.79	22.97	23.19	24
20	QPSK	1	49	22.69	22.93	23.15	
20	QPSK	1	99	22.72	22.88	23.17	
20	QPSK	50	0	21.92	22.07	22.18	23
20	QPSK	50	24	21.87	22.06	22.13	
20	QPSK	50	50	21.88	22.04	22.14	
20	QPSK	100	0	21.81	22.01	22.14	
20	16QAM	1	0	21.80	22.01	22.34	23
20	16QAM	1	49	21.85	22.02	22.33	
20	16QAM	1	99	21.84	21.83	22.31	
20	16QAM	50	0	20.85	21.05	21.40	22
20	16QAM	50	24	20.86	21.07	21.40	
20	16QAM	50	50	20.88	21.10	21.40	
20	16QAM	100	0	20.86	21.06	21.41	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.79	22.89	23.16	24
15	QPSK	1	37	22.55	22.73	23.00	
15	QPSK	1	74	22.56	22.69	23.05	
15	QPSK	36	0	21.75	21.93	22.06	23
15	QPSK	36	20	21.68	21.88	22.12	
15	QPSK	36	39	21.81	21.87	22.03	
15	QPSK	75	0	21.70	22.01	22.02	
15	16QAM	1	0	21.61	21.91	22.24	23
15	16QAM	1	37	21.68	21.84	22.28	
15	16QAM	1	74	21.68	21.73	22.17	
15	16QAM	36	0	20.78	20.96	21.31	22
15	16QAM	36	20	20.80	21.07	21.29	
15	16QAM	36	39	20.74	21.10	21.28	
15	16QAM	75	0	20.67	20.93	21.25	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.61	22.86	23.09	24
10	QPSK	1	25	22.58	22.86	23.06	
10	QPSK	1	49	22.58	22.83	22.97	
10	QPSK	25	0	21.83	22.06	22.10	23
10	QPSK	25	12	21.85	21.87	22.10	
10	QPSK	25	25	21.69	21.98	22.03	
10	QPSK	50	0	21.61	21.88	22.02	
10	16QAM	1	0	21.77	21.93	22.15	23
10	16QAM	1	25	21.73	21.92	22.25	
10	16QAM	1	49	21.72	21.82	22.14	
10	16QAM	25	0	20.84	20.98	21.25	22
10	16QAM	25	12	20.68	20.90	21.37	
10	16QAM	25	25	20.70	20.95	21.26	
10	16QAM	50	0	20.75	20.91	21.38	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.75	22.88	23.01	24
5	QPSK	1	12	22.61	22.76	23.13	
5	QPSK	1	24	22.64	22.86	23.00	
5	QPSK	12	0	21.77	22.07	22.00	23
5	QPSK	12	7	21.86	21.91	22.03	
5	QPSK	12	13	21.83	21.88	22.13	
5	QPSK	25	0	21.70	21.94	21.94	
5	16QAM	1	0	21.61	21.82	22.19	23

5	16QAM	1	12	21.77	21.88	22.15	
5	16QAM	1	24	21.75	21.73	22.25	
5	16QAM	12	0	20.72	20.94	21.39	22
5	16QAM	12	7	20.72	21.04	21.28	
5	16QAM	12	13	20.80	21.06	21.28	
5	16QAM	25	0	20.86	20.91	21.41	

<LTE Band 38_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	14.38	14.40	14.63	15
20	QPSK	1	49	14.28	14.39	14.56	
20	QPSK	1	99	14.32	14.38	14.54	
20	QPSK	50	0	13.52	13.58	13.73	14
20	QPSK	50	24	13.45	13.53	13.71	
20	QPSK	50	50	13.45	13.51	13.70	
20	QPSK	100	0	13.42	13.51	13.70	
20	16QAM	1	0	13.37	13.46	13.71	14
20	16QAM	1	49	13.38	13.46	13.66	
20	16QAM	1	99	13.36	13.45	13.59	
20	16QAM	50	0	12.44	12.54	12.74	13
20	16QAM	50	24	12.46	12.57	12.73	
20	16QAM	50	50	12.46	12.52	12.69	
20	16QAM	100	0	12.44	12.54	12.70	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	14.33	14.38	14.57	15
15	QPSK	1	37	14.28	14.34	14.54	
15	QPSK	1	74	14.32	14.32	14.47	
15	QPSK	36	0	13.43	13.54	13.67	14
15	QPSK	36	20	13.42	13.45	13.63	
15	QPSK	36	39	13.42	13.41	13.60	
15	QPSK	75	0	13.34	13.51	13.62	
15	16QAM	1	0	13.35	13.36	13.65	14
15	16QAM	1	37	13.32	13.43	13.62	
15	16QAM	1	74	13.33	13.44	13.55	
15	16QAM	36	0	12.44	12.52	12.67	13
15	16QAM	36	20	12.36	12.52	12.66	
15	16QAM	36	39	12.45	12.42	12.61	
15	16QAM	75	0	12.39	12.48	12.65	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	14.31	14.31	14.59	15
10	QPSK	1	25	14.24	14.32	14.46	
10	QPSK	1	49	14.31	14.31	14.51	
10	QPSK	25	0	13.48	13.49	13.67	14
10	QPSK	25	12	13.35	13.43	13.62	
10	QPSK	25	25	13.39	13.49	13.62	
10	QPSK	50	0	13.41	13.41	13.69	
10	16QAM	1	0	13.34	13.37	13.65	14
10	16QAM	1	25	13.36	13.41	13.57	
10	16QAM	1	49	13.29	13.40	13.52	
10	16QAM	25	0	12.39	12.53	12.67	13
10	16QAM	25	12	12.38	12.53	12.69	
10	16QAM	25	25	12.45	12.48	12.63	
10	16QAM	50	0	12.34	12.49	12.69	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	14.31	14.35	14.56	15

5	QPSK	1	12	14.19	14.35	14.53	
5	QPSK	1	24	14.29	14.30	14.46	
5	QPSK	12	0	13.50	13.58	13.69	14
5	QPSK	12	7	13.43	13.46	13.63	
5	QPSK	12	13	13.43	13.47	13.63	
5	QPSK	25	0	13.38	13.47	13.65	
5	16QAM	1	0	13.33	13.44	13.61	14
5	16QAM	1	12	13.32	13.45	13.64	
5	16QAM	1	24	13.34	13.37	13.57	
5	16QAM	12	0	12.36	12.48	12.67	13
5	16QAM	12	7	12.39	12.53	12.65	
5	16QAM	12	13	12.44	12.50	12.68	
5	16QAM	25	0	12.40	12.53	12.67	

<LTE Band 41_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	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.42	23.21	23.18	23.44	22.46	24
20	QPSK	1	49	23.40	23.09	23.13	23.35	23.42	
20	QPSK	1	99	23.21	22.96	23.10	23.33	22.45	
20	QPSK	50	0	22.51	22.33	22.31	22.60	22.56	23
20	QPSK	50	24	22.49	22.18	22.26	22.51	22.53	
20	QPSK	50	50	22.48	22.16	22.28	22.48	22.48	
20	QPSK	100	0	22.45	22.21	22.25	22.58	22.50	
20	16QAM	1	0	22.52	22.19	21.98	22.54	22.50	23
20	16QAM	1	49	22.48	22.07	22.23	22.44	22.51	
20	16QAM	1	99	22.51	22.07	22.26	22.42	22.59	
20	16QAM	50	0	21.61	21.26	21.25	21.53	21.54	22
20	16QAM	50	24	21.59	21.16	21.28	21.53	21.59	
20	16QAM	50	50	21.55	21.12	21.29	21.49	21.57	
20	16QAM	100	0	21.56	21.15	21.28	21.50	21.57	
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	23.25	23.18	23.15	23.28	22.35	0
15	QPSK	1	37	23.30	23.03	23.03	23.19	23.37	
15	QPSK	1	74	23.21	22.77	23.04	23.14	22.34	
15	QPSK	36	0	22.49	22.30	22.23	22.48	22.37	-1
15	QPSK	36	20	22.46	22.04	22.15	22.35	22.45	
15	QPSK	36	39	22.44	21.99	22.21	22.36	22.30	
15	QPSK	75	0	22.32	22.01	22.06	22.34	22.41	
15	16QAM	1	0	22.50	22.07	21.88	22.49	22.36	-1
15	16QAM	1	37	22.43	22.05	22.04	22.30	22.42	
15	16QAM	1	74	22.47	22.01	22.10	22.32	22.41	
15	16QAM	36	0	21.41	21.16	21.22	21.46	21.42	-2
15	16QAM	36	20	21.39	21.01	21.15	21.44	21.47	
15	16QAM	36	39	21.52	20.98	21.22	21.44	21.57	
15	16QAM	75	0	21.46	21.02	21.08	21.35	21.50	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.30	23.11	23.05	23.35	22.37	0
10	QPSK	1	25	23.22	22.91	23.09	23.28	23.22	
10	QPSK	1	49	23.06	22.86	22.93	23.22	22.33	
10	QPSK	25	0	22.47	22.16	22.29	22.35	22.56	-1
10	QPSK	25	12	22.49	22.02	22.14	22.49	22.34	
10	QPSK	25	25	22.33	22.01	22.15	22.33	22.33	
10	QPSK	50	0	22.44	22.04	22.24	22.34	22.35	
10	16QAM	1	0	22.51	22.10	21.86	22.54	22.30	-1
10	16QAM	1	25	22.36	22.05	22.03	22.31	22.35	
10	16QAM	1	49	22.37	21.87	22.14	22.28	22.49	

10	16QAM	25	0	21.44	21.06	21.10	21.39	21.37	-2
10	16QAM	25	12	21.55	21.03	21.14	21.50	21.50	
10	16QAM	25	25	21.48	20.96	21.18	21.45	21.52	
10	16QAM	50	0	21.49	21.12	21.18	21.41	21.51	
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	23.28	23.17	22.98	23.37	22.40	0
5	QPSK	1	12	23.40	23.05	22.99	23.18	23.26	
5	QPSK	1	24	23.05	22.93	22.99	23.32	23.35	
5	QPSK	12	0	22.51	22.32	22.24	22.36	22.55	-1
5	QPSK	12	7	22.40	22.14	22.25	22.32	22.40	
5	QPSK	12	13	22.30	21.97	22.09	22.39	22.45	
5	QPSK	25	0	22.31	22.16	22.13	22.40	22.50	
5	16QAM	1	0	22.40	22.13	21.90	22.34	22.33	-1
5	16QAM	1	12	22.32	21.90	22.09	22.28	22.51	
5	16QAM	1	24	22.44	21.99	22.18	22.40	22.59	
5	16QAM	12	0	21.51	21.17	21.15	21.35	21.39	-2
5	16QAM	12	7	21.41	21.03	21.26	21.44	21.51	
5	16QAM	12	13	21.46	20.95	21.16	21.47	21.49	
5	16QAM	25	0	21.54	21.06	21.13	21.50	21.55	

<LTE Band 41_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	14.59	14.42	14.44	14.75	14.48	15
20	QPSK	1	49	14.59	14.33	14.39	14.72	14.45	
20	QPSK	1	99	14.51	14.34	14.40	14.71	14.34	
20	QPSK	50	0	13.70	13.47	13.56	13.85	13.57	14
20	QPSK	50	24	13.69	13.44	13.54	13.82	13.45	
20	QPSK	50	50	13.65	13.35	13.55	13.80	13.45	
20	QPSK	100	0	13.67	13.41	13.51	13.81	13.44	
20	16QAM	1	0	13.70	13.46	13.52	13.79	13.60	14
20	16QAM	1	49	13.64	13.39	13.49	13.79	13.55	
20	16QAM	1	99	13.70	13.35	13.50	13.81	13.44	
20	16QAM	50	0	12.65	12.47	12.54	12.84	12.57	13
20	16QAM	50	24	12.68	12.47	12.57	12.86	12.48	
20	16QAM	50	50	12.67	12.44	12.54	12.82	12.46	
20	16QAM	100	0	12.67	12.39	12.55	12.83	12.45	
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	14.58	14.33	14.37	14.71	14.43	0
15	QPSK	1	37	14.53	14.28	14.37	14.68	14.44	
15	QPSK	1	74	14.50	14.29	14.30	14.64	14.24	
15	QPSK	36	0	13.65	13.46	13.51	13.80	13.54	-1
15	QPSK	36	20	13.67	13.39	13.50	13.78	13.40	
15	QPSK	36	39	13.65	13.30	13.49	13.77	13.42	
15	QPSK	75	0	13.67	13.38	13.44	13.80	13.35	
15	16QAM	1	0	13.65	13.38	13.44	13.76	13.60	-1
15	16QAM	1	37	13.55	13.32	13.41	13.70	13.51	
15	16QAM	1	74	13.68	13.32	13.41	13.81	13.35	
15	16QAM	36	0	12.57	12.44	12.46	12.79	12.51	-2
15	16QAM	36	20	12.61	12.46	12.49	12.83	12.40	
15	16QAM	36	39	12.60	12.35	12.54	12.80	12.37	
15	16QAM	75	0	12.59	12.34	12.55	12.78	12.36	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	14.50	14.32	14.42	14.73	14.38	0
10	QPSK	1	25	14.50	14.24	14.36	14.64	14.40	
10	QPSK	1	49	14.44	14.30	14.30	14.62	14.29	

10	QPSK	25	0	13.63	13.41	13.53	13.78	13.51	-1
10	QPSK	25	12	13.63	13.34	13.54	13.73	13.41	
10	QPSK	25	25	13.60	13.29	13.52	13.80	13.40	
10	QPSK	50	0	13.65	13.40	13.51	13.79	13.35	
10	16QAM	1	0	13.61	13.39	13.48	13.78	13.57	-1
10	16QAM	1	25	13.62	13.34	13.39	13.70	13.55	
10	16QAM	1	49	13.60	13.26	13.41	13.81	13.35	
10	16QAM	25	0	12.62	12.45	12.45	12.82	12.48	-2
10	16QAM	25	12	12.62	12.44	12.51	12.85	12.43	
10	16QAM	25	25	12.62	12.44	12.45	12.75	12.42	
10	16QAM	50	0	12.65	12.39	12.53	12.82	12.36	
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	14.58	14.32	14.42	14.69	14.48	0
5	QPSK	1	12	14.58	14.28	14.38	14.64	14.41	
5	QPSK	1	24	14.41	14.34	14.34	14.68	14.32	
5	QPSK	12	0	13.56	13.42	13.44	13.81	13.51	-1
5	QPSK	12	7	13.69	13.37	13.50	13.78	13.36	
5	QPSK	12	13	13.61	13.30	13.45	13.80	13.44	
5	QPSK	25	0	13.66	13.31	13.42	13.81	13.43	
5	16QAM	1	0	13.65	13.39	13.45	13.74	13.58	-1
5	16QAM	1	12	13.64	13.30	13.47	13.75	13.47	
5	16QAM	1	24	13.68	13.26	13.40	13.74	13.39	
5	16QAM	12	0	12.61	12.43	12.45	12.74	12.48	-2
5	16QAM	12	7	12.67	12.42	12.48	12.80	12.48	
5	16QAM	12	13	12.63	12.40	12.49	12.77	12.42	
5	16QAM	25	0	12.58	12.33	12.54	12.81	12.42	

<SAR test exclusion table>

General Note:

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

	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 26	LTE Band 66	LTE Band 25	LTE Band 30	LTE Band 7	LTE Band 41
Exposure Position	Calculated Frequency (MHz)	846	1750	1907	695	715	784	795	848	1779	1914	2312	2567	2687
	Maximum power (dBm)	25.0	25.0	25.0	24.5	24.5	24.5	24.5	24.5	24.5	24.5	23.0	24.0	24.0
	Maximum rated power(mW)	316.23	316.23	316.23	281.84	281.84	281.84	281.84	281.84	281.84	281.84	199.53	251.19	251.19
Tablet Back	Separation distance(mm)	5.0												
	exclusion threshold	58.2	83.7	87.3	47.0	47.7	49.9	50.3	51.9	75.2	78.0	60.7	80.5	82.4
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tablet Top Edge	Separation distance(mm)	5.0												
	exclusion threshold	58.2	83.7	87.3	47.0	47.7	49.9	50.3	51.9	75.2	78.0	60.7	80.5	82.4
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tablet Right Edge	Separation distance(mm)	5.0												
	exclusion threshold	58.2	83.7	87.3	47.0	47.7	49.9	50.3	51.9	75.2	78.0	60.7	80.5	82.4
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tablet Left Edge	Separation distance(mm)	214.0												
	exclusion threshold	1088.0	1753.0	1749.0	940.0	959.0	1027.0	1037.0	1090.0	1752.0	1748.0	1739.0	1734.0	1732.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No
Tablet Bottom Edge	Separation distance(mm)	208.0												
	exclusion threshold	1054.0	1693.0	1689.0	912.0	931.0	995.0	1006.0	1056.0	1692.0	1688.0	1679.0	1674.0	1672.0
	Testing required?	No	No	No	No	No	No	No	No	No	No	No	No	No
Laptop Bottom Side	Separation distance(mm)	5.0												
	exclusion threshold	58.2	83.7	87.3	47.0	47.7	49.9	50.3	51.9	75.2	78.0	60.7	80.5	82.4
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

12. 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 ≥0.8W/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 ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE 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 ≤ 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.

12.1 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	RMC 12.2Kbps	Bottom Side	35mm	Laptop	Sensor OFF	9400	1880	ICT	23.51	25.00	1.409	-0.01	0.066	0.093
	WCDMA II	RMC 12.2Kbps	Back	31mm	Tablet	Sensor OFF	9400	1880	ICT	23.51	25.00	1.409	0.09	0.100	0.141
	WCDMA II	RMC 12.2Kbps	Top Edge	34mm	Tablet	Sensor OFF	9400	1880	ICT	23.51	25.00	1.409	-0.09	0.048	0.068
	WCDMA II	RMC 12.2Kbps	Right Edge	14mm	Tablet	Sensor OFF	9400	1880	ICT	23.51	25.00	1.409	-0.12	0.027	0.038
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	Laptop	Sensor ON	9400	1880	ICT	14.94	15.50	1.138	0.06	0.310	0.353
	WCDMA II	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	9400	1880	ICT	14.94	15.50	1.138	-0.09	0.901	1.025
	WCDMA II	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	9262	1852.4	ICT	14.70	15.50	1.202	0.05	0.869	1.045
01	WCDMA II	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	9538	1907.6	ICT	14.77	15.50	1.183	-0.01	0.937	1.109
	WCDMA II	RMC 12.2Kbps	Top Edge	0mm	Tablet	Sensor ON	9400	1880	ICT	14.94	15.50	1.138	-0.03	0.211	0.240
	WCDMA II	RMC 12.2Kbps	Right Edge	0mm	Tablet	Sensor ON	9400	1880	ICT	14.94	15.50	1.138	-0.01	0.112	0.127
	WCDMA II	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	9538	1907.6	AWAN	14.77	15.50	1.183	-0.03	0.894	1.058
	WCDMA II	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	9262	1852.4	AWAN	14.70	15.50	1.202	-0.08	0.865	1.040
	WCDMA II	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	9400	1880	AWAN	14.94	15.50	1.138	-0.04	0.864	0.983
	WCDMA IV	RMC 12.2Kbps	Bottom Side	35mm	Laptop	Sensor OFF	1413	1732.6	ICT	23.66	25.00	1.361	0.09	0.129	0.176
	WCDMA IV	RMC 12.2Kbps	Back	31mm	Tablet	Sensor OFF	1413	1732.6	ICT	23.66	25.00	1.361	-0.17	0.232	0.316
	WCDMA IV	RMC 12.2Kbps	Top Edge	34mm	Tablet	Sensor OFF	1413	1732.6	ICT	23.66	25.00	1.361	0.15	0.116	0.158
	WCDMA IV	RMC 12.2Kbps	Right Edge	14mm	Tablet	Sensor OFF	1413	1732.6	ICT	23.66	25.00	1.361	-0.08	0.045	0.061
	WCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	Laptop	Sensor ON	1413	1732.6	ICT	14.59	15.00	1.099	0.03	0.385	0.423
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	1413	1732.6	ICT	14.59	15.00	1.099	0.12	0.988	1.086
02	WCDMA IV	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	1312	1712.4	ICT	14.51	15.00	1.119	-0.01	1.020	1.142
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	1513	1752.6	ICT	14.57	15.00	1.104	0.12	0.982	1.084
	WCDMA IV	RMC 12.2Kbps	Top Edge	0mm	Tablet	Sensor ON	1413	1732.6	ICT	14.59	15.00	1.099	0.11	0.319	0.351
	WCDMA IV	RMC 12.2Kbps	Right Edge	0mm	Tablet	Sensor ON	1413	1732.6	ICT	14.59	15.00	1.099	0.17	0.135	0.148
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	1312	1712.4	AWAN	14.51	15.00	1.119	0.09	0.922	1.032
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	1413	1732.6	AWAN	14.59	15.00	1.099	0.05	0.871	0.957
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	1513	1752.6	AWAN	14.57	15.00	1.104	0.02	0.894	0.987
	WCDMA V	RMC 12.2Kbps	Bottom Side	35mm	Laptop	Sensor OFF	4182	836.4	ICT	24.08	25.00	1.236	-0.18	0.077	0.095
	WCDMA V	RMC 12.2Kbps	Back	31mm	Tablet	Sensor OFF	4182	836.4	ICT	24.08	25.00	1.236	-0.07	0.091	0.112
	WCDMA V	RMC 12.2Kbps	Top Edge	34mm	Tablet	Sensor OFF	4182	836.4	ICT	24.08	25.00	1.236	0.09	0.044	0.054
	WCDMA V	RMC 12.2Kbps	Right Edge	14mm	Tablet	Sensor OFF	4182	836.4	ICT	24.08	25.00	1.236	0.12	0.151	0.187
	WCDMA V	RMC 12.2Kbps	Bottom Side	0mm	Laptop	Sensor ON	4182	836.4	ICT	16.67	17.00	1.079	-0.18	0.347	0.374
	WCDMA V	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	4182	836.4	ICT	16.67	17.00	1.079	-0.09	1.020	1.101
03	WCDMA V	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	4132	826.4	ICT	16.54	17.00	1.112	0	1.050	1.167
	WCDMA V	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	4233	846.6	ICT	16.58	17.00	1.102	0.09	1.010	1.113
	WCDMA V	RMC 12.2Kbps	Top Edge	0mm	Tablet	Sensor ON	4182	836.4	ICT	16.67	17.00	1.079	-0.15	0.240	0.259
	WCDMA V	RMC 12.2Kbps	Right Edge	0mm	Tablet	Sensor ON	4182	836.4	ICT	16.67	17.00	1.079	-0.16	0.771	0.832
	WCDMA V	RMC 12.2Kbps	Right Edge	0mm	Tablet	Sensor ON	4132	826.4	ICT	16.54	17.00	1.112	0.16	0.810	0.901
	WCDMA V	RMC 12.2Kbps	Right Edge	0mm	Tablet	Sensor ON	4233	846.6	ICT	16.58	17.00	1.102	0.12	0.760	0.837
	WCDMA V	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	4132	826.4	AWAN	16.54	17.00	1.112	0.14	0.989	1.100
	WCDMA V	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	4182	836.4	AWAN	16.67	17.00	1.079	0.02	0.942	1.016
	WCDMA V	RMC 12.2Kbps	Back	0mm	Tablet	Sensor ON	4233	846.6	AWAN	16.58	17.00	1.102	0.09	0.916	1.009

<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	20M	QPSK	1	0	Bottom Side	35mm	Laptop	Sensor OFF	20850	2510	ICT	23.20	24.00	1.202	-0.1	0.090	0.108
	LTE Band 7	20M	QPSK	50	0	Bottom Side	35mm	Laptop	Sensor OFF	20850	2510	ICT	22.57	23.00	1.104	0.04	0.075	0.083
	LTE Band 7	20M	QPSK	1	0	Back	31mm	Tablet	Sensor OFF	20850	2510	ICT	23.20	24.00	1.202	-0.16	0.164	0.197
	LTE Band 7	20M	QPSK	50	0	Back	31mm	Tablet	Sensor OFF	20850	2510	ICT	22.57	23.00	1.104	0.11	0.138	0.152
	LTE Band 7	20M	QPSK	1	0	Top Edge	34mm	Tablet	Sensor OFF	20850	2510	ICT	23.20	24.00	1.202	0.11	0.125	0.150
	LTE Band 7	20M	QPSK	50	0	Top Edge	34mm	Tablet	Sensor OFF	20850	2510	ICT	22.57	23.00	1.104	-0.05	0.106	0.117
	LTE Band 7	20M	QPSK	1	0	Right Edge	14mm	Tablet	Sensor OFF	20850	2510	ICT	23.20	24.00	1.202	0.13	0.061	0.073
	LTE Band 7	20M	QPSK	50	0	Right Edge	14mm	Tablet	Sensor OFF	20850	2510	ICT	22.57	23.00	1.104	0.12	0.052	0.057
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Laptop	Sensor ON	20850	2510	ICT	12.11	12.50	1.094	-0.12	0.265	0.290
	LTE Band 7	20M	QPSK	50	0	Bottom Side	0mm	Laptop	Sensor ON	20850	2510	ICT	11.17	11.50	1.079	-0.16	0.223	0.241
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	20850	2510	ICT	12.11	12.50	1.094	-0.03	0.958	1.048
04	LTE Band 7	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	21100	2535	ICT	11.75	12.50	1.189	0	0.906	1.077
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	21350	2560	ICT	11.70	12.50	1.202	0.19	0.767	0.922
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Tablet	Sensor ON	20850	2510	ICT	11.17	11.50	1.079	-0.04	0.671	0.724
	LTE Band 7	20M	QPSK	100	0	Back	0mm	Tablet	Sensor ON	20850	2510	ICT	10.97	11.50	1.130	-0.05	0.658	0.743
	LTE Band 7	20M	QPSK	1	0	Top Edge	0mm	Tablet	Sensor ON	20850	2510	ICT	12.11	12.50	1.094	0.07	0.284	0.311
	LTE Band 7	20M	QPSK	50	0	Top Edge	0mm	Tablet	Sensor ON	20850	2510	ICT	11.17	11.50	1.079	0.09	0.223	0.241
	LTE Band 7	20M	QPSK	1	0	Right Edge	0mm	Tablet	Sensor ON	20850	2510	ICT	12.11	12.50	1.094	-0.18	0.030	0.033
	LTE Band 7	20M	QPSK	50	0	Right Edge	0mm	Tablet	Sensor ON	20850	2510	ICT	11.17	11.50	1.079	0.13	0.024	0.026
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	21100	2535	AWAN	11.75	12.50	1.189	0.02	0.843	1.002
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	20850	2510	AWAN	12.11	12.50	1.094	0.01	0.792	0.866
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	21350	2560	AWAN	11.70	12.50	1.202	0.08	0.811	0.975
	LTE Band 12	10M	QPSK	1	0	Bottom Side	35mm	Laptop	Sensor OFF	23095	707.5	ICT	23.42	24.50	1.282	0	0.035	0.045
	LTE Band 12	10M	QPSK	25	0	Bottom Side	35mm	Laptop	Sensor OFF	23095	707.5	ICT	22.59	23.50	1.233	0.1	0.029	0.036
	LTE Band 12	10M	QPSK	1	0	Back	31mm	Tablet	Sensor OFF	23095	707.5	ICT	23.42	24.50	1.282	0.11	0.068	0.087
	LTE Band 12	10M	QPSK	25	0	Back	31mm	Tablet	Sensor OFF	23095	707.5	ICT	22.59	23.50	1.233	0.08	0.055	0.068
	LTE Band 12	10M	QPSK	1	0	Top Edge	34mm	Tablet	Sensor OFF	23095	707.5	ICT	23.42	24.50	1.282	0.02	0.040	0.051
	LTE Band 12	10M	QPSK	25	0	Top Edge	34mm	Tablet	Sensor OFF	23095	707.5	ICT	22.59	23.50	1.233	0.11	0.032	0.039
	LTE Band 12	10M	QPSK	1	0	Right Edge	14mm	Tablet	Sensor OFF	23095	707.5	ICT	23.42	24.50	1.282	-0.19	0.104	0.133
	LTE Band 12	10M	QPSK	25	0	Right Edge	14mm	Tablet	Sensor OFF	23095	707.5	ICT	22.59	23.50	1.233	0.15	0.085	0.105
	LTE Band 12	10M	QPSK	1	0	Bottom Side	0mm	Laptop	Sensor ON	23095	707.5	ICT	15.79	16.50	1.178	0.13	0.212	0.250
	LTE Band 12	10M	QPSK	25	0	Bottom Side	0mm	Laptop	Sensor ON	23095	707.5	ICT	14.84	15.50	1.164	0.15	0.167	0.194
	LTE Band 12	10M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	23095	707.5	ICT	15.79	16.50	1.178	-0.08	0.650	0.765
	LTE Band 12	10M	QPSK	25	0	Back	0mm	Tablet	Sensor ON	23095	707.5	ICT	14.84	15.50	1.164	-0.07	0.513	0.597
	LTE Band 12	10M	QPSK	1	0	Top Edge	0mm	Tablet	Sensor ON	23095	707.5	ICT	15.79	16.50	1.178	0.02	0.097	0.114
	LTE Band 12	10M	QPSK	25	0	Top Edge	0mm	Tablet	Sensor ON	23095	707.5	ICT	14.84	15.50	1.164	-0.14	0.077	0.090
	LTE Band 12	10M	QPSK	1	0	Right Edge	0mm	Tablet	Sensor ON	23095	707.5	ICT	15.79	16.50	1.178	0	0.818	0.963
	LTE Band 12	10M	QPSK	25	0	Right Edge	0mm	Tablet	Sensor ON	23095	707.5	ICT	14.84	15.50	1.164	-0.06	0.648	0.754
	LTE Band 12	10M	QPSK	50	0	Right Edge	0mm	Tablet	Sensor ON	23095	707.5	ICT	14.81	15.50	1.172	0.16	0.633	0.742
05	LTE Band 12	10M	QPSK	1	0	Right Edge	0mm	Tablet	Sensor ON	23095	707.5	AWAN	15.79	16.50	1.178	-0.04	0.889	1.047
	LTE Band 13	10M	QPSK	1	0	Bottom Side	35mm	Laptop	Sensor OFF	23230	782	ICT	23.63	24.50	1.222	0.19	0.038	0.046
	LTE Band 13	10M	QPSK	25	0	Bottom Side	35mm	Laptop	Sensor OFF	23230	782	ICT	22.70	23.50	1.202	-0.1	0.030	0.036
	LTE Band 13	10M	QPSK	1	0	Back	31mm	Tablet	Sensor OFF	23230	782	ICT	23.63	24.50	1.222	0.11	0.078	0.095
	LTE Band 13	10M	QPSK	25	0	Back	31mm	Tablet	Sensor OFF	23230	782	ICT	22.70	23.50	1.202	-0.02	0.062	0.075
	LTE Band 13	10M	QPSK	1	0	Top Edge	34mm	Tablet	Sensor OFF	23230	782	ICT	23.63	24.50	1.222	0.17	0.044	0.054
	LTE Band 13	10M	QPSK	25	0	Top Edge	34mm	Tablet	Sensor OFF	23230	782	ICT	22.70	23.50	1.202	0.15	0.035	0.042
	LTE Band 13	10M	QPSK	1	0	Right Edge	14mm	Tablet	Sensor OFF	23230	782	ICT	23.63	24.50	1.222	-0.11	0.125	0.153
	LTE Band 13	10M	QPSK	25	0	Right Edge	14mm	Tablet	Sensor OFF	23230	782	ICT	22.70	23.50	1.202	0.02	0.100	0.120
	LTE Band 13	10M	QPSK	1	0	Bottom Side	0mm	Laptop	Sensor ON	23230	782	ICT	16.36	17.50	1.300	-0.1	0.218	0.283
	LTE Band 13	10M	QPSK	25	0	Bottom Side	0mm	Laptop	Sensor ON	23230	782	ICT	15.40	16.50	1.288	0.13	0.177	0.228
06	LTE Band 13	10M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	23230	782	ICT	16.36	17.50	1.300	0.02	0.811	1.054
	LTE Band 13	10M	QPSK	25	0	Back	0mm	Tablet	Sensor ON	23230	782	ICT	15.40	16.50	1.288	0.06	0.639	0.823

	LTE Band 13	10M	QPSK	50	0	Back	0mm	Tablet	Sensor ON	23230	782	ICT	15.35	16.50	1.303	-0.07	0.640	0.834
	LTE Band 13	10M	QPSK	1	0	Top Edge	0mm	Tablet	Sensor ON	23230	782	ICT	16.36	17.50	1.300	-0.18	0.104	0.135
	LTE Band 13	10M	QPSK	25	0	Top Edge	0mm	Tablet	Sensor ON	23230	782	ICT	15.40	16.50	1.288	-0.19	0.083	0.107
	LTE Band 13	10M	QPSK	1	0	Right Edge	0mm	Tablet	Sensor ON	23230	782	ICT	16.36	17.50	1.300	0.18	0.693	0.901
	LTE Band 13	10M	QPSK	25	0	Right Edge	0mm	Tablet	Sensor ON	23230	782	ICT	15.40	16.50	1.288	-0.15	0.551	0.710
	LTE Band 13	10M	QPSK	50	0	Right Edge	0mm	Tablet	Sensor ON	23230	782	ICT	15.35	16.50	1.303	-0.07	0.543	0.708
	LTE Band 13	10M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	23230	782	AWAN	16.36	17.50	1.300	-0.04	0.691	0.898
	LTE Band 14	10M	QPSK	1	0	Bottom Side	35mm	Laptop	Sensor OFF	23330	793	ICT	23.68	24.50	1.208	-0.01	0.041	0.050
	LTE Band 14	10M	QPSK	25	0	Bottom Side	35mm	Laptop	Sensor OFF	23330	793	ICT	22.78	23.50	1.180	0.05	0.032	0.038
	LTE Band 14	10M	QPSK	1	0	Back	31mm	Tablet	Sensor OFF	23330	793	ICT	23.68	24.50	1.208	0.17	0.081	0.098
	LTE Band 14	10M	QPSK	25	0	Back	31mm	Tablet	Sensor OFF	23330	793	ICT	22.78	23.50	1.180	0.13	0.065	0.077
	LTE Band 14	10M	QPSK	1	0	Top Edge	34mm	Tablet	Sensor OFF	23330	793	ICT	23.68	24.50	1.208	-0.13	0.047	0.057
	LTE Band 14	10M	QPSK	25	0	Top Edge	34mm	Tablet	Sensor OFF	23330	793	ICT	22.78	23.50	1.180	-0.02	0.038	0.045
	LTE Band 14	10M	QPSK	1	0	Right Edge	14mm	Tablet	Sensor OFF	23330	793	ICT	23.68	24.50	1.208	0.01	0.127	0.153
	LTE Band 14	10M	QPSK	25	0	Right Edge	14mm	Tablet	Sensor OFF	23330	793	ICT	22.78	23.50	1.180	0.19	0.104	0.123
	LTE Band 14	10M	QPSK	1	0	Bottom Side	0mm	Laptop	Sensor ON	23330	793	ICT	16.40	17.50	1.288	-0.11	0.238	0.307
	LTE Band 14	10M	QPSK	25	0	Bottom Side	0mm	Laptop	Sensor ON	23330	793	ICT	15.45	16.50	1.274	0.03	0.190	0.242
07	LTE Band 14	10M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	23330	793	ICT	16.40	17.50	1.288	0	0.846	1.090
	LTE Band 14	10M	QPSK	25	0	Back	0mm	Tablet	Sensor ON	23330	793	ICT	15.45	16.50	1.274	-0.1	0.672	0.856
	LTE Band 14	10M	QPSK	50	0	Back	0mm	Tablet	Sensor ON	23330	793	ICT	15.37	16.50	1.297	0.14	0.661	0.857
	LTE Band 14	10M	QPSK	1	0	Top Edge	0mm	Tablet	Sensor ON	23330	793	ICT	16.40	17.50	1.288	0.06	0.115	0.148
	LTE Band 14	10M	QPSK	25	0	Top Edge	0mm	Tablet	Sensor ON	23330	793	ICT	15.45	16.50	1.274	0.13	0.092	0.117
	LTE Band 14	10M	QPSK	1	0	Right Edge	0mm	Tablet	Sensor ON	23330	793	ICT	16.40	17.50	1.288	0.13	0.766	0.987
	LTE Band 14	10M	QPSK	25	0	Right Edge	0mm	Tablet	Sensor ON	23330	793	ICT	15.45	16.50	1.274	0.04	0.618	0.787
	LTE Band 14	10M	QPSK	50	0	Right Edge	0mm	Tablet	Sensor ON	23330	793	ICT	15.37	16.50	1.297	0.02	0.609	0.790
	LTE Band 14	10M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	23330	793	AWAN	16.40	17.50	1.288	-0.16	0.754	0.971
	LTE Band 25	20M	QPSK	1	0	Bottom Side	35mm	Laptop	Sensor OFF	26340	1880	ICT	23.53	24.50	1.250	0.05	0.055	0.069
	LTE Band 25	20M	QPSK	50	0	Bottom Side	35mm	Laptop	Sensor OFF	26340	1880	ICT	22.69	23.50	1.205	-0.07	0.044	0.053
	LTE Band 25	20M	QPSK	1	0	Back	31mm	Tablet	Sensor OFF	26340	1880	ICT	23.53	24.50	1.250	-0.11	0.124	0.155
	LTE Band 25	20M	QPSK	50	0	Back	31mm	Tablet	Sensor OFF	26340	1880	ICT	22.69	23.50	1.205	-0.05	0.102	0.123
	LTE Band 25	20M	QPSK	1	0	Top Edge	34mm	Tablet	Sensor OFF	26340	1880	ICT	23.53	24.50	1.250	-0.05	0.065	0.081
	LTE Band 25	20M	QPSK	50	0	Top Edge	34mm	Tablet	Sensor OFF	26340	1880	ICT	22.69	23.50	1.205	0.07	0.054	0.065
	LTE Band 25	20M	QPSK	1	0	Right Edge	14mm	Tablet	Sensor OFF	26340	1880	ICT	23.53	24.50	1.250	-0.19	0.036	0.045
	LTE Band 25	20M	QPSK	50	0	Right Edge	14mm	Tablet	Sensor OFF	26340	1880	ICT	22.69	23.50	1.205	-0.16	0.030	0.036
	LTE Band 25	20M	QPSK	1	0	Bottom Side	0mm	Laptop	Sensor ON	26340	1880	ICT	14.65	15.50	1.216	0.04	0.228	0.277
	LTE Band 25	20M	QPSK	50	0	Bottom Side	0mm	Laptop	Sensor ON	26340	1880	ICT	13.71	14.50	1.199	-0.09	0.181	0.217
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	26340	1880	ICT	14.65	15.50	1.216	0.16	0.813	0.989
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	26140	1860	ICT	14.51	15.50	1.256	-0.14	0.786	0.987
08	LTE Band 25	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	26590	1905	ICT	14.47	15.50	1.268	0	0.837	1.061
	LTE Band 25	20M	QPSK	50	0	Back	0mm	Tablet	Sensor ON	26340	1880	ICT	13.71	14.50	1.199	-0.02	0.652	0.782
	LTE Band 25	20M	QPSK	100	0	Back	0mm	Tablet	Sensor ON	26340	1880	ICT	13.67	14.50	1.211	-0.02	0.633	0.766
	LTE Band 25	20M	QPSK	1	0	Top Edge	0mm	Tablet	Sensor ON	26340	1880	ICT	14.65	15.50	1.216	-0.07	0.183	0.223
	LTE Band 25	20M	QPSK	50	0	Top Edge	0mm	Tablet	Sensor ON	26340	1880	ICT	13.71	14.50	1.199	0.01	0.142	0.170
	LTE Band 25	20M	QPSK	1	0	Right Edge	0mm	Tablet	Sensor ON	26340	1880	ICT	14.65	15.50	1.216	0.11	0.109	0.133
	LTE Band 25	20M	QPSK	50	0	Right Edge	0mm	Tablet	Sensor ON	26340	1880	ICT	13.71	14.50	1.199	0.19	0.088	0.106
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	26590	1905	AWAN	14.47	15.50	1.268	0.06	0.814	1.032
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	26140	1860	AWAN	14.51	15.50	1.256	0.05	0.803	1.009
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	26340	1880	AWAN	14.65	15.50	1.216	-0.13	0.812	0.988
	LTE Band 26	15M	QPSK	1	0	Bottom Side	35mm	Laptop	Sensor OFF	26865	831.5	ICT	23.66	24.50	1.213	0.13	0.084	0.102
	LTE Band 26	15M	QPSK	36	0	Bottom Side	35mm	Laptop	Sensor OFF	26865	831.5	ICT	22.79	23.50	1.178	-0.14	0.068	0.080
	LTE Band 26	15M	QPSK	1	0	Back	31mm	Tablet	Sensor OFF	26865	831.5	ICT	23.66	24.50	1.213	-0.05	0.088	0.107
	LTE Band 26	15M	QPSK	36	0	Back	31mm	Tablet	Sensor OFF	26865	831.5	ICT	22.79	23.50	1.178	-0.18	0.070	0.082
	LTE Band 26	15M	QPSK	1	0	Top Edge	34mm	Tablet	Sensor OFF	26865	831.5	ICT	23.66	24.50	1.213	0.14	0.046	0.056
	LTE Band 26	15M	QPSK	36	0	Top Edge	34mm	Tablet	Sensor OFF	26865	831.5	ICT	22.79	23.50	1.178	-0.1	0.038	0.045
	LTE Band 26	15M	QPSK	1	0	Right Edge	14mm	Tablet	Sensor OFF	26865	831.5	ICT	23.66	24.50	1.213	0.19	0.157	0.191
	LTE Band 26	15M	QPSK	36	0	Right Edge	14mm	Tablet	Sensor OFF	26865	831.5	ICT	22.79	23.50	1.178	-0.09	0.125	0.147

	LTE Band 26	15M	QPSK	1	0	Bottom Side	0mm	Laptop	Sensor ON	26865	831.5	ICT	15.93	17.00	1.279	-0.16	0.248	0.317
	LTE Band 26	15M	QPSK	36	0	Bottom Side	0mm	Laptop	Sensor ON	26865	831.5	ICT	15.00	16.00	1.259	0.08	0.199	0.251
09	LTE Band 26	15M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	26865	831.5	ICT	15.93	17.00	1.279	0	0.854	1.093
	LTE Band 26	15M	QPSK	36	0	Back	0mm	Tablet	Sensor ON	26865	831.5	ICT	15.00	16.00	1.259	-0.19	0.683	0.860
	LTE Band 26	15M	QPSK	75	0	Back	0mm	Tablet	Sensor ON	26865	831.5	ICT	14.96	16.00	1.271	-0.03	0.679	0.863
	LTE Band 26	15M	QPSK	1	0	Top Edge	0mm	Tablet	Sensor ON	26865	831.5	ICT	15.93	17.00	1.279	-0.08	0.153	0.196
	LTE Band 26	15M	QPSK	36	0	Top Edge	0mm	Tablet	Sensor ON	26865	831.5	ICT	15.00	16.00	1.259	-0.06	0.123	0.155
	LTE Band 26	15M	QPSK	1	0	Right Edge	0mm	Tablet	Sensor ON	26865	831.5	ICT	15.93	17.00	1.279	0.01	0.793	1.015
	LTE Band 26	15M	QPSK	36	0	Right Edge	0mm	Tablet	Sensor ON	26865	831.5	ICT	15.00	16.00	1.259	0.13	0.645	0.812
	LTE Band 26	15M	QPSK	75	0	Right Edge	0mm	Tablet	Sensor ON	26865	831.5	ICT	14.96	16.00	1.271	-0.14	0.627	0.797
	LTE Band 26	15M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	26865	831.5	AWAN	15.93	17.00	1.279	0.02	0.835	1.068
	LTE Band 30	10M	QPSK	1	0	Bottom Side	35mm	Laptop	Sensor OFF	27710	2310	ICT	21.65	23.00	1.365	0.18	0.036	0.049
	LTE Band 30	10M	QPSK	25	0	Bottom Side	35mm	Laptop	Sensor OFF	27710	2310	ICT	20.62	22.00	1.374	0.04	0.027	0.037
	LTE Band 30	10M	QPSK	1	0	Back	31mm	Tablet	Sensor OFF	27710	2310	ICT	21.65	23.00	1.365	-0.14	0.065	0.089
	LTE Band 30	10M	QPSK	25	0	Back	31mm	Tablet	Sensor OFF	27710	2310	ICT	20.62	22.00	1.374	0.01	0.051	0.070
	LTE Band 30	10M	QPSK	1	0	Top Edge	34mm	Tablet	Sensor OFF	27710	2310	ICT	21.65	23.00	1.365	0.15	0.050	0.068
	LTE Band 30	10M	QPSK	25	0	Top Edge	34mm	Tablet	Sensor OFF	27710	2310	ICT	20.62	22.00	1.374	0.04	0.039	0.054
	LTE Band 30	10M	QPSK	1	0	Right Edge	14mm	Tablet	Sensor OFF	27710	2310	ICT	21.65	23.00	1.365	0.06	0.024	0.033
	LTE Band 30	10M	QPSK	25	0	Right Edge	14mm	Tablet	Sensor OFF	27710	2310	ICT	20.62	22.00	1.374	0.03	0.020	0.027
	LTE Band 30	10M	QPSK	1	0	Bottom Side	0mm	Laptop	Sensor ON	27710	2310	ICT	12.90	14.00	1.288	-0.03	0.227	0.292
	LTE Band 30	10M	QPSK	25	0	Bottom Side	0mm	Laptop	Sensor ON	27710	2310	ICT	11.88	13.00	1.294	-0.18	0.183	0.237
10	LTE Band 30	10M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	27710	2310	ICT	12.90	14.00	1.288	-0.01	0.855	1.101
	LTE Band 30	10M	QPSK	25	0	Back	0mm	Tablet	Sensor ON	27710	2310	ICT	11.88	13.00	1.294	0.11	0.653	0.845
	LTE Band 30	10M	QPSK	50	0	Back	0mm	Tablet	Sensor ON	27710	2310	ICT	11.86	13.00	1.300	0.02	0.672	0.874
	LTE Band 30	10M	QPSK	1	0	Top Edge	0mm	Tablet	Sensor ON	27710	2310	ICT	12.90	14.00	1.288	-0.06	0.142	0.183
	LTE Band 30	10M	QPSK	25	0	Top Edge	0mm	Tablet	Sensor ON	27710	2310	ICT	11.88	13.00	1.294	-0.08	0.091	0.118
	LTE Band 30	10M	QPSK	1	0	Right Edge	0mm	Tablet	Sensor ON	27710	2310	ICT	12.90	14.00	1.288	-0.1	0.043	0.055
	LTE Band 30	10M	QPSK	25	0	Right Edge	0mm	Tablet	Sensor ON	27710	2310	ICT	11.88	13.00	1.294	0.16	0.018	0.023
	LTE Band 30	10M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	27710	2310	AWAN	12.90	14.00	1.288	0.13	0.699	0.900
	LTE Band 66	20M	QPSK	1	0	Bottom Side	35mm	Laptop	Sensor OFF	132322	1745	ICT	23.52	24.50	1.253	-0.01	0.104	0.130
	LTE Band 66	20M	QPSK	50	0	Bottom Side	35mm	Laptop	Sensor OFF	132322	1745	ICT	22.62	23.50	1.225	-0.03	0.084	0.103
	LTE Band 66	20M	QPSK	1	0	Back	31mm	Tablet	Sensor OFF	132322	1745	ICT	23.52	24.50	1.253	0.01	0.237	0.297
	LTE Band 66	20M	QPSK	50	0	Back	31mm	Tablet	Sensor OFF	132322	1745	ICT	22.62	23.50	1.225	0.14	0.191	0.234
	LTE Band 66	20M	QPSK	1	0	Top Edge	34mm	Tablet	Sensor OFF	132322	1745	ICT	23.52	24.50	1.253	0.05	0.128	0.160
	LTE Band 66	20M	QPSK	50	0	Top Edge	34mm	Tablet	Sensor OFF	132322	1745	ICT	22.62	23.50	1.225	-0.15	0.104	0.127
	LTE Band 66	20M	QPSK	1	0	Right Edge	14mm	Tablet	Sensor OFF	132322	1745	ICT	23.52	24.50	1.253	0.08	0.042	0.053
	LTE Band 66	20M	QPSK	50	0	Right Edge	14mm	Tablet	Sensor OFF	132322	1745	ICT	22.62	23.50	1.225	-0.04	0.033	0.040
	LTE Band 66	20M	QPSK	1	0	Bottom Side	0mm	Laptop	Sensor ON	132322	1745	ICT	14.05	14.50	1.109	0.15	0.291	0.323
	LTE Band 66	20M	QPSK	50	0	Bottom Side	0mm	Laptop	Sensor ON	132322	1745	ICT	13.06	13.50	1.107	0.18	0.116	0.128
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	132322	1745	ICT	14.05	14.50	1.109	-0.03	0.859	0.953
11	LTE Band 66	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	132072	1720	ICT	14.02	14.50	1.117	-0.02	0.884	0.987
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	132572	1770	ICT	14.00	14.50	1.122	-0.13	0.825	0.926
	LTE Band 66	20M	QPSK	50	0	Back	0mm	Tablet	Sensor ON	132322	1745	ICT	13.06	13.50	1.107	0.12	0.609	0.674
	LTE Band 66	20M	QPSK	100	0	Back	0mm	Tablet	Sensor ON	132322	1745	ICT	13.04	13.50	1.112	0.08	0.628	0.698
	LTE Band 66	20M	QPSK	1	0	Top Edge	0mm	Tablet	Sensor ON	132322	1745	ICT	14.05	14.50	1.109	0.06	0.236	0.262
	LTE Band 66	20M	QPSK	50	0	Top Edge	0mm	Tablet	Sensor ON	132322	1745	ICT	13.06	13.50	1.107	0.18	0.143	0.158
	LTE Band 66	20M	QPSK	1	0	Right Edge	0mm	Tablet	Sensor ON	132322	1745	ICT	14.05	14.50	1.109	0.09	0.165	0.183
	LTE Band 66	20M	QPSK	50	0	Right Edge	0mm	Tablet	Sensor ON	132322	1745	ICT	13.06	13.50	1.107	0	0.084	0.093
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	132072	1720	AWAN	14.02	14.50	1.117	0.08	0.764	0.853
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	132322	1745	AWAN	14.05	14.50	1.109	0.02	0.752	0.834
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	132572	1770	AWAN	14.00	14.50	1.122	0.07	0.771	0.865
	LTE Band 71	20M	QPSK	1	0	Bottom Side	35mm	Laptop	Sensor OFF	133297	680.5	ICT	23.79	24.50	1.178	-0.18	0.042	0.049
	LTE Band 71	20M	QPSK	50	0	Bottom Side	35mm	Laptop	Sensor OFF	133297	680.5	ICT	22.87	23.50	1.156	0.15	0.033	0.038
	LTE Band 71	20M	QPSK	1	0	Back	31mm	Tablet	Sensor OFF	133297	680.5	ICT	23.79	24.50	1.178	0.06	0.046	0.054
	LTE Band 71	20M	QPSK	50	0	Back	31mm	Tablet	Sensor OFF	133297	680.5	ICT	22.87	23.50	1.156	0.13	0.038	0.044
	LTE Band 71	20M	QPSK	1	0	Top Edge	34mm	Tablet	Sensor OFF	133297	680.5	ICT	23.79	24.50	1.178	0.15	0.037	0.044

	LTE Band 71	20M	QPSK	50	0	Top Edge	34mm	Tablet	Sensor OFF	133297	680.5	ICT	22.87	23.50	1.156	-0.07	0.030	0.035
	LTE Band 71	20M	QPSK	1	0	Right Edge	14mm	Tablet	Sensor OFF	133297	680.5	ICT	23.79	24.50	1.178	-0.01	0.091	0.107
	LTE Band 71	20M	QPSK	50	0	Right Edge	14mm	Tablet	Sensor OFF	133297	680.5	ICT	22.87	23.50	1.156	0.09	0.074	0.086
	LTE Band 71	20M	QPSK	1	0	Bottom Side	0mm	Laptop	Sensor ON	133297	680.5	ICT	15.77	16.50	1.183	0.12	0.174	0.206
	LTE Band 71	20M	QPSK	50	0	Bottom Side	0mm	Laptop	Sensor ON	133297	680.5	ICT	14.79	15.50	1.178	-0.19	0.100	0.118
	LTE Band 71	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	133297	680.5	ICT	15.77	16.50	1.183	-0.07	0.558	0.660
	LTE Band 71	20M	QPSK	50	0	Back	0mm	Tablet	Sensor ON	133297	680.5	ICT	14.79	15.50	1.178	0.06	0.397	0.468
	LTE Band 71	20M	QPSK	1	0	Top Edge	0mm	Tablet	Sensor ON	133297	680.5	ICT	15.77	16.50	1.183	-0.06	0.103	0.122
	LTE Band 71	20M	QPSK	50	0	Top Edge	0mm	Tablet	Sensor ON	133297	680.5	ICT	14.79	15.50	1.178	-0.16	0.022	0.026
	LTE Band 71	20M	QPSK	1	0	Right Edge	0mm	Tablet	Sensor ON	133297	680.5	ICT	15.77	16.50	1.183	-0.12	0.897	1.061
	LTE Band 71	20M	QPSK	50	0	Right Edge	0mm	Tablet	Sensor ON	133297	680.5	ICT	14.79	15.50	1.178	0.03	0.671	0.790
	LTE Band 71	20M	QPSK	100	0	Right Edge	0mm	Tablet	Sensor ON	133297	680.5	ICT	14.71	15.50	1.199	0.05	0.662	0.794
12	LTE Band 71	20M	QPSK	1	0	Right Edge	0mm	Tablet	Sensor ON	133297	680.5	AWAN	15.77	16.50	1.183	-0.05	0.924	1.093

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	20M	QPSK	1	0	Bottom Side	35mm	Laptop	Sensor OFF	41055	2636.5	ICT	23.44	24.00	1.138	62.9	1.006	-0.1	0.053	0.061
	LTE Band 41	20M	QPSK	50	0	Bottom Side	35mm	Laptop	Sensor OFF	41055	2636.5	ICT	22.60	23.00	1.096	62.9	1.006	-0.11	0.044	0.049
	LTE Band 41	20M	QPSK	1	0	Back	31mm	Tablet	Sensor OFF	41055	2636.5	ICT	23.44	24.00	1.138	62.9	1.006	-0.14	0.070	0.080
	LTE Band 41	20M	QPSK	50	0	Back	31mm	Tablet	Sensor OFF	41055	2636.5	ICT	22.60	23.00	1.096	62.9	1.006	0.01	0.058	0.064
	LTE Band 41	20M	QPSK	1	0	Top Edge	34mm	Tablet	Sensor OFF	41055	2636.5	ICT	23.44	24.00	1.138	62.9	1.006	0.06	0.057	0.065
	LTE Band 41	20M	QPSK	50	0	Top Edge	34mm	Tablet	Sensor OFF	41055	2636.5	ICT	22.60	23.00	1.096	62.9	1.006	0.19	0.046	0.051
	LTE Band 41	20M	QPSK	1	0	Right Edge	14mm	Tablet	Sensor OFF	41055	2636.5	ICT	23.44	24.00	1.138	62.9	1.006	-0.09	0.029	0.033
	LTE Band 41	20M	QPSK	50	0	Right Edge	14mm	Tablet	Sensor OFF	41055	2636.5	ICT	22.60	23.00	1.096	62.9	1.006	-0.19	0.023	0.025
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Laptop	Sensor ON	41055	2636.5	ICT	14.75	15.00	1.059	62.9	1.006	-0.1	0.203	0.216
	LTE Band 41	20M	QPSK	50	0	Bottom Side	0mm	Laptop	Sensor ON	41055	2636.5	ICT	13.85	14.00	1.035	62.9	1.006	0.02	0.098	0.102
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	41055	2636.5	ICT	14.75	15.00	1.059	62.9	1.006	-0.13	0.793	0.845
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	39750	2506	ICT	14.59	15.00	1.099	62.9	1.006	-0.01	0.963	1.065
13	LTE Band 41	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	40185	2549.5	ICT	14.42	15.00	1.143	62.9	1.006	0.02	0.976	1.122
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	40620	2593	ICT	14.44	15.00	1.138	62.9	1.006	-0.08	0.858	0.982
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	41490	2680	ICT	14.48	15.00	1.127	62.9	1.006	0.14	0.768	0.871
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Tablet	Sensor ON	41055	2636.5	ICT	13.85	14.00	1.035	62.9	1.006	0.14	0.662	0.689
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Tablet	Sensor ON	39750	2506	ICT	13.65	14.00	1.084	62.9	1.006	0.09	0.728	0.794
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Tablet	Sensor ON	40185	2549.5	ICT	13.47	14.00	1.130	62.9	1.006	0.06	0.788	0.896
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Tablet	Sensor ON	40620	2593	ICT	13.53	14.00	1.114	62.9	1.006	0.05	0.672	0.753
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Tablet	Sensor ON	41490	2680	ICT	13.57	14.00	1.104	62.9	1.006	-0.02	0.684	0.760
	LTE Band 41	20M	QPSK	100	0	Back	0mm	Tablet	Sensor ON	41055	2636.5	ICT	13.81	14.00	1.045	62.9	1.006	0.17	0.641	0.674
	LTE Band 41	20M	QPSK	1	0	Top Edge	0mm	Tablet	Sensor ON	41055	2636.5	ICT	14.75	15.00	1.059	62.9	1.006	-0.04	0.204	0.217
	LTE Band 41	20M	QPSK	50	0	Top Edge	0mm	Tablet	Sensor ON	41055	2636.5	ICT	13.85	14.00	1.035	62.9	1.006	0.17	0.103	0.107
	LTE Band 41	20M	QPSK	1	0	Right Edge	0mm	Tablet	Sensor ON	41055	2636.5	ICT	14.75	15.00	1.059	62.9	1.006	-0.01	0.015	0.016
	LTE Band 41	20M	QPSK	50	0	Right Edge	0mm	Tablet	Sensor ON	41055	2636.5	ICT	13.85	14.00	1.035	62.9	1.006	-0.1	0.026	0.027
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	40185	2549.5	AWAN	14.42	15.00	1.143	62.9	1.006	-0.01	0.880	1.012
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	39750	2506	AWAN	14.59	15.00	1.099	62.9	1.006	0.1	0.952	1.053
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	40620	2593	AWAN	14.44	15.00	1.138	62.9	1.006	0.12	0.952	1.090
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	41490	2680	AWAN	14.48	15.00	1.127	62.9	1.006	0.09	0.930	1.055
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Tablet	Sensor ON	41055	2636.5	AWAN	14.75	15.00	1.059	62.9	1.006	0.02	0.834	0.889

12.2 Repeated SAR Measurement

No.	Band	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	Back	0mm	Tablet	Sensor ON	9538	1907.6	ICT	14.77	15.50	1.183			-0.01	0.937	-	1.109
2nd	WCDMA II	Back	0mm	Tablet	Sensor ON	9538	1907.6	ICT	14.77	15.50	1.183			0.02	0.914	1.025	1.081
1st	WCDMA IV	Back	0mm	Tablet	Sensor ON	1312	1712.4	ICT	14.51	15.00	1.119			-0.01	1.020	-	1.142
2nd	WCDMA IV	Back	0mm	Tablet	Sensor ON	1312	1712.4	ICT	14.51	15.00	1.119			-0.06	0.998	1.022	1.117
1st	WCDMA V	Back	0mm	Tablet	Sensor ON	4132	826.4	ICT	16.54	17.00	1.112			0	1.050	-	1.167
2nd	WCDMA V	Back	0mm	Tablet	Sensor ON	4132	826.4	ICT	16.54	17.00	1.112			0.07	0.973	1.079	1.082
1st	LTE Band 30	Back	0mm	Tablet	Sensor ON	27710	2310	ICT	12.90	14.00	1.288			-0.01	0.855	-	1.101
2nd	LTE Band 30	Back	0mm	Tablet	Sensor ON	27710	2310	ICT	12.90	14.00	1.288			-0.06	0.816	1.048	1.051
1st	LTE Band 71	Right Edge	0mm	Tablet	Sensor ON	133297	680.5	AWAN	15.77	16.50	1.183			-0.05	0.924	-	1.093
2nd	LTE Band 71	Right Edge	0mm	Tablet	Sensor ON	133297	680.5	AWAN	15.77	16.50	1.183			0.09	0.893	1.035	1.056
1st	LTE Band 41	Back	0mm	Tablet	Sensor ON	40185	2549.5	ICT	14.42	15.00	1.143	62.9	1.006	0.02	0.976	-	1.122
2nd	LTE Band 41	Back	0mm	Tablet	Sensor ON	40185	2549.5	ICT	14.42	15.00	1.143	62.9	1.006	0.04	0.954	1.023	1.097

General Note:

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

13. Simultaneous Transmission Analysis

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

General Note:

1. The Intel AX211D2W WLAN/BT module (FCC ID: PD9AX211D2) is integrated into this host.
2. The Intel BE201D2W WLAN/BT module (FCC ID: PD9BE201D2) is also integrated into this host.
3. 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 modular SAR report. In this report only assessment WWAN to each WLAN/BT antenna.
4. The Scaled SAR summation is calculated based on the same configuration and test position.
5. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
   i) Scalar SAR summation < 1.6W/kg.
   ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
   iii) If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.
   iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
   v) The SPLSR calculated results please refer to section 13.2.

13.1 Body Exposure Conditions

Exposure Position	1 Maximum WWAN 1g SAR (W/kg)	2 WLAN Ant Main 1g SAR (W/kg)	3 WLAN Ant Aux 1g SAR (W/kg)	4 Bluetooth Ant Aux 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	SPLSR	Case No.
Bottom Side at 0mm	0.423	1.590	1.590	1.590	2.013	2.013	2.013	0.010	Case 1
Back at 0mm	1.167	1.590	1.590	1.590	2.757	2.757	2.757	0.020	Case 3
Top Edge at 0mm	0.351	1.590	1.590	1.590	1.941	1.941	1.941	0.010	Case 4
Right Edge at 0mm	1.093	1.590	1.590	1.590	2.683	2.683	2.683	0.020	Case 5

13.1 SPLSR Evaluation and Analysis

General Note:

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

	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 1	WWAN Main	Bottom Side	0.423	0	208.0	2.01	0.01	Not required
	WLAN Ant Main		1.59	0				
	WWAN Main	Bottom Side	0.423	0	208.0	2.01	0.01	Not required
	WLAN Ant Aux		1.59	0				
	WWAN Main	Bottom Side	0.423	0	208.0	2.01	0.01	Not required
	Bluetooth Ant Aux		1.59	0				
Case 3	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WWAN Main	Back	1.167	0	208.0	2.76	0.02	Not required
	WLAN Ant Main		1.59	0				
	WWAN Main	Back	1.167	0	208.0	2.76	0.02	Not required
	WLAN Ant Aux		1.59	0				
	WWAN Main	Back	1.167	0	208.0	2.76	0.02	Not required
	Bluetooth Ant Aux		1.59	0				
Case 4	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WWAN Main	Top Edge	0.351	0	208.0	1.94	0.01	Not required
	WLAN Ant Main		1.59	0				
	WWAN Main	Top Edge	0.351	0	208.0	1.94	0.01	Not required
	WLAN Ant Aux		1.59	0				
	WWAN Main	Top Edge	0.351	0	208.0	1.94	0.01	Not required
	Bluetooth Ant Aux		1.59	0				
Case 5	Band	Position	SAR (W/kg)	Gap (mm)	Minimum distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WWAN Main	Right Edge	1.093	0	208.0	2.68	0.02	Not required
	WLAN Ant Main		1.59	0				
	WWAN Main	Right Edge	1.093	0	208.0	2.68	0.02	Not required
	WLAN Ant Aux		1.59	0				
	WWAN Main	Right Edge	1.093	0	208.0	2.68	0.02	Not required
	Bluetooth Ant Aux		1.59	0				

Test Engineer：Mood Huang and Putzie Chen

14. Uncertainty Assessment

Declaration of Conformity:
The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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

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

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

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor[a]	1/k[b]	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

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

(b) κ is the coverage factor

Standard Uncertainty for Assumed Distribution

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

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

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

Applicable for SAR Measurements:

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

Applicable for Power Density Measurements:

Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (±dB)
Probe Calibration	0.49	N	1	1	0.49
Probe correction	0.00	R	1.732	1	0.00
Frequency response (BW ≤ 1 GHz)	0.20	R	1.732	1	0.12
Sensor cross coupling	0.00	R	1.732	1	0.00
Isotropy	0.50	R	1.732	1	0.29
Linearity	0.20	R	1.732	1	0.12
Probe scattering	0.00	R	1.732	1	0.00
Probe positioning offset	0.30	R	1.732	1	0.17
Probe positioning repeatability	0.04	R	1.732	1	0.02
Sensor mechanical offset	0.00	R	1.732	1	0.00
Probe spatial resolution	0.00	R	1.732	1	0.00
Field impedance dependance	0.00	R	1.732	1	0.00
Amplitude and phase drift	0.00	R	1.732	1	0.00
Amplitude and phase noise	0.04	R	1.732	1	0.02
Measurement area truncation	0.00	R	1.732	1	0.00
Data acquisition	0.03	N	1	1	0.03
Sampling	0.00	R	1.732	1	0.00
Field reconstruction	2.00	R	1.732	1	1.15
Forward transformation	0.00	R	1.732	1	0.00
Power density scaling	0.00	R	1.732	1	0.00
Spatial averaging	0.10	R	1.732	1	0.06
System detection limit	0.04	R	1.732	1	0.02
Uncertainty terms dep endent on the DUT and environmental factors					
Probe coupling with DUT	0.00	R	1.732	1	0.0
Modulation response	0.40	R	1.732	1	0.2
Integration time	0.00	R	1.732	1	0.0
Response time	0.00	R	1.732	1	0.0
Device holder influence	0.10	R	1.732	1	0.1
DUT alignment	0.00	R	1.732	1	0.0
RF ambient conditions	0.04	R	1.732	1	0.0
Ambient reflections	0.04	R	1.732	1	0.0
Immunity / secondary reception	0.00	R	1.732	1	0.0
Drift of the DUT		R	1.732	1	
Combined Std. Uncertainty					1.34
Expanded STD Uncertainty (95%)					**2.68**

15. 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

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