

SAR TEST REPORT

Applicant Shanghai Sunmi Technology Co.,Ltd.
FCC ID 2AH25P3MIXH
Product Smart POS Terminal
Brand SUNMI
Model T6721
Report No. EFTA25090010-IE-03-S1
Issue Date December 26, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **IEEE 1528-2013, ANSI C95.1: 1992, IEEE C95.1: 1991, § 2.1093**. The test results show that the equipment tested can demonstrate compliance with the requirements as documented in this report.
can demonstrate compliance



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1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

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1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C
Relative humidity	Min. = 20%, Max. = 80%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

2 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for the EUT are as follows:

Table 1: Highest Reported SAR

Mode	Highest Reported SAR (W/kg)
	1g SAR Body (Separation 0mm) and Trigger distance minus 1mm
GSM 850	1.15
WCDMA Band II	1.07
WCDMA Band IV	0.96
WCDMA Band V	0.82
FDD Band 7	1.42
FDD Band 12 (FDD Band 17)	0.96
FDD Band 13	0.97
FDD Band 14	0.87
FDD Band 25 (FDD Band 2)	1.13
FDD Band 26 (FDD Band 5)	1.12
FDD Band 30	1.16
TDD Band 41 (FDD Band 38)	0.89
FDD Band 66 (FDD Band 4)	1.03
FDD Band 71	0.97
Hyper Wi-Fi	1.36
Wi-Fi 2.4G	0.71
Wi-Fi 5G	0.21
Bluetooth	0.92
Date of Testing: September 20, 2025 ~ September 26, 2025	
Date of Sample Received: September 1, 2025	
Note:	
1. The device is in compliance with SAR for Uncontrolled Environment /General Population exposure limits (1.6 W/kg) specified in ANSI C95.1: 1992/IEEE C95.1: 1991 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.	
2. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement	

Uncertainties were not taken into account and are published for informational purposes only.

- 1) According to TCB workshop October, 2014 RF Exposure Procedures Update (Overlapping LTE Bands):
 - a) Main and Div Antenna SAR for LTE Band 17 (Frequency range: 704-716 MHz) is covered by LTE Band 12 (Frequency range 699-716 MHz)); LTE Band 2 (Frequency range 1850-1910 MHz) is covered by LTE Band 25 (Frequency range: 1850-1915 MHz)); LTE Band 5 (Frequency range 824-849 MHz) is covered by LTE Band 26 (Frequency range: 814-849 MHz)); LTE Band 38 (Frequency range 2570-2620 MHz) is covered by LTE Band 41 (Frequency range: 2496-2690 MHz); LTE Band 4 (Frequency range 1710-1755 MHz) is covered by LTE Band 66 (Frequency range: 1710-1780 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits according to the FCC rule § 2.1093, the ANSI C95.1: 1992/IEEE C95.1: 1991, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013.

Table 2: Highest Simultaneous Transmission SAR

Exposure Configuration	1g SAR Body (Separation 0mm)
Highest Simultaneous Transmission SAR (W/kg)	1.59
Note: The detail for simultaneous transmission consideration is described in chapter 10.3.	

3 Description of Equipment Under Test

Client Information

Applicant	Shanghai Sunmi Technology Co.,Ltd.
Applicant address	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
Manufacturer	Shanghai Sunmi Technology Co.,Ltd.
Manufacturer address	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China

General Technologies

EUT Stage	Identical Prototype
Model	T6721
IMEI	IMEI1:868189062376407; IMEI2:868189062376415
Hardware Version	Bgf6e
Software Version	P3_MIX_STD_user_HyperWi-Fi_v054_1.0.5_174_20250703
Antenna Type	Internal Antenna
Wi-Fi Hotspot	Wi-Fi 2.4GHz Wi-Fi 5GHz U-NII-1& U-NII-2A& U-NII-2C&U-NII-3
Power Class	GSM 850: 4 WCDMA Band II/IV/V: 3 LTE FDD 2/4/5/7/12/13/14/17/25/26/30/66/71: 3 LTE TDD 38/41: 3
Power Level	GSM 850: level 5 WCDMA Band II/IV/V: all up bits LTE FDD 2/4/5/7/12/13/14/17/25/26/30/66/71: max power LTE TDD 38/41: max power
EUT Accessory	
Battery 1	Manufacturer: Guangdong Pow-Tech New Power Co., Ltd. Model: LKPA DC 7.2V,2500mAh
Battery 2	Manufacturer: POWER GLORY BATTERY TECH(HK) CO LTD Model: CR2032 DC 3V, 220mAh
Battery 3	Manufacturer: JHIH HONG TECHNOLOGY CO LTD Model: CR2032 DC 3V, 220mAh
Adapter 1	Manufacturer: SHENZHEN TIANYIN ELECTRONICS CO., LTD. Model: TPA-23A050200UU01 Input: 100-240V~50/60Hz 0.3A Output: 5.0V~-2.0A
Adapter 2	Manufacturer: Jiangsu Chenyang Electron Co., Ltd. Model: UC13US Input: 100-240V~50/60Hz 0.35A Output: 5.0V---2.0A 10.0W

USB Cable 1

Manufacturer: Saibao (Jiangxi) Industry Co., LTD
Model: SSM-A001A

Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.

2. Two-thirds of the batteries are backup batteries for financial tamper-proof authentication. When the main battery (Battery 1) is powered off, Batteries 2 and 3 are used to detect and trigger an alarm.

Wireless Technology and Frequency Range

Wireless Technology		Modulation	Operating mode	Tx (MHz)	Rx (MHz)	Gain (dBi)			
GSM	850	GPRS(GMSK) EGPRS(GMSK,8PSK)	☐ Multi-slot Class:8-1UP ☐ Multi-slotClass:10-2UP ☒ Multi-slotClass:12-4UP ☐ Multi-slotClass:33-4UP	869 ~ 894	869 ~ 894	-0.7			
	Does this device support DTM (Dual Transfer Mode)? ☐ Yes ☒ No								
WCDMA	Band II	QPSK	HSDPA UE Category:24 HSUPA UE Category:7 DC-HSDPA UE Category:N/A	1850 ~ 1910	1930 ~ 1990	2.60			
	Band IV			1710 ~ 1755	2110 ~ 2155	2.80			
	Band V			824 ~ 849	869 ~ 894	-0.70			
LTE	FDD 2	QPSK, 16QAM, 64QAM	Rel.8 /Category 4	1850 ~ 1910	1930 ~ 1990	2.60			
	FDD 4			1710 ~ 1755	2110 ~ 2155	2.80			
	FDD 5			824 ~ 849	869 ~ 894	-0.70			
	FDD 7			2500 ~ 2570	2620 ~ 2690	2.50			
	FDD 12			699 ~ 716	729 ~ 746	-1.20			
	FDD 13			777 ~ 787	746 ~ 756	-1.20			
	FDD 14			788 ~ 798	758 ~ 768	-1.20			
	FDD 17			704 ~ 716	734 ~ 746	-1.20			
	FDD 25			1850 ~ 1915	1930 ~ 1995	2.60			
	FDD 26			814 ~ 849	859 ~ 894	-1.20			
	FDD 30			2305 ~ 2315	2350 ~ 2360	2.30			
	TDD 38			2570 ~ 2620	2570 ~ 2620	2.50			
	TDD 41			2496 ~ 2690	2496 ~ 2690	2.50			
	FDD 66			1710 ~ 1780	2110 ~ 2180	2.80			
	FDD 71			663 ~ 698	617 ~ 652	-2.30			
	Does this device support Carrier Aggregation (CA) ☐ Yes ☒ No								
	Does this device support SV-LTE (1xRTT-LTE)? ☐ Yes ☒ No								
	Bluetooth			2.4GHz	Version 5.0 BR/EDR + LE		2402 ~ 2480	2402 ~ 2480	1.20
	Hyper Wi-Fi				902 ~ 928	902 ~ 928	-0.10		
Wi-Fi	2.4GHz	2412 ~ 2462	802.11b/g/n HT20	2412 ~ 2462	2412 ~ 2462	1.20			
		2422 ~ 2452	802.11n HT40	2422 ~ 2452	2422 ~ 2452	1.20			
	5GHz	5150 ~ 5250	802.11a/n HT20/ HT40/ ac VHT20/ VHT40/ VHT80	5150 ~ 5250	5150 ~ 5250	1.00			
		5250 ~ 5350		5250 ~ 5350	5250 ~ 5350	1.10			
		5470 ~ 5600		5470 ~ 5600	5470 ~ 5600	1.20			

		5650 ~ 5725		5650 ~ 5725	5650 ~ 5725	1.15
		5725 ~ 5850		5725 ~ 5850	5725 ~ 5850	
	Does this device support MIMO ☐ Yes ☒ No					
NFC	13.56MHz					

4 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE 1528- 2013, ANSI C95.1: 1992, IEEE C95.1: 1991, the following FCC Published RF exposure KDB procedures:

KDB 248227 D01 802.11Wi-Fi SAR v02r02
KDB 447498 D01 General RF Exposure Guidance v06
KDB 690783 D01 SAR Listings on Grants v01r03
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02 RF Exposure Reporting v01r02
KDB 941225 D01 3G SAR Procedures v03r01
KDB 941225 D05 SAR for LTE Devices v02r05
KDB 616217 D04 SAR for laptop and tablets v01r02

5 Operational Conditions during Test

5.1 Test Positions

According to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.

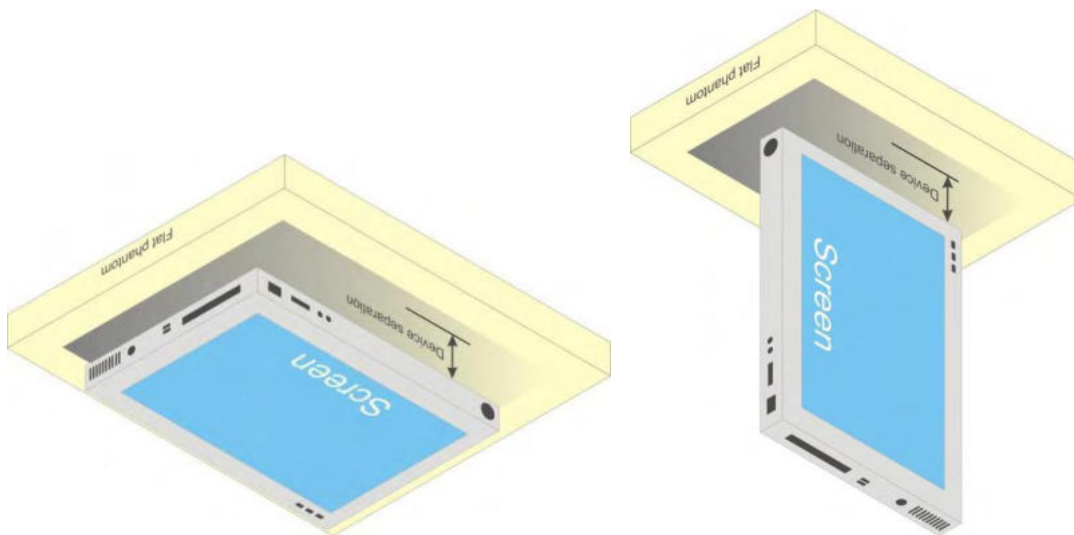


Fig-4.1 Illustration for Tablet Setup

According to KDB 447498 D01, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

(1) The SAR exclusion threshold for distances $\leq 50\text{mm}$ is defined by the following equation:

$$\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} * \sqrt{\text{Frequency (GHz)}} \leq 3.0$$

(2) The SAR exclusion threshold for distances $> 50\text{mm}$ is defined by the following equation, as illustrated in KDB 447498 D01 Appendix B:

a) at 100 MHz to 1500 MHz

$$[\text{Power allowed at numeric Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot (f_{\text{(MHz)}}/150)] \text{ mW}$$

b) at $> 1500 \text{ MHz}$ and $\leq 6 \text{ GHz}$

$$[\text{Power allowed at numeric Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot 10] \text{ mW}$$

Band	Frequency (MHz)	Max. Tune-up Power (dBm)	Back Side			Right Edge			Left Edge			Top Edge			Bottom Edge		
			Ant. To Surgace (mm)	Evaluation	Conclusion	Ant. To Surgace (mm)	Evaluation	Conclusion	Ant. To Surgace (mm)	Evaluation	Conclusion	Ant. To Surgace (mm)	Evaluation	Conclusion	Ant. To Surgace (mm)	Evaluation	Conclusion
Wi-Fi 2.4G	2412	19	38.7	3.19	No	50.0	2.47	No	167	1172.47	Yes	13.3	9.28	No	149.8	1000.47	Yes
Wi-Fi 5G	5260	17	38.7	2.97	Yes	50.0	2.30	No	167	1172.30	Yes	13.3	8.64	No	149.8	1000.30	Yes
Wi-Fi 5G	5500	17	38.7	3.04	No	50.0	2.35	No	167	1172.35	Yes	13.3	8.84	No	149.8	1000.35	Yes
Wi-Fi 5G	5745	17	38.7	3.10	No	50.0	2.40	No	167	1172.40	Yes	13.3	9.03	No	149.8	1000.40	Yes
Bluetooth	2402	11	38.7	0.50	Yes	50.0	0.39	No	167	1170.39	Yes	13.3	1.47	No	149.8	998.39	Yes
Hyper WiFi	902	23.5	44.8	4.75	No	31.9	6.68	No	155.5	1059.25	Yes	133.2	836.25	Yes	1.9	113.70	No

5.2 Measurement Variability

Per FCC KDB Publication 865664 D01, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

5.3 Test Configuration

5.2.1 GSM Test Configuration

According to specification 3GPP TS 51.010, the maximum power of the GSM can do the power reduction for the multi-slot. The allowed power reduction in the multi-slot configuration is as following:

Output power of reductions:

Table 3: The allowed power reduction in the multi-slot configuration

Number of timeslots in uplink assignment	Permissible nominal reduction of maximum output power (dB)
1	0
2	0 to 3,0
3	1,8 to 4,8
4	3,0 to 6,0

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. GSM voice and GPRS data use GMSK, which is a constant amplitude modulation with minimal peak to average power difference within the time-slot burst. For EDGE, GMSK is used for MCS 1 – MCS 4 and 8-PSK is used for MCS 5 – MCS 9; where 8-PSK has an inherently higher peak-to-average power ratio. The GMSK and 8-PSK EDGE configurations are considered separately for SAR compliance. The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance. The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

5.2.2 WCDMA Test Configuration

5.2.2.1 3G SAR Test Reduction Procedure

The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations modes according to output power, exposure conditions and device operating capabilities. Maximum output power is verified by applying the applicable versions of 3GPP TS 34.121.

5.2.2.2 Body-worn Accessory SAR

SAR for body-worn accessory configurations is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the EUT with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding

spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the EUT, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC

5.2.2.3 Release 5 HSDPA Test Configuration

The 3G SAR test reduction procedure is applied to HSDPA body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures in the “Release 5 HSDPA Data Devices” section of this document, for the highest SAR body-worn accessory exposure configuration in 12.2 kbps RMC. EUT with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

HSDPA should be configured according to the UE category of a test device. The number of HSDSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) should be set according to values indicated in the Table below. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Table 4: Subtests for WCDMA Release 5 HSDPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (note 1, note 2)	CM(dB) (note 3)	MPR(dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (note 4)	15/15 (note 4)	64	12/15 (note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5
Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$ Note 2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. Note 3: 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 signaled gain factors for the reference TFC (TFC1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.							

5.2.2.4 Release 6 HSUPA Test Configuration

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures in the “Release 6 HSPA Data Devices” section of this document, for the highest body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When VOIP is applicable for next to the ear head exposure in HSPA, the 3G SAR test reduction

procedure is applied to HSPA with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body-worn accessory measurements is tested for next to the ear head exposure.

Due to inner loop power control requirements in HSPA, a communication test set is required for output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSPA are configured according to the β values indicated in Table 2 and other applicable procedures described in the 'WCDMA EUT' and 'Release 5 HSDPA Data Devices' sections of this document

Table 5: Sub-Test 5 Setup for Release 6 HSUPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	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	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

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

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

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Figure 5.1g.

Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

Table 6: HSUPA UE Category

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCHTTI (ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	2	2 SF2 & 2 SF4	11484	5.76
	4	4	10		20000	2.00
7	4	8	2	2 SF2 & 2	22996	?

(No DPDCH)				SF4		
	4	4	10		20000	?
NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE Categories 1 to 6 supports QPSK only. UE Category 7 supports QPSK and 16QAM. (TS25.306-7.3.0)						

5.2.2.5 HSPA and DC-HSDPA Test Configuration

SAR test exclusion may apply to 3GPP Rel. 6 HSPA and Rel. 8 DC-HSDPA. When SAR measurement is required for HSPA or DC-HSDPA, a KDB inquiry is required to confirm that the wireless mode configurations in the test setup have remained stable throughout the SAR measurements. Without prior KDB confirmation to determine the SAR results are acceptable, a PAG is required for equipment approval.

SAR test exclusion for HSPA and DC-HSDPA is determined according to the following:

- 1) The HSPA procedures are applied to configure 3GPP Rel. 6 HSPA devices in the required sub-test mode(s) to determine SAR test exclusion.
- 2) SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.
- 3) Regardless of whether a PBA is required, the following information must be verified and included in the SAR report for devices supporting HSPA or DC-HSDPA:
 - a) The output power measurement results and applicable release version(s) of 3GPP TS 34.121. Power measurement difficulties due to test equipment setup or availability must be resolved between the grantee and its test lab.
 - b) The power measurement results are in agreement with the individual device implementation and specifications. When Enhanced MPR (E-MPR) applies, the normal MPR targets may be modified according to the Cubic Metric (CM) measured by the device, which must be taken into consideration.
 - c) The UE category, operating parameters, such as the β and Δ values used to configure the device for testing, power setback procedures described in 3GPP TS 34.121 for the power measurements, and HSPA channel conditions (active and stable) for the entire duration of the measurement according to the required E-TFCl and AG index values.
- 4) When SAR measurement is required, the test configurations, procedures and power measurement results must be clearly described to confirm that the required test parameters are used, including E-TFCl and AG index stability and output power conditions.

Table 7: HS-DSCH UE Category

HS-DSCH category	Maximum number of HS-DSCH codes received	Minimum inter-TTI interval	Maximum number of bits of an HS-DSCH transport block received within an HS-DSCH TTI NOTE 1	Total number of soft channel bits	Supported modulations without MIMO operation or dual cell operation	Supported modulations with MIMO operation and without dual cell operation	Supported modulations with dual cell operation
Category 1	5	3	7298	19200	QPSK, 16QAM	Not applicable (MIMO not supported)	Not applicable (dual cell operation not supported)
Category 2	5	3	7298	28800			
Category 3	5	2	7298	28800			
Category 4	5	2	7298	38400			
Category 5	5	1	7298	57600			
Category 6	5	1	7298	67200			
Category 7	10	1	14411	115200			
Category 8	10	1	14411	134400			
Category 9	15	1	20251	172800			
Category 10	15	1	27952	172800			
Category 11	5	2	3630	14400	QPSK		
Category 12	5	1	3630	28800			
Category 13	15	1	35280	259200	QPSK, 16QAM, 64QAM		
Category 14	15	1	42192	259200			
Category 15	15	1	23370	345600	QPSK, 16QAM		
Category 16	15	1	27952	345600			
Category 17 NOTE 2	15	1	35280	259200	QPSK, 16QAM, 64QAM	–	
			23370	345600	–	QPSK, 16QAM	
Category 18 NOTE 3	15	1	42192	259200	QPSK, 16QAM, 64QAM	–	
			27952	345600	–	QPSK, 16QAM	
Category 19	15	1	35280	518400	QPSK, 16QAM, 64QAM		
Category 20	15	1	42192	518400			
Category 21	15	1	23370	345600	-	-	QPSK, 16QAM
Category 22	15	1	27952	345600			QPSK, 16QAM, 64QAM
Category 23	15	1	35280	518400			QPSK, 16QAM, 64QAM
Category 24	15	1	42192	518400			

5.2.3 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR. The R&S CMW500 was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

D) Largest Channel Bandwidth Standalone SAR Test Requirements

1) QPSK with 1 RB allocation

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. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

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 in 1) and 2) 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) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other Channel Bandwidth Standalone SAR Test Requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

5.2.4 Additional Requirements for TDD LTE Specification

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

TDD LTE Band supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table: Uplink-downlink configurations for uplink-downlink configurations and Table: Configuration of special subframe (lengths of DwPTS/GP/UpPTS) for Special subframe configurations.

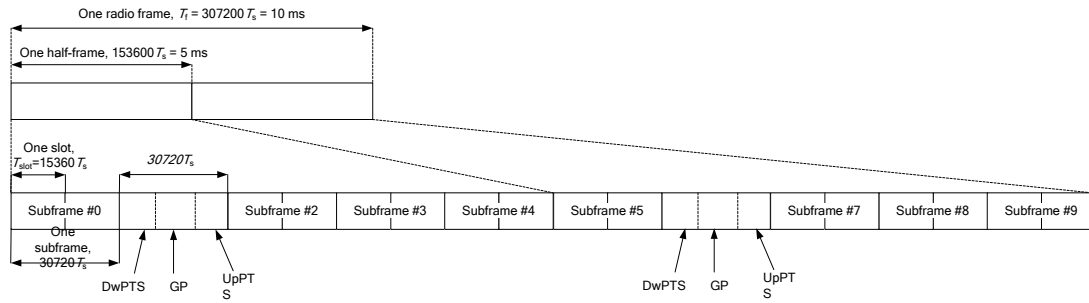


Figure 1: Frame structure type 2

Table 8: 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	$13168 \cdot T_s$			-	-	-

Table 9: 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

According to Figure 1, one radio frame is configured by 10 subframes, which consist of Uplink-subframe, Downlink-subframe and Special subframe. For TDD-LTE, the Duty Cycle should be calculated on Uplink-subframes and Special subframes, due to Special subframe containing both Uplink transmissions. So for one radio frame, Duty Cycle can be calculated with formula as below. The count of Uplink subframes are according to Table: Uplink-downlink configurations:

$$\text{Duty cycle} = (30720T_s \cdot \text{Ups} + \text{Uplink Component} \cdot \text{Specials}) / (307200T_s)$$

About the uplink component of Special subframes, we can figure out by Table: Configuration of special subframe (lengths of DwPTS/GP/UpPTS):

$$\text{Uplink Component} = \text{UpPTS}$$

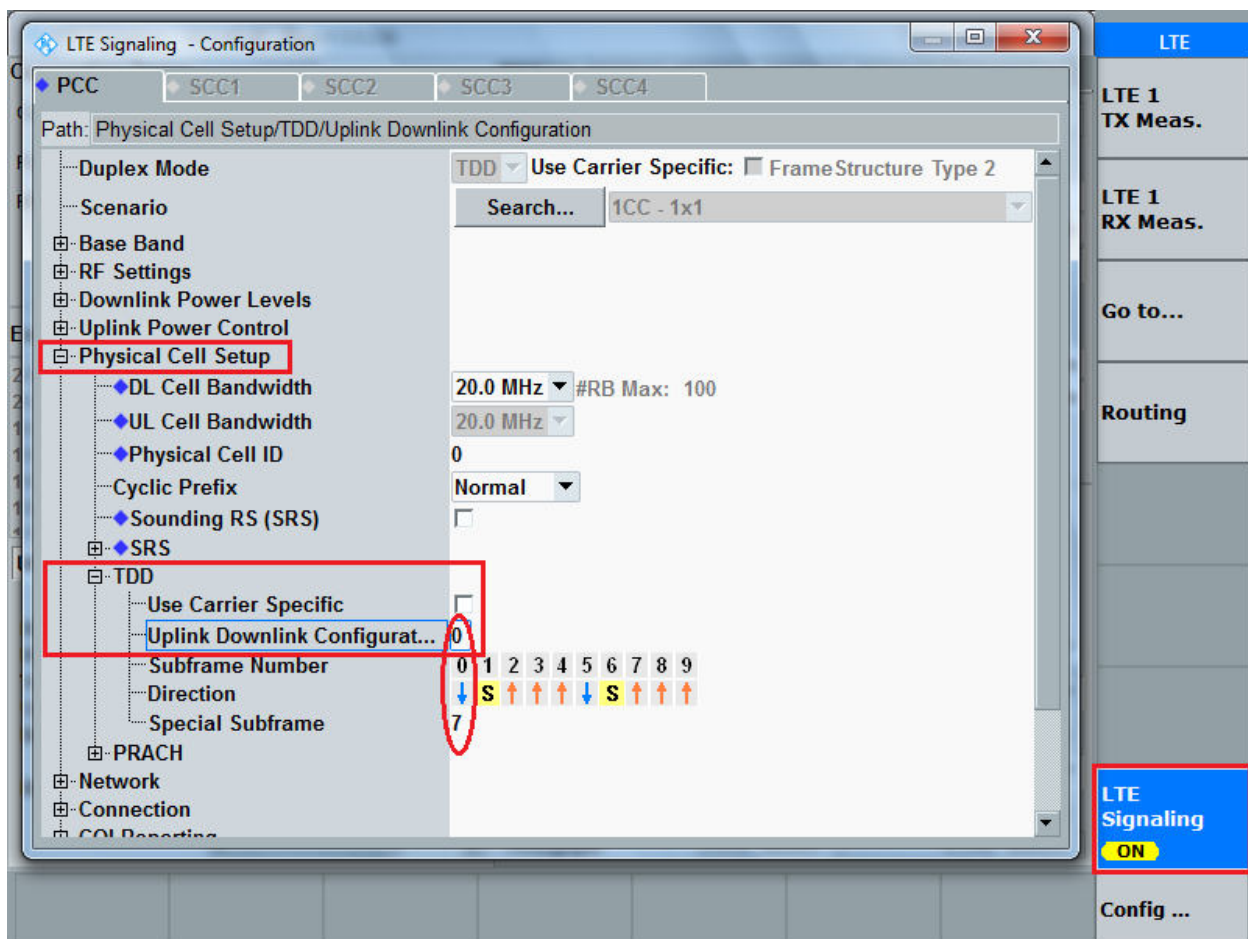
In conclusion, for the TDD LTE Band, Duty Cycle can be calculated with formula as below. All these sets are ok when we test, or we can set as below.

$$\text{Duty cycle} = [(30720\text{Ts} * \text{Ups}) + \text{UpPTS} * \text{Specials}] / (30720\text{Ts})$$

And we can get different Duty cycles under different configurations:

Uplink-downlink configuration	Subframe number			Configuration of special subframe							
				Normal cyclic prefix in downlink				Extended cyclic prefix in downlink			
				Normal cyclic prefix in uplink		Extended cyclic prefix in uplink		Normal cyclic prefix in uplink		Extended cyclic prefix in uplink	
	D	S	U	configuration 0~4	configuration 5~9	configuration 0~4	configuration 5~9	configuration 0~3	configuration 4~7	configuration 0~3	configuration 4~7
0	2	2	6	61.43%	62.85%	61.67%	63.33%	61.43%	62.85%	61.67%	63.33%
1	4	2	4	41.43%	42.85%	41.67%	43.33%	41.43%	42.85%	41.67%	43.33%
2	6	2	2	21.43%	22.85%	21.67%	23.33%	21.43%	22.85%	21.67%	23.33%
3	6	1	3	30.71%	31.43%	30.83%	31.67%	30.71%	31.43%	30.83%	31.67%
4	7	1	2	20.71%	21.43%	20.83%	21.67%	20.71%	21.43%	20.83%	21.67%
5	8	1	1	10.71%	11.43%	10.83%	11.67%	10.71%	11.43%	10.83%	11.67%
6	3	2	5	51.43%	52.85%	51.67%	53.33%	51.43%	52.85%	51.67%	53.33%

SAR test Plan: For TDD LTE, SAR should be tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7 for Frame structure type



5.2.5 Wi-Fi Test Configuration

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for

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

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

- ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.
- 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the *initial test position* to measure the subsequent next closet/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the *reported SAR* is ≤ 0.8 W/kg or all required test positions are tested.
 - ✧ For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
 - ✧ When it is unclear, all equivalent conditions must be tested.
- For all positions/configurations tested using the *initial test position* and subsequent test positions, when the *reported SAR* is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the *reported SAR* is ≤ 1.2 W/kg or all required test channels are considered.
 - ✧ The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.

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

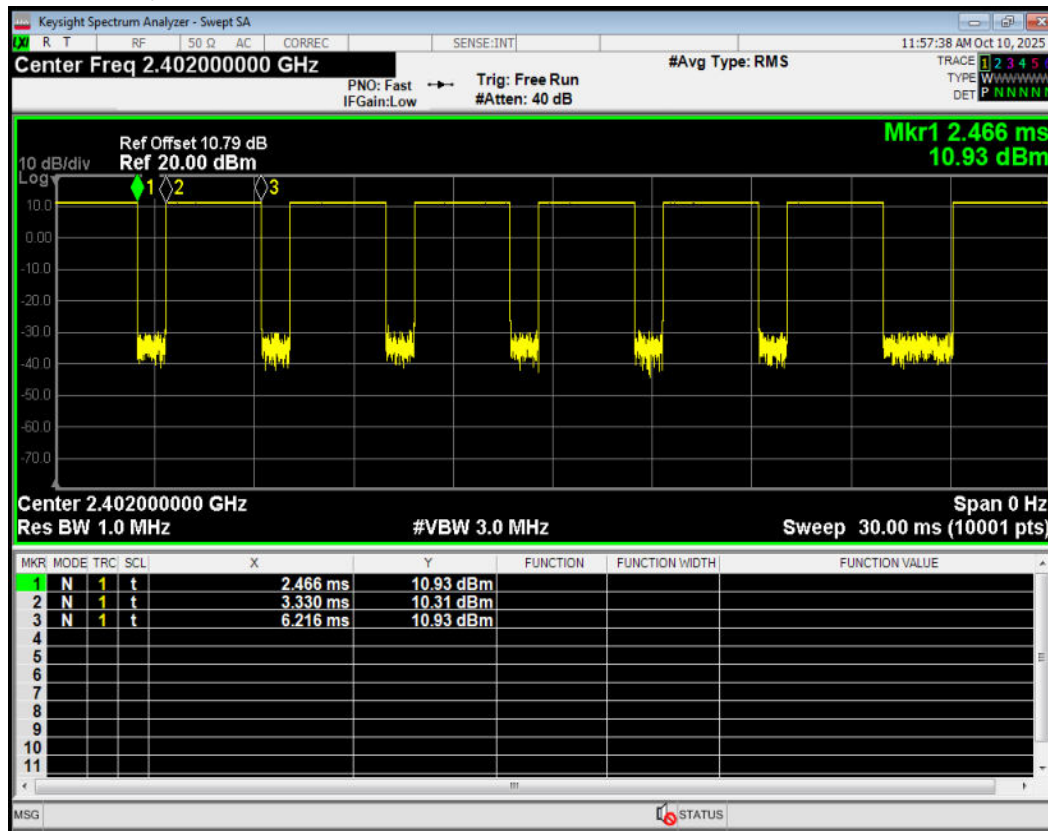
A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

5.2.6 Bluetooth Test Configuration

For Bluetooth SAR testing, Bluetooth engineering testing software installed on the EUT can provide

continuous transmitting RF signal with maximum output power. And the CBT control the EUT operating with hopping off and data rate set for DH5.

The SAR measurement takes full account of the Bluetooth duty cycle and is reflected in the report, and the duty factor of the device is as follow:



Note: Duty factor= 76.96%

5.2.7 Proximity Sensor Power Reduction Description

This device uses a proximity sensor that share the same metallic electrode as the transmitting antenna to facilitate triggering in typical user interactivity with the device. Due to the operating configurations and exposure conditions required by the device, the proximity sensor is used to indicate when the tablet is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes to ensure SAR compliance for the following scenarios: To reduce the output power of main antennas during body operating configurations. It is also set an output power leveled to the lowest one to make sure that in any case of SAR sensor hardware failure the SAR requirements can still be satisfied.

Moving away from phantom:

Main Antenna				
Band	Test Position	Sensor Trigger Distance Range (DUT to Phantom)	Power Reduction Amount(dB)	Power Level
GSM 850	Back Side	0mm≤Distance≤20mm	3	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	3	Sensor on
		20mm<Distance	0	Sensor off

	Left Edge	0mm≤Distance≤20mm	3	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	3	Sensor on
		20mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤20mm	3	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
WCDMA 2	Back Side	0mm≤Distance≤20mm	8	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	8	Sensor on
		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	8	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	8	Sensor on
		20mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤20mm	8	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
WCDMA 4	Back Side	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
WCDMA 5	Back Side	0mm≤Distance≤20mm	5	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	5	Sensor on
		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	5	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	5	Sensor on
		20mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤20mm	5	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B2	Back Side	0mm≤Distance≤20mm	8	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	8	Sensor on

		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	8	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	8	Sensor on
		20mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤20mm	8	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B4	Back Side	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B5	Back Side	0mm≤Distance≤20mm	4	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	4	Sensor on
		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	4	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	4	Sensor on
		20mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤20mm	4	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B7	Back Side	0mm≤Distance≤20mm	10	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	10	Sensor on
		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	10	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	10	Sensor on
		20mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤20mm	10	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B12	Back Side	0mm≤Distance≤20mm	3	Sensor on
		20mm<Distance	0	Sensor off

	Front Side	0mm≤Distance≤20mm	3	Sensor on
		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	3	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	3	Sensor on
		20mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤20mm	3	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B13	Back Side	0mm≤Distance≤20mm	4	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	4	Sensor on
		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	4	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	4	Sensor on
		20mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤20mm	4	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B14	Back Side	0mm≤Distance≤20mm	5	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	5	Sensor on
		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	5	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	5	Sensor on
		20mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤20mm	5	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B17	Back Side	0mm≤Distance≤20mm	3	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	3	Sensor on
		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	3	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	3	Sensor on
		20mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤20mm	3	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B25	Back Side	0mm≤Distance≤20mm	8	Sensor on

		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	8	Sensor on
		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	8	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	8	Sensor on
		20mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤20mm	8	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B26	Back Side	0mm≤Distance≤20mm	4	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	4	Sensor on
		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	4	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	4	Sensor on
		20mm<Distance	0	Sensor off
LTE B30	Back Side	0mm≤Distance≤20mm	9	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	9	Sensor on
		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	9	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	9	Sensor on
		20mm<Distance	0	Sensor off
LTE B38	Back Side	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
LTE B38	Top Edge	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off

LTE B41	Back Side	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
LTE B66	Top Edge	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
	Back Side	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
LTE B71	Left Edge	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤20mm	7	Sensor on
		20mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off

Moving toward phantom:

Main Antenna				
Band	Test Position	Sensor Trigger Distance Range (DUT to Phantom)	Power Reduction Amount(dB)	Power Level
GSM 850	Back Side	0mm≤Distance≤30mm	3	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	3	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	3	Sensor on

		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	3	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	3	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
WCDMA 2	Back Side	0mm≤Distance≤30mm	8	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	8	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	8	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	8	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	8	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
WCDMA 4	Back Side	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
WCDMA 5	Back Side	0mm≤Distance≤30mm	5	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	5	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	5	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	5	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	5	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B2	Back Side	0mm≤Distance≤30mm	8	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	8	Sensor on
		30mm<Distance	0	Sensor off

	Left Edge	0mm≤Distance≤30mm	8	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	8	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	8	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B4	Back Side	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B5	Back Side	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B7	Back Side	0mm≤Distance≤30mm	10	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	10	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	10	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	10	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	10	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B12	Back Side	0mm≤Distance≤30mm	3	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	3	Sensor on

		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	3	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	3	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	3	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B13	Back Side	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B14	Back Side	0mm≤Distance≤30mm	5	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	5	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	5	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	5	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	5	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B17	Back Side	0mm≤Distance≤30mm	3	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	3	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	3	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	3	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	3	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B25	Back Side	0mm≤Distance≤30mm	8	Sensor on
		30mm<Distance	0	Sensor off

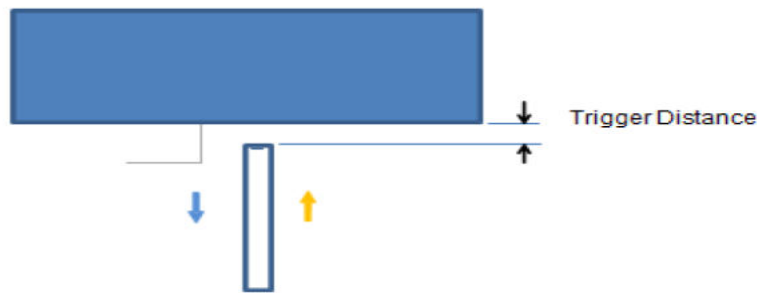
	Front Side	0mm≤Distance≤30mm	8	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	8	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	8	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	8	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B26	Back Side	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B30	Back Side	0mm≤Distance≤30mm	9	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	9	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	9	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	9	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	9	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B38	Back Side	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B41	Back Side	0mm≤Distance≤30mm	7	Sensor on

		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B66	Back Side	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	7	Sensor on
		30mm<Distance	0	Sensor off
LTE B71	Back Side	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤30mm	4	Sensor on
		30mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off

1. Proximity Sensor Coverage, Distance and Angle

1.1) Procedures for determining proximity sensor triggering distances

The proximity sensor triggering distance measurement method are as below:



Picture: Proximity sensor triggering distances assessment (Top/Left/Right Edge)



Picture: Proximity sensor triggering distances assessment (Front/Back side)

Table: Summary of Trigger Distances for MAIN Antenna :

Band	Trigger Distance-Back Side		Trigger Distance-Front Side		Trigger Distance-Left Edge		Trigger Distance-Right Edge		Trigger Distance-Top Edge	
	Moving toward Phantom trigger point (mm)	Moving away from Phantom trigger point (mm)	Moving toward Phantom trigger point (mm)	Moving away from Phantom trigger point (mm)	Moving toward Phantom trigger point (mm)	Moving away from Phantom trigger point (mm)	Moving toward Phantom trigger point (mm)	Moving away from Phantom trigger point (mm)	Moving toward Phantom trigger point (mm)	Moving away from Phantom trigger point (mm)
GSM 850	30	20	30	20	30	20	30	20	30	20
WCDMA 2	30	20	30	20	30	20	30	20	30	20
WCDMA 4	30	20	30	20	30	20	30	20	30	20
WCDMA 5	30	20	30	20	30	20	30	20	30	20
LTE Band 2	30	20	30	20	30	20	30	20	30	20
LTE Band 4	30	20	30	20	30	20	30	20	30	20
LTE Band 5	30	20	30	20	30	20	30	20	30	20
LTE Band 7	30	20	30	20	30	20	30	20	30	20
LTE Band 12	30	20	30	20	30	20	30	20	30	20
LTE Band 13	30	20	30	20	30	20	30	20	30	20
LTE Band 14	30	20	30	20	30	20	30	20	30	20
LTE Band 17	30	20	30	20	30	20	30	20	30	20
LTE Band 25	30	20	30	20	30	20	30	20	30	20
LTE Band 26	30	20	30	20	30	20	30	20	30	20
LTE Band 30	30	20	30	20	30	20	30	20	30	20

Table: Power Reduction Status (Moving toward phantom)

[illegible]

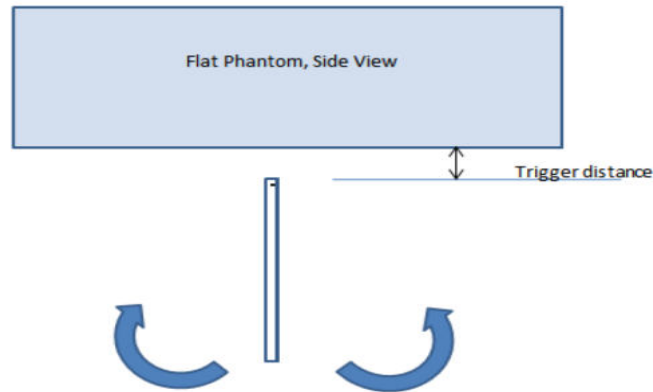
[illegible]

According to the antenna and sensors location figure above, the proximity sensor and main antenna use same metallic electrode, there is no spatial offset, procedures and validation data for determining proximity sensor coverage is not required.

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The EUT was positioned directly below the flat phantom at the minimum measured trigger distance with each applicable edge parallel to the base of the flat phantom for each band.

The EUT was rotated about each applicable edge for angles up to $\pm 45^\circ$. If the output power increased during the rotation the EUT was moved 1mm toward the phantom and the rotation repeated. This procedure was repeated until the power remained reduced for all angles up to $\pm 45^\circ$. The proximity sensor triggering tilt angle measurement method as below:



Proximity sensor coverage assessment

Table: Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering

Band(MHz)	Position	Minimum Trigger Distance at which Power Reduction was Maintained over $\pm 45^\circ$	Power Reduction Status											
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°	
GSM 850	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
WCDMA 2	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
WCDMA 4	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
WCDMA 5	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 2	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 4	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 5	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 7	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 12	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 13	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 14	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 17	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 25	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 26	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 30	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 38	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 41	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 66	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 71	Right Edge	20mm	on	on	on	on	on	on	on	on	on	on	on	

GSM 850	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
WCDMA 2	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
WCDMA 4	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
WCDMA 5	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 2	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 4	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 5	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 7	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 12	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 13	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 14	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 17	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 25	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 26	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 30	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 38	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 41	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 66	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 71	Top Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
GSM 850	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
WCDMA 2	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
WCDMA 4	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
WCDMA 5	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 2	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 4	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 5	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 7	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 12	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 13	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 14	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 17	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 25	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 26	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 30	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 38	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 41	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 66	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 71	Left Edge	20mm	on	on	on	on	on	on	on	on	on	on	on

Conclusion: As is shown from the validation data, it can be ensured that the proximity sensor can be valid triggered for the EUT tilt coverage exposure condition (GSM 850, WCDMA 2/4/5, LTE Band 2/4/5/7/12/13/14/17/25//30/38/41/66/71 with MAIN Antenna)

2. Summary Additional SAR Test Plan for Proximity Sensor Power Reduction

The smallest separation distance determined by the sensor triggering and sensor coverage for normal and tilt positions for all usage conditions, minus 1 mm, must be used as the test separation distance for additional SAR testing with sensor off.

For this device, as proximity sensor power reduction supports multiple power stages, so we plan that the additional SAR should be considered at the conservative distance, minus 1 mm, for each power stage.

Main Antenna		Power Reduction Level Amount (dB)																		
Power Reduction Scenario	Sensor mode	GSM 850	WCDMA 2	WCDMA 4	WCDMA 5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B12	LTE B13	LTE B14	LTE B17	LTE B25	LTE B26	LTE B30	LTE B38	LTE B41	LTE B66	LTE B71
Full power	Full power	34.00	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.00	24.00	24.50	24.50
	Sensor off	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Standalone	Sensor on	3.00	8.00	7.00	5.00	8.00	7.00	4.00	10.00	3.00	4.00	5.00	3.00	8.00	4.00	9.00	7.00	7.00	7.00	4.00

6.2 DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

EX3DV4 Probe Specification

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure Scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.



E-field Probe Calibration

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy was evaluated and found to be better than ± 0.25 dB. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$\text{SAR} = C \Delta T / \Delta t$$

Where: Δt = Exposure time (30 seconds),
 C = Heat capacity of tissue (brain or muscle),
 ΔT = Temperature increase due to RF exposure.

Or

$$\text{SAR} = I E I^2 \sigma / \rho$$

Where: σ = Simulated tissue conductivity,
 ρ = Tissue density (kg/m³).

6.3 SAR Measurement Procedure

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.

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 dB) 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 D01 SAR measurement 100 MHz to 6 GHz.

	≤3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	≤ 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.	

Zoom Scan

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

Zoom scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

			≤3GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{zoom}} \Delta y_{\text{zoom}}$			≤2GHz: ≤8mm 2 – 3GHz: ≤5mm*	3 – 4GHz: ≤5mm* 4 – 6GHz: ≤4mm*
Maximum zoom scan spatial resolution, normal to phantom surface	Uniform grid: $\Delta z_{\text{zoom}}(n)$		≤5mm	3 – 4GHz: ≤4mm 4 – 5GHz: ≤3mm 5 – 6GHz: ≤2mm
	Graded grid	$\Delta z_{\text{zoom}}(1)$: between 1 st two points closest to phantom surface	≤4mm	3 – 4GHz: ≤3mm 4 – 5GHz: ≤2.5mm 5 – 6GHz: ≤2mm
		$\Delta z_{\text{zoom}}(n > 1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{zoom}}(n-1)$	
Minimum zoom scan volume	X, y, z		≥30mm	3 – 4GHz: ≥28mm 4 – 5GHz: ≥25mm 5 – 6GHz: ≥22mm
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 <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4\text{W/kg}$, $\leq 8\text{mm}$, $\leq 7\text{mm}$ and $\leq 5\text{mm}$ zoom scan resolution may be applied, respectively, for 2GHz to 3GHz, 3GHz to 4GHz and 4GHz to 6GHz.				

Volume Scan Procedures

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

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.

7 Main Test Equipment

Name of Equipment	Manufacturer	Type/Model	Serial Number	Software Version	Last Cal.	Cal. Due Date
Network Analyzer	Agilent	E5071B	MY42404014	/	2025-01-06	2026-01-05
Dielectric Probe Kit	SPEAG	DAK-3.5	1332	/	2025-06-15	2027-06-14
Power Meter	Agilent	E4417A	GB41291714	/	2025-05-06	2026-05-05
Power Sensor	Agilent	N8481H	MY50350004	/	2025-05-06	2026-05-05
Power Sensor	Agilent	E9327A	US40441622	/	2025-05-06	2026-05-05
Signal Generator	KEYSIGHT	N5182B-X07	MY51350303	/	2024-12-02	2025-12-01
Dual Directional Coupler	UCL	UCL-DDC056G-S	20010600118	/	/	/
Amplifier	R&S	SCU18F	101022	/	2025-05-06	2026-05-05
Wireless Communication Tester	Anritsu	MT8820C	6201342015	/	2025-05-06	2026-05-05
Wireless Communication Tester	R&S	CMW 500	146734	/	2025-05-06	2026-05-05
E-field Probe	SPEAG	EX3DV4	3677	/	2025-05-28	2026-05-27
DAE	SPEAG	DAE4	1692	/	2024-12-03	2025-12-02
Validation Kit 750MHz	SPEAG	D750V3	1045	/	2023-09-12	2026-09-11
Validation Kit 835MHz	SPEAG	D835V2	4d020	/	2023-09-15	2026-09-14
Validation Kit 1750MHz	SPEAG	D1750V2	1033	/	2023-03-23	2026-03-22
Validation Kit 1900MHz	SPEAG	D1900V2	5d060	/	2023-09-12	2026-09-11
Validation Kit 2300MHz	SPEAG	D2300V2	1131	/	2025-08-28	2028-08-27
Validation Kit 2450MHz	SPEAG	D2450V2	786	/	2023-09-12	2026-09-11
Validation Kit 2600MHz	SPEAG	D2600V2	1025	/	2024-05-08	2027-05-07
Validation Kit 5GHz	SPEAG	D5GHzV2	1203	/	2022-12-09	2025-12-08
Tissue test software	SPEAG	/	/	3.0.4.1	/	/
Temperature Probe	Auden	DTM3000	3905	/	2024-12-03	2025-12-02
Twin SAM Phantom	SPEAG	SAM2	1666	/	/	/
Hygrothermograph	Anymetr	HTC - 1	TA2025A041	/	2025-05-06	2026-05-05
Test System	SPEAG	TX90 XLspeag	F11/5H7CA1/ A/01	52.10.4.15 27	/	/

8 Tissue Dielectric Parameter Measurements & System Check

8.1 Tissue Verification

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 24 hours of use; or earlier if the dielectric parameters can become out of tolerance.

Target values

Frequency (MHz)	ϵ_r	$\sigma(\text{s/m})$
750	42.0	0.90
835	41.5	0.90
1750	40.1	1.37
1900	40.0	1.40
2300	39.5	1.67
2450	39.2	1.80
2600	39.0	1.96
5250	35.9	4.71
5600	35.5	5.07
5750	35.4	5.22

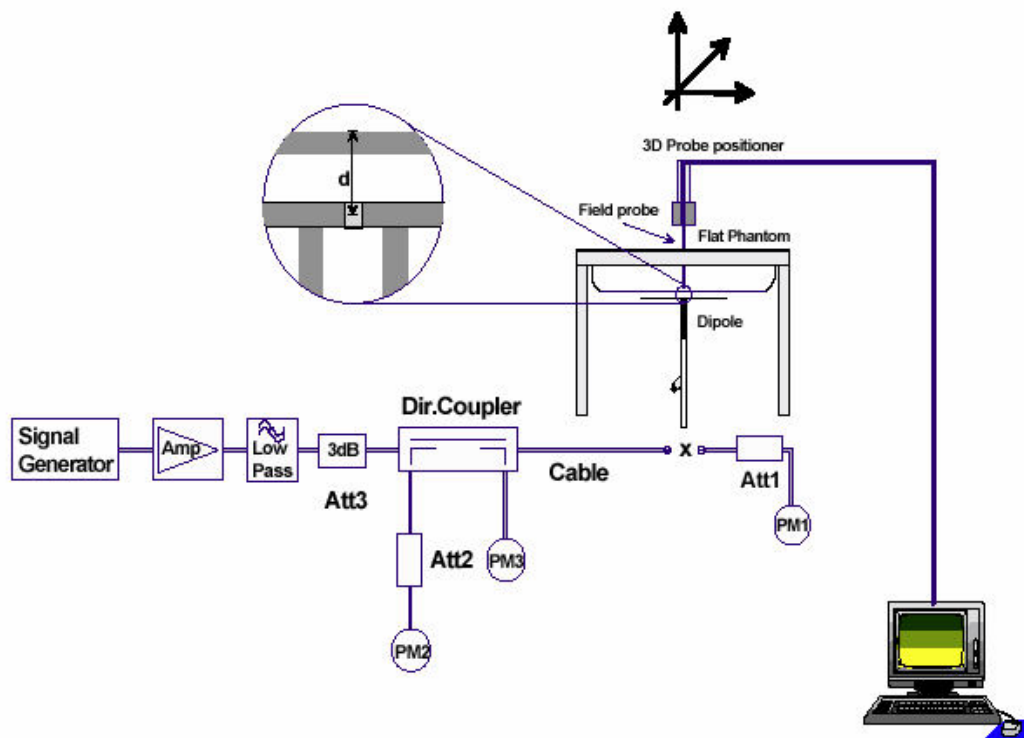
Measurements results

Frequency (MHz)	Test Date	Temp ℃	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within ±5%)	
			ϵ_r	σ (s/m)	ϵ_r	σ (s/m)	Dev ϵ_r (%)	Dev σ (%)
750	9/20/2025	21.5	42.81	0.89	42.0	0.90	1.93	-1.22
835	9/19/2025	21.5	42.40	0.94	41.5	0.90	2.16	4.67
1750	9/23/2025	21.5	38.98	1.34	40.1	1.37	-2.80	-2.34
1900	9/22/2025	21.5	38.75	1.41	40.0	1.40	-3.13	0.64
2300	9/25/2025	21.5	39.10	1.62	39.5	1.67	-1.01	-3.17
2450	9/26/2025	21.5	38.59	1.78	39.2	1.80	-1.55	-1.00
2600	9/24/2025	21.5	38.03	1.95	39.0	1.96	-2.49	-0.36
5250	9/26/2025	21.5	35.29	4.79	35.9	4.71	-1.69	1.72
5600	9/26/2025	21.5	34.53	5.18	35.5	5.07	-2.73	2.15
5750	9/26/2025	21.5	34.21	5.35	35.4	5.22	-3.37	2.41
Note: The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm.								

8.2 System Check

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulates were measured using the dielectric probe kit and the network analyzer. A system check measurement for every day was made following the determination of the dielectric parameters of the Tissue simulates, using the dipole validation kit. The dipole antenna was placed under the flat section of the twin SAM phantom.

System check is performed regularly on all frequency bands where tests are performed with the DASY system.



Picture 1 System Check setup



Picture 2 Setup Photo

Justification for Extended SAR Dipole Calibrations

Usage of SAR dipoles calibrated less than 3 years ago but more than 1 year ago were confirmed in maintaining return loss (> 20 dB, within 20% of prior calibration) and impedance (within 5 ohm from prior calibration) requirements per extended calibrations in KDB 865664 D01:

Dipole		Date of Measurement	Return Loss (dB)	Δ %	Impedance (Ω)			
					Real	$\Delta\Omega$	Imaginary	$\Delta\Omega$
Dipole D750V3 SN: 1045	Head	9/12/2023	30.4	/	51.9	/	-2.47	/
	Liquid	9/11/2024	30.12	-0.9	52.3	0.4	-2.46	0.01
Dipole D835V2 SN: 4d020	Head	9/15/2023	28.3	/	50.6	/	-3.80	/
	Liquid	9/14/2024	28.9	2.1	51.4	0.8	-3.66	0.14
Dipole D1750V2 SN: 1033	Head Liquid	3/23/2023	36.2	/	51.2	/	-0.98	/
		3/22/2024	35.4	-2.2	51.6	0.4	-1.28	-0.3
		3/21/2025	36.7	3.7	49.8	-1.8	-0.72	0.56
Dipole D1900V2 SN: 5d060	Head	9/12/2023	24.0	/	50.5	/	6.32	/
	Liquid	9/11/2024	24.1	0.4	50.9	0.4	6.83	0.51
Dipole D2450V2 SN: 786	Head	9/12/2023	28.2	/	52.2	/	3.34	/
	Liquid	9/11/2024	28.6	1.4	52.8	0.6	3.43	0.09
Dipole D2600V2 SN: 1025	Head	5/08/2024	24.2	/	49.0	/	-6.02	/
	Liquid	5/07/2025	24.6	1.7	50.1	1.1	-5.92	0.1
Dipole D5GHzV2 (5250 MHz) SN: 1203	Head Liquid	12/9/2022	29.0	/	48.5	/	-3.20	/
		12/8/2023	28.4	-2.1	48.4	-0.1	-3.4	-0.2
		12/7/2024	28.6	0.7	49.3	0.9	-3.37	0.03
Dipole D5GHzV2 (5600 MHz) SN: 1203	Head Liquid	12/9/2022	30.4	/	51.7	/	2.60	/
		12/8/2023	30.5	0.3	51.5	-0.2	2.4	-0.2
		12/7/2024	30.8	1.0	51.9	0.4	2.85	0.45
Dipole D5GHzV2 (5750 MHz) SN: 1203	Head Liquid	12/9/2022	25.3	/	53.6	/	4.30	/
		12/8/2023	25.7	1.6	53.1	-0.5	4.7	0.4
		12/7/2024	26.1	1.6	54.5	1.4	4.62	-0.08

System Check Results

Frequency (MHz)	Test Date	Temp ℃	178mW Measured SAR _{1g} (W/kg)	250mW Measured SAR _{1g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
750	9/20/2025	21.5	/	2.04	8.16	8.47	-3.66	1
835	9/19/2025	21.5	/	2.43	9.72	9.75	-0.31	2
1750	9/23/2025	21.5	/	8.96	35.84	36.80	-2.61	3
1900	9/22/2025	21.5	/	9.55	38.20	40.40	-5.45	4
2300	9/25/2025	21.5	8.63	/	48.53	49.20	-1.36	5
2450	9/26/2025	21.5	9.14	/	51.40	52.60	-2.29	6
2600	9/24/2025	21.5	9.62	/	54.10	55.80	-3.05	7
Frequency (MHz)	Test Date	Temp ℃	100mW Measured SAR _{1g} (W/kg)		1W Normalized SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
5250	9/26/2025	21.5	7.46		74.60	77.70	-3.99	8
5600	9/26/2025	21.5	7.94		79.40	80.30	-1.12	9
5750	9/26/2025	21.5	7.72		77.20	76.80	0.52	10
Note: Target Values used derive from the calibration certificate data storage and evaluation.								

8.3 SAR System Validation

Per FCC KDB 865664 D02v01, SAR system verification is required to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles are used with the required tissue-equivalent media for system validation, according to the procedures outlined in FCC KDB 865664 D01 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point must be validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status, measurement frequencies, SAR probes, calibrated signal type(s) and tissue dielectric parameters has been included.

Frequency [MHz]	Date	Probe SN	Probe Type	Probe Cal Point		PERM (Er)	COND (Σ)	CW Validation		
								Sensitivity	Probe Linearity	Probe Isotropy
750	2025/05/28	3677	EX3DV4	750	Head	41.9	0.89	PASS	PASS	PASS
835	2025/05/28	3677	EX3DV4	835	Head	41.5	0.90	PASS	PASS	PASS
1750	2025/05/28	3677	EX3DV4	1750	Head	40.1	1.37	PASS	PASS	PASS
1900	2025/05/28	3677	EX3DV4	1900	Head	40.0	1.40	PASS	PASS	PASS
2300	2025/05/28	3677	EX3DV4	2300	Head	39.5	1.67	PASS	PASS	PASS
2450	2025/05/28	3677	EX3DV4	2450	Head	39.2	1.80	PASS	PASS	PASS
2600	2025/05/28	3677	EX3DV4	2600	Head	39.0	1.96	PASS	PASS	PASS
5250	2025/05/28	3677	EX3DV4	5250	Head	35.9	4.71	PASS	PASS	PASS
5600	2025/05/28	3677	EX3DV4	5600	Head	35.5	5.07	PASS	PASS	PASS
5750	2025/05/28	3677	EX3DV4	5750	Head	35.4	5.22	PASS	PASS	PASS

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664D01v01 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5dB), such as OFDM according to KDB 865664.

9 Normal and Maximum Output Power

KDB 447498 D01 at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

9.1 GSM Mode

Main- Antenna

GSM 850 Sensor off		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GPRS/ EGPRS (GMSK)	1 Tx Slot	34.00	32.38	32.21	32.03	9.03	24.97	23.35	23.18	23.00
	2 Tx Slots	33.00	31.46	31.17	31.34	6.02	26.98	25.44	25.15	25.32
	3 Tx Slots	31.00	30.14	29.97	29.98	4.26	26.74	25.88	25.71	25.72
	4 Tx Slots	29.00	27.89	27.74	27.65	3.01	25.99	24.88	24.73	24.64
EGPRS (8PSK)	1 Tx Slot	27.50	26.17	26.17	26.04	9.03	18.47	17.14	17.14	17.01
	2 Tx Slots	27.50	25.98	26.04	25.80	6.02	21.48	19.96	20.02	19.78
	3 Tx Slots	27.50	25.79	25.87	25.61	4.26	23.24	21.53	21.61	21.35
	4 Tx Slots	27.00	25.67	25.71	25.43	3.01	23.99	22.66	22.70	22.42
GSM 850 Sensor on		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Tune-up		
		MAX	128 /824.2	190 /836.6	124 /914.8		MAX	128 /824.2	190 /836.6	38 /897.6
GPRS/ EGPRS (GMSK)	1 Tx Slot	31.00	30.13	30.00	29.96	9.03	21.97	21.10	20.97	20.93
	2 Tx Slots	30.50	29.15	28.81	29.17	6.02	24.48	23.13	22.79	23.15
	3 Tx Slots	28.50	27.95	27.77	27.85	4.26	24.24	23.69	23.51	23.59
	4 Tx Slots	26.50	25.56	25.36	25.32	3.01	23.49	22.55	22.35	22.31
EGPRS (8PSK)	1 Tx Slot	27.50	26.15	26.34	26.08	9.03	18.47	17.12	17.31	17.05
	2 Tx Slots	27.50	26.02	26.26	25.80	6.02	21.48	20.00	20.24	19.78
	3 Tx Slots	27.50	25.85	25.78	25.81	4.26	23.24	21.59	21.52	21.55
	4 Tx Slots	27.00	25.59	25.82	25.51	3.01	23.99	22.58	22.81	22.50

Notes: The worst-case configuration and mode for SAR testing is determined to be as follows:

Standalone: GSM 850 GMSK (GPRS) mode with 2 time slots for Max power, based on the output power measurements above.

9.2 WCDMA Mode

The following tests were completed according to the test requirements outlined in the 3GPP TS34.121 specification.

Main- Antenna

WCDMA Sensor off		Band II(dBm)				Band IV(dBm)				Band V(dBm)			
Tx Channel		9262	9400	9538	Tune-up	1312	1413	1513	Tune-up	4132	4183	4233	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1712.4	1732.6	1752.6	Limit	826.4	836.6	846.6	Limit
RMC	12.2kbps	23.13	23.01	22.88	24.50	23.28	23.17	23.22	24.50	23.08	22.99	23.03	24.50
HSDPA	Sub 1	22.45	22.50	22.51	24.00	22.70	22.84	22.77	24.00	22.68	22.73	22.88	24.00
	Sub 2	22.44	22.52	22.48	24.00	22.69	22.86	22.74	24.00	22.67	22.75	22.85	24.00
	Sub 3	21.91	22.02	22.00	23.50	22.16	22.36	22.26	23.50	22.14	22.25	22.37	23.50
	Sub 4	21.92	22.03	21.98	23.50	22.17	22.37	22.24	23.50	22.15	22.26	22.35	23.50
HSUPA	Sub 1	22.41	22.49	22.46	24.00	22.66	22.83	22.72	24.00	22.64	22.72	22.83	24.00
	Sub 2	21.40	21.47	21.45	23.00	21.65	21.81	21.71	23.00	21.63	21.70	21.82	23.00
	Sub 3	21.87	21.95	21.94	23.50	22.12	22.29	22.20	23.50	22.10	22.18	22.31	23.50
	Sub 4	21.33	21.44	21.42	23.00	21.58	21.78	21.68	23.00	21.56	21.67	21.79	23.00
	Sub 5	22.34	22.42	22.40	24.00	22.59	22.76	22.66	24.00	22.57	22.65	22.77	24.00
DC-HSDPA	Sub 1	22.33	22.44	22.41	24.00	22.58	22.78	22.67	24.00	22.56	22.67	22.78	24.00
	Sub 2	22.32	22.43	22.40	24.00	22.57	22.77	22.66	24.00	22.55	22.66	22.77	24.00
	Sub 3	21.90	21.92	21.91	23.50	22.15	22.26	22.17	23.50	22.13	22.15	22.28	23.50
	Sub 4	21.89	21.91	21.90	23.50	22.14	22.25	22.16	23.50	22.12	22.14	22.27	23.50

Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

WCDMA Sensor on		Band II(dBm)				Band IV(dBm)				Band V(dBm)			
Tx Channel		9262	9400	9538	Tune-up	1312	1413	1513	Tune-up	4132	4183	4233	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1712.4	1732.6	1752.6	Limit	826.4	836.6	846.6	Limit
RMC	12.2kbps	15.45	15.15	15.28	16.50	15.92	16.29	16.16	17.50	18.39	18.18	18.24	19.50
HSDPA	Sub 1	15.01	14.51	14.90	16.00	15.36	15.65	15.80	17.00	17.91	17.80	17.90	19.00
	Sub 2	14.83	14.81	14.78	16.00	15.54	15.69	15.56	17.00	17.99	17.64	17.72	19.00
	Sub 3	14.43	14.23	14.44	15.50	14.82	15.29	15.02	16.50	17.39	17.04	17.08	18.50
	Sub 4	14.57	14.19	14.32	15.50	15.06	15.13	15.14	16.50	17.41	17.14	17.18	18.50
HSUPA	Sub 1	15.11	14.73	14.90	16.00	15.44	15.81	15.62	17.00	17.75	17.80	17.60	19.00
	Sub 2	14.11	13.67	13.72	15.00	14.40	14.83	14.58	16.00	17.03	16.78	16.70	18.00
	Sub 3	14.59	14.27	14.20	15.50	14.84	15.39	15.12	16.50	17.27	17.12	17.24	18.50
	Sub 4	14.11	13.77	13.86	15.00	14.52	14.89	14.72	16.00	16.77	16.62	16.84	18.00
	Sub 5	14.99	14.63	14.62	16.00	15.44	15.69	15.68	17.00	17.81	17.82	17.70	19.00
DC-HSDPA	Sub 1	14.81	14.53	14.84	16.00	15.48	15.93	15.80	17.00	17.73	17.54	17.68	19.00
	Sub 2	14.89	14.53	14.92	16.00	15.54	15.69	15.66	17.00	17.85	17.80	17.60	19.00
	Sub 3	14.47	14.21	14.18	15.50	15.06	15.43	15.04	16.50	17.55	17.14	17.34	18.50
	Sub 4	14.45	14.03	14.32	15.50	14.92	15.21	15.16	16.50	17.37	17.10	17.26	18.50
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".													

9.3 LTE Mode

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

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

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

Main- Antenna

LTE B2							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	23.12	23.14	22.93	24.50
		1	2	23.33	23.98	23.42	24.50
		1	5	22.88	23.34	23.19	24.50
		3	0	23.30	23.24	22.92	24.50
		3	2	23.15	23.25	22.99	24.50
		3	3	23.11	23.02	23.12	24.50
		6	0	22.07	22.03	22.19	23.50
	16QAM	1	0	21.84	21.98	21.84	23.50
		1	2	22.04	22.27	22.40	23.50
		1	5	21.90	21.72	21.94	23.50
		3	0	22.39	22.27	22.00	23.50
		3	2	22.24	22.03	21.83	23.50
		3	3	21.58	21.89	21.80	23.50
		6	0	20.86	21.24	21.21	22.50
	64QAM	1	0	21.33	21.49	21.22	22.50
		1	2	21.83	21.83	21.47	22.50
		1	5	21.05	21.03	20.89	22.50
		3	0	21.48	21.21	21.00	22.50
		3	2	20.87	21.30	20.98	22.50
		3	3	20.93	20.85	20.87	22.50
		6	0	20.26	20.12	20.16	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	

3MHz	QPSK	1	0	23.08	23.42	23.13	24.50
		1	7	23.37	23.66	23.54	24.50
		1	14	22.94	23.20	23.03	24.50
		8	0	22.24	22.42	22.20	23.50
		8	4	22.09	22.09	22.09	23.50
		8	7	22.15	22.24	22.10	23.50
		15	0	22.03	22.33	22.17	23.50
	16QAM	1	0	21.98	22.12	21.92	23.50
		1	7	22.12	22.09	22.22	23.50
		1	14	21.66	21.68	21.72	23.50
		8	0	21.21	21.35	21.20	22.50
		8	4	21.30	21.31	21.23	22.50
		8	7	21.02	21.05	21.00	22.50
		15	0	21.16	21.20	21.17	22.50
	64QAM	1	0	21.09	21.23	21.18	22.50
		1	7	21.77	21.81	21.51	22.50
		1	14	21.09	21.11	21.03	22.50
		8	0	20.52	20.33	20.16	21.50
		8	4	20.13	20.38	20.24	21.50
		8	7	20.09	20.03	20.31	21.50
		15	0	20.16	20.16	20.10	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	22.80	23.14	22.89	24.50
		1	13	23.35	23.82	23.44	24.50
		1	24	22.70	23.00	22.93	24.50
		12	0	22.20	22.08	22.06	23.50
		12	6	22.21	22.25	22.09	23.50
		12	13	22.11	21.96	22.26	23.50
		25	0	21.99	22.23	22.11	23.50
	16QAM	1	0	21.96	21.88	21.82	23.50
		1	13	22.18	22.01	22.24	23.50
		1	24	21.60	21.52	21.82	23.50
		12	0	21.41	21.07	21.08	22.50
		12	6	21.12	21.03	20.93	22.50
		12	13	20.72	21.19	21.04	22.50
		25	0	21.02	21.12	20.85	22.50
	64QAM	1	0	21.19	21.29	20.96	22.50
		1	13	21.61	21.71	21.51	22.50
		1	24	20.97	20.91	20.95	22.50
		12	0	20.42	20.09	20.14	21.50
		12	6	20.25	20.08	20.14	21.50
		12	13	19.83	19.99	20.23	21.50

		25	0	20.00	20.30	20.02	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	22.82	23.48	22.93	24.50
		1	25	23.53	23.96	23.64	24.50
		1	49	22.90	22.96	22.87	24.50
		25	0	22.44	22.26	22.38	23.50
		25	13	21.99	22.01	21.99	23.50
		25	25	21.89	22.08	22.18	23.50
		50	0	21.97	22.31	22.05	23.50
	16QAM	1	0	22.12	22.10	21.72	23.50
		1	25	22.04	22.03	22.16	23.50
		1	49	21.64	21.78	21.86	23.50
		25	0	21.15	21.31	21.12	22.50
		25	13	21.38	21.03	21.13	22.50
		25	25	20.80	21.23	21.26	22.50
		50	0	21.06	21.08	21.01	22.50
	64QAM	1	0	20.97	21.43	21.10	22.50
		1	25	21.73	21.85	21.65	22.50
		1	49	21.13	20.91	21.07	22.50
		25	0	20.26	20.41	20.42	21.50
		25	13	20.03	20.30	20.02	21.50
		25	25	20.11	20.11	20.31	21.50
		50	0	19.98	20.44	19.88	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	22.88	23.18	23.03	24.50
		1	38	23.45	23.90	23.48	24.50
		1	74	22.96	23.04	22.95	24.50
		36	0	22.46	22.16	22.14	23.50
		36	18	22.25	22.25	22.01	23.50
		36	39	22.13	22.10	22.08	23.50
		75	0	22.01	22.07	22.09	23.50
	16QAM	1	0	22.12	22.08	22.02	23.50
		1	38	22.20	22.15	22.20	23.50
		1	74	21.62	21.74	21.76	23.50
		36	0	21.31	21.17	21.20	22.50
		36	18	21.30	21.29	21.03	22.50
		36	39	21.08	21.21	21.08	22.50
		75	0	21.02	21.32	20.99	22.50
	64QAM	1	0	21.21	21.25	20.98	22.50
		1	38	21.59	21.91	21.63	22.50
		1	74	21.17	21.17	20.93	22.50

		36	0	20.30	20.27	20.30	21.50
		36	18	20.07	20.30	20.08	21.50
		36	39	20.07	20.29	20.23	21.50
		75	0	20.12	20.36	19.94	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	22.94	23.26	23.05	24.50
		1	50	23.41	23.74	23.48	24.50
		1	99	22.82	23.10	23.05	24.50
		50	0	22.30	22.26	22.16	23.50
		50	25	22.17	22.19	22.13	23.50
		50	50	22.03	22.10	22.16	23.50
		100	0	22.13	22.17	22.13	23.50
	16QAM	1	0	22.00	21.98	21.88	23.50
		1	50	22.20	22.17	22.16	23.50
		1	99	21.70	21.66	21.78	23.50
		50	0	21.31	21.27	21.06	22.50
		50	25	21.16	21.19	21.11	22.50
		50	50	20.90	21.13	21.06	22.50
		100	0	21.02	21.16	21.01	22.50
	64QAM	1	0	21.09	21.33	21.04	22.50
		1	50	21.69	21.77	21.57	22.50
		1	99	21.03	21.01	21.01	22.50
		50	0	20.40	20.29	20.20	21.50
		50	25	20.15	20.28	20.20	21.50
		50	50	19.97	20.11	20.15	21.50
		100	0	20.06	20.22	20.02	21.50
LTE B2							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	14.63	14.91	14.80	16.50
		1	2	14.47	15.04	14.98	16.50
		1	5	14.65	14.88	14.71	16.50
		3	0	15.18	15.26	15.40	16.50
		3	2	15.15	15.29	14.91	16.50
		3	3	14.87	14.98	15.08	16.50
		6	0	14.45	14.57	14.39	15.50
	16QAM	1	0	14.34	14.26	14.34	15.50
		1	2	14.34	14.37	14.32	15.50
		1	5	14.02	13.94	13.96	15.50
		3	0	13.83	13.59	13.42	15.50
		3	2	13.80	13.73	13.61	15.50

		3	3	13.32	13.85	13.32	15.50
		6	0	12.62	12.90	12.67	14.50
	64QAM	1	0	12.63	12.75	12.94	14.50
		1	2	13.31	13.55	13.37	14.50
		1	5	12.67	12.75	12.45	14.50
		3	0	12.66	12.71	12.48	14.50
		3	2	12.79	12.88	12.86	14.50
		3	3	12.33	12.37	12.81	14.50
		6	0	11.58	11.52	11.48	13.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	14.43	14.75	14.38	16.50
		1	7	14.57	14.96	15.08	16.50
		1	14	14.49	14.54	14.55	16.50
		8	0	14.52	14.64	14.32	15.50
		8	4	14.21	14.51	14.45	15.50
		8	7	14.03	14.24	14.28	15.50
		15	0	14.25	14.39	14.15	15.50
	16QAM	1	0	14.10	14.10	14.32	15.50
		1	7	14.32	14.51	14.46	15.50
		1	14	14.14	14.04	14.08	15.50
		8	0	12.65	12.63	12.56	14.50
		8	4	12.88	12.95	12.93	14.50
		8	7	12.64	12.59	12.76	14.50
		15	0	12.78	12.76	12.85	14.50
	64QAM	1	0	12.59	12.65	13.02	14.50
		1	7	13.45	13.49	13.07	14.50
		1	14	12.81	12.83	12.51	14.50
		8	0	12.08	12.21	11.68	13.50
		8	4	12.17	11.80	11.88	13.50
		8	7	11.59	11.85	11.65	13.50
		15	0	11.50	11.54	11.54	13.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	14.55	14.71	14.64	16.50
		1	13	14.51	15.08	14.82	16.50
		1	24	14.55	14.74	14.67	16.50
		12	0	14.40	14.42	14.42	15.50
		12	6	14.17	14.51	14.15	15.50
		12	13	14.05	14.14	14.20	15.50
		25	0	14.41	14.45	14.21	15.50
	16QAM	1	0	14.06	14.22	14.20	15.50
		1	13	14.32	14.47	14.50	15.50

		1	24	14.12	13.92	14.00	15.50
		12	0	12.93	12.81	12.66	14.50
		12	6	12.90	13.05	12.71	14.50
		12	13	12.56	12.99	12.74	14.50
		25	0	12.90	12.76	12.65	14.50
	64QAM	1	0	12.51	13.01	12.88	14.50
		1	13	13.25	13.43	13.33	14.50
		1	24	12.57	12.69	12.39	14.50
		12	0	12.00	12.15	11.80	13.50
		12	6	11.89	11.74	11.84	13.50
		12	13	11.73	11.63	11.91	13.50
		25	0	11.62	11.68	11.64	13.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	14.69	14.67	14.78	16.50
		1	25	14.73	14.88	14.82	16.50
		1	49	14.77	14.50	14.75	16.50
		25	0	14.60	14.46	14.64	15.50
		25	13	14.09	14.37	14.13	15.50
		25	25	14.11	14.40	14.22	15.50
		50	0	14.53	14.57	14.09	15.50
	16QAM	1	0	14.18	14.16	14.42	15.50
		1	25	14.26	14.19	14.48	15.50
		1	49	14.18	13.80	13.90	15.50
		25	0	12.71	12.85	12.66	14.50
		25	13	12.68	13.01	12.93	14.50
		25	25	12.54	12.67	12.60	14.50
		50	0	12.74	12.80	12.61	14.50
	64QAM	1	0	12.75	12.85	12.58	14.50
		1	25	13.13	13.43	13.19	14.50
		1	49	12.69	12.63	12.51	14.50
		25	0	12.04	12.11	11.78	13.50
		25	13	11.85	11.96	11.92	13.50
		25	25	11.79	11.73	11.61	13.50
		50	0	11.74	11.66	11.52	13.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	14.73	14.67	14.56	16.50
		1	38	14.71	15.12	14.76	16.50
		1	74	14.57	14.70	14.69	16.50
		36	0	14.62	14.58	14.44	15.50
		36	18	14.17	14.65	14.27	15.50
		36	39	14.15	14.22	14.40	15.50

		75	0	14.49	14.51	14.33	15.50
	16QAM	1	0	14.26	14.08	14.34	15.50
		1	38	14.44	14.23	14.60	15.50
		1	74	13.94	14.10	13.98	15.50
		36	0	12.77	12.91	12.78	14.50
		36	18	12.88	13.03	12.91	14.50
		36	39	12.60	12.81	12.60	14.50
		75	0	12.78	12.76	12.55	14.50
	64QAM	1	0	12.61	12.95	12.74	14.50
		1	38	13.23	13.39	13.27	14.50
		1	74	12.67	12.67	12.51	14.50
		36	0	11.96	11.97	11.84	13.50
		36	18	11.91	11.94	11.90	13.50
		36	39	11.65	11.59	11.83	13.50
		75	0	11.54	11.82	11.50	13.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	14.55	14.71	14.62	16.50
		1	50	14.59	14.94	14.80	16.50
		1	99	14.55	14.64	14.63	16.50
		50	0	14.50	14.44	14.44	15.50
		50	25	14.23	14.49	14.19	15.50
		50	50	14.13	14.18	14.30	15.50
		100	0	14.45	14.45	14.19	15.50
	16QAM	1	0	14.16	14.14	14.20	15.50
		1	50	14.30	14.33	14.46	15.50
		1	99	14.02	13.92	14.08	15.50
		50	0	12.87	12.79	12.66	14.50
		50	25	12.74	12.89	12.77	14.50
		50	50	12.50	12.83	12.62	14.50
		100	0	12.76	12.82	12.59	14.50
	64QAM	1	0	12.53	12.85	12.72	14.50
		1	50	13.31	13.43	13.25	14.50
		1	99	12.67	12.63	12.49	14.50
		50	0	11.96	12.01	11.74	13.50
		50	25	11.89	11.82	11.88	13.50
		50	50	11.57	11.63	11.75	13.50
		100	0	11.56	11.66	11.54	13.50
LTE B4							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	23.07	23.37	23.69	24.50

		1	2	24.04	23.67	23.69	24.50
		1	5	23.53	23.19	23.26	24.50
		3	0	23.16	23.59	23.49	24.50
		3	2	23.20	23.18	23.05	24.50
		3	3	23.36	23.15	23.10	24.50
		6	0	22.47	22.42	22.36	23.50
	16QAM	1	0	21.98	22.21	22.28	23.50
		1	2	22.25	22.56	22.57	23.50
		1	5	21.95	21.88	21.61	23.50
		3	0	22.33	22.51	22.61	23.50
		3	2	22.31	22.40	22.04	23.50
		3	3	22.47	22.11	21.93	23.50
		6	0	21.16	21.20	21.36	22.50
	64QAM	1	0	20.93	21.35	21.53	22.50
		1	2	21.69	21.74	21.55	22.50
		1	5	21.13	21.30	21.32	22.50
		3	0	21.21	21.34	21.21	22.50
		3	2	21.43	21.44	21.33	22.50
		3	3	21.46	21.06	20.90	22.50
		6	0	20.17	20.25	20.10	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	23.37	23.51	23.65	24.50
		1	7	23.78	23.49	23.77	24.50
		1	14	23.33	23.29	23.56	24.50
		8	0	22.32	22.51	22.47	23.50
		8	4	22.48	22.46	22.21	23.50
		8	7	22.38	22.27	22.06	23.50
		15	0	22.27	22.50	22.26	23.50
	16QAM	1	0	21.98	22.27	22.52	23.50
		1	7	22.07	22.44	22.43	23.50
		1	14	22.09	21.84	21.75	23.50
		8	0	21.33	21.45	21.45	22.50
		8	4	21.31	21.66	21.48	22.50
		8	7	21.47	21.27	21.17	22.50
		15	0	21.36	21.10	21.06	22.50
	64QAM	1	0	21.19	21.47	21.27	22.50
		1	7	21.97	21.88	21.53	22.50
		1	14	21.13	21.16	21.54	22.50
		8	0	20.39	20.38	20.23	21.50
		8	4	20.55	20.62	20.29	21.50
		8	7	20.36	20.04	20.06	21.50
		15	0	20.25	20.13	20.18	21.50

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	23.17	23.39	23.65	24.50
		1	13	23.78	23.79	23.73	24.50
		1	24	23.29	22.97	23.28	24.50
		12	0	22.22	22.51	22.51	23.50
		12	6	22.22	22.46	22.21	23.50
		12	13	22.34	22.29	22.14	23.50
		25	0	22.27	22.22	22.24	23.50
	16QAM	1	0	22.16	21.99	22.16	23.50
		1	13	22.31	22.56	22.43	23.50
		1	24	21.93	21.74	21.65	23.50
		12	0	21.41	21.27	21.51	22.50
		12	6	21.27	21.46	21.28	22.50
		12	13	21.31	21.19	21.23	22.50
		25	0	21.36	21.32	21.10	22.50
	64QAM	1	0	21.15	21.41	21.43	22.50
		1	13	21.83	21.96	21.63	22.50
		1	24	21.29	21.10	21.26	22.50
		12	0	20.35	20.40	20.49	21.50
		12	6	20.25	20.60	20.35	21.50
		12	13	20.36	20.26	20.18	21.50
		25	0	20.37	20.17	20.20	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	23.29	23.29	23.31	24.50
		1	25	23.66	23.65	23.55	24.50
		1	49	23.23	22.89	23.22	24.50
		25	0	22.42	22.43	22.53	23.50
		25	13	22.34	22.16	22.17	23.50
		25	25	22.32	22.05	22.06	23.50
		50	0	22.15	22.36	22.26	23.50
	16QAM	1	0	22.06	21.93	22.18	23.50
		1	25	22.19	22.44	22.21	23.50
		1	49	21.87	21.86	21.49	23.50
		25	0	21.23	21.29	21.51	22.50
		25	13	21.37	21.22	21.24	22.50
		25	25	21.35	21.15	21.19	22.50
		50	0	21.32	21.02	21.24	22.50
	64QAM	1	0	21.13	21.19	21.35	22.50
		1	25	21.49	21.72	21.73	22.50
		1	49	20.99	20.98	21.40	22.50
		25	0	20.27	20.44	20.41	21.50

		25	13	20.41	20.38	20.21	21.50
		25	25	20.32	20.00	19.98	21.50
		50	0	20.19	20.39	20.08	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	23.33	23.21	23.67	24.50
		1	38	23.76	23.51	23.79	24.50
		1	74	23.13	22.95	23.50	24.50
		36	0	22.44	22.67	22.43	23.50
		36	18	22.24	22.50	22.09	23.50
		36	39	22.46	22.11	22.06	23.50
		75	0	22.43	22.24	22.52	23.50
	16QAM	1	0	22.00	21.99	22.38	23.50
		1	38	22.23	22.34	22.35	23.50
		1	74	21.97	21.88	21.45	23.50
		36	0	21.33	21.33	21.37	22.50
		36	18	21.43	21.20	21.34	22.50
		36	39	21.37	20.95	21.09	22.50
		75	0	21.10	21.10	21.28	22.50
	64QAM	1	0	21.07	21.25	21.63	22.50
		1	38	21.65	22.04	21.65	22.50
		1	74	21.23	20.98	21.30	22.50
		36	0	20.33	20.42	20.45	21.50
		36	18	20.33	20.30	20.33	21.50
		36	39	20.48	19.98	20.14	21.50
		75	0	20.27	20.21	20.18	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	23.21	23.31	23.47	24.50
		1	50	23.82	23.63	23.75	24.50
		1	99	23.31	23.07	23.36	24.50
		50	0	22.34	22.47	22.43	23.50
		50	25	22.26	22.32	22.23	23.50
		50	50	22.32	22.11	22.08	23.50
		100	0	22.31	22.32	22.30	23.50
	16QAM	1	0	22.02	22.01	22.26	23.50
		1	50	22.19	22.42	22.25	23.50
		1	99	21.95	21.76	21.49	23.50
		50	0	21.33	21.39	21.43	22.50
		50	25	21.29	21.36	21.28	22.50
		50	50	21.27	21.11	21.09	22.50
		100	0	21.22	21.16	21.20	22.50
	64QAM	1	0	21.13	21.37	21.41	22.50

		1	50	21.69	21.86	21.67	22.50
		1	99	21.19	21.02	21.34	22.50
		50	0	20.37	20.36	20.41	21.50
		50	25	20.33	20.42	20.17	21.50
		50	50	20.34	20.16	20.04	21.50
		100	0	20.35	20.29	20.28	21.50
LTE B4							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	15.65	15.73	16.01	17.50
		1	2	16.20	15.93	16.11	17.50
		1	5	16.11	15.77	15.82	17.50
		3	0	15.90	15.83	15.79	17.50
		3	2	15.60	15.66	15.75	17.50
		3	3	15.56	15.59	15.82	17.50
		6	0	14.77	14.98	14.53	16.50
	16QAM	1	0	15.14	14.83	14.96	16.50
		1	2	14.71	15.06	14.59	16.50
		1	5	14.99	14.58	14.54	16.50
		3	0	14.75	14.85	14.99	16.50
		3	2	14.61	14.66	14.80	16.50
		3	3	14.83	14.49	14.73	16.50
		6	0	14.18	14.08	13.82	15.50
	64QAM	1	0	13.82	14.08	13.82	15.50
		1	2	13.70	14.03	13.74	15.50
		1	5	13.94	13.97	13.75	15.50
		3	0	13.64	14.01	14.18	15.50
		3	2	13.80	14.11	13.58	15.50
		3	3	13.95	13.95	13.53	15.50
		6	0	13.10	13.00	12.85	14.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	15.63	15.55	15.81	17.50
		1	7	16.10	16.07	15.73	17.50
		1	14	16.07	15.91	15.56	17.50
		8	0	14.68	15.15	14.73	16.50
		8	4	14.52	14.96	14.41	16.50
		8	7	15.00	14.69	15.16	16.50
		15	0	14.77	14.86	14.68	16.50
	16QAM	1	0	15.14	15.07	14.98	16.50
		1	7	14.69	15.38	14.73	16.50
1		14	14.89	14.76	14.56	16.50	

		8	0	14.25	13.71	14.05	15.50
		8	4	14.15	14.30	13.88	15.50
		8	7	13.93	13.47	13.51	15.50
		15	0	14.02	13.56	13.84	15.50
	64QAM	1	0	13.84	14.12	13.76	15.50
		1	7	13.80	14.17	13.74	15.50
		1	14	13.88	13.85	13.79	15.50
		8	0	12.88	13.33	13.44	14.50
		8	4	12.92	13.19	12.52	14.50
		8	7	13.15	12.89	12.63	14.50
		15	0	12.64	13.36	12.83	14.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	15.65	15.57	15.95	17.50
		1	13	16.22	16.05	16.05	17.50
		1	24	15.95	15.69	15.94	17.50
		12	0	14.90	15.27	14.69	16.50
		12	6	14.60	14.88	14.79	16.50
		12	13	14.82	14.77	14.90	16.50
		25	0	14.53	14.82	14.58	16.50
	16QAM	1	0	14.94	14.89	15.12	16.50
		1	13	14.85	15.04	14.83	16.50
		1	24	14.81	14.78	14.70	16.50
		12	0	13.91	13.95	14.21	15.50
		12	6	13.85	14.00	13.76	15.50
		12	13	14.25	13.67	13.79	15.50
		25	0	14.18	13.82	13.90	15.50
	64QAM	1	0	13.76	13.96	13.96	15.50
		1	13	13.88	14.21	13.62	15.50
		1	24	13.98	13.93	13.79	15.50
		12	0	12.84	13.11	13.14	14.50
		12	6	13.22	13.19	12.70	14.50
		12	13	12.93	13.03	12.77	14.50
		25	0	12.80	12.98	12.89	14.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	15.79	15.71	15.97	17.50
		1	25	16.18	16.13	15.99	17.50
		1	49	16.11	16.01	15.78	17.50
		25	0	15.14	15.07	14.69	16.50
		25	13	14.70	15.06	14.77	16.50
		25	25	14.92	14.51	14.84	16.50
		50	0	14.59	14.78	14.58	16.50

	16QAM	1	0	14.92	15.03	15.08	16.50
		1	25	14.61	15.06	14.69	16.50
		1	49	14.73	14.70	14.70	16.50
		25	0	13.87	13.99	14.45	15.50
		25	13	13.83	14.14	13.96	15.50
		25	25	14.21	13.71	13.57	15.50
		50	0	14.16	13.88	14.08	15.50
	64QAM	1	0	13.64	13.92	13.82	15.50
		1	25	14.06	14.07	13.62	15.50
		1	49	13.72	13.83	13.65	15.50
		25	0	12.78	12.93	13.40	14.50
		25	13	13.12	13.25	12.52	14.50
		25	25	12.83	12.81	12.57	14.50
		50	0	12.70	13.00	12.81	14.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	15.69	15.77	15.99	17.50
		1	38	16.32	16.03	16.01	17.50
		1	74	15.93	15.67	15.84	17.50
		36	0	14.86	15.11	14.85	16.50
		36	18	14.74	15.10	14.61	16.50
		36	39	15.02	14.67	15.02	16.50
		75	0	14.53	14.96	14.68	16.50
	16QAM	1	0	15.00	14.99	15.02	16.50
		1	38	14.85	15.22	14.79	16.50
		1	74	14.97	14.78	14.54	16.50
		36	0	13.93	13.79	14.25	15.50
		36	18	13.89	14.08	13.92	15.50
		36	39	13.99	13.73	13.77	15.50
		75	0	14.10	13.90	13.80	15.50
	64QAM	1	0	13.62	13.98	13.96	15.50
		1	38	13.98	13.97	13.58	15.50
		1	74	13.98	13.89	13.67	15.50
		36	0	12.86	13.03	13.34	14.50
		36	18	13.14	13.07	12.58	14.50
		36	39	13.03	12.79	12.53	14.50
		75	0	12.80	13.22	12.79	14.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	15.75	15.65	15.99	17.50
		1	50	16.26	15.99	16.07	17.50
		1	99	15.89	15.79	15.80	17.50
		50	0	14.98	15.13	14.75	16.50

		50	25	14.62	14.94	14.67	16.50
		50	50	14.84	14.63	14.90	16.50
		100	0	14.57	14.78	14.56	16.50
	16QAM	1	0	14.94	14.87	14.96	16.50
		1	50	14.77	15.06	14.75	16.50
		1	99	14.79	14.64	14.60	16.50
		50	0	14.01	13.89	14.31	15.50
		50	25	13.83	13.98	13.82	15.50
		50	50	14.09	13.69	13.65	15.50
		100	0	14.04	13.84	13.88	15.50
	64QAM	1	0	13.64	13.96	13.98	15.50
		1	50	13.84	14.07	13.68	15.50
		1	99	13.84	13.77	13.79	15.50
		50	0	12.84	13.09	13.18	14.50
50		25	13.12	13.13	12.64	14.50	
50		50	12.91	12.91	12.63	14.50	
100		0	12.86	13.06	12.87	14.50	
LTE B5							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	22.99	23.28	23.08	24.50
		1	2	23.32	23.80	23.69	24.50
		1	5	23.20	23.10	23.10	24.50
		3	0	23.11	23.34	23.00	24.50
		3	2	23.10	23.10	23.11	24.50
		3	3	22.78	22.81	22.97	24.50
		6	0	22.01	21.90	22.31	23.50
	16QAM	1	0	22.02	22.36	21.88	23.50
		1	2	22.14	22.83	22.32	23.50
		1	5	21.93	22.29	22.04	23.50
		3	0	22.02	21.71	21.85	23.50
		3	2	21.76	21.84	21.89	23.50
		3	3	21.79	21.78	21.93	23.50
		6	0	21.02	21.12	20.92	22.50
	64QAM	1	0	20.95	20.90	20.83	22.50
		1	2	21.35	21.61	21.40	22.50
		1	5	21.01	21.05	20.87	22.50
		3	0	21.17	21.19	21.24	22.50
		3	2	21.19	21.05	21.06	22.50
		3	3	20.98	20.94	20.63	22.50
		6	0	20.08	20.09	20.17	21.50
Bandwidth	Modulation	RB	Offset	Channel/Frequency(MHz)			Tune-up

		Allocation		20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	23.29	22.88	23.22	24.50
		1	7	23.52	23.60	23.59	24.50
		1	14	23.32	23.38	23.24	24.50
		8	0	22.21	22.22	22.46	23.50
		8	4	21.88	22.18	22.25	23.50
		8	7	22.06	22.25	21.91	23.50
		15	0	22.05	22.14	22.27	23.50
	16QAM	1	0	21.88	22.24	21.88	23.50
		1	7	22.06	22.59	22.44	23.50
		1	14	21.93	22.23	21.92	23.50
		8	0	21.16	20.79	21.39	22.50
		8	4	20.88	21.16	21.09	22.50
		8	7	21.01	20.88	20.83	22.50
		15	0	20.70	20.78	20.68	22.50
	64QAM	1	0	21.03	20.94	20.97	22.50
		1	7	21.53	21.57	21.32	22.50
		1	14	21.05	20.99	20.91	22.50
		8	0	20.31	20.27	20.48	21.50
		8	4	20.39	20.35	20.28	21.50
		8	7	20.12	19.94	19.91	21.50
		15	0	19.96	19.97	20.21	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	23.11	23.22	22.94	24.50
		1	13	23.22	23.90	23.37	24.50
		1	24	23.38	23.40	23.12	24.50
		12	0	22.21	22.38	22.04	23.50
		12	6	22.06	22.02	22.01	23.50
		12	13	21.96	22.01	21.89	23.50
		25	0	22.15	21.96	22.25	23.50
	16QAM	1	0	21.82	22.12	21.84	23.50
		1	13	21.94	22.43	22.30	23.50
		1	24	21.97	22.09	21.78	23.50
		12	0	21.12	20.97	21.13	22.50
		12	6	21.24	21.04	21.05	22.50
		12	13	20.91	20.94	21.09	22.50
		25	0	21.04	21.10	21.14	22.50
	64QAM	1	0	20.81	20.90	20.97	22.50
		1	13	21.33	21.47	21.32	22.50
		1	24	21.13	20.87	20.93	22.50
		12	0	20.03	20.31	20.24	21.50
		12	6	20.27	20.31	20.22	21.50

		12	13	20.12	20.28	19.93	21.50
		25	0	20.06	20.07	20.17	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	22.97	23.14	23.00	24.50
		1	25	23.20	23.72	23.43	24.50
		1	49	23.24	23.24	23.08	24.50
		25	0	22.09	22.24	22.14	23.50
		25	13	22.04	22.14	22.09	23.50
		25	25	22.04	22.05	22.01	23.50
		50	0	22.11	22.02	22.09	23.50
	16QAM	1	0	21.78	22.06	21.88	23.50
		1	25	21.96	22.53	22.24	23.50
		1	49	21.83	21.91	21.82	23.50
		25	0	21.04	21.05	20.99	22.50
		25	13	21.10	21.06	20.99	22.50
		25	25	20.95	20.90	20.99	22.50
		50	0	20.92	20.94	20.96	22.50
	64QAM	1	0	20.87	20.92	20.87	22.50
		1	25	21.43	21.53	21.42	22.50
		1	49	20.99	20.95	20.89	22.50
		25	0	20.15	20.33	20.22	21.50
		25	13	20.15	20.19	20.26	21.50
		25	25	20.08	20.14	19.97	21.50
		50	0	20.10	19.99	20.01	21.50
LTE B5							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	19.08	19.17	19.11	20.50
		1	2	19.15	19.51	19.13	20.50
		1	5	19.40	19.16	19.21	20.50
		3	0	18.88	19.00	18.99	20.50
		3	2	19.09	19.11	19.06	20.50
		3	3	19.11	18.90	18.56	20.50
		6	0	18.40	18.11	18.22	19.50
	16QAM	1	0	17.61	17.78	17.92	19.50
		1	2	17.82	18.45	18.18	19.50
		1	5	17.78	17.53	17.53	19.50
		3	0	18.07	17.88	17.96	19.50
		3	2	18.05	18.05	17.96	19.50
		3	3	17.90	18.01	17.90	19.50
		6	0	17.09	17.07	16.93	18.50

	64QAM	1	0	16.51	16.58	16.49	18.50
		1	2	17.25	16.95	16.90	18.50
		1	5	16.71	16.79	16.55	18.50
		3	0	16.79	16.77	16.90	18.50
		3	2	16.95	16.49	16.70	18.50
		3	3	16.82	16.74	16.57	18.50
		6	0	15.60	15.91	15.77	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	19.02	19.27	18.89	20.50
		1	7	19.15	19.19	19.17	20.50
		1	14	19.32	19.26	19.33	20.50
		8	0	18.14	18.06	18.31	19.50
		8	4	18.37	18.19	18.30	19.50
		8	7	18.03	18.08	17.90	19.50
		15	0	18.24	18.13	18.00	19.50
	16QAM	1	0	17.57	17.64	17.84	19.50
		1	7	17.55	18.23	18.04	19.50
		1	14	17.68	17.51	17.83	19.50
		8	0	16.93	17.04	17.04	18.50
		8	4	17.41	17.35	17.30	18.50
		8	7	16.70	17.09	17.04	18.50
		15	0	17.05	17.15	16.91	18.50
	64QAM	1	0	16.57	16.70	16.51	18.50
		1	7	17.13	16.89	16.96	18.50
		1	14	16.61	16.69	16.59	18.50
		8	0	15.93	16.01	15.70	17.50
		8	4	15.95	15.61	15.78	17.50
		8	7	16.00	15.82	15.89	17.50
		15	0	15.62	15.61	15.67	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	19.16	19.27	19.11	20.50
		1	13	19.15	19.49	19.31	20.50
		1	24	19.28	19.08	19.33	20.50
		12	0	18.14	18.28	18.31	19.50
		12	6	18.27	18.09	18.38	19.50
		12	13	18.23	18.02	17.80	19.50
		25	0	18.52	18.33	18.34	19.50
	16QAM	1	0	17.71	17.68	17.84	19.50
		1	13	17.58	18.31	17.84	19.50
		1	24	17.74	17.47	17.71	19.50
		12	0	17.03	17.22	17.14	18.50

		12	6	17.21	17.09	17.06	18.50
		12	13	16.88	16.89	16.94	18.50
		25	0	17.05	16.99	16.89	18.50
	64QAM	1	0	16.55	16.74	16.77	18.50
		1	13	17.35	17.23	17.10	18.50
		1	24	16.53	16.77	16.59	18.50
		12	0	16.11	16.09	15.96	17.50
		12	6	16.09	15.85	15.92	17.50
		12	13	16.00	15.74	15.87	17.50
		25	0	15.74	15.91	15.75	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	19.02	19.09	18.93	20.50
		1	25	19.21	19.31	19.17	20.50
		1	49	19.22	19.20	19.17	20.50
		25	0	18.16	18.20	18.13	19.50
		25	13	18.21	18.11	18.20	19.50
		25	25	18.05	18.14	17.88	19.50
		50	0	18.36	18.19	18.16	19.50
	16QAM	1	0	17.75	17.62	17.68	19.50
		1	25	17.60	18.31	17.96	19.50
		1	49	17.78	17.55	17.61	19.50
		25	0	17.11	17.12	16.96	18.50
		25	13	17.21	17.17	17.10	18.50
		25	25	16.86	16.97	16.86	18.50
		50	0	17.01	17.03	16.87	18.50
	64QAM	1	0	16.63	16.70	16.61	18.50
		1	25	17.17	17.07	17.00	18.50
		1	49	16.53	16.75	16.71	18.50
		25	0	15.99	16.07	15.82	17.50
		25	13	15.99	15.75	15.96	17.50
		25	25	15.86	15.78	15.71	17.50
		50	0	15.64	15.73	15.59	17.50
LTE B7							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	23.71	23.31	23.52	24.50
		1	13	23.98	24.04	23.82	24.50
		1	24	23.60	24.06	23.52	24.50
		12	0	22.69	22.84	22.81	23.50
		12	6	22.70	22.60	22.52	23.50
		12	13	22.83	22.64	22.21	23.50

		25	0	22.73	22.54	22.41	23.50
		1	0	22.21	22.40	21.87	23.50
		1	13	22.81	22.97	22.91	23.50
		1	24	22.62	22.60	22.51	23.50
		12	0	21.37	21.81	21.46	22.50
		12	6	21.96	21.72	21.51	22.50
		12	13	21.43	21.66	21.72	22.50
		25	0	21.60	21.73	21.62	22.50
		1	0	21.35	21.79	21.77	22.50
		1	13	21.81	22.31	21.83	22.50
		1	24	21.53	21.64	21.02	22.50
		12	0	20.59	20.88	20.38	21.50
		12	6	20.78	20.58	20.91	21.50
		12	13	20.58	20.73	20.60	21.50
		25	0	20.61	20.34	20.82	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	24.07	23.31	23.86	24.50
		1	25	23.92	24.38	23.90	24.50
		1	49	23.90	23.98	23.58	24.50
		25	0	22.77	23.12	22.63	23.50
		25	13	22.66	22.78	22.58	23.50
		25	25	22.65	22.72	22.45	23.50
		50	0	23.03	22.54	22.47	23.50
	16QAM	1	0	22.07	22.42	21.99	23.50
		1	25	22.83	22.95	22.85	23.50
		1	49	22.44	22.62	22.49	23.50
		25	0	21.47	21.97	21.30	22.50
		25	13	21.76	21.70	21.55	22.50
		25	25	21.61	21.52	21.56	22.50
		50	0	21.64	21.81	21.36	22.50
	64QAM	1	0	21.31	21.89	21.87	22.50
		1	25	21.89	22.39	22.11	22.50
		1	49	21.67	21.80	20.98	22.50
		25	0	20.93	20.94	20.64	21.50
		25	13	21.04	20.48	20.81	21.50
		25	25	20.92	20.69	20.52	21.50
		50	0	20.63	20.52	20.84	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	23.73	23.37	23.68	24.50
		1	38	24.18	24.18	23.72	24.50
		1	74	23.92	24.12	23.54	24.50

		36	0	22.65	23.04	22.71	23.50
		36	18	22.78	22.46	22.52	23.50
		36	39	22.85	22.54	22.51	23.50
		75	0	23.01	22.64	22.51	23.50
	16QAM	1	0	22.25	22.42	22.09	23.50
		1	38	22.91	22.99	22.95	23.50
		1	74	22.72	22.50	22.51	23.50
		36	0	21.59	21.81	21.44	22.50
		36	18	21.94	21.68	21.53	22.50
		36	39	21.75	21.72	21.80	22.50
		75	0	21.72	21.63	21.54	22.50
	64QAM	1	0	21.37	21.77	21.89	22.50
		1	38	21.77	22.29	21.95	22.50
		1	74	21.39	21.58	21.10	22.50
		36	0	20.65	21.04	20.70	21.50
		36	18	20.92	20.58	21.01	21.50
		36	39	20.82	20.85	20.62	21.50
		75	0	20.65	20.52	20.84	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	23.85	23.21	23.64	24.50
		1	50	23.92	24.16	23.92	24.50
		1	99	23.62	23.82	23.52	24.50
		50	0	22.79	22.78	22.63	23.50
		50	25	22.66	22.68	22.58	23.50
		50	50	22.57	22.68	22.53	23.50
		100	0	22.65	22.64	22.59	23.50
	16QAM	1	0	22.21	22.46	22.01	23.50
		1	50	22.77	22.93	22.81	23.50
		1	99	22.36	22.46	22.29	23.50
		50	0	21.75	21.75	21.62	22.50
		50	25	21.70	21.68	21.57	22.50
		50	50	21.49	21.70	21.46	22.50
		100	0	21.58	21.57	21.46	22.50
	64QAM	1	0	21.33	21.89	21.79	22.50
		1	50	22.05	22.07	21.77	22.50
		1	99	21.53	21.52	21.14	22.50
		50	0	20.85	20.80	20.60	21.50
		50	25	20.74	20.74	20.65	21.50
		50	50	20.74	20.65	20.54	21.50
		100	0	20.67	20.58	20.64	21.50
LTE B7							
Sensor on				Maximum Output Power (dBm)			Tune-up

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	12.31	12.23	12.39	14.50
		1	13	12.77	12.99	12.85	14.50
		1	24	12.52	12.22	12.20	14.50
		12	0	13.07	13.07	13.16	13.50
		12	6	12.81	12.81	12.73	13.50
		12	13	12.92	12.98	12.78	13.50
		25	0	12.98	12.92	13.04	13.50
	16QAM	1	0	11.65	11.81	11.87	13.50
		1	13	12.38	12.36	12.44	13.50
		1	24	11.76	11.76	11.68	13.50
		12	0	11.94	11.78	11.78	12.50
		12	6	11.60	11.72	11.64	12.50
		12	13	11.67	11.69	11.61	12.50
		25	0	11.68	11.68	11.56	12.50
	64QAM	1	0	11.10	11.00	11.04	12.50
		1	13	11.32	11.24	11.24	12.50
		1	24	10.91	10.93	11.01	12.50
		12	0	10.46	10.60	10.46	11.50
		12	6	10.74	10.68	10.64	11.50
		12	13	10.72	10.74	10.56	11.50
		25	0	10.98	10.66	10.80	11.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	12.41	12.17	12.23	14.50
		1	25	12.79	12.73	12.97	14.50
		1	49	12.58	12.36	12.20	14.50
		25	0	13.25	12.77	12.88	13.50
		25	13	12.71	12.63	12.69	13.50
		25	25	13.12	12.74	12.94	13.50
		50	0	12.90	13.12	13.02	13.50
	16QAM	1	0	11.73	11.85	11.79	13.50
		1	25	12.10	12.32	12.28	13.50
		1	49	11.68	11.98	11.64	13.50
		25	0	11.78	11.58	11.76	12.50
		25	13	11.64	11.74	11.90	12.50
		25	25	11.71	11.77	11.59	12.50
		50	0	11.82	11.54	11.62	12.50
	64QAM	1	0	11.00	11.06	10.74	12.50
		1	25	11.32	11.02	11.22	12.50
		1	49	11.09	11.15	11.01	12.50
		25	0	10.58	10.54	10.50	11.50

		25	13	10.50	10.74	10.94	11.50
		25	25	10.72	10.68	10.78	11.50
		50	0	10.86	10.62	10.90	11.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	12.25	12.25	12.43	14.50
		1	38	12.89	12.87	12.93	14.50
		1	74	12.48	12.16	12.32	14.50
		36	0	13.19	12.85	13.10	13.50
		36	18	12.79	12.93	12.93	13.50
		36	39	13.02	12.82	12.74	13.50
		75	0	12.96	13.02	13.08	13.50
	16QAM	1	0	11.73	11.79	11.63	13.50
		1	38	12.42	12.26	12.36	13.50
		1	74	11.70	11.90	11.76	13.50
		36	0	12.00	11.56	11.70	12.50
		36	18	11.64	11.54	11.82	12.50
		36	39	11.69	11.49	11.49	12.50
		75	0	11.64	11.86	11.60	12.50
	64QAM	1	0	11.04	10.94	10.84	12.50
		1	38	11.34	11.10	11.30	12.50
		1	74	11.03	11.01	10.99	12.50
		36	0	10.50	10.48	10.52	11.50
		36	18	10.56	10.58	10.60	11.50
		36	39	10.58	10.56	10.50	11.50
		75	0	10.86	10.72	10.82	11.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	12.29	12.13	12.33	14.50
		1	50	12.77	12.85	12.83	14.50
		1	99	12.42	12.24	12.28	14.50
		50	0	13.03	12.93	13.02	13.50
		50	25	12.79	12.75	12.79	13.50
		50	50	12.94	12.84	12.76	13.50
		100	0	13.08	12.90	12.90	13.50
	16QAM	1	0	11.73	11.69	11.71	13.50
		1	50	12.28	12.30	12.40	13.50
		1	99	11.68	11.78	11.72	13.50
		50	0	11.84	11.66	11.82	12.50
		50	25	11.70	11.62	11.68	12.50
		50	50	11.65	11.61	11.57	12.50
		100	0	11.76	11.68	11.66	12.50
	64QAM	1	0	10.98	10.88	10.88	12.50

		1	50	11.36	11.18	11.16	12.50
		1	99	10.99	10.99	11.05	12.50
		50	0	10.50	10.60	10.50	11.50
		50	25	10.60	10.66	10.72	11.50
		50	50	10.66	10.62	10.58	11.50
		100	0	10.86	10.70	10.72	11.50
LTE B12							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	23.38	22.98	23.44	24.50
		1	2	23.55	23.79	23.71	24.50
		1	5	23.22	23.06	23.44	24.50
		3	0	23.12	23.30	23.21	24.50
		3	2	23.22	23.31	23.33	24.50
		3	3	23.16	22.96	22.91	24.50
		6	0	22.18	22.18	22.21	23.50
	16QAM	1	0	22.13	22.00	22.35	23.50
		1	2	22.43	22.39	22.22	23.50
		1	5	22.05	21.74	21.86	23.50
		3	0	22.34	22.02	22.29	23.50
		3	2	22.02	22.36	22.41	23.50
		3	3	22.26	22.25	22.15	23.50
		6	0	21.36	21.19	21.09	22.50
	64QAM	1	0	21.01	20.76	21.18	22.50
		1	2	21.24	22.02	21.84	22.50
		1	5	21.10	21.00	21.15	22.50
		3	0	21.03	21.22	21.24	22.50
		3	2	21.27	21.26	21.26	22.50
		3	3	21.31	20.97	21.18	22.50
		6	0	20.22	20.21	20.22	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	23.18	23.06	23.40	24.50
		1	7	23.37	24.01	23.89	24.50
		1	14	23.46	23.26	23.32	24.50
		8	0	22.14	22.30	22.23	23.50
		8	4	22.28	22.47	22.43	23.50
		8	7	22.26	22.12	22.21	23.50
		15	0	22.38	22.20	22.31	23.50
	16QAM	1	0	22.17	21.80	22.09	23.50
		1	7	22.17	22.57	22.30	23.50
1		14	22.21	21.96	21.92	23.50	

		8	0	21.32	21.18	21.41	22.50
		8	4	21.10	21.26	21.47	22.50
		8	7	21.32	21.17	21.25	22.50
		15	0	21.44	21.23	21.33	22.50
	64QAM	1	0	20.97	20.90	21.28	22.50
		1	7	21.28	21.80	21.60	22.50
		1	14	21.02	21.12	21.05	22.50
		8	0	20.11	20.50	20.34	21.50
		8	4	20.47	20.30	20.40	21.50
		8	7	20.31	20.21	20.28	21.50
		15	0	20.30	20.25	20.36	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	23.28	23.12	23.40	24.50
		1	13	23.49	23.95	23.61	24.50
		1	24	23.48	23.16	23.16	24.50
		12	0	22.32	22.26	22.33	23.50
		12	6	22.20	22.19	22.47	23.50
		12	13	22.42	22.22	22.31	23.50
		25	0	22.36	22.24	22.47	23.50
	16QAM	1	0	22.07	21.88	22.29	23.50
		1	13	22.15	22.39	22.40	23.50
		1	24	22.15	21.84	22.08	23.50
		12	0	21.38	21.22	21.49	22.50
		12	6	21.22	21.36	21.43	22.50
		12	13	21.32	21.13	21.31	22.50
		25	0	21.42	21.17	21.27	22.50
	64QAM	1	0	21.09	21.08	21.16	22.50
		1	13	21.30	21.74	21.78	22.50
		1	24	21.12	21.12	21.17	22.50
		12	0	20.19	20.52	20.34	21.50
		12	6	20.25	20.48	20.32	21.50
		12	13	20.35	20.17	20.42	21.50
		25	0	20.20	20.17	20.24	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	23.24	23.06	23.38	24.50
		1	25	23.41	23.87	23.73	24.50
		1	49	23.36	23.22	23.26	24.50
		25	0	22.16	22.34	22.33	23.50
		25	13	22.18	22.31	22.29	23.50
		25	25	22.32	22.14	22.17	23.50
		50	0	22.30	22.26	22.33	23.50

	16QAM	1	0	22.05	21.90	22.17	23.50
		1	25	22.25	22.49	22.30	23.50
		1	49	22.05	21.90	21.90	23.50
		25	0	21.30	21.20	21.35	22.50
		25	13	21.16	21.36	21.35	22.50
		25	25	21.38	21.17	21.21	22.50
		50	0	21.30	21.27	21.23	22.50
	64QAM	1	0	20.97	20.92	21.20	22.50
		1	25	21.28	21.78	21.66	22.50
		1	49	21.12	21.02	21.09	22.50
		25	0	20.21	20.38	20.40	21.50
		25	13	20.31	20.40	20.32	21.50
		25	25	20.33	20.23	20.24	21.50
		50	0	20.26	20.15	20.24	21.50
LTE B12							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	20.23	20.21	20.15	21.50
		1	2	20.66	20.64	20.87	21.50
		1	5	20.59	20.45	20.31	21.50
		3	0	20.17	20.05	19.94	21.50
		3	2	20.35	20.22	20.30	21.50
		3	3	20.09	19.77	20.30	21.50
		6	0	19.16	18.93	19.33	20.50
	16QAM	1	0	19.08	19.15	19.18	20.50
		1	2	19.36	19.34	19.17	20.50
		1	5	19.42	19.17	18.65	20.50
		3	0	19.25	19.11	18.96	20.50
		3	2	19.15	18.95	19.20	20.50
		3	3	19.25	19.08	18.94	20.50
		6	0	18.27	18.44	18.52	19.50
	64QAM	1	0	17.52	17.79	18.13	19.50
		1	2	18.17	18.04	18.00	19.50
		1	5	17.87	17.81	17.52	19.50
		3	0	17.58	17.57	17.97	19.50
		3	2	17.96	18.05	17.93	19.50
		3	3	17.88	17.92	18.01	19.50
		6	0	16.79	16.72	16.61	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	20.37	20.11	20.05	21.50
		1	7	20.58	20.64	20.75	21.50

		1	14	20.37	20.21	20.31	21.50
		8	0	19.43	19.51	19.06	20.50
		8	4	19.31	19.22	19.52	20.50
		8	7	19.55	18.91	19.22	20.50
		15	0	19.24	18.93	19.23	20.50
	16QAM	1	0	18.80	19.01	19.16	20.50
		1	7	19.48	19.52	19.21	20.50
		1	14	19.30	19.09	18.67	20.50
		8	0	18.33	18.25	18.30	19.50
		8	4	18.51	18.29	18.62	19.50
		8	7	18.17	18.22	18.40	19.50
		15	0	18.43	18.36	18.28	19.50
	64QAM	1	0	17.84	17.63	17.77	19.50
		1	7	17.97	17.78	17.82	19.50
		1	14	17.89	17.75	17.60	19.50
		8	0	16.86	16.81	16.91	18.50
		8	4	16.76	17.17	16.93	18.50
		8	7	16.86	16.86	17.03	18.50
		15	0	17.11	16.94	16.63	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	20.45	20.39	20.13	21.50
		1	13	20.62	20.66	20.65	21.50
		1	24	20.55	20.27	20.17	21.50
		12	0	19.39	19.51	19.28	20.50
		12	6	19.31	19.08	19.20	20.50
		12	13	19.25	19.21	19.48	20.50
		25	0	19.38	19.17	19.49	20.50
	16QAM	1	0	18.98	18.89	19.26	20.50
		1	13	19.26	19.38	19.37	20.50
		1	24	19.28	18.93	18.61	20.50
		12	0	18.33	18.43	18.22	19.50
		12	6	18.25	18.29	18.40	19.50
		12	13	18.29	18.32	18.10	19.50
		25	0	18.27	18.40	18.38	19.50
	64QAM	1	0	17.74	17.65	17.91	19.50
		1	13	17.93	17.76	17.96	19.50
		1	24	17.75	17.71	17.70	19.50
		12	0	16.90	16.91	17.19	18.50
		12	6	17.02	17.05	16.91	18.50
		12	13	16.92	16.86	16.95	18.50
		25	0	16.81	16.74	16.79	18.50
Bandwidth	Modulation	RB	Offset	Channel/Frequency(MHz)			Tune-up

		Allocation		23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	20.29	20.23	20.17	21.50
		1	25	20.48	20.74	20.63	21.50
		1	49	20.39	20.25	20.27	21.50
		25	0	19.29	19.37	19.16	20.50
		25	13	19.29	19.20	19.30	20.50
		25	25	19.33	19.07	19.32	20.50
		50	0	19.30	19.03	19.41	20.50
	16QAM	1	0	18.92	18.93	19.24	20.50
		1	25	19.30	19.32	19.27	20.50
		1	49	19.22	19.03	18.71	20.50
		25	0	18.29	18.31	18.18	19.50
		25	13	18.29	18.13	18.42	19.50
		25	25	18.19	18.18	18.22	19.50
		50	0	18.21	18.34	18.38	19.50
	64QAM	1	0	17.66	17.77	17.93	19.50
		1	25	18.05	17.86	17.82	19.50
		1	49	17.69	17.71	17.68	19.50
		25	0	16.76	16.83	17.07	18.50
		25	13	16.90	17.01	16.87	18.50
		25	25	16.88	16.92	17.03	18.50
		50	0	16.93	16.84	16.75	18.50
LTE B13							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23205/779.5	23230/782	23255/784.5	
5MHz	QPSK	1	0	23.08	23.38	23.24	24.50
		1	13	23.48	23.54	23.46	24.50
		1	24	23.08	23.26	23.20	24.50
		12	0	22.14	22.30	22.22	23.50
		12	6	22.35	22.39	22.15	23.50
		12	13	22.27	22.47	22.31	23.50
		25	0	22.19	22.17	22.21	23.50
	16QAM	1	0	22.48	22.58	22.54	23.50
		1	13	22.70	22.70	23.00	23.50
		1	24	21.89	22.19	21.81	23.50
		12	0	21.18	21.32	21.16	22.50
		12	6	21.20	21.36	21.28	22.50
		12	13	21.11	21.15	21.45	22.50
		25	0	21.19	21.35	21.35	22.50
	64QAM	1	0	21.44	21.44	21.42	22.50
		1	13	21.88	21.90	21.62	22.50
		1	24	21.21	21.43	21.11	22.50

		12	0	20.40	20.54	20.44	21.50
		12	6	20.47	20.19	20.21	21.50
		12	13	20.20	20.46	20.14	21.50
		25	0	20.17	20.09	20.27	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	23230/782	/	
10MHz	QPSK	1	0	/	23.14	/	24.50
		1	25	/	23.36	/	24.50
		1	49	/	23.06	/	24.50
		25	0	/	22.22	/	23.50
		25	13	/	22.17	/	23.50
		25	25	/	22.13	/	23.50
		50	0	/	22.15	/	23.50
	16QAM	1	0	/	22.60	/	23.50
		1	25	/	22.80	/	23.50
		1	49	/	21.97	/	23.50
		25	0	/	21.22	/	22.50
		25	13	/	21.28	/	22.50
		25	25	/	21.17	/	22.50
		50	0	/	21.21	/	22.50
	64QAM	1	0	/	21.42	/	22.50
		1	25	/	21.70	/	22.50
		1	49	/	21.11	/	22.50
		25	0	/	20.30	/	21.50
		25	13	/	20.29	/	21.50
		25	25	/	20.24	/	21.50
		50	0	/	20.13	/	21.50
LTE B13							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23205/779.5	23230/782	23255/784.5	
5MHz	QPSK	1	0	19.27	19.57	19.59	20.50
		1	13	19.59	19.51	19.97	20.50
		1	24	19.35	18.99	19.31	20.50
		12	0	18.27	18.11	18.25	19.50
		12	6	18.48	18.30	18.24	19.50
		12	13	18.24	18.48	18.40	19.50
		25	0	18.28	18.12	18.46	19.50
	16QAM	1	0	18.57	18.73	18.71	19.50
		1	13	18.97	19.27	19.29	19.50
		1	24	17.98	18.04	18.16	19.50
		12	0	17.19	17.29	17.07	18.50
		12	6	17.41	17.43	17.43	18.50

		12	13	17.90	17.70	17.94	18.50
		25	0	17.36	17.32	17.28	18.50
	64QAM	1	0	17.15	17.29	17.37	18.50
		1	13	17.45	17.21	17.61	18.50
		1	24	16.88	17.00	16.80	18.50
		12	0	16.76	16.70	16.84	17.50
		12	6	16.21	16.31	15.99	17.50
		12	13	16.16	16.32	16.52	17.50
		25	0	16.23	16.51	16.71	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	23230/782	/	
10MHz	QPSK	1	0	/	19.49	/	20.50
		1	25	/	19.63	/	20.50
		1	49	/	19.31	/	20.50
		25	0	/	18.41	/	19.50
		25	13	/	18.24	/	19.50
		25	25	/	18.40	/	19.50
		50	0	/	18.44	/	19.50
	16QAM	1	0	/	18.75	/	19.50
		1	25	/	19.23	/	19.50
		1	49	/	18.02	/	19.50
		25	0	/	17.25	/	18.50
		25	13	/	17.37	/	18.50
		25	25	/	17.78	/	18.50
		50	0	/	17.54	/	18.50
	64QAM	1	0	/	17.19	/	18.50
		1	25	/	17.49	/	18.50
		1	49	/	16.92	/	18.50
		25	0	/	16.62	/	17.50
		25	13	/	16.19	/	17.50
		25	25	/	16.26	/	17.50
		50	0	/	16.41	/	17.50
LTE B14							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23305/790.5	23330/793	23355/795.5	
5MHz	QPSK	1	0	23.09	22.99	23.27	24.50
		1	13	23.36	23.52	23.36	24.50
		1	24	23.14	23.12	22.96	24.50
		12	0	22.18	22.06	22.10	23.50
		12	6	21.83	22.07	22.19	23.50
		12	13	22.18	21.88	22.10	23.50
		25	0	22.08	21.94	22.02	23.50

	16QAM	1	0	21.85	21.81	22.03	23.50
		1	13	22.37	22.09	22.31	23.50
		1	24	21.95	21.63	21.97	23.50
		12	0	20.80	20.94	20.84	22.50
		12	6	21.13	20.99	21.15	22.50
		12	13	20.96	20.98	20.88	22.50
		25	0	20.67	20.65	20.77	22.50
	64QAM	1	0	20.73	20.65	20.89	22.50
		1	13	21.42	21.26	21.44	22.50
		1	24	20.83	20.69	20.79	22.50
		12	0	20.36	20.00	20.28	21.50
		12	6	20.37	20.15	20.13	21.50
		12	13	20.15	20.07	20.35	21.50
		25	0	20.07	19.83	20.09	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	23330/793	/	
10MHz	QPSK	1	0	/	23.19	/	24.50
		1	25	/	23.48	/	24.50
		1	49	/	23.08	/	24.50
		25	0	/	22.06	/	23.50
		25	13	/	22.01	/	23.50
		25	25	/	22.00	/	23.50
		50	0	/	21.96	/	23.50
	16QAM	1	0	/	21.99	/	23.50
		1	25	/	22.23	/	23.50
		1	49	/	21.83	/	23.50
		25	0	/	20.92	/	22.50
		25	13	/	20.97	/	22.50
		25	25	/	20.98	/	22.50
		50	0	/	20.85	/	22.50
	64QAM	1	0	/	20.85	/	22.50
		1	25	/	21.46	/	22.50
		1	49	/	20.85	/	22.50
		25	0	/	20.14	/	21.50
		25	13	/	20.17	/	21.50
		25	25	/	20.17	/	21.50
		50	0	/	19.97	/	21.50
LTE B14							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23305/790.5	23330/793	23355/795.5	
5MHz	QPSK	1	0	18.48	18.58	18.50	19.50
		1	13	19.01	18.91	18.75	19.50

		1	24	18.27	18.35	18.43	19.50
		12	0	17.71	17.51	17.69	18.50
		12	6	17.56	17.38	17.56	18.50
		12	13	17.55	17.61	17.47	18.50
		25	0	17.49	17.53	17.35	18.50
	16QAM	1	0	17.34	17.32	17.18	18.50
		1	13	17.54	17.56	17.64	18.50
		1	24	17.48	17.40	17.30	18.50
		12	0	16.03	15.95	15.91	17.50
		12	6	16.50	16.44	16.42	17.50
		12	13	15.91	15.97	16.05	17.50
		25	0	16.04	15.92	15.94	17.50
	64QAM	1	0	16.26	16.16	16.14	17.50
		1	13	16.83	16.65	16.79	17.50
		1	24	16.16	16.28	16.12	17.50
		12	0	15.39	15.25	15.31	16.50
		12	6	15.32	15.42	15.40	16.50
		12	13	15.62	15.74	15.78	16.50
		25	0	15.50	15.38	15.38	16.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	23330/793	/	
10MHz	QPSK	1	0	/	18.58	/	19.50
		1	25	/	18.85	/	19.50
		1	49	/	18.37	/	19.50
		25	0	/	17.55	/	18.50
		25	13	/	17.48	/	18.50
		25	25	/	17.51	/	18.50
		50	0	/	17.37	/	18.50
	16QAM	1	0	/	17.28	/	18.50
		1	25	/	17.60	/	18.50
		1	49	/	17.32	/	18.50
		25	0	/	16.01	/	17.50
		25	13	/	16.52	/	17.50
		25	25	/	16.01	/	17.50
		50	0	/	15.96	/	17.50
	64QAM	1	0	/	16.14	/	17.50
		1	25	/	16.69	/	17.50
		1	49	/	16.16	/	17.50
		25	0	/	15.35	/	16.50
		25	13	/	15.28	/	16.50
		25	25	/	15.72	/	16.50
		50	0	/	15.34	/	16.50
LTE B17							

Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23755/706.5	23790/710	23825/713.5	
5MHz	QPSK	1	0	23.51	23.33	23.11	24.50
		1	13	23.59	23.92	23.77	24.50
		1	24	23.22	23.25	22.96	24.50
		12	0	22.38	22.32	22.40	23.50
		12	6	22.29	22.26	22.41	23.50
		12	13	22.39	22.29	22.08	23.50
		25	0	22.40	22.14	22.37	23.50
	16QAM	1	0	22.06	22.24	22.07	23.50
		1	13	22.52	22.39	22.40	23.50
		1	24	22.13	21.90	21.78	23.50
		12	0	21.33	21.19	21.12	22.50
		12	6	21.21	21.31	21.34	22.50
		12	13	21.23	21.13	21.05	22.50
		25	0	21.30	21.26	21.19	22.50
	64QAM	1	0	21.30	21.10	21.18	22.50
		1	13	21.71	21.95	21.87	22.50
		1	24	21.31	21.01	20.84	22.50
		12	0	20.45	20.37	20.56	21.50
		12	6	20.39	20.48	20.44	21.50
		12	13	20.47	20.11	20.23	21.50
		25	0	20.18	20.22	20.31	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23780/709	23790/710	23800/711	
10MHz	QPSK	1	0	23.37	23.27	23.13	24.50
		1	25	23.67	23.84	23.65	24.50
		1	49	23.28	23.15	23.06	24.50
		25	0	22.38	22.30	22.34	23.50
		25	13	22.29	22.26	22.29	23.50
		25	25	22.25	22.17	22.18	23.50
		50	0	22.32	22.24	22.27	23.50
	16QAM	1	0	22.14	22.08	22.17	23.50
		1	25	22.40	22.39	22.30	23.50
		1	49	22.03	21.80	21.78	23.50
		25	0	21.33	21.11	21.14	22.50
		25	13	21.27	21.21	21.20	22.50
		25	25	21.21	21.19	21.01	22.50
		50	0	21.18	21.14	21.11	22.50
	64QAM	1	0	21.20	21.18	21.02	22.50
		1	25	21.79	21.83	21.71	22.50
		1	49	21.15	20.99	20.94	22.50

		25	0	20.47	20.39	20.40	21.50
		25	13	20.47	20.42	20.36	21.50
		25	25	20.39	20.17	20.15	21.50
		50	0	20.24	20.20	20.17	21.50
LTE B17							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23755/706.5	23790/710	23825/713.5	
5MHz	QPSK	1	0	20.41	20.03	20.09	21.50
		1	13	20.91	20.46	20.61	21.50
		1	24	20.44	19.91	20.10	21.50
		12	0	19.54	19.26	19.24	20.50
		12	6	19.25	19.02	19.33	20.50
		12	13	19.49	19.07	19.38	20.50
		25	0	19.22	19.14	18.89	20.50
	16QAM	1	0	19.02	18.84	19.23	20.50
		1	13	19.42	19.51	19.38	20.50
		1	24	18.67	18.66	18.76	20.50
		12	0	18.59	18.17	18.16	19.50
		12	6	18.15	17.95	18.06	19.50
		12	13	18.15	18.21	18.33	19.50
		25	0	18.26	18.22	18.05	19.50
	64QAM	1	0	18.32	17.98	18.04	19.50
		1	13	18.77	18.81	18.49	19.50
		1	24	18.31	18.09	18.12	19.50
		12	0	17.37	17.37	17.52	18.50
		12	6	17.33	17.68	17.44	18.50
		12	13	17.63	17.13	17.13	18.50
		25	0	17.20	17.20	17.27	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23780/709	23790/710	23800/711	
10MHz	QPSK	1	0	20.27	20.05	20.13	21.50
		1	25	20.75	20.58	20.49	21.50
		1	49	20.36	20.01	20.20	21.50
		25	0	19.36	19.28	19.08	20.50
		25	13	19.31	19.08	19.37	20.50
		25	25	19.31	19.05	19.26	20.50
		50	0	19.06	19.24	19.01	20.50
	16QAM	1	0	19.06	18.82	19.13	20.50
		1	25	19.44	19.33	19.44	20.50
		1	49	18.77	18.60	18.68	20.50
		25	0	18.41	18.21	18.14	19.50
		25	13	18.17	18.07	18.00	19.50

		25	25	18.03	18.17	18.15	19.50
		50	0	18.14	18.10	17.91	19.50
	64QAM	1	0	18.26	18.04	18.06	19.50
		1	25	18.65	18.71	18.57	19.50
		1	49	18.13	18.13	18.04	19.50
		25	0	17.21	17.47	17.52	18.50
		25	13	17.41	17.54	17.36	18.50
		25	25	17.45	17.11	16.95	18.50
		50	0	17.08	17.20	17.21	18.50
LTE B25							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				26047/1850.7	26365/1882.5	26683/1914.3	
1.4MHz	QPSK	1	0	23.37	22.68	22.63	24.50
		1	2	23.30	23.55	23.14	24.50
		1	5	22.84	22.71	22.88	24.50
		3	0	22.94	22.76	23.16	24.50
		3	2	22.95	22.61	22.73	24.50
		3	3	22.80	22.78	22.55	24.50
		6	0	21.84	21.89	21.88	23.50
	16QAM	1	0	21.85	21.58	21.77	23.50
		1	2	22.08	22.20	22.10	23.50
		1	5	21.63	21.82	21.65	23.50
		3	0	21.92	21.71	22.18	23.50
		3	2	22.09	21.66	21.74	23.50
		3	3	21.82	21.54	21.55	23.50
		6	0	20.79	20.93	21.08	22.50
	64QAM	1	0	20.84	20.99	20.82	22.50
		1	2	21.69	21.49	21.21	22.50
		1	5	20.65	20.73	21.01	22.50
		3	0	20.86	20.60	21.14	22.50
		3	2	20.73	20.69	21.01	22.50
		3	3	20.66	20.65	20.89	22.50
		6	0	20.01	19.92	19.71	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26055/1851.5	26365/1882.5	26675/1913.5	
3MHz	QPSK	1	0	23.03	22.76	22.89	24.50
		1	7	23.34	23.23	23.38	24.50
		1	14	22.90	22.91	22.82	24.50
		8	0	22.00	21.92	22.02	23.50
		8	4	21.89	21.75	21.83	23.50
		8	7	21.98	21.62	21.81	23.50
		15	0	21.97	21.74	22.09	23.50

	16QAM	1	0	21.99	21.88	21.51	23.50
		1	7	22.08	22.04	22.02	23.50
		1	14	21.43	21.56	21.51	23.50
		8	0	20.96	20.81	21.26	22.50
		8	4	20.99	20.98	21.04	22.50
		8	7	21.12	20.84	20.75	22.50
		15	0	21.05	20.81	20.90	22.50
	64QAM	1	0	20.86	20.91	20.58	22.50
		1	7	21.45	21.63	20.99	22.50
		1	14	20.61	21.01	20.75	22.50
		8	0	19.92	20.04	20.02	21.50
		8	4	19.90	19.98	19.98	21.50
		8	7	19.93	19.84	19.58	21.50
		15	0	19.85	19.74	19.93	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26065/1852.5	26365/1882.5	26665/1912.5	
5MHz	QPSK	1	0	23.23	22.80	22.79	24.50
		1	13	23.46	23.37	23.18	24.50
		1	24	22.64	22.71	22.72	24.50
		12	0	22.20	21.82	22.20	23.50
		12	6	22.17	21.95	21.85	23.50
		12	13	21.80	21.86	21.69	23.50
		25	0	21.86	21.96	21.66	23.50
	16QAM	1	0	21.78	21.58	21.52	23.50
		1	13	22.16	21.94	22.16	23.50
		1	24	21.59	21.58	21.61	23.50
		12	0	20.76	20.79	21.34	22.50
		12	6	20.95	20.88	21.14	22.50
		12	13	21.16	20.60	20.77	22.50
		25	0	21.02	20.88	20.79	22.50
	64QAM	1	0	20.67	20.70	20.61	22.50
		1	13	21.42	21.20	21.00	22.50
		1	24	20.62	20.68	20.80	22.50
		12	0	19.69	19.97	20.19	21.50
		12	6	20.06	19.78	19.88	21.50
		12	13	19.67	19.86	19.86	21.50
		25	0	19.93	19.58	19.85	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26090/1855	26365/1882.5	26640/1910	
10MHz	QPSK	1	0	23.09	22.88	22.67	24.50
		1	25	23.36	23.39	23.14	24.50
		1	49	22.78	22.85	22.74	24.50
		25	0	22.04	21.82	22.16	23.50

		25	13	21.87	21.79	21.85	23.50
		25	25	21.80	21.80	21.75	23.50
		50	0	21.90	21.67	21.76	23.50
	16QAM	1	0	21.88	21.71	21.62	23.50
		1	25	21.99	21.81	21.99	23.50
		1	49	21.47	21.78	21.49	23.50
		25	0	20.98	20.73	21.18	22.50
		25	13	21.17	20.76	21.10	22.50
		25	25	20.90	20.78	20.95	22.50
		50	0	20.96	20.70	20.83	22.50
		1	0	20.73	20.90	20.57	22.50
	64QAM	1	25	21.26	21.52	20.94	22.50
		1	49	20.70	20.72	20.64	22.50
		25	0	20.03	19.73	20.03	21.50
		25	13	20.04	19.86	19.78	21.50
		25	25	19.79	19.82	19.80	21.50
		50	0	19.93	19.72	19.81	21.50
		1	0	20.73	20.90	20.57	22.50
		1	25	21.26	21.52	20.94	22.50
		1	49	20.70	20.72	20.64	22.50
		25	0	20.03	19.73	20.03	21.50
		25	13	20.04	19.86	19.78	21.50
		25	25	19.79	19.82	19.80	21.50
		50	0	19.93	19.72	19.81	21.50
		1	0	20.73	20.90	20.57	22.50
		1	25	21.26	21.52	20.94	22.50
		1	49	20.70	20.72	20.64	22.50
		25	0	20.03	19.73	20.03	21.50
		25	13	20.04	19.86	19.78	21.50
		25	25	19.79	19.82	19.80	21.50
		50	0	19.93	19.72	19.81	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26115/1857.5	26365/1882.5	26615/1907.5	
15MHz	QPSK	1	0	23.15	22.70	22.59	24.50
		1	38	23.20	23.27	23.24	24.50
		1	74	22.82	22.71	22.72	24.50
		36	0	22.04	21.78	22.02	23.50
		36	18	22.01	21.73	21.87	23.50
		36	39	21.88	21.80	21.79	23.50
		75	0	21.96	21.53	21.86	23.50
		1	0	21.85	21.78	21.60	23.50
	16QAM	1	38	22.00	21.86	21.94	23.50
		1	74	21.66	21.64	21.56	23.50
		36	0	20.96	20.73	21.10	22.50
		36	18	20.81	20.88	20.80	22.50
		36	39	20.82	20.56	20.89	22.50
		75	0	20.83	20.89	20.92	22.50
		1	0	20.74	20.95	20.48	22.50
		1	38	21.27	21.31	20.99	22.50
	64QAM	1	74	20.57	20.67	20.83	22.50
		36	0	19.92	20.00	19.92	21.50
		36	18	19.85	19.89	19.89	21.50
		36	39	19.82	19.79	19.61	21.50
		75	0	19.67	19.60	19.73	21.50
		1	0	20.74	20.95	20.48	22.50
		1	38	21.27	21.31	20.99	22.50
		1	74	20.57	20.67	20.83	22.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26140/1860	26365/1882.5	26590/1905	
20MHz	QPSK	1	0	23.15	22.82	22.77	24.50

		1	50	23.36	23.35	23.20	24.50		
		1	99	22.80	22.73	22.78	24.50		
		50	0	22.00	21.82	22.08	23.50		
		50	25	21.97	21.85	21.85	23.50		
		50	50	21.88	21.74	21.79	23.50		
		100	0	21.90	21.73	21.84	23.50		
	16QAM	1	0	21.85	21.70	21.61	23.50		
		1	50	22.16	21.96	21.98	23.50		
		1	99	21.51	21.64	21.53	23.50		
		50	0	20.92	20.81	21.12	22.50		
		50	25	20.90	20.75	20.85	22.50		
		50	50	20.87	20.63	20.72	22.50		
		100	0	20.84	20.70	20.83	22.50		
		64QAM	1	0	20.65	20.76	20.51	22.50	
			1	50	21.34	21.36	20.92	22.50	
				1	99	20.60	20.72	20.72	22.50
				50	0	19.87	19.81	20.01	21.50
				50	25	19.92	19.88	19.84	21.50
	50			50	19.79	19.82	19.70	21.50	
	100	0		19.79	19.70	19.85	21.50		

LTE B25							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				26047/1850.7	26365/1882.5	26683/1914.3	
1.4MHz	QPSK	1	0	14.83	14.81	14.68	16.50
		1	2	15.25	14.92	15.02	16.50
		1	5	15.17	14.88	14.85	16.50
		3	0	14.87	14.89	15.27	16.50
		3	2	14.66	14.68	14.72	16.50
		3	3	15.05	14.75	15.00	16.50
		6	0	13.97	14.02	13.51	15.50
	16QAM	1	0	13.76	13.69	13.80	15.50
		1	2	14.55	13.83	14.33	15.50
		1	5	13.96	13.59	13.76	15.50
		3	0	13.99	13.32	14.05	15.50
		3	2	13.69	13.60	13.68	15.50
		3	3	13.62	13.90	13.61	15.50
		6	0	12.91	12.63	13.00	14.50
	64QAM	1	0	12.54	12.59	12.77	14.50
		1	2	12.75	12.63	12.45	14.50
		1	5	12.73	12.64	12.67	14.50
		3	0	13.16	12.72	12.98	14.50
		3	2	12.91	12.75	12.81	14.50

		3	3	12.60	12.53	12.61	14.50
		6	0	11.74	11.81	11.80	13.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26055/1851.5	26365/1882.5	26675/1913.5	
3MHz	QPSK	1	0	14.97	14.93	14.98	16.50
		1	7	15.09	14.86	14.92	16.50
		1	14	15.05	14.62	14.85	16.50
		8	0	13.85	14.03	14.39	15.50
		8	4	13.66	14.02	13.62	15.50
		8	7	14.25	13.85	13.90	15.50
		15	0	13.85	13.98	13.79	15.50
	16QAM	1	0	13.84	13.93	14.12	15.50
		1	7	14.33	13.71	14.23	15.50
		1	14	14.02	13.93	13.52	15.50
		8	0	12.89	12.50	13.21	14.50
		8	4	12.91	12.60	12.86	14.50
		8	7	12.84	12.56	12.73	14.50
		15	0	12.85	12.81	12.92	14.50
	64QAM	1	0	12.60	12.67	12.55	14.50
		1	7	12.63	12.73	12.73	14.50
		1	14	12.75	12.80	12.85	14.50
		8	0	12.28	11.76	11.80	13.50
		8	4	11.93	11.85	11.83	13.50
		8	7	11.64	11.53	11.71	13.50
		15	0	11.72	11.51	12.10	13.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26065/1852.5	26365/1882.5	26665/1912.5	
5MHz	QPSK	1	0	15.07	14.75	14.74	16.50
		1	13	15.11	15.00	15.02	16.50
		1	24	15.01	14.72	14.69	16.50
		12	0	13.97	13.87	14.17	15.50
		12	6	13.88	13.84	13.72	15.50
		12	13	14.09	13.87	14.00	15.50
		25	0	13.79	13.86	13.65	15.50
	16QAM	1	0	13.92	13.77	14.00	15.50
		1	13	14.55	13.95	14.17	15.50
		1	24	13.76	13.75	13.64	15.50
		12	0	12.93	12.64	13.29	14.50
		12	6	12.85	12.66	12.82	14.50
		12	13	12.76	12.84	12.63	14.50
		25	0	12.83	12.61	12.88	14.50
	64QAM	1	0	12.58	12.65	12.77	14.50
		1	13	12.71	12.71	12.63	14.50

		1	24	12.63	12.76	12.83	14.50
		12	0	12.10	11.56	12.06	13.50
		12	6	12.23	11.79	11.81	13.50
		12	13	11.58	11.83	11.69	13.50
		25	0	11.64	11.73	12.02	13.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26090/1855	26365/1882.5	26640/1910	
10MHz	QPSK	1	0	15.11	14.79	14.98	16.50
		1	25	15.17	15.00	14.84	16.50
		1	49	14.83	14.98	14.67	16.50
		25	0	13.71	13.99	14.09	15.50
		25	13	13.78	14.04	13.66	15.50
		25	25	14.15	13.61	13.92	15.50
		50	0	13.69	13.88	13.61	15.50
	16QAM	1	0	13.68	13.61	13.94	15.50
		1	25	14.37	13.71	14.09	15.50
		1	49	13.64	13.59	13.66	15.50
		25	0	12.97	12.62	13.33	14.50
		25	13	12.71	12.54	12.84	14.50
		25	25	12.76	12.94	12.55	14.50
		50	0	12.81	12.81	12.96	14.50
	64QAM	1	0	12.48	12.71	12.59	14.50
		1	25	12.63	12.93	12.55	14.50
		1	49	12.83	12.60	12.85	14.50
		25	0	12.06	11.56	12.18	13.50
		25	13	12.37	11.73	11.93	13.50
		25	25	11.76	11.79	11.79	13.50
		50	0	11.60	11.79	12.10	13.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26115/1857.5	26365/1882.5	26615/1907.5	
15MHz	QPSK	1	0	15.01	14.77	14.82	16.50
		1	38	15.13	14.98	14.86	16.50
		1	74	15.01	14.72	14.81	16.50
		36	0	13.83	13.93	14.17	15.50
		36	18	13.90	13.74	13.80	15.50
		36	39	14.03	13.85	14.04	15.50
		75	0	13.93	14.08	13.61	15.50
	16QAM	1	0	13.70	13.89	13.88	15.50
		1	38	14.31	13.75	14.39	15.50
		1	74	13.76	13.71	13.62	15.50
		36	0	12.95	12.58	13.23	14.50
		36	18	12.89	12.72	13.06	14.50
		36	39	12.68	12.80	12.87	14.50

		75	0	13.05	12.83	12.88	14.50
	64QAM	1	0	12.56	12.71	12.83	14.50
		1	38	12.55	12.81	12.61	14.50
		1	74	12.75	12.68	12.95	14.50
		36	0	12.12	11.52	12.22	13.50
		36	18	12.11	12.07	11.77	13.50
		36	39	11.54	11.87	11.63	13.50
		75	0	11.58	11.89	12.04	13.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26140/1860	26365/1882.5	26590/1905	
20MHz	QPSK	1	0	14.95	14.67	14.78	16.50
		1	50	15.01	14.96	14.80	16.50
		1	99	14.91	14.84	14.79	16.50
		50	0	13.93	13.89	14.03	15.50
		50	25	13.96	13.70	13.68	15.50
		50	50	13.95	13.61	13.88	15.50
		100	0	13.93	13.76	13.75	15.50
	16QAM	1	0	13.76	13.67	13.70	15.50
		1	50	14.21	13.99	14.11	15.50
		1	99	13.64	13.73	13.70	15.50
		50	0	12.85	12.70	13.19	14.50
		50	25	12.85	12.74	12.96	14.50
		50	50	12.74	12.68	12.73	14.50
		100	0	12.83	12.77	12.74	14.50
	64QAM	1	0	12.56	12.63	12.67	14.50
		1	50	12.69	12.83	12.59	14.50
		1	99	12.43	12.48	12.53	14.50
		50	0	11.96	11.76	11.94	13.50
		50	25	12.01	11.95	11.83	13.50
		50	50	11.62	11.79	11.65	13.50
		100	0	11.66	11.61	11.80	13.50

LTE B26							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				26697/814.7	26740/819	26783/823.3	
1.4MHz	QPSK	1	0	23.06	22.86	23.14	24.50
		1	2	23.91	23.83	23.67	24.50
		1	5	23.08	23.16	23.08	24.50
		3	0	23.18	23.32	23.26	24.50
		3	2	23.15	23.07	22.91	24.50
		3	3	22.89	22.89	22.63	24.50
		6	0	22.19	22.27	22.43	23.50

	16QAM	1	0	21.68	21.68	21.94	23.50
		1	2	22.48	22.70	22.58	23.50
		1	5	21.90	21.92	21.74	23.50
		3	0	21.99	22.09	21.93	23.50
		3	2	21.97	22.13	22.19	23.50
		3	3	22.05	22.05	22.11	23.50
		6	0	21.66	21.50	21.44	22.50
	64QAM	1	0	21.37	21.37	21.31	22.50
		1	2	21.46	21.54	21.20	22.50
		1	5	21.19	21.19	21.25	22.50
		3	0	21.28	21.08	21.24	22.50
		3	2	21.06	20.84	21.08	22.50
		3	3	21.05	20.93	21.09	22.50
		6	0	19.93	20.15	19.91	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26705/815.5	26740/819	26775/822.5	
3MHz	QPSK	1	0	22.86	22.90	22.94	24.50
		1	7	23.73	23.75	23.81	24.50
		1	14	23.02	23.24	23.00	24.50
		8	0	22.50	22.16	22.44	23.50
		8	4	21.91	22.07	22.17	23.50
		8	7	21.89	22.05	22.11	23.50
		15	0	22.41	22.53	22.25	23.50
	16QAM	1	0	21.80	21.54	21.58	23.50
		1	7	22.50	22.40	22.44	23.50
		1	14	21.72	21.82	21.78	23.50
		8	0	21.33	21.27	21.05	22.50
		8	4	21.31	21.15	21.29	22.50
		8	7	21.23	21.07	21.19	22.50
		15	0	21.66	21.56	21.38	22.50
	64QAM	1	0	21.39	21.33	21.19	22.50
		1	7	21.28	21.16	21.20	22.50
		1	14	20.99	20.95	21.07	22.50
		8	0	20.56	20.40	20.60	21.50
		8	4	20.00	20.12	20.16	21.50
		8	7	20.25	19.97	20.25	21.50
		15	0	20.03	19.89	19.89	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26715/816.5	26740/819	26765/821.5	
5MHz	QPSK	1	0	22.84	23.08	23.02	24.50
		1	13	23.75	23.85	23.73	24.50
		1	24	23.08	23.26	23.06	24.50
		12	0	22.32	22.26	22.16	23.50

		12	6	21.97	22.03	22.21	23.50	
		12	13	21.95	21.87	21.83	23.50	
		25	0	22.23	22.51	22.23	23.50	
		16QAM	1	0	21.64	21.70	21.74	23.50
			1	13	22.42	22.54	22.54	23.50
			1	24	21.80	21.86	21.74	23.50
			12	0	21.39	21.19	21.37	22.50
			12	6	21.31	21.15	21.31	22.50
			12	13	21.25	21.07	21.21	22.50
	25		0	21.34	21.34	21.52	22.50	
	64QAM	1	0	21.37	21.41	21.55	22.50	
		1	13	21.40	21.44	21.38	22.50	
		1	24	20.99	21.15	20.99	22.50	
		12	0	20.36	20.48	20.34	21.50	
		12	6	20.14	19.96	20.22	21.50	
		12	13	20.07	20.11	20.19	21.50	
		25	0	19.95	20.07	19.89	21.50	
	Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
/					26740/819	/		
10MHz	QPSK	1	0	/	22.90	/	24.50	
		1	25	/	23.69	/	24.50	
		1	49	/	23.16	/	24.50	
		25	0	/	22.28	/	23.50	
		25	13	/	22.09	/	23.50	
		25	25	/	21.95	/	23.50	
		50	0	/	22.33	/	23.50	
	16QAM	1	0	/	21.70	/	23.50	
		1	25	/	22.50	/	23.50	
		1	49	/	21.86	/	23.50	
		25	0	/	21.23	/	22.50	
		25	13	/	21.27	/	22.50	
		25	25	/	21.13	/	22.50	
		50	0	/	21.44	/	22.50	
	64QAM	1	0	/	21.37	/	22.50	
		1	25	/	21.34	/	22.50	
		1	49	/	21.03	/	22.50	
		25	0	/	20.40	/	21.50	
		25	13	/	20.06	/	21.50	
		25	25	/	20.03	/	21.50	
		50	0	/	20.01	/	21.50	
LTE B26								
Sensor off				Maximum Output Power (dBm)			Tune-up	
Bandwidth	Modulation	RB	Offset	Channel/Frequency(MHz)				

		Allocation		26797/824.7	26915/836.5	27033/848.3	
1.4MHz	QPSK	1	0	23.05	23.24	23.10	24.50
		1	2	23.20	23.82	23.29	24.50
		1	5	23.60	23.32	23.40	24.50
		3	0	23.35	23.42	23.12	24.50
		3	2	23.14	22.86	23.09	24.50
		3	3	22.96	22.95	22.77	24.50
		6	0	22.15	22.20	22.25	23.50
	16QAM	1	0	21.90	22.26	22.04	23.50
		1	2	22.02	22.45	22.22	23.50
		1	5	21.93	22.17	21.76	23.50
		3	0	22.06	21.95	22.11	23.50
		3	2	22.36	21.96	22.13	23.50
		3	3	21.83	22.08	22.23	23.50
		6	0	21.00	21.26	21.14	22.50
	64QAM	1	0	20.97	20.84	20.91	22.50
		1	2	21.51	21.65	21.36	22.50
		1	5	21.11	20.83	21.07	22.50
		3	0	20.81	21.09	21.10	22.50
		3	2	21.11	21.11	21.10	22.50
		3	3	21.00	21.32	20.89	22.50
		6	0	20.30	20.35	20.37	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26915/836.5	26915/836.5	27025/847.5	
3MHz	QPSK	1	0	23.31	23.34	22.98	24.50
		1	7	23.26	24.06	23.41	24.50
		1	14	23.56	23.38	23.36	24.50
		8	0	22.25	22.52	22.26	23.50
		8	4	22.08	22.14	22.19	23.50
		8	7	22.08	22.15	22.09	23.50
		15	0	22.13	22.18	22.25	23.50
	16QAM	1	0	21.90	22.24	22.04	23.50
		1	7	22.06	22.57	22.52	23.50
		1	14	21.99	22.07	21.84	23.50
		8	0	21.18	21.15	21.31	22.50
		8	4	21.34	21.20	21.19	22.50
		8	7	21.07	21.00	21.29	22.50
		15	0	21.28	21.12	21.18	22.50
	64QAM	1	0	20.95	21.06	21.13	22.50
		1	7	21.37	21.53	21.36	22.50
		1	14	21.37	21.07	21.01	22.50
		8	0	20.19	20.51	20.24	21.50
		8	4	20.29	20.55	20.32	21.50

		8	7	20.16	20.48	19.91	21.50
		15	0	20.28	20.23	20.27	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26815/826.5	26915/836.5	27015/846.5	
5MHz	QPSK	1	0	23.01	23.26	23.04	24.50
		1	13	23.12	23.96	23.55	24.50
		1	24	23.30	23.52	23.04	24.50
		12	0	22.23	22.52	22.12	23.50
		12	6	22.20	21.96	21.97	23.50
		12	13	22.14	22.17	21.77	23.50
		25	0	22.31	22.02	22.19	23.50
	16QAM	1	0	21.82	22.28	21.92	23.50
		1	13	21.92	22.49	22.20	23.50
		1	24	21.99	22.19	21.72	23.50
		12	0	21.00	20.89	21.01	22.50
		12	6	21.30	21.22	21.15	22.50
		12	13	21.05	20.82	21.23	22.50
		25	0	21.08	21.20	21.08	22.50
	64QAM	1	0	20.71	21.08	21.01	22.50
		1	13	21.35	21.43	21.40	22.50
		1	24	21.19	20.87	21.01	22.50
		12	0	20.17	20.49	20.26	21.50
		12	6	20.25	20.33	20.16	21.50
		12	13	20.06	20.34	20.11	21.50
		25	0	20.20	20.07	20.09	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26840/829	26915/836.5	26990/844	
10MHz	QPSK	1	0	23.01	23.12	22.98	24.50
		1	25	23.48	24.12	23.41	24.50
		1	49	23.54	23.38	23.34	24.50
		25	0	22.15	22.48	22.18	23.50
		25	13	21.98	22.06	21.91	23.50
		25	25	22.24	21.95	21.91	23.50
		50	0	22.25	22.00	22.41	23.50
	16QAM	1	0	21.90	22.06	21.80	23.50
		1	25	22.22	22.41	22.30	23.50
		1	49	22.09	22.39	21.80	23.50
		25	0	21.06	21.15	21.29	22.50
		25	13	21.32	21.30	20.95	22.50
		25	25	20.93	20.94	21.33	22.50
		50	0	21.08	21.34	21.12	22.50
	64QAM	1	0	21.01	20.90	21.21	22.50
		1	25	21.35	21.73	21.60	22.50

		1	49	21.31	21.15	20.89	22.50
		25	0	19.95	20.53	20.42	21.50
		25	13	20.49	20.43	20.16	21.50
		25	25	20.30	20.36	20.07	21.50
		50	0	20.02	20.09	20.21	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26865/831.5	26915/836.5	26965/841.5	
15MHz	QPSK	1	0	23.33	23.30	22.98	24.50
		1	38	23.44	23.98	23.53	24.50
		1	74	23.46	23.50	23.36	24.50
		36	0	22.39	22.60	22.22	23.50
		36	18	22.06	22.26	22.03	23.50
		36	39	22.10	22.25	21.87	23.50
		75	0	22.15	22.04	22.25	23.50
	16QAM	1	0	21.90	22.08	21.82	23.50
		1	38	21.96	22.49	22.34	23.50
		1	74	21.99	22.25	21.76	23.50
		36	0	21.32	21.05	21.31	22.50
		36	18	21.22	21.14	21.29	22.50
		36	39	20.95	20.96	21.15	22.50
		75	0	21.08	21.22	21.36	22.50
	64QAM	1	0	20.93	21.16	21.23	22.50
		1	38	21.47	21.65	21.30	22.50
		1	74	21.19	21.01	21.09	22.50
		36	0	20.21	20.43	20.34	21.50
		36	18	20.39	20.31	20.24	21.50
		36	39	20.10	20.50	20.17	21.50
		75	0	20.10	20.15	20.13	21.50
LTE B26							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				26697/814.7	26740/819	26783/823.3	
1.4MHz	QPSK	1	0	19.66	19.62	19.44	20.50
		1	2	19.33	19.33	19.65	20.50
		1	5	19.34	19.58	19.64	20.50
		3	0	18.96	19.06	19.14	20.50
		3	2	19.19	19.35	19.37	20.50
		3	3	19.51	19.21	19.49	20.50
		6	0	18.98	18.82	18.80	19.50
	16QAM	1	0	17.85	18.15	17.87	19.50
		1	2	17.60	17.92	17.70	19.50
		1	5	17.82	18.08	18.10	19.50
		3	0	17.91	18.17	17.97	19.50

		3	2	18.37	18.21	18.51	19.50
		3	3	17.88	17.96	18.08	19.50
		6	0	17.41	17.57	17.27	18.50
	64QAM	1	0	16.85	16.77	16.65	18.50
		1	2	17.87	17.73	17.53	18.50
		1	5	16.77	16.95	16.87	18.50
		3	0	17.07	17.03	16.95	18.50
		3	2	17.41	17.31	17.13	18.50
		3	3	17.18	17.36	17.36	18.50
		6	0	15.86	15.96	16.14	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26705/815.5	26740/819	26775/822.5	
3MHz	QPSK	1	0	19.46	19.34	19.44	20.50
		1	7	19.25	19.33	19.29	20.50
		1	14	19.44	19.42	19.36	20.50
		8	0	18.08	18.18	18.14	19.50
		8	4	18.21	18.35	18.31	19.50
		8	7	18.51	18.41	18.51	19.50
		15	0	18.84	18.70	18.76	19.50
	16QAM	1	0	17.93	17.93	17.83	19.50
		1	7	17.54	17.74	17.78	19.50
		1	14	18.04	17.90	17.92	19.50
		8	0	17.27	17.01	17.23	18.50
		8	4	17.55	17.29	17.33	18.50
		8	7	16.92	16.86	17.06	18.50
		15	0	17.23	17.31	17.21	18.50
	64QAM	1	0	16.59	16.69	16.77	18.50
		1	7	17.49	17.69	17.61	18.50
		1	14	16.59	16.57	16.63	18.50
		8	0	16.21	16.27	16.23	17.50
		8	4	16.27	16.13	16.35	17.50
		8	7	16.20	16.12	16.18	17.50
		15	0	16.00	15.86	16.08	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26715/816.5	26740/819	26765/821.5	
5MHz	QPSK	1	0	19.36	19.34	19.34	20.50
		1	13	19.45	19.45	19.59	20.50
		1	24	19.32	19.60	19.54	20.50
		12	0	18.26	18.46	18.32	19.50
		12	6	18.29	18.27	18.25	19.50
		12	13	18.45	18.55	18.51	19.50
		25	0	18.82	18.90	18.86	19.50
	16QAM	1	0	17.91	18.05	17.93	19.50

		1	13	17.92	17.56	17.68	19.50
		1	24	17.84	17.94	17.90	19.50
		12	0	17.33	17.37	17.13	18.50
		12	6	17.53	17.43	17.69	18.50
		12	13	17.12	17.22	16.98	18.50
		25	0	17.49	17.41	17.59	18.50
		25	0	16.10	15.90	15.98	17.50
	64QAM	1	0	17.01	16.83	16.91	18.50
		1	13	17.69	17.87	17.61	18.50
		1	24	16.99	16.87	16.93	18.50
		12	0	16.39	16.23	16.43	17.50
		12	6	16.39	16.23	16.35	17.50
		12	13	16.50	16.16	16.50	17.50
		25	0	16.10	15.90	15.98	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	26740/819	/	
10MHz	QPSK	1	0	/	19.68	/	20.50
		1	25	/	19.39	/	20.50
		1	49	/	19.46	/	20.50
		25	0	/	18.40	/	19.50
		25	13	/	18.72	/	19.50
		25	25	/	18.35	/	19.50
		50	0	/	18.86	/	19.50
	16QAM	1	0	/	18.09	/	19.50
		1	25	/	17.66	/	19.50
		1	49	/	18.06	/	19.50
		25	0	/	17.15	/	18.50
		25	13	/	17.67	/	18.50
		25	25	/	17.20	/	18.50
		50	0	/	17.51	/	18.50
	64QAM	1	0	/	16.91	/	18.50
		1	25	/	17.77	/	18.50
		1	49	/	16.89	/	18.50
		25	0	/	16.33	/	17.50
		25	13	/	16.27	/	17.50
		25	25	/	16.36	/	17.50
		50	0	/	16.02	/	17.50
LTE B26							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				26797/824.7	26915/836.5	27033/848.3	
1.4MHz	QPSK	1	0	19.24	19.53	19.37	20.50
		1	2	19.43	19.89	19.09	20.50
		1	5	19.48	19.24	19.61	20.50

		3	0	19.28	19.70	19.65	20.50
		3	2	19.61	19.05	19.38	20.50
		3	3	19.47	18.78	18.72	20.50
		6	0	18.28	18.43	18.92	19.50
	16QAM	1	0	17.93	18.38	18.24	19.50
		1	2	17.98	18.21	18.20	19.50
		1	5	18.16	17.67	17.91	19.50
		3	0	18.01	18.42	18.16	19.50
		3	2	18.55	18.31	18.40	19.50
		3	3	18.28	17.85	18.00	19.50
		6	0	17.27	17.33	17.25	18.50
	64QAM	1	0	16.97	17.04	17.09	18.50
		1	2	17.29	17.63	17.34	18.50
		1	5	16.79	16.71	16.79	18.50
		3	0	17.29	17.15	17.22	18.50
		3	2	17.17	16.69	17.30	18.50
		3	3	17.44	17.20	16.95	18.50
		6	0	15.92	16.17	15.69	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26915/836.5	26915/836.5	27025/847.5	
3MHz	QPSK	1	0	19.50	19.49	19.25	20.50
		1	7	19.45	19.67	19.43	20.50
		1	14	19.46	19.40	19.55	20.50
		8	0	18.28	18.60	18.57	19.50
		8	4	18.41	18.33	18.68	19.50
		8	7	18.45	18.16	18.10	19.50
		15	0	18.84	18.55	18.54	19.50
	16QAM	1	0	17.99	17.84	18.08	19.50
		1	7	17.74	18.57	18.02	19.50
		1	14	17.96	17.61	17.95	19.50
		8	0	17.21	17.38	17.40	18.50
		8	4	17.49	17.47	17.34	18.50
		8	7	17.02	17.05	17.20	18.50
		15	0	17.37	17.19	17.07	18.50
	64QAM	1	0	16.79	16.96	16.91	18.50
		1	7	17.69	17.47	17.28	18.50
		1	14	16.77	16.93	16.95	18.50
		8	0	16.25	16.41	16.34	17.50
		8	4	16.33	16.19	16.28	17.50
		8	7	16.30	15.94	16.03	17.50
		15	0	16.02	16.29	15.89	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26815/826.5	26915/836.5	27015/846.5	

5MHz	QPSK	1	0	19.26	19.41	19.31	20.50
		1	13	19.31	19.71	19.25	20.50
		1	24	19.34	19.26	19.61	20.50
		12	0	18.26	18.70	18.57	19.50
		12	6	18.57	18.01	18.60	19.50
		12	13	18.43	18.08	18.04	19.50
		25	0	18.40	18.55	18.78	19.50
	16QAM	1	0	18.05	18.16	18.00	19.50
		1	13	18.02	18.37	18.08	19.50
		1	24	17.98	17.55	17.75	19.50
		12	0	17.29	17.54	17.20	18.50
		12	6	17.53	17.49	17.56	18.50
		12	13	17.30	17.15	17.14	18.50
		25	0	17.37	17.23	17.17	18.50
	64QAM	1	0	17.03	16.82	17.03	18.50
		1	13	17.41	17.55	17.14	18.50
		1	24	16.81	16.85	16.89	18.50
		12	0	16.45	16.21	16.26	17.50
		12	6	16.15	16.01	16.32	17.50
		12	13	16.36	16.28	16.21	17.50
		25	0	16.02	15.93	15.75	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26840/829	26915/836.5	26990/844	
10MHz	QPSK	1	0	19.42	19.63	19.39	20.50
		1	25	19.19	19.83	19.69	20.50
		1	49	19.34	19.46	19.53	20.50
		25	0	18.56	18.54	18.71	19.50
		25	13	18.33	18.17	18.50	19.50
		25	25	18.49	18.22	18.08	19.50
		50	0	18.72	18.61	18.72	19.50
	16QAM	1	0	18.15	17.78	18.00	19.50
		1	25	17.66	18.49	18.22	19.50
		1	49	17.86	17.73	18.03	19.50
		25	0	17.25	17.42	17.44	18.50
		25	13	17.41	17.17	17.26	18.50
		25	25	17.16	17.21	17.16	18.50
		50	0	17.13	17.03	17.01	18.50
	64QAM	1	0	16.71	17.18	17.19	18.50
		1	25	17.67	17.27	17.48	18.50
		1	49	16.93	16.99	16.85	18.50
		25	0	16.37	16.39	16.08	17.50
		25	13	16.45	16.13	16.04	17.50
		25	25	16.32	16.18	16.07	17.50

		50	0	16.14	16.25	16.09	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26865/831.5	26915/836.5	26965/841.5	
15MHz	QPSK	1	0	19.42	19.61	19.27	20.50
		1	38	19.29	19.79	19.41	20.50
		1	74	19.56	19.28	19.47	20.50
		36	0	18.50	18.56	18.41	19.50
		36	18	18.65	18.23	18.76	19.50
		36	39	18.61	18.32	18.00	19.50
		75	0	18.64	18.53	18.68	19.50
	16QAM	1	0	18.03	18.08	18.02	19.50
		1	38	17.98	18.55	18.22	19.50
		1	74	18.00	17.65	17.91	19.50
		36	0	17.35	17.48	17.40	18.50
		36	18	17.43	17.47	17.44	18.50
		36	39	17.24	17.01	17.26	18.50
		75	0	17.29	17.39	17.07	18.50
	64QAM	1	0	16.91	16.94	16.97	18.50
		1	38	17.49	17.59	17.32	18.50
		1	74	16.81	17.07	16.97	18.50
		36	0	16.31	16.19	16.36	17.50
		36	18	16.39	16.07	16.30	17.50
		36	39	16.36	16.12	16.21	17.50
		75	0	16.04	16.09	15.93	17.50

LTE B30							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				27685/2307.5	27710/2310	27735/2312.5	
5MHz	QPSK	1	0	23.14	23.06	22.82	24.50
		1	13	22.93	23.09	22.95	24.50
		1	24	22.71	22.89	22.57	24.50
		12	0	21.99	22.05	21.99	23.50
		12	6	21.69	21.81	21.91	23.50
		12	13	21.79	21.69	21.75	23.50
		25	0	22.00	21.76	21.90	23.50
	16QAM	1	0	21.84	21.88	21.68	23.50
		1	13	21.83	21.93	21.87	23.50
		1	24	21.69	21.66	21.59	23.50
		12	0	20.82	21.10	20.70	22.50
		12	6	21.13	21.01	21.11	22.50
		12	13	20.84	21.00	20.86	22.50
		25	0	20.90	20.82	20.76	22.50

	64QAM	1	0	20.85	21.03	20.91	22.50
		1	13	21.17	21.37	21.29	22.50
		1	24	20.63	20.91	20.81	22.50
		12	0	20.11	20.17	19.97	21.50
		12	6	20.16	20.16	19.96	21.50
		12	13	19.85	20.17	19.79	21.50
		25	0	19.86	19.80	19.82	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	27710/2310	/	
10MHz	QPSK	1	0	/	22.98	/	24.50
		1	25	/	22.97	/	24.50
		1	49	/	22.73	/	24.50
		25	0	/	21.91	/	23.50
		25	13	/	21.81	/	23.50
		25	25	/	21.79	/	23.50
		50	0	/	21.88	/	23.50
	16QAM	1	0	/	21.86	/	23.50
		1	25	/	21.95	/	23.50
		1	49	/	21.55	/	23.50
		25	0	/	20.88	/	22.50
		25	13	/	21.13	/	22.50
		25	25	/	20.82	/	22.50
		50	0	/	20.90	/	22.50
	64QAM	1	0	/	20.83	/	22.50
		1	25	/	21.27	/	22.50
		1	49	/	20.73	/	22.50
		25	0	/	20.05	/	21.50
		25	13	/	20.06	/	21.50
		25	25	/	19.97	/	21.50
		50	0	/	19.80	/	21.50
LTE B30							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				27685/2307.5	27710/2310	27735/2312.5	
5MHz	QPSK	1	0	14.84	14.68	14.70	15.50
		1	13	14.87	14.89	15.03	15.50
		1	24	14.71	14.53	14.67	15.50
		12	0	13.77	13.87	13.75	14.50
		12	6	13.73	13.65	13.51	14.50
		12	13	13.39	13.51	13.45	14.50
		25	0	13.74	13.62	13.84	14.50
	16QAM	1	0	13.90	13.90	13.88	14.50
		1	13	13.59	13.49	13.55	14.50

		1	24	13.49	13.47	13.57	14.50
		12	0	12.68	12.56	12.72	13.50
		12	6	12.89	12.67	12.83	13.50
		12	13	12.46	12.58	12.66	13.50
		25	0	12.82	12.66	12.90	13.50
	64QAM	1	0	12.85	12.61	12.57	13.50
		1	13	13.15	13.01	13.11	13.50
		1	24	12.71	12.85	12.83	13.50
		12	0	12.07	11.91	12.05	12.50
		12	6	11.70	11.60	11.84	12.50
		12	13	11.89	11.73	11.79	12.50
		25	0	11.58	11.50	11.62	12.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	27710/2310	/	
10MHz	QPSK	1	0	/	14.72	/	15.50
		1	25	/	14.85	/	15.50
		1	49	/	14.61	/	15.50
		25	0	/	13.79	/	14.50
		25	13	/	13.59	/	14.50
		25	25	/	13.51	/	14.50
		50	0	/	13.68	/	14.50
	16QAM	1	0	/	13.74	/	14.50
		1	25	/	13.61	/	14.50
		1	49	/	13.55	/	14.50
		25	0	/	12.58	/	13.50
		25	13	/	12.75	/	13.50
		25	25	/	12.50	/	13.50
		50	0	/	12.78	/	13.50
	64QAM	1	0	/	12.69	/	13.50
		1	25	/	13.09	/	13.50
		1	49	/	12.69	/	13.50
		25	0	/	11.99	/	12.50
		25	13	/	11.72	/	12.50
		25	25	/	11.83	/	12.50
		50	0	/	11.52	/	12.50
LTE B38							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	23.07	23.03	22.98	24.00
		1	13	23.32	23.39	23.30	24.00
		1	24	23.23	23.02	23.07	24.00
		12	0	22.58	22.69	22.65	23.00

		12	6	22.44	22.29	22.20	23.00
		12	13	22.31	22.23	21.99	23.00
		25	0	22.58	22.29	22.25	23.00
	16QAM	1	0	21.62	21.82	21.76	23.00
		1	13	22.24	22.38	22.07	23.00
		1	24	21.74	21.62	21.55	23.00
		12	0	21.44	21.57	21.40	22.00
		12	6	21.40	21.25	21.26	22.00
		12	13	21.21	21.08	21.13	22.00
		25	0	21.15	21.20	21.10	22.00
	64QAM	1	0	20.77	20.86	20.80	22.00
		1	13	21.47	21.47	21.13	22.00
		1	24	20.86	20.79	20.64	22.00
		12	0	20.58	20.41	20.30	21.00
		12	6	20.39	20.36	20.37	21.00
		12	13	20.43	20.05	20.21	21.00
		25	0	20.36	20.26	20.13	21.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	23.13	22.99	22.82	24.00
		1	25	23.36	23.39	23.48	24.00
		1	49	23.15	23.08	23.13	24.00
		25	0	22.60	22.61	22.57	23.00
		25	13	22.32	22.39	22.26	23.00
		25	25	22.35	22.15	22.09	23.00
		50	0	22.58	22.43	22.15	23.00
	16QAM	1	0	21.70	22.00	21.52	23.00
		1	25	22.20	22.36	22.13	23.00
		1	49	21.68	21.85	21.51	23.00
		25	0	21.52	21.72	21.47	22.00
		25	13	21.30	21.40	21.31	22.00
		25	25	21.37	20.95	21.20	22.00
		50	0	21.11	21.53	21.25	22.00
	64QAM	1	0	20.75	20.97	20.60	22.00
		1	25	21.45	21.62	21.13	22.00
		1	49	21.00	20.75	20.74	22.00
		25	0	20.48	20.61	20.38	21.00
		25	13	20.39	20.14	20.41	21.00
		25	25	20.53	20.15	19.97	21.00
		50	0	20.30	20.26	20.19	21.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	23.15	22.89	23.12	24.00

		1	38	23.24	23.39	23.12	24.00
		1	74	23.31	23.24	23.03	24.00
		36	0	22.54	22.87	22.37	23.00
		36	18	22.32	22.17	22.38	23.00
		36	39	22.49	22.11	21.95	23.00
		75	0	22.66	22.45	22.15	23.00
		1	0	21.64	21.78	21.62	23.00
	16QAM	1	38	22.26	22.26	22.15	23.00
		1	74	21.72	21.80	21.53	23.00
		36	0	21.38	21.39	21.18	22.00
		36	18	21.48	21.39	20.96	22.00
		36	39	21.09	20.86	21.09	22.00
		75	0	21.23	21.26	21.24	22.00
	64QAM	1	0	20.72	20.87	20.90	22.00
		1	38	21.44	21.44	21.25	22.00
		1	74	20.77	20.93	20.74	22.00
		36	0	20.66	20.41	20.54	21.00
		36	18	20.59	20.14	20.25	21.00
		36	39	20.55	19.97	19.99	21.00
		75	0	20.24	20.18	20.35	21.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	23.03	22.97	22.92	24.00
		1	50	23.20	23.25	23.30	24.00
		1	99	23.11	23.06	23.13	24.00
		50	0	22.60	22.69	22.49	23.00
		50	25	22.40	22.31	22.28	23.00
		50	50	22.37	22.11	22.09	23.00
		100	0	22.46	22.31	22.21	23.00
	16QAM	1	0	21.62	21.82	21.62	23.00
		1	50	22.30	22.36	22.15	23.00
		1	99	21.64	21.60	21.51	23.00
		50	0	21.40	21.45	21.32	22.00
		50	25	21.42	21.17	21.12	22.00
		50	50	21.23	20.92	21.03	22.00
		100	0	21.23	21.24	21.08	22.00
	64QAM	1	0	20.82	20.89	20.72	22.00
		1	50	21.56	21.58	21.07	22.00
		1	99	20.95	20.79	20.66	22.00
		50	0	20.48	20.49	20.38	21.00
		50	25	20.39	20.22	20.27	21.00
		50	50	20.37	20.03	20.07	21.00
		100	0	20.30	20.10	20.17	21.00

LTE B38							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	15.97	15.09	15.68	17.00
		1	13	16.36	16.27	16.26	17.00
		1	24	15.55	15.56	15.71	17.00
		12	0	15.14	15.31	15.09	16.00
		12	6	14.94	14.75	15.12	16.00
		12	13	14.83	14.65	14.95	16.00
		25	0	14.94	15.39	14.89	16.00
	16QAM	1	0	14.79	14.75	14.29	16.00
		1	13	15.31	15.33	15.50	16.00
		1	24	14.61	14.81	14.58	16.00
		12	0	14.24	14.17	14.10	15.00
		12	6	14.24	13.87	14.11	15.00
		12	13	14.09	13.93	14.48	15.00
		25	0	14.04	14.67	14.23	15.00
	64QAM	1	0	13.74	13.27	13.50	15.00
		1	13	14.20	14.34	13.87	15.00
		1	24	13.43	13.53	13.66	15.00
		12	0	13.52	13.35	13.00	14.00
		12	6	13.33	13.08	12.93	14.00
		12	13	13.31	12.84	12.64	14.00
		25	0	13.30	13.37	13.06	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	15.97	15.51	15.74	17.00
		1	25	16.48	16.09	16.04	17.00
		1	49	15.63	15.66	15.45	17.00
		25	0	15.32	15.49	15.41	16.00
		25	13	15.32	14.75	15.30	16.00
		25	25	15.19	14.63	14.87	16.00
		50	0	15.06	15.21	14.65	16.00
	16QAM	1	0	14.73	14.67	14.67	16.00
		1	25	15.19	15.15	15.40	16.00
		1	49	14.57	14.73	14.76	16.00
		25	0	14.08	14.23	14.02	15.00
		25	13	14.60	14.05	14.03	15.00
		25	25	14.33	14.25	14.42	15.00
		50	0	14.52	14.43	14.27	15.00
	64QAM	1	0	13.44	13.25	13.38	15.00
		1	25	14.46	14.54	13.71	15.00

		1	49	13.47	13.71	13.76	15.00
		25	0	13.50	13.53	13.34	14.00
		25	13	13.11	13.06	13.03	14.00
		25	25	13.23	13.06	12.68	14.00
		50	0	13.44	13.21	13.36	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	15.87	15.51	15.82	17.00
		1	38	16.26	16.09	16.30	17.00
		1	74	15.57	15.80	15.67	17.00
		36	0	15.08	15.39	15.43	16.00
		36	18	15.18	14.95	15.24	16.00
		36	39	15.25	14.69	14.97	16.00
		75	0	15.14	15.13	14.77	16.00
	16QAM	1	0	14.93	15.01	14.45	16.00
		1	38	15.51	15.33	15.40	16.00
		1	74	14.75	14.77	14.64	16.00
		36	0	14.04	14.23	14.04	15.00
		36	18	14.58	13.95	14.09	15.00
		36	39	14.15	14.21	14.74	15.00
		75	0	14.38	14.51	14.43	15.00
	64QAM	1	0	13.54	13.41	13.28	15.00
		1	38	14.20	14.48	13.79	15.00
		1	74	13.41	13.55	13.56	15.00
		36	0	13.26	13.49	13.28	14.00
		36	18	13.13	13.10	12.73	14.00
		36	39	13.17	13.06	12.62	14.00
		75	0	13.32	13.19	13.32	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	15.97	15.45	15.64	17.00
		1	50	16.26	16.05	16.22	17.00
		1	99	15.41	15.76	15.51	17.00
		50	0	15.16	15.49	15.33	16.00
		50	25	15.26	14.93	15.16	16.00
		50	50	15.13	14.71	15.01	16.00
		100	0	15.00	15.23	14.73	16.00
	16QAM	1	0	14.81	14.83	14.53	16.00
		1	50	15.35	15.23	15.38	16.00
		1	99	14.75	14.83	14.60	16.00
		50	0	14.12	14.19	14.10	15.00
		50	25	14.40	14.03	14.13	15.00
		50	50	14.17	14.03	14.60	15.00

		100	0	14.30	14.45	14.27	15.00
	64QAM	1	0	13.46	13.39	13.32	15.00
		1	50	14.24	14.58	13.73	15.00
		1	99	13.47	13.57	13.66	15.00
		50	0	13.38	13.31	13.16	14.00
		50	25	13.15	13.08	12.81	14.00
		50	50	13.15	13.00	12.72	14.00
		100	0	13.42	13.31	13.26	14.00

LTE B41									
Sensor off				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	22.19	22.62	22.36	22.57	22.76	24.00
		1	13	22.54	22.70	22.74	22.58	22.84	24.00
		1	24	22.41	22.65	22.57	22.27	22.85	24.00
		12	0	21.37	21.30	21.30	21.45	21.80	23.00
		12	6	21.45	21.53	21.51	21.41	21.73	23.00
		12	13	21.27	21.28	21.50	21.37	21.62	23.00
		25	0	21.28	21.44	21.40	21.54	21.98	23.00
	16QAM	1	0	21.26	21.27	21.27	21.20	21.27	23.00
		1	13	21.26	21.42	21.56	21.66	21.48	23.00
		1	24	21.21	21.27	21.17	21.05	21.37	23.00
		12	0	20.12	20.35	20.39	20.12	20.69	22.00
		12	6	20.47	20.38	20.56	20.87	20.56	22.00
		12	13	20.24	20.32	20.44	20.66	20.42	22.00
		25	0	20.24	20.32	20.52	20.78	20.74	22.00
	64QAM	1	0	20.22	20.12	20.12	20.06	20.14	22.00
		1	13	20.18	20.73	20.51	20.18	20.65	22.00
		1	24	20.10	20.06	20.16	20.14	20.12	22.00
		12	0	19.30	19.33	19.27	19.36	19.57	21.00
		12	6	19.62	19.43	19.45	19.52	19.21	21.00
		12	13	19.32	19.27	19.21	19.42	19.57	21.00
		25	0	19.47	19.15	19.25	19.73	19.21	21.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	22.23	22.74	22.46	22.59	22.80	24.00
		1	25	22.94	22.66	22.94	22.66	22.66	24.00
		1	49	22.17	22.53	22.69	22.45	22.59	24.00
		25	0	21.57	21.54	21.66	21.25	21.68	23.00
		25	13	21.35	21.71	21.69	21.53	21.55	23.00
		25	25	21.47	21.64	21.54	21.39	21.74	23.00
		50	0	21.62	21.40	21.36	21.74	21.84	23.00

	16QAM	1	0	21.04	21.29	21.19	21.20	21.13	23.00
		1	25	21.64	21.50	21.50	21.74	21.44	23.00
		1	49	21.13	21.31	21.13	21.17	21.25	23.00
		25	0	20.32	20.29	20.47	20.04	20.45	22.00
		25	13	20.63	20.68	20.58	20.73	20.90	22.00
		25	25	20.58	20.46	20.32	20.68	20.52	22.00
		50	0	20.40	20.44	20.66	20.92	20.40	22.00
	64QAM	1	0	20.12	20.12	20.16	20.06	20.24	22.00
		1	25	20.14	20.57	20.49	20.30	20.85	22.00
		1	49	20.14	20.06	20.04	20.20	20.14	22.00
		25	0	19.56	19.39	19.35	19.40	19.63	21.00
		25	13	19.62	19.49	19.43	19.64	19.45	21.00
		25	25	19.56	19.59	19.47	19.46	19.65	21.00
		50	0	19.63	19.31	19.17	19.51	19.25	21.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	22.51	22.70	22.28	22.33	22.58	24.00
		1	38	22.78	22.82	22.90	22.42	22.68	24.00
		1	74	22.21	22.59	22.53	22.03	22.81	24.00
		36	0	21.55	21.34	21.62	21.37	21.60	23.00
		36	18	21.61	21.63	21.59	21.47	21.57	23.00
		36	39	21.29	21.44	21.56	21.37	21.46	23.00
		75	0	21.36	21.68	21.66	21.72	21.96	23.00
	16QAM	1	0	21.30	21.17	21.33	21.22	21.11	23.00
		1	38	21.46	21.40	21.48	21.68	21.46	23.00
		1	74	21.11	21.31	21.37	21.01	21.47	23.00
		36	0	20.14	20.43	20.23	20.28	20.67	22.00
		36	18	20.61	20.68	20.44	20.67	20.72	22.00
		36	39	20.52	20.54	20.50	20.72	20.52	22.00
		75	0	20.60	20.38	20.66	20.78	20.62	22.00
	64QAM	1	0	20.02	20.00	20.04	20.06	20.20	22.00
		1	38	20.16	20.75	20.79	20.20	20.55	22.00
		1	74	20.02	20.14	20.14	20.04	20.12	22.00
		36	0	19.42	19.49	19.35	19.36	19.33	21.00
		36	18	19.68	19.33	19.53	19.36	19.17	21.00
		36	39	19.46	19.45	19.51	19.54	19.39	21.00
		75	0	19.57	19.39	19.53	19.57	19.31	21.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	22.39	22.52	22.36	22.32	22.13	24.00
		1	50	22.72	22.76	22.78	22.80	22.45	24.00
		1	99	22.31	22.57	22.49	22.31	22.33	24.00
		50	0	21.41	21.44	21.46	21.42	21.10	23.00

		50	25	21.51	21.69	21.65	21.65	21.36	23.00
		50	50	21.41	21.48	21.58	21.40	21.12	23.00
		100	0	21.48	21.58	21.52	21.54	21.19	23.00
	16QAM	1	0	21.18	21.21	21.25	21.21	21.03	23.00
		1	50	21.42	21.48	21.52	21.40	21.26	23.00
		1	99	21.11	21.27	21.21	21.03	21.03	23.00
		50	0	20.20	20.39	20.35	20.33	20.28	22.00
		50	25	20.59	20.50	20.54	20.44	20.14	22.00
		50	50	20.42	20.52	20.46	20.54	20.12	22.00
		100	0	20.44	20.46	20.50	20.34	20.19	22.00
	64QAM	1	0	20.16	20.02	20.04	20.16	20.02	22.00
		1	50	20.12	20.75	20.61	20.49	20.36	22.00
		1	99	20.04	20.20	20.14	20.14	20.19	22.00
		50	0	19.42	19.31	19.37	19.33	19.11	21.00
		50	25	19.56	19.39	19.49	19.31	19.22	21.00
		50	50	19.42	19.43	19.35	19.41	19.20	21.00
		100	0	19.59	19.33	19.35	19.43	19.27	21.00
LTE B41									
Sensor on				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	16.20	16.35	16.01	16.14	15.97	17.00
		1	13	16.41	16.53	16.45	16.42	15.79	17.00
		1	24	15.74	16.12	16.02	15.52	15.92	17.00
		12	0	15.24	14.99	15.13	14.80	15.10	16.00
		12	6	15.24	15.44	15.14	14.96	15.08	16.00
		12	13	14.74	14.85	15.31	15.06	14.71	16.00
		25	0	14.95	15.31	15.05	15.37	14.86	16.00
	16QAM	1	0	14.73	14.70	15.02	14.35	14.58	16.00
		1	13	15.25	14.99	15.05	15.29	14.83	16.00
		1	24	14.30	15.04	15.00	14.24	14.82	16.00
		12	0	13.95	14.57	14.43	14.11	14.08	15.00
		12	6	14.32	14.39	14.29	14.24	14.19	15.00
		12	13	14.39	14.31	14.19	14.67	13.93	15.00
		25	0	14.47	14.15	14.59	14.55	14.07	15.00
	64QAM	1	0	13.92	13.80	13.86	13.86	13.62	15.00
		1	13	14.12	14.69	14.70	13.88	14.30	15.00
		1	24	13.86	13.88	14.04	14.14	13.66	15.00
		12	0	13.44	13.51	13.55	13.48	13.21	14.00
		12	6	13.40	13.20	13.07	13.46	13.15	14.00
		12	13	13.51	13.42	13.34	13.33	13.18	14.00
		25	0	13.61	13.73	13.49	13.30	13.15	14.00
Bandwidth	Modulation	RB	Offset	Channel/Frequency(MHz)					Tune-up

		Allocation		39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	16.08	16.11	15.97	16.06	15.69	17.00
		1	25	16.29	16.59	16.53	16.72	15.89	17.00
		1	49	15.74	16.14	15.96	15.68	15.94	17.00
		25	0	15.20	14.99	15.45	14.98	14.96	16.00
		25	13	15.18	15.20	15.26	14.76	14.86	16.00
		25	25	14.78	14.83	15.35	14.98	14.59	16.00
		50	0	14.83	15.15	14.99	15.29	15.10	16.00
	16QAM	1	0	14.89	14.56	15.04	14.35	14.54	16.00
		1	25	15.19	15.09	15.17	15.27	14.89	16.00
		1	49	14.46	15.02	14.92	14.14	14.84	16.00
		25	0	13.85	14.63	14.53	14.03	13.82	15.00
		25	13	14.28	14.49	14.21	14.52	14.13	15.00
		25	25	14.33	14.19	14.23	14.43	13.83	15.00
		50	0	14.49	14.15	14.55	14.59	14.17	15.00
	64QAM	1	0	13.66	13.60	13.76	13.82	13.48	15.00
		1	25	14.12	14.75	14.78	13.98	14.45	15.00
		1	49	13.70	13.88	13.94	13.98	13.60	15.00
		25	0	13.34	13.79	13.49	13.30	13.17	14.00
		25	13	13.14	13.26	13.25	13.36	13.27	14.00
		25	25	13.41	13.14	13.60	13.31	13.24	14.00
		50	0	13.65	13.45	13.57	13.28	12.95	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	16.08	16.33	15.97	16.02	15.75	17.00
		1	38	16.31	16.47	16.43	16.64	15.83	17.00
		1	74	15.86	16.10	16.04	15.48	16.08	17.00
		36	0	15.22	14.85	15.13	14.80	15.10	16.00
		36	18	15.16	15.46	15.18	14.92	14.98	16.00
		36	39	14.84	15.01	15.33	15.06	14.51	16.00
		75	0	14.91	15.43	15.21	15.31	15.08	16.00
	16QAM	1	0	14.57	14.60	15.04	14.47	14.46	16.00
		1	38	15.07	14.85	15.15	15.37	14.75	16.00
		1	74	14.40	15.04	14.88	14.10	15.02	16.00
		36	0	14.09	14.67	14.31	14.25	13.96	15.00
		36	18	14.60	14.41	14.25	14.42	13.95	15.00
		36	39	14.25	14.25	14.21	14.75	13.89	15.00
		75	0	14.33	13.93	14.73	14.55	14.27	15.00
	64QAM	1	0	13.68	13.74	13.84	13.94	13.54	15.00
		1	38	14.28	14.75	14.54	14.04	14.32	15.00
		1	74	13.78	13.86	13.78	14.12	13.72	15.00
		36	0	13.44	13.59	13.77	13.46	13.13	14.00
		36	18	13.18	13.00	13.13	13.40	13.03	14.00

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	36	39	13.45	13.46	13.38	13.47	12.96	14.00
		75	0	13.73	13.81	13.43	13.16	13.15	14.00
		1	0	16.16	16.19	15.91	16.00	15.87	17.00
		1	50	16.33	16.47	16.33	16.52	15.85	17.00
		1	99	15.74	16.04	15.96	15.58	15.90	17.00
		50	0	15.16	14.85	15.23	14.80	15.00	16.00
		50	25	15.28	15.32	15.24	14.88	14.92	16.00
	16QAM	50	50	14.84	14.87	15.19	15.08	14.63	16.00
		100	0	14.81	15.29	15.09	15.29	14.90	16.00
		1	0	14.67	14.64	14.86	14.39	14.46	16.00
		1	50	15.11	14.89	14.97	15.39	14.69	16.00
		1	99	14.36	14.90	14.98	14.18	14.84	16.00
		50	0	13.93	14.61	14.33	14.21	14.00	15.00
		50	25	14.42	14.33	14.17	14.34	14.05	15.00
	64QAM	50	50	14.29	14.35	14.21	14.61	14.01	15.00
		100	0	14.43	14.03	14.55	14.51	14.11	15.00
		1	0	13.78	13.72	13.76	13.84	13.50	15.00
		1	50	14.14	14.75	14.58	13.96	14.53	15.00
		1	99	13.88	13.90	13.90	14.02	13.62	15.00
		50	0	13.52	13.57	13.63	13.36	13.17	14.00
		50	25	13.30	13.08	13.09	13.38	13.05	14.00
		50	50	13.39	13.28	13.38	13.37	13.08	14.00
		100	0	13.59	13.63	13.53	13.28	12.99	14.00

LTE B66							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	23.20	23.34	23.16	24.50
		1	2	23.57	23.87	23.40	24.50
		1	5	23.36	23.34	23.27	24.50
		3	0	23.35	23.42	22.93	24.50
		3	2	23.04	23.31	23.14	24.50
		3	3	23.29	23.25	22.85	24.50
		6	0	22.48	22.20	22.13	23.50
	16QAM	1	0	21.91	22.22	22.31	23.50
		1	2	22.26	22.74	22.20	23.50
		1	5	22.11	22.02	21.64	23.50
		3	0	21.99	22.19	22.16	23.50
		3	2	22.24	22.09	22.16	23.50
		3	3	22.23	22.20	21.82	23.50

		6	0	21.43	21.34	21.08	22.50
	64QAM	1	0	21.29	21.32	21.15	22.50
		1	2	21.75	21.75	21.67	22.50
		1	5	21.29	21.17	20.89	22.50
		3	0	21.32	21.25	20.94	22.50
		3	2	21.38	21.15	21.12	22.50
		3	3	21.04	20.94	21.17	22.50
		6	0	20.12	20.30	20.01	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	23.26	23.52	23.22	24.50
		1	7	23.59	23.79	23.46	24.50
		1	14	23.26	23.42	23.11	24.50
		8	0	22.25	22.38	22.33	23.50
		8	4	22.34	22.19	22.28	23.50
		8	7	22.33	22.11	22.27	23.50
		15	0	22.42	22.38	22.17	23.50
	16QAM	1	0	22.09	22.52	22.23	23.50
		1	7	22.28	22.64	22.36	23.50
		1	14	22.03	22.08	21.96	23.50
		8	0	21.31	21.39	21.28	22.50
		8	4	21.42	21.25	21.20	22.50
		8	7	21.31	21.10	21.14	22.50
		15	0	21.29	21.22	21.20	22.50
	64QAM	1	0	21.39	21.52	20.99	22.50
		1	7	21.59	21.85	21.63	22.50
		1	14	21.11	21.21	20.93	22.50
		8	0	20.24	20.49	20.16	21.50
		8	4	20.36	20.25	20.36	21.50
		8	7	20.40	20.18	20.21	21.50
		15	0	20.24	20.36	20.03	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	23.18	23.56	23.12	24.50
		1	13	23.51	23.67	23.52	24.50
		1	24	23.02	23.46	23.23	24.50
		12	0	22.21	22.26	22.23	23.50
		12	6	22.30	22.23	22.06	23.50
		12	13	22.15	22.07	22.09	23.50
		25	0	22.34	22.10	22.11	23.50
	16QAM	1	0	21.97	22.30	21.99	23.50
		1	13	22.46	22.48	22.24	23.50
		1	24	21.97	21.94	21.80	23.50

		12	0	21.13	21.19	20.98	22.50
		12	6	21.48	21.21	21.36	22.50
		12	13	21.33	21.18	20.94	22.50
		25	0	21.41	21.08	20.94	22.50
	64QAM	1	0	21.07	21.40	20.97	22.50
		1	13	21.55	21.75	21.79	22.50
		1	24	21.07	21.35	20.95	22.50
		12	0	20.32	20.21	20.10	21.50
		12	6	20.24	20.41	20.04	21.50
		12	13	20.26	20.34	20.13	21.50
		25	0	20.14	20.30	19.85	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	23.08	23.46	23.30	24.50
		1	25	23.67	23.83	23.66	24.50
		1	49	23.30	23.32	23.29	24.50
		25	0	22.31	22.56	22.05	23.50
		25	13	22.48	22.41	22.14	23.50
		25	25	22.27	22.21	22.07	23.50
		50	0	22.52	22.42	22.05	23.50
	16QAM	1	0	21.89	22.56	22.01	23.50
		1	25	22.54	22.38	22.14	23.50
		1	49	21.97	22.24	22.00	23.50
		25	0	21.19	21.47	21.02	22.50
		25	13	21.54	21.37	21.26	22.50
		25	25	21.37	21.36	21.18	22.50
		50	0	21.27	21.32	21.16	22.50
	64QAM	1	0	21.27	21.24	21.11	22.50
		1	25	21.81	21.83	21.75	22.50
		1	49	21.17	21.45	21.05	22.50
		25	0	20.26	20.27	20.36	21.50
		25	13	20.22	20.43	20.08	21.50
		25	25	20.46	20.26	20.15	21.50
		50	0	20.32	20.18	20.01	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	23.18	23.60	23.20	24.50
		1	38	23.43	23.83	23.62	24.50
		1	74	23.26	23.34	23.25	24.50
		36	0	22.33	22.34	22.33	23.50
		36	18	22.46	22.45	22.22	23.50
		36	39	22.11	22.19	22.25	23.50
		75	0	22.46	22.20	22.23	23.50

	16QAM	1	0	22.11	22.52	22.11	23.50
		1	38	22.48	22.56	22.42	23.50
		1	74	21.99	22.28	21.86	23.50
		36	0	21.27	21.21	21.18	22.50
		36	18	21.50	21.37	21.34	22.50
		36	39	21.35	21.30	21.22	22.50
		75	0	21.37	21.32	21.00	22.50
	64QAM	1	0	21.39	21.44	21.05	22.50
		1	38	21.83	21.63	21.67	22.50
		1	74	21.29	21.35	20.91	22.50
		36	0	20.34	20.25	20.18	21.50
		36	18	20.40	20.43	20.34	21.50
		36	39	20.18	20.12	20.23	21.50
		75	0	20.18	20.16	20.15	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	23.10	23.46	23.24	24.50
		1	50	23.45	23.83	23.50	24.50
		1	99	23.12	23.36	23.19	24.50
		50	0	22.27	22.36	22.23	23.50
		50	25	22.30	22.29	22.22	23.50
		50	50	22.21	22.19	22.13	23.50
		100	0	22.30	22.30	22.13	23.50
	16QAM	1	0	22.07	22.36	22.11	23.50
		1	50	22.36	22.50	22.24	23.50
		1	99	21.91	22.12	21.80	23.50
		50	0	21.19	21.25	21.16	22.50
		50	25	21.42	21.31	21.26	22.50
		50	50	21.33	21.20	21.04	22.50
		100	0	21.33	21.20	21.06	22.50
	64QAM	1	0	21.27	21.40	21.01	22.50
		1	50	21.65	21.73	21.69	22.50
		1	99	21.11	21.25	20.99	22.50
		50	0	20.26	20.35	20.22	21.50
		50	25	20.38	20.31	20.22	21.50
		50	50	20.26	20.24	20.13	21.50
		100	0	20.20	20.22	19.99	21.50
LTE B66							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	15.78	15.86	15.62	17.50
		1	2	15.95	15.91	16.12	17.50

		1	5	15.88	15.76	15.51	17.50
		3	0	15.57	15.72	15.68	17.50
		3	2	15.76	15.61	15.60	17.50
		3	3	15.69	15.69	15.57	17.50
		6	0	14.78	14.64	14.57	16.50
	16QAM	1	0	14.88	15.37	15.14	16.50
		1	2	15.23	15.51	15.39	16.50
		1	5	14.94	15.13	14.73	16.50
		3	0	14.57	14.69	14.76	16.50
		3	2	15.10	14.79	14.64	16.50
		3	3	14.63	14.72	14.66	16.50
		6	0	13.77	13.86	13.92	15.50
	64QAM	1	0	13.99	14.12	13.67	15.50
		1	2	14.33	14.27	14.59	15.50
		1	5	13.83	13.67	13.63	15.50
		3	0	13.92	13.95	13.72	15.50
		3	2	13.94	13.73	13.58	15.50
		3	3	13.76	13.68	13.91	15.50
		6	0	12.84	13.06	12.69	14.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	15.52	15.92	15.86	17.50
		1	7	15.69	16.09	15.76	17.50
		1	14	15.82	15.74	15.73	17.50
		8	0	14.85	14.98	14.59	16.50
		8	4	14.96	14.69	14.68	16.50
		8	7	14.69	14.57	14.63	16.50
		15	0	14.76	14.72	14.69	16.50
	16QAM	1	0	14.94	15.59	15.14	16.50
		1	7	15.09	15.65	14.93	16.50
		1	14	14.92	15.31	15.09	16.50
		8	0	13.57	13.73	13.56	15.50
		8	4	14.08	13.93	13.68	15.50
		8	7	13.91	13.64	13.86	15.50
		15	0	13.91	13.62	13.72	15.50
	64QAM	1	0	13.87	14.16	13.91	15.50
		1	7	14.13	14.47	14.31	15.50
		1	14	13.79	13.83	13.67	15.50
		8	0	12.58	12.95	12.74	14.50
		8	4	13.06	13.03	12.80	14.50
		8	7	12.72	12.78	13.01	14.50
		15	0	12.70	13.04	12.71	14.50
Bandwidth	Modulation	RB	Offset	Channel/Frequency(MHz)			Tune-up

		Allocation		131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	15.64	15.84	15.64	17.50
		1	13	15.83	16.03	16.08	17.50
		1	24	15.82	15.94	15.59	17.50
		12	0	14.81	15.04	14.81	16.50
		12	6	14.82	14.65	14.90	16.50
		12	13	14.79	14.65	14.63	16.50
		25	0	14.76	14.64	14.53	16.50
	16QAM	1	0	15.08	15.45	15.08	16.50
		1	13	15.31	15.47	15.23	16.50
		1	24	14.96	15.17	14.97	16.50
		12	0	13.67	14.05	13.74	15.50
		12	6	14.22	14.01	13.84	15.50
		12	13	13.97	13.84	13.68	15.50
		25	0	13.75	13.76	13.66	15.50
	64QAM	1	0	13.81	14.30	13.69	15.50
		1	13	14.31	14.35	14.27	15.50
		1	24	13.65	13.67	13.69	15.50
		12	0	12.98	13.01	12.88	14.50
		12	6	13.20	13.07	12.64	14.50
		12	13	12.82	13.00	12.75	14.50
		25	0	12.66	13.00	12.63	14.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	15.74	15.80	15.68	17.50
		1	25	15.89	16.23	16.10	17.50
		1	49	15.88	16.04	15.63	17.50
		25	0	14.61	15.06	14.53	16.50
		25	13	14.76	14.67	14.64	16.50
		25	25	14.53	14.85	14.55	16.50
		50	0	14.98	14.92	14.55	16.50
	16QAM	1	0	15.14	15.41	15.32	16.50
		1	25	15.17	15.55	15.19	16.50
		1	49	15.06	15.43	14.99	16.50
		25	0	13.89	14.07	13.88	15.50
		25	13	13.96	13.91	14.06	15.50
		25	25	13.73	13.78	13.70	15.50
		50	0	13.67	13.78	13.92	15.50
	64QAM	1	0	13.73	14.30	13.81	15.50
		1	25	14.35	14.33	14.59	15.50
		1	49	13.85	13.75	13.75	15.50
		25	0	12.74	12.83	12.90	14.50
		25	13	13.06	12.81	12.92	14.50

		25	25	13.08	12.80	12.75	14.50
		50	0	12.88	13.08	12.66	14.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	15.92	15.78	15.52	17.50
		1	38	15.77	16.01	16.02	17.50
		1	74	15.64	16.04	15.51	17.50
		36	0	14.77	14.84	14.57	16.50
		36	18	14.74	14.77	14.64	16.50
		36	39	14.69	14.69	14.57	16.50
		75	0	14.82	14.86	14.49	16.50
	16QAM	1	0	15.06	15.45	15.16	16.50
		1	38	15.35	15.61	15.23	16.50
		1	74	14.96	15.31	14.91	16.50
		36	0	13.91	13.81	13.88	15.50
		36	18	14.12	14.15	13.86	15.50
		36	39	13.83	13.76	13.76	15.50
		75	0	13.95	13.74	13.80	15.50
	64QAM	1	0	13.79	14.10	13.79	15.50
		1	38	14.31	14.39	14.41	15.50
		1	74	13.77	13.73	13.51	15.50
		36	0	12.74	12.99	12.94	14.50
		36	18	13.06	12.97	12.64	14.50
		36	39	12.92	12.86	12.83	14.50
		75	0	12.70	12.98	12.75	14.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	15.74	15.80	15.64	17.50
		1	50	15.75	16.03	15.92	17.50
		1	99	15.66	15.92	15.57	17.50
		50	0	14.79	14.90	14.69	16.50
		50	25	14.78	14.63	14.74	16.50
		50	50	14.69	14.63	14.61	16.50
		100	0	14.84	14.70	14.51	16.50
	16QAM	1	0	14.96	15.51	15.18	16.50
		1	50	15.27	15.49	15.23	16.50
		1	99	15.06	15.23	14.87	16.50
		50	0	13.75	13.89	13.72	15.50
		50	25	14.12	13.99	13.94	15.50
		50	50	13.85	13.78	13.78	15.50
		100	0	13.83	13.74	13.70	15.50
	64QAM	1	0	13.85	14.14	13.63	15.50
		1	50	14.25	14.27	14.37	15.50

		1	99	13.71	13.75	13.57	15.50
		50	0	12.84	12.99	12.84	14.50
		50	25	13.10	12.95	12.74	14.50
		50	50	12.90	12.86	12.83	14.50
		100	0	12.76	12.92	12.61	14.50
LTE B71							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				133147/665.5	133297/680.5	133447/695.5	
5MHz	QPSK	1	0	22.75	22.79	23.05	24.50
		1	13	22.79	22.98	23.19	24.50
		1	24	23.00	22.73	22.95	24.50
		12	0	21.76	21.81	21.92	23.50
		12	6	21.75	21.84	22.05	23.50
		12	13	21.89	21.79	22.02	23.50
		25	0	21.76	21.81	21.97	23.50
	16QAM	1	0	21.60	21.72	21.77	23.50
		1	13	21.68	21.61	21.85	23.50
		1	24	21.67	21.54	21.72	23.50
		12	0	20.95	20.77	21.12	22.50
		12	6	20.71	20.82	21.07	22.50
		12	13	20.77	20.63	20.94	22.50
		25	0	20.82	20.82	21.23	22.50
	64QAM	1	0	20.64	20.76	20.73	22.50
		1	13	20.69	21.11	21.25	22.50
		1	24	20.85	20.62	20.83	22.50
		12	0	20.11	19.68	20.39	21.50
		12	6	19.75	19.73	20.10	21.50
		12	13	19.66	19.64	20.09	21.50
		25	0	19.85	19.97	20.17	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				133172/668	133297/680.5	133422/693	
10MHz	QPSK	1	0	22.91	22.80	23.05	24.50
		1	25	23.14	23.25	23.08	24.50
		1	49	23.35	22.88	23.17	24.50
		25	0	21.88	21.82	21.86	23.50
		25	13	21.97	21.82	21.98	23.50
		25	25	21.97	21.74	21.98	23.50
		50	0	21.97	21.76	21.97	23.50
	16QAM	1	0	22.21	21.68	22.25	23.50
		1	25	21.78	21.93	21.86	23.50
		1	49	21.81	21.52	21.80	23.50
		25	0	20.79	20.86	21.02	22.50

		25	13	21.03	20.86	21.00	22.50
		25	25	20.96	20.92	21.10	22.50
		50	0	20.78	20.68	21.02	22.50
	64QAM	1	0	20.65	20.43	20.88	22.50
		1	13	21.03	20.75	21.35	22.50
		1	24	20.84	20.69	20.93	22.50
		12	0	19.79	19.76	19.98	21.50
		12	6	19.89	19.97	20.05	21.50
		12	13	19.77	19.73	20.01	21.50
		25	0	20.00	19.91	19.98	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				133197/670.5	133297/680.5	133397/690.5	
15MHz	QPSK	1	0	22.88	22.84	22.88	24.50
		1	38	23.17	23.00	22.95	24.50
		1	74	23.04	22.94	23.09	24.50
		36	0	21.92	21.71	21.77	23.50
		36	18	22.01	21.87	21.91	23.50
		36	39	21.90	21.91	21.92	23.50
		75	0	21.85	21.78	21.94	23.50
	16QAM	1	0	21.58	21.51	21.53	23.50
		1	38	21.80	21.63	21.46	23.50
		1	74	21.51	21.53	21.63	23.50
		36	0	20.72	20.73	20.75	22.50
		36	18	20.91	20.85	20.84	22.50
		36	39	20.81	20.76	20.79	22.50
		75	0	20.87	20.61	20.82	22.50
	64QAM	1	0	20.76	20.75	20.75	22.50
		1	13	21.31	21.13	21.11	22.50
		1	24	20.84	20.65	20.88	22.50
		12	0	20.02	19.82	19.95	21.50
		12	6	20.10	20.09	20.02	21.50
		12	13	19.98	19.95	19.97	21.50
		25	0	19.82	19.68	20.02	21.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				133222/673	133322/683	133372/688	
20MHz	QPSK	1	0	22.72	22.77	22.85	24.50
		1	50	23.42	23.06	23.45	24.50
		1	99	22.90	22.88	23.02	24.50
		50	0	21.89	21.81	21.83	23.50
		50	25	21.93	21.82	21.84	23.50
		50	50	21.81	21.76	21.83	23.50
		100	0	21.92	21.81	21.77	23.50
	16QAM	1	0	21.76	21.69	21.51	23.50

		1	50	21.92	21.87	21.68	23.50
		1	99	21.70	21.59	21.62	23.50
		50	0	20.91	20.74	20.72	22.50
		50	25	20.88	20.75	20.86	22.50
		50	50	20.77	20.71	20.84	22.50
		100	0	20.71	20.81	20.69	22.50
	64QAM	1	0	20.59	20.74	20.79	22.50
		1	13	21.31	21.23	21.46	22.50
		1	24	20.66	20.64	21.16	22.50
		12	0	20.07	19.80	19.91	21.50
		12	6	20.03	19.95	19.85	21.50
		12	13	19.73	19.89	19.85	21.50
		25	0	19.86	19.89	19.78	21.50
LTE B71							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				133147/665.5	133297/680.5	133447/695.5	
5MHz	QPSK	1	0	18.62	18.57	18.99	20.50
		1	13	19.20	18.92	19.15	20.50
		1	24	18.68	19.12	19.12	20.50
		12	0	17.73	17.93	17.91	19.50
		12	6	17.87	17.64	17.68	19.50
		12	13	17.65	17.94	18.03	19.50
		25	0	17.84	17.59	17.93	19.50
	16QAM	1	0	17.74	17.60	17.66	19.50
		1	13	17.96	17.91	17.68	19.50
		1	24	17.64	17.59	17.70	19.50
		12	0	16.77	16.58	16.80	18.50
		12	6	17.10	16.77	16.94	18.50
		12	13	16.83	16.81	16.88	18.50
		25	0	16.59	17.09	16.89	18.50
	64QAM	1	0	16.55	16.62	16.89	18.50
		1	13	17.27	17.15	17.44	18.50
		1	24	16.82	16.70	17.28	18.50
		12	0	16.21	15.72	15.97	17.50
		12	6	16.19	15.99	15.71	17.50
		12	13	15.83	15.61	15.85	17.50
		25	0	16.04	15.77	15.80	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				133172/668	133297/680.5	133422/693	
10MHz	QPSK	1	0	18.58	18.71	19.13	20.50
		1	25	19.28	19.10	19.35	20.50
		1	49	18.90	19.20	19.18	20.50

		25	0	17.81	18.07	17.77	19.50
		25	13	18.17	17.60	17.68	19.50
		25	25	17.51	17.76	17.95	19.50
		50	0	17.78	17.85	17.79	19.50
	16QAM	1	0	17.86	17.51	17.88	19.50
		1	25	18.02	18.03	17.58	19.50
		1	49	17.68	17.53	17.52	19.50
		25	0	16.71	16.80	17.06	18.50
		25	13	16.86	16.97	16.90	18.50
		25	25	16.75	16.63	16.98	18.50
		50	0	16.63	16.97	17.01	18.50
	64QAM	1	0	16.53	16.84	16.71	18.50
		1	13	17.07	17.09	17.52	18.50
		1	24	16.76	16.55	17.26	18.50
		12	0	16.25	15.88	15.99	17.50
		12	6	15.95	16.09	15.97	17.50
		12	13	15.55	15.67	16.03	17.50
		25	0	15.84	15.69	15.68	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				133197/670.5	133297/680.5	133397/690.5	
15MHz	QPSK	1	0	18.56	18.75	19.11	20.50
		1	38	19.38	19.04	19.13	20.50
		1	74	18.84	18.88	19.18	20.50
		36	0	17.75	18.05	17.69	19.50
		36	18	17.97	17.56	17.58	19.50
		36	39	17.85	17.80	17.81	19.50
		75	0	17.94	17.63	17.85	19.50
	16QAM	1	0	17.64	17.69	17.82	19.50
		1	38	18.16	17.91	17.66	19.50
		1	74	17.60	17.63	17.72	19.50
		36	0	16.97	16.72	16.88	18.50
		36	18	16.98	16.93	16.86	18.50
		36	39	16.69	16.77	16.84	18.50
		75	0	16.57	17.07	16.85	18.50
	64QAM	1	0	16.57	16.70	16.71	18.50
		1	13	17.05	17.05	17.36	18.50
		1	24	16.84	16.54	17.30	18.50
		12	0	16.25	15.96	15.85	17.50
		12	6	16.09	16.03	15.67	17.50
		12	13	15.61	15.59	15.79	17.50
		25	0	16.04	15.75	15.82	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				133222/673	133322/683	133372/688	

20MHz	QPSK	1	0	18.56	18.61	18.95	20.50
		1	50	19.28	18.96	19.25	20.50
		1	99	18.76	19.00	19.08	20.50
		50	0	17.83	17.87	17.81	19.50
		50	25	17.97	17.68	17.66	19.50
		50	50	17.69	17.82	17.89	19.50
		100	0	17.88	17.67	17.85	19.50
	16QAM	1	0	17.68	17.53	17.70	19.50
		1	50	18.04	17.99	17.74	19.50
		1	99	17.58	17.51	17.58	19.50
		50	0	16.83	16.58	16.84	18.50
		50	25	16.96	16.83	16.80	18.50
		50	50	16.69	16.69	16.82	18.50
		100	0	16.53	16.93	16.79	18.50
	64QAM	1	0	16.53	16.66	16.83	18.50
		1	13	17.13	17.15	17.30	18.50
		1	24	16.66	16.64	17.20	18.50
		12	0	16.13	15.82	15.81	17.50
		12	6	16.13	15.93	15.75	17.50
		12	13	15.69	15.71	15.85	17.50
		25	0	15.96	15.87	15.84	17.50

9.4 WLAN Mode

Wi-Fi 2.4GHz Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	19.00	18.43
	6/2437	19.00	18.63
	11/2462	19.00	18.45
802.11g (6M)	1/2412	17.00	16.39
	6/2437	17.00	16.76
	11/2462	17.00	16.53
802.11n-HT20 (MCS0)	1/2412	16.00	15.59
	6/2437	16.00	15.88
	11/2462	16.00	15.34
802.11n-HT40 (MCS0)	3/2422	16.00	15.54
	6/2437	16.00	15.78
	9/2452	16.00	15.37

Wi-Fi 5GHz (U-NII-1) Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	17.00	15.43
	40/5200	17.00	15.32
	48/5240	17.00	15.35
802.11n-HT20 (MCS0)	36/5180	16.00	14.69
	40/5200	16.00	14.82
	48/5240	16.00	15.15
802.11n-HT40 (MCS0)	38/5190	16.00	14.66
	46/5230	16.00	14.92
802.11ac-VHT20 (MCS0)	36/5180	16.00	14.71
	40/5200	16.00	14.75
	48/5240	16.00	14.83
802.11ac-VHT40 (MCS0)	38/5190	15.00	13.92
	46/5230	15.00	13.83
802.11ac-VHT80 (MCS0)	42/5210	14.50	13.10

Wi-Fi 5GHz (U-NII-2A)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11a (6M)	52/5260	17.00	15.63
	56/5280	17.00	15.52
	64/5320	17.00	15.71
802.11n-HT20 (MCS0)	52/5260	16.00	14.97
	56/5280	16.00	15.06
	64/5320	16.00	15.20
802.11n-HT40 (MCS0)	54/5270	16.00	14.96
	62/5310	16.00	14.88
802.11ac-VHT20 (MCS0)	52/5260	16.00	14.96
	56/5280	16.00	14.71
	64/5320	16.00	14.94
802.11ac-VHT40 (MCS0)	54/5270	15.00	14.28
	62/5310	15.00	14.16
802.11ac-VHT80 (MCS0)	58/5290	14.50	12.92

Wi-Fi 5GHz (U-NII-2C)	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11a (6M)	100/5500	17.00	16.03
	116/5580	17.00	15.73
	140/5700	17.00	16.14
	144/5720	17.00	16.08
802.11n-HT20 (MCS0)	100/5500	16.00	15.45
	116/5580	16.00	15.11
	140/5700	16.00	15.43
	144/5720	16.00	15.49
802.11n-HT40 (MCS0)	102/5510	16.00	15.23
	110/5550	16.00	15.15
	134/5670	16.00	14.94
	142/5720	16.00	15.06
802.11ac-VHT20 (MCS0)	100/5500	16.00	15.08
	116/5580	16.00	15.15
	140/5700	16.00	15.44
	144/5720	16.00	15.30
802.11ac-VHT40	102/5510	15.00	14.59

(MCS0)	110/5550	15.00	14.31
	134/5670	15.00	14.41
	142/5720	16.00	14.40
802.11ac-VHT80 (MCS0)	106/5530	14.50	13.24
	138/5690	14.50	13.12

Wi-Fi 5GHz (U-NII-3) Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	17.00	15.92
	157/5785	17.00	15.71
	165/5825	17.00	15.83
802.11n-HT20 (MCS0)	149/5745	16.00	15.17
	157/5785	16.00	14.73
	165/5825	16.00	15.01
802.11n-HT40 (MCS0)	151/5755	16.00	14.98
	159/5795	16.00	14.82
802.11ac-VHT20 (MCS0)	149/5745	16.00	14.71
	157/5785	16.00	14.66
	165/5825	16.00	14.81
802.11ac-VHT40 (MCS0)	151/5755	15.00	13.99
	159/5795	15.00	14.13
802.11ac-VHT80 (MCS0)	155/5775	14.50	12.62

Hyper Wi-Fi Mode	Carrier frequency (MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
1M	903.5	23.50	22.60
	915.5	23.50	22.36
	926.5	23.50	22.33
2M	905	23.50	22.44
	915	23.50	22.62
	925	23.50	22.97
4M	906	23.50	22.51
	914	23.50	23.18
	922	23.50	22.85

9.5 Bluetooth Mode

Bluetooth	Conducted Power(dBm)			Tune-up Limit (dBm)
	Channel/Frequency(MHz)			
	Ch 0/2402 MHz	Ch 39/2441 MHz	Ch 78/2480 MHz	
GFSK	10.22	9.74	8.85	11.00
π/4DQPSK	7.59	7.90	6.09	9.00
8DPSK	7.58	6.89	6.08	9.00
BLE	Ch 0/2402 MHz	Ch 19/2440 MHz	Ch 39/2480 MHz	Tune-up Limit (dBm)
GFSK	6.20	5.23	5.12	8.00

9.6 NFC Mode

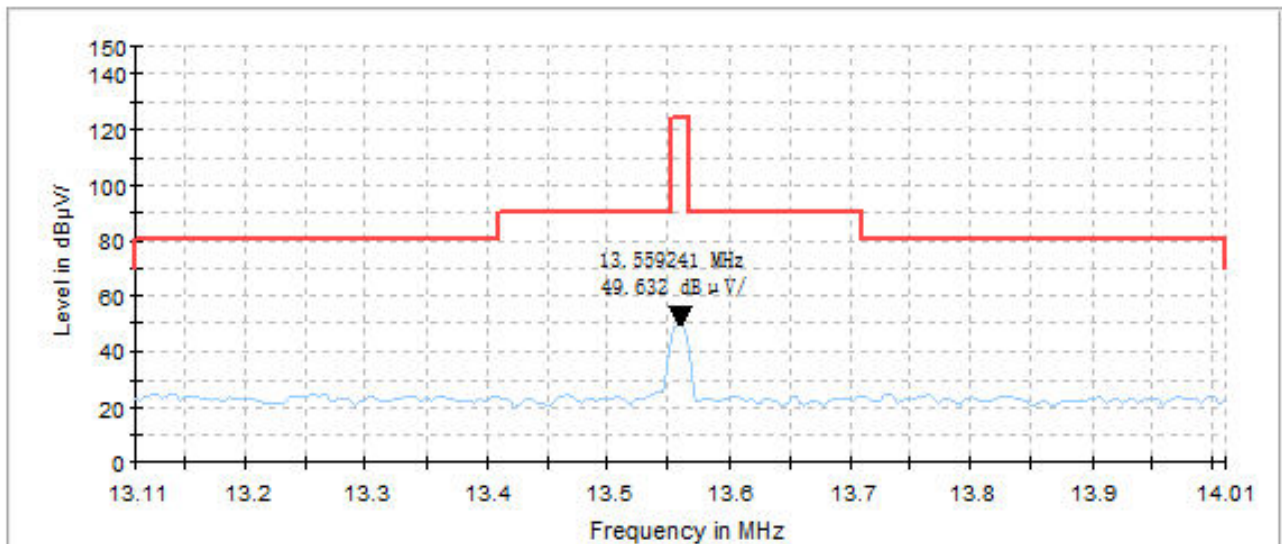
Frequency (MHz)	dB μ V/m @3m	EIRP (dBm)	Tune-up (dBm)	Limit	SAR Test Exclusion Power Thresholds(mW)
13.56	49.632	-45.568	-43.000		443

Note1: EIRP = Max.H-field strength @ 3m – 95.2

Note2: According to 447498 D01 General RF Exposure Guidance v06 section 4.3.1, the SAR test exclusion power thresholds for NFC band is 443 mW.

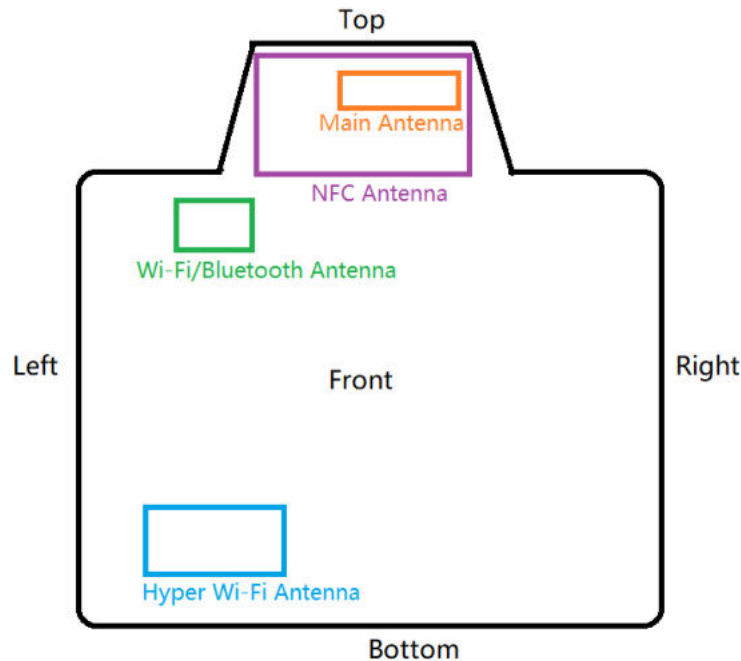
The test is in transmitting all modes, NFC-A was selected as the worst condition. The test data of the worst-case condition was recorded as below.

A symbol (dB μ V/m) in the test plot below means (dB μ V/m).



10 Measured and Reported (Scaled) SAR Results

10.1 EUT Antenna Locations



Overall (Length x Width): 245 mm x 232 mm

Overall Diagonal: 288 mm/Display Diagonal: 255mm

Distance of the Antenna to the EUT Surface/Edge

Antenna	Back Side	Front Side	Left Edge	Right Edge	Top Edge	Bottom Edge
Main-Antenna	<25mm	<25mm	<25mm	<25mm	<25mm	>25mm
Positions for SAR Tests						
Mode	Back Side	Front side	Left Edge	Right Edge	Top Edge	Bottom Edge
Main-Antenna	Yes	Yes	Yes	Yes	Yes	N/A

Note:

1. Per FCC KDB 447498 D01, 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:

a) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz

b) ≤ 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.

c) ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.

2. When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

10.2 Measured SAR Results

Note:

1. The value with blue color is the maximum SAR Value of each test band.
2. For GSM, when multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.
3. For WCDMA, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.
4. For LTE, QPSK with 100% RB allocation, SAR is required when and the highest reported SAR for 1 RB and 50% RB allocation in are $\geq 50\%$ limit(1g).
5. Per 248227, for band U-NII-1 and U-NII-2A, when the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

Body SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
GSM850	Main	Back Side	0	2TX Slots	Sensor on	N/A	N/A	190/836.6	30.50	28.81	0.719	0.030	1.48	1.061	/
		Back Side	0	2TX Slots	Sensor on	N/A	N/A	128/824.2	30.50	29.15	0.595	0.025	1.36	0.812	/
		Back Side	0	2TX Slots	Sensor on	N/A	N/A	251/848.8	30.50	29.17	0.844	-0.167	1.36	1.146	11
		Back Side Repeat	0	2TX Slots	Sensor on	N/A	N/A	251/848.8	30.50	29.17	0.829	0.010	1.36	1.126	/
		Front Side	0	2TX Slots	Sensor on	N/A	N/A	190/836.6	30.50	28.81	0.177	0.025	1.48	0.261	/
		Left Edge	0	2TX Slots	Sensor on	N/A	N/A	190/836.6	30.50	28.81	0.126	0.041	1.48	0.186	/
		Right Edge	0	2TX Slots	Sensor on	N/A	N/A	190/836.6	30.50	28.81	0.086	0.019	1.48	0.127	/
		Top Edge	0	2TX Slots	Sensor on	N/A	N/A	190/836.6	30.50	28.81	0.228	0.140	1.48	0.336	/
		Bottom Edge	0	2TX Slots	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
WCDMA II	Main	Back Side	0	RMC	Sensor on	N/A	N/A	9400/1880	16.50	15.15	0.785	0.122	1.36	1.071	12
		Back Side	0	RMC	Sensor on	N/A	N/A	9262/1852.4	16.50	15.45	0.645	0.180	1.27	0.821	/
		Back Side	0	RMC	Sensor on	N/A	N/A	9538/1907.6	16.50	15.28	0.711	-0.059	1.32	0.942	/
		Front Side	0	RMC	Sensor on	N/A	N/A	9400/1880	16.50	15.15	0.051	0.020	1.36	0.070	/
		Left Edge	0	RMC	Sensor on	N/A	N/A	9400/1880	16.50	15.15	0.096	0.090	1.36	0.131	/
		Right Edge	0	RMC	Sensor on	N/A	N/A	9400/1880	16.50	15.15	0.147	0.044	1.36	0.201	/
		Top Edge	0	RMC	Sensor on	N/A	N/A	9400/1880	16.50	15.15	0.133	0.032	1.36	0.181	/
		Bottom Edge	0	RMC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
WCDMA IV	Main	Back Side	0	RMC	Sensor on	N/A	N/A	1413/1732.6	17.50	16.29	0.723	0.122	1.32	0.955	13
		Back Side	0	RMC	Sensor on	N/A	N/A	1312/1712.4	17.50	15.92	0.631	0.080	1.44	0.908	/
		Back Side	0	RMC	Sensor on	N/A	N/A	1513/1752.6	17.50	16.16	0.698	0.029	1.36	0.950	/
		Front Side	0	RMC	Sensor on	N/A	N/A	1413/1732.6	17.50	16.29	0.048	0.130	1.32	0.063	/

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		Left Edge	0	RMC	Sensor on	N/A	N/A	1413/1732.6	17.50	16.29	0.077	0.020	1.32	0.102	/
		Right Edge	0	RMC	Sensor on	N/A	N/A	1413/1732.6	17.50	16.29	0.093	0.024	1.32	0.122	/
		Top Edge	0	RMC	Sensor on	N/A	N/A	1413/1732.6	17.50	16.29	0.128	0.017	1.32	0.169	/
		Bottom Edge	0	RMC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
WCDMA V	Main	Back Side	0	RMC	Sensor on	N/A	N/A	4183/836.6	19.50	18.18	0.605	-0.130	1.36	0.820	14
		Back Side	0	RMC	Sensor on	N/A	N/A	4132/826.4	19.50	18.39	0.598	0.025	1.29	0.772	/
		Back Side	0	RMC	Sensor on	N/A	N/A	4233/846.6	19.50	18.24	0.601	0.013	1.34	0.803	/
		Front Side	0	RMC	Sensor on	N/A	N/A	4183/836.6	19.50	18.18	0.131	0.038	1.36	0.178	/
		Left Edge	0	RMC	Sensor on	N/A	N/A	4183/836.6	19.50	18.18	0.135	-0.011	1.36	0.183	/
		Right Edge	0	RMC	Sensor on	N/A	N/A	4183/836.6	19.50	18.18	0.179	-0.068	1.36	0.243	/
		Top Edge	0	RMC	Sensor on	N/A	N/A	4183/836.6	19.50	18.18	0.100	-0.140	1.36	0.136	/
		Bottom Edge	0	RMC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
LTE Band 7	Main	Back Side	0	QPSK	Sensor on	1	50	21100/2535	14.50	12.85	0.833	-0.050	1.46	1.218	/
			0	QPSK	Sensor on	1	50	20850/2510	14.50	12.77	0.813	0.130	1.49	1.211	/
			0	QPSK	Sensor on	1	50	21350/2560	14.50	12.83	0.782	0.090	1.47	1.149	/
			0	QPSK	Sensor on	50%	0	20850/2510	13.50	13.03	0.712	-0.080	1.11	0.793	/
			0	QPSK	Sensor on	50%	0	21100/2535	13.50	12.93	0.711	0.028	1.14	0.811	/
			0	QPSK	Sensor on	50%	0	21350/2560	13.50	13.02	0.692	0.070	1.12	0.773	/
			0	QPSK	Sensor on	100%	0	20850/2510	13.50	13.08	0.655	0.032	1.10	0.722	/
		Back Side Repeat	0	QPSK	Sensor on	1	50	21100/2535	14.50	12.85	0.829	0.017	1.46	1.212	/
		Front Side	0	QPSK	Sensor on	1	50	21100/2535	14.50	12.85	0.049	0.055	1.46	0.072	/
			0	QPSK	Sensor on	50%	0	20850/2510	13.50	13.03	0.039	0.048	1.11	0.043	/
		Left Edge	0	QPSK	Sensor on	1	50	21100/2535	14.50	12.85	0.093	0.017	1.46	0.136	/
			0	QPSK	Sensor on	50%	0	20850/2510	13.50	13.03	0.102	0.025	1.11	0.114	/
		Right Edge	0	QPSK	Sensor on	1	50	21100/2535	14.50	12.85	0.138	0.130	1.46	0.202	/
			0	QPSK	Sensor on	50%	0	20850/2510	13.50	13.03	0.112	0.091	1.11	0.125	/
		Top Edge	0	QPSK	Sensor on	1	50	21100/2535	14.50	12.85	0.317	0.036	1.46	0.464	/
			0	QPSK	Sensor on	50%	0	20850/2510	13.50	13.03	0.294	0.030	1.11	0.328	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
LTE Band 12	Main	Back Side	0	QPSK	Sensor on	1	25	23095/707.5	21.50	20.74	0.706	0.050	1.19	0.841	/
			0	QPSK	Sensor on	1	25	23060/704	21.50	20.48	0.755	0.039	1.26	0.955	15
			0	QPSK	Sensor on	1	25	23130/711	21.50	20.63	0.624	0.140	1.22	0.762	/
			0	QPSK	Sensor on	50%	0	23095/707.5	20.50	19.37	0.581	0.031	1.30	0.754	/
			0	QPSK	Sensor on	50%	25	23060/704	20.50	19.33	0.568	0.052	1.31	0.744	/
			0	QPSK	Sensor on	50%	25	23130/711	20.50	19.32	0.519	0.080	1.31	0.681	/
			0	QPSK	Sensor on	100%	0	23130/711	20.50	19.41	0.518	0.023	1.29	0.666	/
		Front Side	0	QPSK	Sensor on	1	25	23095/707.5	21.50	20.74	0.315	0.011	1.19	0.375	/
			0	QPSK	Sensor on	50%	0	23095/707.5	20.50	19.37	0.283	-0.025	1.30	0.367	/
		Left Edge	0	QPSK	Sensor on	1	25	23095/707.5	21.50	20.74	0.275	-0.060	1.19	0.328	/
			0	QPSK	Sensor on	50%	0	23095/707.5	20.50	19.37	0.242	0.040	1.30	0.314	/
		Right Edge	0	QPSK	Sensor on	1	25	23095/707.5	21.50	20.74	0.250	-0.100	1.19	0.298	/

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			0	QPSK	Sensor on	50%	0	23095/707.5	20.50	19.37	0.216	0.082	1.30	0.280	/
			0	QPSK	Sensor on	1	25	23095/707.5	21.50	20.74	0.172	0.019	1.19	0.205	/
			0	QPSK	Sensor on	50%	0	23095/707.5	20.50	19.37	0.150	0.062	1.30	0.195	/
			0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
LTE Band 13	Main	Back Side	0	QPSK	Sensor on	1	25	23230/782	20.50	19.63	0.791	0.060	1.22	0.966	16
			0	QPSK	Sensor on	50%	0	23230/782	19.50	18.41	0.696	0.024	1.29	0.895	/
			0	QPSK	Sensor on	100%	0	23230/782	19.50	18.44	0.557	0.016	1.28	0.711	/
		Front Side	0	QPSK	Sensor on	1	25	23230/782	20.50	19.63	0.209	-0.049	1.22	0.255	/
			0	QPSK	Sensor on	50%	0	23230/782	19.50	18.41	0.187	0.022	1.29	0.240	/
		Left Edge	0	QPSK	Sensor on	1	25	23230/782	20.50	19.63	0.128	0.030	1.22	0.156	/
			0	QPSK	Sensor on	50%	0	23230/782	19.50	18.41	0.115	0.048	1.29	0.148	/
		Right Edge	0	QPSK	Sensor on	1	25	23230/782	20.50	19.63	0.155	0.024	1.22	0.189	/
			0	QPSK	Sensor on	50%	0	23230/782	19.50	18.41	0.108	0.010	1.29	0.139	/
		Top Edge	0	QPSK	Sensor on	1	25	23230/782	20.50	19.63	0.080	0.039	1.22	0.098	/
			0	QPSK	Sensor on	50%	0	23230/782	19.50	18.41	0.077	-0.056	1.29	0.099	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
LTE Band 14	Main	Back Side	0	QPSK	Sensor on	1	25	23330/793	19.50	18.85	0.749	0.037	1.16	0.870	17
			0	QPSK	Sensor on	50%	0	23330/793	18.50	17.55	0.590	0.025	1.24	0.734	/
			0	QPSK	Sensor on	100%	0	23330/793	18.50	17.37	0.505	0.070	1.30	0.655	/
		Front Side	0	QPSK	Sensor on	1	25	23330/793	19.50	18.85	0.159	-0.170	1.16	0.185	/
			0	QPSK	Sensor on	50%	0	23330/793	18.50	17.55	0.134	0.064	1.24	0.167	/
		Left Edge	0	QPSK	Sensor on	1	25	23330/793	19.50	18.85	0.095	0.041	1.16	0.110	/
			0	QPSK	Sensor on	50%	0	23330/793	18.50	17.55	0.083	0.027	1.24	0.103	/
		Right Edge	0	QPSK	Sensor on	1	25	23330/793	19.50	18.85	0.132	0.039	1.16	0.153	/
			0	QPSK	Sensor on	50%	0	23330/793	18.50	17.55	0.116	0.010	1.24	0.144	/
		Top Edge	0	QPSK	Sensor on	1	25	23330/793	19.50	18.85	0.062	0.028	1.16	0.072	/
			0	QPSK	Sensor on	50%	0	23330/793	18.50	17.55	0.047	-0.040	1.24	0.058	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
LTE Band 25	Main	Back Side	0	QPSK	Sensor on	1	50	26140/1860	16.50	15.01	0.785	0.100	1.41	1.106	/
			0	QPSK	Sensor on	1	50	26365/1882.5	16.50	14.96	0.792	0.125	1.43	1.129	18
			0	QPSK	Sensor on	1	50	26590/1905	16.50	14.80	0.763	0.017	1.48	1.129	/
			0	QPSK	Sensor on	50%	0	26590/1905	15.50	14.03	0.675	0.043	1.40	0.947	/
			0	QPSK	Sensor on	50%	25	26140/1860	15.50	13.96	0.674	-0.050	1.43	0.961	/
			0	QPSK	Sensor on	50%	0	26365/1882.5	15.50	13.89	0.643	0.060	1.45	0.932	/
			0	QPSK	Sensor on	100%	0	26140/1860	15.50	13.93	0.649	0.038	1.44	0.932	/
			0	QPSK	Sensor on	100%	0	26365/1882.5	15.50	13.76	0.638	0.056	1.49	0.952	/
			0	QPSK	Sensor on	100%	0	26590/1905	15.50	13.75	0.625	0.041	1.50	0.935	/
		Front Side	0	QPSK	Sensor on	1	50	26140/1860	16.50	15.01	0.072	0.038	1.41	0.101	/
			0	QPSK	Sensor on	50%	0	26590/1905	15.50	14.03	0.065	0.070	1.40	0.091	/
		Left Edge	0	QPSK	Sensor on	1	50	26140/1860	16.50	15.01	0.155	0.100	1.41	0.218	/

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			0	QPSK	Sensor on	50%	0	26590/1905	15.50	14.03	0.128	0.027	1.40	0.180	/
			0	QPSK	Sensor on	1	50	26140/1860	16.50	15.01	0.134	-0.196	1.41	0.189	/
			0	QPSK	Sensor on	50%	0	26590/1905	15.50	14.03	0.119	0.024	1.40	0.167	/
			0	QPSK	Sensor on	1	50	26140/1860	16.50	15.01	0.132	0.031	1.41	0.186	/
			0	QPSK	Sensor on	50%	0	26590/1905	15.50	14.03	0.100	0.066	1.40	0.140	/
			0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
LTE Band 26	Main	Back Side	0	QPSK	Sensor on	1	25	26915/836.5	20.50	19.79	0.814	0.059	1.18	0.959	/
			0	QPSK	Sensor on	1	74	26865/831.5	20.50	19.56	0.792	0.068	1.24	0.983	/
			0	QPSK	Sensor on	1	74	26965/841.5	20.50	19.47	0.886	0.070	1.27	1.123	19
			0	QPSK	Sensor on	50%	18	26965/841.5	19.50	18.76	0.624	0.029	1.19	0.740	/
			0	QPSK	Sensor on	100%	0	26965/841.5	19.50	18.68	0.575	0.080	1.21	0.694	/
		Back Side Repeat	0	QPSK	Sensor on	1	74	26965/841.5	20.50	19.47	0.878	0.013	1.27	1.113	/
		Front Side	0	QPSK	Sensor on	1	25	26915/836.5	20.50	19.79	0.148	0.048	1.18	0.174	/
			0	QPSK	Sensor on	50%	13	26965/841.5	19.50	18.76	0.139	0.027	1.19	0.165	/
		Left Edge	0	QPSK	Sensor on	1	25	26915/836.5	20.50	19.79	0.218	-0.106	1.18	0.257	/
			0	QPSK	Sensor on	50%	13	26965/841.5	19.50	18.76	0.229	0.020	1.19	0.272	/
		Right Edge	0	QPSK	Sensor on	1	25	26915/836.5	20.50	19.79	0.256	0.078	1.18	0.301	/
			0	QPSK	Sensor on	50%	13	26965/841.5	19.50	18.76	0.232	0.021	1.19	0.275	/
		Top Edge	0	QPSK	Sensor on	1	25	26915/836.5	20.50	19.79	0.118	0.070	1.18	0.139	/
			0	QPSK	Sensor on	50%	13	26965/841.5	19.50	18.76	0.102	0.065	1.19	0.121	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Back Side	0	QPSK	Sensor on	1	0	26740/819	20.50	19.68	0.825	0.078	1.21	0.996	/
			0	QPSK	Sensor on	50%	13	26740/819	19.50	18.72	0.673	0.021	1.20	0.805	/
LTE Band 30	Main	Back Side	0	QPSK	Sensor on	1	25	27710/2310	15.50	14.85	0.963	0.076	1.16	1.118	/
			0	QPSK	Sensor on	50%	0	27710/2310	14.50	13.79	0.837	0.025	1.18	0.986	/
			0	QPSK	Sensor on	100%	0	27710/2310	14.50	13.68	0.806	-0.014	1.21	0.973	/
		Back Side Repeat	0	QPSK	Sensor on	1	25	27710/2310	15.50	14.85	0.995	0.099	1.16	1.156	20
		Front Side	0	QPSK	Sensor on	1	25	27710/2310	15.50	14.85	0.098	0.080	1.16	0.114	/
			0	QPSK	Sensor on	50%	0	27710/2310	14.50	13.79	0.054	0.047	1.18	0.064	/
		Left Edge	0	QPSK	Sensor on	1	25	27710/2310	15.50	14.85	0.036	0.013	1.16	0.042	/
			0	QPSK	Sensor on	50%	0	27710/2310	14.50	13.79	0.028	0.050	1.18	0.033	/
		Right Edge	0	QPSK	Sensor on	1	25	27710/2310	15.50	14.85	0.025	0.018	1.16	0.029	/
			0	QPSK	Sensor on	50%	0	27710/2310	14.50	13.79	0.018	0.015	1.18	0.021	/
		Top Edge	0	QPSK	Sensor on	1	25	27710/2310	15.50	14.85	0.207	0.023	1.16	0.240	/
			0	QPSK	Sensor on	50%	0	27710/2310	14.50	13.79	0.247	0.080	1.18	0.291	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
LTE Band 41	Main	Back Side	0	QPSK	Sensor on	1	50	41055/2636.5	17.00	16.52	0.797	0.140	1.12	0.890	21
			0	QPSK	Sensor on	1	50	39750/2506	17.00	16.33	0.753	0.019	1.17	0.879	/

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			0	QPSK	Sensor on	1	50	40185/2549.5	17.00	16.47	0.721	0.026	1.13	0.815	/
			0	QPSK	Sensor on	50%	25	40185/2549.5	16.00	15.32	0.614	0.054	1.17	0.718	/
			0	QPSK	Sensor on	100%	0	40185/2549.5	16.00	15.29	0.615	0.033	1.18	0.724	/
		Front Side	0	QPSK	Sensor on	1	50	41055/2636.5	17.00	16.52	0.058	0.027	1.12	0.065	/
			0	QPSK	Sensor on	50%	25	40185/2549.5	16.00	15.32	0.048	0.090	1.17	0.056	/
		Left Edge	0	QPSK	Sensor on	1	50	41055/2636.5	17.00	16.52	0.112	0.100	1.12	0.125	/
			0	QPSK	Sensor on	50%	25	40185/2549.5	16.00	15.32	0.098	0.029	1.17	0.115	/
		Right Edge	0	QPSK	Sensor on	1	50	41055/2636.5	17.00	16.52	0.089	0.045	1.12	0.099	/
			0	QPSK	Sensor on	50%	25	40185/2549.5	16.00	15.32	0.072	0.069	1.17	0.084	/
		Top Edge	0	QPSK	Sensor on	1	50	41055/2636.5	17.00	16.52	0.251	0.130	1.12	0.280	/
			0	QPSK	Sensor on	50%	25	40185/2549.5	16.00	15.32	0.233	-0.022	1.17	0.272	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
LTE Band 66	Main	Back Side	0	QPSK	Sensor on	1	50	132322/1745	17.50	16.03	0.674	0.130	1.40	0.945	/
			0	QPSK	Sensor on	1	50	132072/1720	17.50	15.75	0.607	0.019	1.50	0.908	/
			0	QPSK	Sensor on	1	50	132572/1770	17.50	15.92	0.719	0.127	1.44	1.034	22
			0	QPSK	Sensor on	50%	0	132322/1745	16.50	14.90	0.517	0.037	1.45	0.747	/
			0	QPSK	Sensor on	100%	0	132072/1720	16.50	14.84	0.531	0.090	1.47	0.778	/
		Front Side	0	QPSK	Sensor on	1	50	132322/1745	17.50	16.03	0.039	0.064	1.40	0.055	/
			0	QPSK	Sensor on	50%	0	132322/1745	16.50	14.90	0.026	0.019	1.45	0.038	/
		Left Edge	0	QPSK	Sensor on	1	50	132322/1745	17.50	16.03	0.101	0.080	1.40	0.142	/
			0	QPSK	Sensor on	50%	0	132322/1745	16.50	14.90	0.093	0.036	1.45	0.134	/
		Right Edge	0	QPSK	Sensor on	1	50	132322/1745	17.50	16.03	0.119	0.080	1.40	0.167	/
			0	QPSK	Sensor on	50%	0	132322/1745	16.50	14.90	0.102	0.049	1.45	0.147	/
		Top Edge	0	QPSK	Sensor on	1	50	132322/1745	17.50	16.03	0.110	0.070	1.40	0.154	/
			0	QPSK	Sensor on	50%	0	132322/1745	16.50	14.90	0.078	0.028	1.45	0.113	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
LTE Band 71	Main	Back Side	0	QPSK	Sensor on	1	50	133222/673	20.50	19.28	0.716	0.036	1.32	0.948	23
			0	QPSK	Sensor on	1	99	133322/683	20.50	19.00	0.685	0.022	1.41	0.968	/
			0	QPSK	Sensor on	1	50	133372/688	20.50	19.25	0.702	0.130	1.33	0.936	/
			0	QPSK	Sensor on	50%	25	133222/673	19.50	17.97	0.524	0.056	1.42	0.745	/
			0	QPSK	Sensor on	100%	0	133222/673	19.50	17.88	0.586	0.031	1.45	0.851	/
		Front Side	0	QPSK	Sensor on	1	50	133222/673	20.50	19.28	0.369	0.014	1.32	0.489	/
			0	QPSK	Sensor on	50%	25	133222/673	19.50	17.97	0.269	0.049	1.42	0.383	/
		Left Edge	0	QPSK	Sensor on	1	50	133222/673	20.50	19.28	0.152	-0.030	1.32	0.201	/
			0	QPSK	Sensor on	50%	25	133222/673	19.50	17.97	0.127	-0.019	1.42	0.181	/
		Right Edge	0	QPSK	Sensor on	1	50	133222/673	20.50	19.28	0.106	0.023	1.32	0.140	/
			0	QPSK	Sensor on	50%	25	133222/673	19.50	17.97	0.092	0.011	1.42	0.131	/
		Top Edge	0	QPSK	Sensor on	1	50	133222/673	20.50	19.28	0.201	0.017	1.32	0.266	/
			0	QPSK	Sensor on	50%	25	133222/673	19.50	17.97	0.162	0.036	1.42	0.230	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
Wi-Fi 2.4G	Wi-Fi	Back Side	0	11b	100.0%	Full power	6/2437	19.00	18.63	0.197	-0.160	1.09	0.215	/
		Front Side	0	11b	100.0%	Full power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Left Edge	0	11b	100.0%	Full power	6/2437	19.00	18.63	0.077	0.019	1.09	0.084	/
		Right Edge	0	11b	100.0%	Full power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0	11b	100.0%	Full power	6/2437	19.00	18.63	0.650	0.010	1.09	0.708	24
		Bottom Edge	0	11b	100.0%	Full power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Wi-Fi U-NII-2A	Wi-Fi	Back Side	0	11a	100.0%	Full power	64/5320	17.00	15.71	0.138	0.040	1.35	0.186	/
		Front Side	0	11a	100.0%	Full power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Left Edge	0	11a	100.0%	Full power	64/5320	17.00	15.71	0.065	0.032	1.35	0.087	/
		Right Edge	0	11a	100.0%	Full power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0	11a	100.0%	Full power	64/5320	17.00	15.71	0.120	0.070	1.35	0.162	/
		Bottom Edge	0	11a	100.0%	Full power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Wi-Fi U-NII-2C	Wi-Fi	Back Side	0	11a	100.0%	Full power	140/5700	17.00	16.14	0.078	0.000	1.22	0.095	/
		Front Side	0	11a	100.0%	Full power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Left Edge	0	11a	100.0%	Full power	140/5700	17.00	16.14	0.098	0.011	1.22	0.119	/
		Right Edge	0	11a	100.0%	Full power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0	11a	100.0%	Full power	140/5700	17.00	16.14	0.144	-0.018	1.22	0.176	/
		Bottom Edge	0	11a	100.0%	Full power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Wi-Fi U-NII-3	Wi-Fi	Back Side	0	11a	100.0%	Full power	149/5745	17.00	15.92	0.083	-0.100	1.28	0.107	/
		Front Side	0	11a	100.0%	Full power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Left Edge	0	11a	100.0%	Full power	149/5745	17.00	15.92	0.151	0.058	1.28	0.194	/
		Right Edge	0	11a	100.0%	Full power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0	11a	100.0%	Full power	149/5745	17.00	15.92	0.160	-0.040	1.28	0.205	25
		Bottom Edge	0	11a	100.0%	Full power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Bluetooth	Bluetooth	Back Side	0	DH5	77.0%	Full Power	0/2402	11.00	10.22	0.028	-0.100	1.59	0.044	/
		Front Side	0	DH5	77.0%	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Left Edge	0	DH5	77.0%	Full Power	0/2402	11.00	10.22	0.009	0.030	1.59	0.014	/
		Right Edge	0	DH5	77.0%	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0	DH5	77.0%	Full Power	0/2402	11.00	10.22	0.591	-0.072	1.59	0.919	26
		Bottom Edge	0	DH5	77.0%	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Duty Cycle	Power Reduction	Carrier frequency (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
Hyper WiFi	Wi-Fi	Back Side	0	1M	97.0%	Full power	903.5	23.50	22.60	1.070	0.070	1.27	1.357	27
			0	1M	97.0%	Full power	915.5	23.50	22.36	1.010	0.010	1.34	1.354	/
			0	1M	97.0%	Full power	926.5	23.50	22.33	0.996	0.046	1.35	1.344	/
		Back Side Repeat	0	1M	97.0%	Full power	903.5	23.50	22.60	1.020	0.080	1.27	1.294	/
		Front Side	0	1M	97.0%	Full power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

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	Left Edge	0	1M	97.0%	Full power	903.5	23.50	22.60	0.551	0.066	1.27	0.699	/
	Right Edge	0	1M	97.0%	Full power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Top Edge	0	1M	97.0%	Full power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Bottom Edge	0	1M	97.0%	Full power	903.5	23.50	22.60	0.547	-0.140	1.27	0.694	/

Additional SAR test at a conservative distance (triggering distance minus 1mm)

Band	Antenna	Dist. (mm)	Test Position	Mode	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
GSM850	Main	19	Back Side	2TX Slots	Sensor off	N/A	N/A	190/836.6	33.00	31.17	0.127	0.044	1.52	0.194	/
		19	Front Side	2TX Slots	Sensor off	N/A	N/A	190/836.6	33.00	31.17	0.062	0.015	1.52	0.094	/
		19	Left Edge	2TX Slots	Sensor off	N/A	N/A	190/836.6	33.00	31.17	0.112	0.038	1.52	0.171	/
		19	Right Edge	2TX Slots	Sensor off	N/A	N/A	190/836.6	33.00	31.17	0.085	0.036	1.52	0.130	/
		19	Top Edge	2TX Slots	Sensor off	N/A	N/A	190/836.6	33.00	31.17	0.011	-0.060	1.52	0.017	/
WCDMA II	Main	19	Back Side	RMC	Sensor off	N/A	N/A	9400/1880	24.50	23.01	0.686	-0.022	1.41	0.967	/
		19	Front Side	RMC	Sensor off	N/A	N/A	9400/1880	24.50	23.01	0.109	-0.025	1.41	0.154	/
		19	Left Edge	RMC	Sensor off	N/A	N/A	9400/1880	24.50	23.01	0.152	0.080	1.41	0.214	/
		19	Right Edge	RMC	Sensor off	N/A	N/A	9400/1880	24.50	23.01	0.174	-0.060	1.41	0.245	/
		19	Top Edge	RMC	Sensor off	N/A	N/A	9400/1880	24.50	23.01	0.118	0.040	1.41	0.166	/
WCDMA IV	Main	19	Back Side	RMC	Sensor off	N/A	N/A	1413/1732.6	24.50	23.17	0.435	-0.030	1.36	0.591	/
		19	Front Side	RMC	Sensor off	N/A	N/A	1413/1732.6	24.50	23.17	0.048	0.080	1.36	0.065	/
		19	Left Edge	RMC	Sensor off	N/A	N/A	1413/1732.6	24.50	23.17	0.138	0.031	1.36	0.187	/
		19	Right Edge	RMC	Sensor off	N/A	N/A	1413/1732.6	24.50	23.17	0.159	0.036	1.36	0.216	/
		19	Top Edge	RMC	Sensor off	N/A	N/A	1413/1732.6	24.50	23.17	0.073	-0.140	1.36	0.099	/
WCDMA V	Main	19	Back Side	RMC	Sensor off	N/A	N/A	4183/836.6	24.50	22.99	0.107	0.068	1.42	0.151	/
		19	Front Side	RMC	Sensor off	N/A	N/A	4183/836.6	24.50	22.99	0.041	0.043	1.42	0.058	/
		19	Left Edge	RMC	Sensor off	N/A	N/A	4183/836.6	24.50	22.99	0.077	0.038	1.42	0.109	/
		19	Right Edge	RMC	Sensor off	N/A	N/A	4183/836.6	24.50	22.99	0.097	0.051	1.42	0.137	/
		19	Top Edge	RMC	Sensor off	N/A	N/A	4183/836.6	24.50	22.99	0.050	0.017	1.42	0.071	/
LTE 7	Main	19	Back Side	QPSK	Sensor off	1	50	21100/2535	24.50	24.16	1.310	0.170	1.08	1.417	28
		19	Back Side	QPSK	Sensor off	1	50	20850/2510	24.50	23.92	1.230	0.040	1.14	1.406	/
		19	Back Side	QPSK	Sensor off	1	50	21350/2560	24.50	23.92	1.140	0.029	1.14	1.303	/
		19	Back Side Repeat	QPSK	Sensor off	1	50	21100/2535	24.50	24.16	1.180	0.030	1.08	1.276	/
		19	Front Side	QPSK	Sensor off	1	50	21100/2535	24.50	24.16	0.105	-0.190	1.08	0.114	/
		19	Left Edge	QPSK	Sensor off	1	50	21100/2535	24.50	24.16	0.045	-0.070	1.08	0.049	/
		19	Right Edge	QPSK	Sensor off	1	50	21100/2535	24.50	24.16	0.039	0.035	1.08	0.042	/
		19	Top Edge	QPSK	Sensor off	1	50	21100/2535	24.50	24.16	0.097	0.020	1.08	0.105	/
LTE 12	Main	19	Back Side	QPSK	Sensor off	1	25	23095/707.5	24.50	23.87	0.180	0.032	1.16	0.208	/
		19	Front Side	QPSK	Sensor off	1	25	23095/707.5	24.50	23.87	0.066	0.081	1.16	0.076	/
		19	Left Edge	QPSK	Sensor off	1	25	23095/707.5	24.50	23.87	0.148	0.039	1.16	0.171	/
		19	Right Edge	QPSK	Sensor off	1	25	23095/707.5	24.50	23.87	0.112	0.017	1.16	0.129	/
		19	Top Edge	QPSK	Sensor off	1	25	23095/707.5	24.50	23.87	0.072	0.066	1.16	0.083	/

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LTE 13	Main	19	Back Side	QPSK	Sensor off	1	25	23230/782	24.50	23.36	0.097	0.030	1.30	0.126	/
		19	Front Side	QPSK	Sensor off	1	25	23230/782	24.50	23.36	0.048	0.088	1.30	0.062	/
		19	Left Edge	QPSK	Sensor off	1	25	23230/782	24.50	23.36	0.056	-0.100	1.30	0.073	/
		19	Right Edge	QPSK	Sensor off	1	25	23230/782	24.50	23.36	0.062	0.036	1.30	0.081	/
		19	Top Edge	QPSK	Sensor off	1	25	23230/782	24.50	23.36	0.021	0.019	1.30	0.027	/
LTE 14	Main	19	Back Side	QPSK	Sensor off	1	25	23330/793	24.50	23.48	0.110	0.051	1.26	0.139	/
		19	Front Side	QPSK	Sensor off	1	25	23330/793	24.50	23.48	0.064	0.028	1.26	0.081	/
		19	Left Edge	QPSK	Sensor off	1	25	23330/793	24.50	23.48	0.062	0.026	1.26	0.078	/
		19	Right Edge	QPSK	Sensor off	1	25	23330/793	24.50	23.48	0.071	-0.076	1.26	0.090	/
		19	Top Edge	QPSK	Sensor off	1	25	23330/793	24.50	23.48	0.049	0.062	1.26	0.062	/
LTE 25	Main	19	Back Side	QPSK	Sensor off	1	50	26140/1860	24.50	23.36	0.705	0.160	1.30	0.917	/
		19	Front Side	QPSK	Sensor off	1	50	26140/1860	24.50	23.36	0.088	0.022	1.30	0.114	/
		19	Left Edge	QPSK	Sensor off	1	50	26140/1860	24.50	23.36	0.112	0.049	1.30	0.146	/
		19	Right Edge	QPSK	Sensor off	1	50	26140/1860	24.50	23.36	0.156	0.060	1.30	0.203	/
		19	Top Edge	QPSK	Sensor off	1	50	26140/1860	24.50	23.36	0.147	0.055	1.30	0.191	/
LTE 26	Main	19	Back Side	QPSK	Sensor off	1	38	26915/836.5	24.50	23.98	0.088	0.041	1.13	0.099	/
		19	Front Side	QPSK	Sensor off	1	38	26915/836.5	24.50	23.98	0.051	0.028	1.13	0.057	/
		19	Left Edge	QPSK	Sensor off	1	38	26915/836.5	24.50	23.98	0.079	0.069	1.13	0.089	/
		19	Right Edge	QPSK	Sensor off	1	38	26915/836.5	24.50	23.98	0.071	0.100	1.13	0.080	/
		19	Top Edge	QPSK	Sensor off	1	38	26915/836.5	24.50	23.98	0.059	0.026	1.13	0.067	/
LTE 30	Main	19	Back Side	QPSK	Sensor off	1	0	27710/2310	24.50	22.98	0.445	0.022	1.42	0.631	/
		19	Front Side	QPSK	Sensor off	1	0	27710/2310	24.50	22.98	0.046	0.030	1.42	0.065	/
		19	Left Edge	QPSK	Sensor off	1	0	27710/2310	24.50	22.98	0.043	-0.033	1.42	0.061	/
		19	Right Edge	QPSK	Sensor off	1	0	27710/2310	24.50	22.98	0.052	0.016	1.42	0.074	/
		19	Top Edge	QPSK	Sensor off	1	0	27710/2310	24.50	22.98	0.078	-0.090	1.42	0.111	/
LTE 41	Main	19	Back Side	QPSK	Sensor off	1	50	41055/2636.5	24.00	22.80	0.145	0.019	1.32	0.191	/
		19	Front Side	QPSK	Sensor off	1	50	41055/2636.5	24.00	22.80	0.045	0.018	1.32	0.059	/
		19	Left Edge	QPSK	Sensor off	1	50	41055/2636.5	24.00	22.80	0.048	0.014	1.32	0.063	/
		19	Right Edge	QPSK	Sensor off	1	50	41055/2636.5	24.00	22.80	0.039	0.029	1.32	0.051	/
		19	Top Edge	QPSK	Sensor off	1	50	41055/2636.5	24.00	22.80	0.084	0.094	1.32	0.111	/
LTE 66	Main	19	Back Side	QPSK	Sensor off	1	50	132322/1745	24.50	23.83	0.431	-0.046	1.17	0.503	/
		19	Front Side	QPSK	Sensor off	1	50	132322/1745	24.50	23.83	0.060	0.180	1.17	0.070	/
		19	Left Edge	QPSK	Sensor off	1	50	132322/1745	24.50	23.83	0.136	-0.190	1.17	0.159	/
		19	Right Edge	QPSK	Sensor off	1	50	132322/1745	24.50	23.83	0.173	0.034	1.17	0.202	/
		19	Top Edge	QPSK	Sensor off	1	50	132322/1745	24.50	23.83	0.072	-0.060	1.17	0.084	/
LTE 71	Main	19	Back Side	QPSK	Sensor off	1	50	133372/688	24.50	23.45	0.085	0.019	1.27	0.108	/
		19	Front Side	QPSK	Sensor off	1	50	133372/688	24.50	23.45	0.049	0.022	1.27	0.062	/
		19	Left Edge	QPSK	Sensor off	1	50	133372/688	24.50	23.45	0.058	0.026	1.27	0.074	/
		19	Right Edge	QPSK	Sensor off	1	50	133372/688	24.50	23.45	0.073	0.070	1.27	0.093	/
		19	Top Edge	QPSK	Sensor off	1	50	133372/688	24.50	23.45	0.016	-0.066	1.27	0.020	/

10.3 Simultaneous Transmission Analysis

Simultaneous Transmission Configurations	Body
Hyper Wi-Fi + Wi-Fi 2.4GHz	No
Hyper Wi-Fi + Wi-Fi 5GHz	No
Hyper Wi-Fi + Main Antenna + Bluetooth	Yes
Main Antenna + Wi-Fi 2.4GHz	Yes
Main Antenna + Wi-Fi 5GHz + Bluetooth	Yes
Hyper Wi-Fi + Main Antenna + NFC	Yes

General Note:

1. The Scaled SAR summation is calculated based on the same configuration and test position.
2. Per KDB 447498 D01, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation $< 1.6\text{W/kg}$, simultaneously transmission SAR measurement is not necessary.
 - ii) $\text{SPLSR} = (\text{SAR1} + \text{SAR2})^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

The Maximum SAR_{1g} Value for Main-Antenna

SAR _{1g} (W/kg)		GSM	WCDMA	WCDMA	WCDMA	LTE	LTE	LTE	LTE	LTE	LTE	LTE	LTE	LTE	LTE	MAX.
Test Position		850	Band II	Band IV	Band V	FDD 7	FDD 12 (LTE FDD 17)	FDD 13	FDD 14	FDD 25 (LTE FDD 2)	FDD 26 (LTE FDD 5)	FDD 30	FDD 41 (LTE TDD 38)	FDD 66 (LTE FDD 4)	FDD 71	SAR _{1g}
Body	Back Side	1.146	1.071	0.955	0.820	1.218	0.955	0.966	0.870	1.129	1.123	1.156	0.890	1.034	0.968	1.218
	Front Side	0.261	0.070	0.063	0.178	0.072	0.375	0.255	0.185	0.101	0.174	0.114	0.065	0.055	0.489	0.489
	Left Edge	0.186	0.131	0.102	0.183	0.272	0.136	0.328	0.156	0.110	0.218	0.042	0.125	0.142	0.201	0.328
	Right Edge	0.127	0.201	0.122	0.243	0.202	0.298	0.189	0.153	0.189	0.301	0.029	0.099	0.167	0.140	0.301
	Top Edge	0.336	0.181	0.169	0.136	0.464	0.205	0.099	0.072	0.186	0.139	0.291	0.280	0.154	0.266	0.464
	Bottom Edge	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

About Bluetooth, Hyper Wi-Fi, Wi-Fi and Main-Antenna

SAR _{1g} (W/kg)		Main-Antenna	Hyper Wi-Fi	Wi-Fi 2.4GHz	Wi-Fi 5GHz			Bluetooth	MAX. ΣSAR _{1g}			
Test Position					U-NII-2A (U-NII-1)	U-NII-2C	U-NII-3					
		1	2	3	4	5	6	7	1+3	1+Max(4,5,6)	1+Max(4,5,6)+7	1+2+7
Body	Back Side	1.218	1.357	0.215	0.186	0.095	0.107	0.044	1.433	1.404	1.448	2.619
	Front Side	0.489	0.000	0.000	0.000	0.000	0.000	0.000	0.489	0.489	0.489	0.489
	Left Edge	0.328	0.699	0.084	0.087	0.119	0.194	0.014	0.411	0.521	0.535	1.216
	Right Edge	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Top Edge	0.464	0.000	0.708	0.162	0.176	0.205	0.919	1.171	0.669	1.588	1.383
	Bottom Edge	0.000	0.694	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.694

Note:

1. The value with blue color is the maximum ΣSAR_{1g} Value.

2. MAX. ΣSAR_{1g} = Unlicensed SAR_{MAX} + Licensed SAR_{MAX}

3. MAX. ΣSAR_{1g} = 1.588W/kg < 1.6W/kg, so the Simultaneous transmission SAR with volume scan are not required for Bluetooth, Hyper Wi-Fi, Wi-Fi and Main-Antenna.

MAX. ΣSAR_{1g} = 2.619W/kg > 1.6W/kg, so the SAR to peak location separation ratio should be considered

SAR _{1g} (W/kg)		GSM	WCDMA	WCDMA	WCDMA	LTE	LTE FDD	LTE	LTE	LTE FDD	LTE FDD	LTE	LTE TDD	LTE FDD	LTE	MAX.
Test Position		850	Band II	Band IV	Band V	FDD 7	12 (LTE FDD 17)	FDD 13	FDD 14	FDD 25 (LTE FDD 2)	FDD 26 (LTE FDD 5)	FDD 30	FDD 41 (LTE TDD 38)	FDD 66 (LTE FDD 4)	FDD 71	SAR _{1g}
Back Side		1.146	1.071	0.955	0.820	1.218	0.955	0.966	0.870	1.129	1.123	1.156	0.890	1.034	0.968	1.218

SAR _{1g} (W/k)		LTE FDD 7	Bluetooth	Hyper Wi-Fi	MAX. ΣSAR _{1g}
Test Position					
Back Side		1.218	0.044	1.357	2.619

(SAR_{Max} = 2.619 W/Kg)

The position SAR_{Max.Bluetooth} is (x₁ = -23, y₁ = -110, z₁ = -206.7),

The position SAR_{Max.Hyper Wi-Fi} is (x₂ = 58, y₂ = -41.5, z₂ = -206.4)

so the distance is 106.1mm.

SPLSR = [(Reported SAR_{Max.LTE Band 7+Bluetooth}) 1.262 W/kg + (Reported SAR_{Max.Hyper Wi-Fi}) 1.357 W/kg]^{3/2}
/distance = 0.040 ≤ 0.04

This MAX SPLSR (is 0.040) represents the result under the worst-case scenario.

So the Simultaneous transmission SAR with volume scan are not required.

11 Measurement Uncertainty

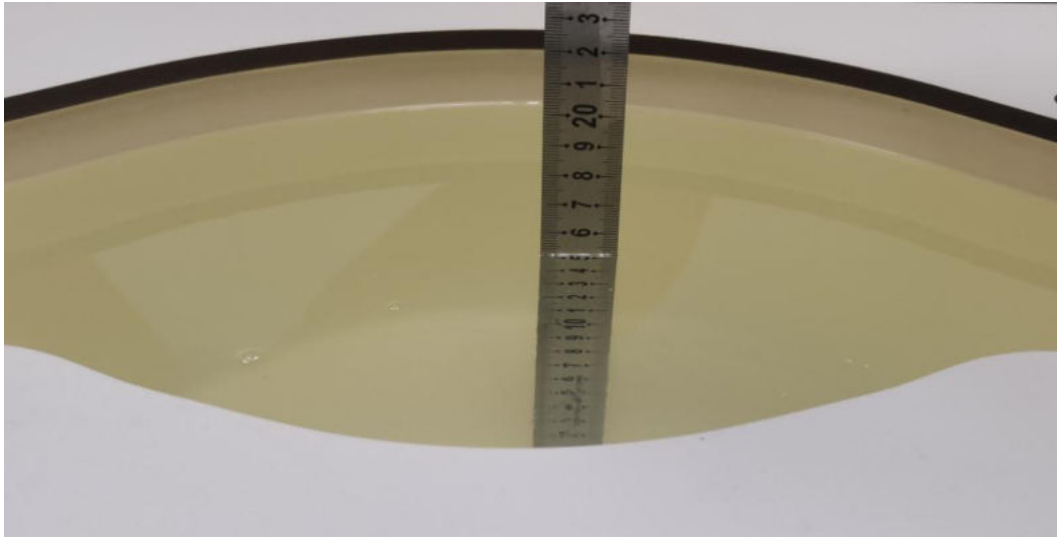
Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528- 2013 is not required in SAR reports submitted for equipment approval.

ANNEX A: Test Layout



Tissue Simulating Liquids

For the measurement of the field distribution inside the flat phantom with DASY, the phantom must be filled with around 25 liters of homogeneous tissue simulating liquid. For SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is ≥ 15 cm, which is shown as below.



Picture 3: Liquid depth in the flat Phantom

ANNEX B: System Check Results

Plot 1 System Performance Check at 750 MHz TSL

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3

Date: 2025/9/20

Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750$ MHz; $\sigma = 0.889$ S/m; $\epsilon_r = 42.811$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.80, 9.80, 9.80); Calibrated: 2025/5/28

Electronics: DAE4 Sn1692; Calibrated: 2024/12/03

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=15mm, Pin=250mW/Area Scan (4x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.15 W/kg

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.397 V/m; Power Drift = 0.03 dB

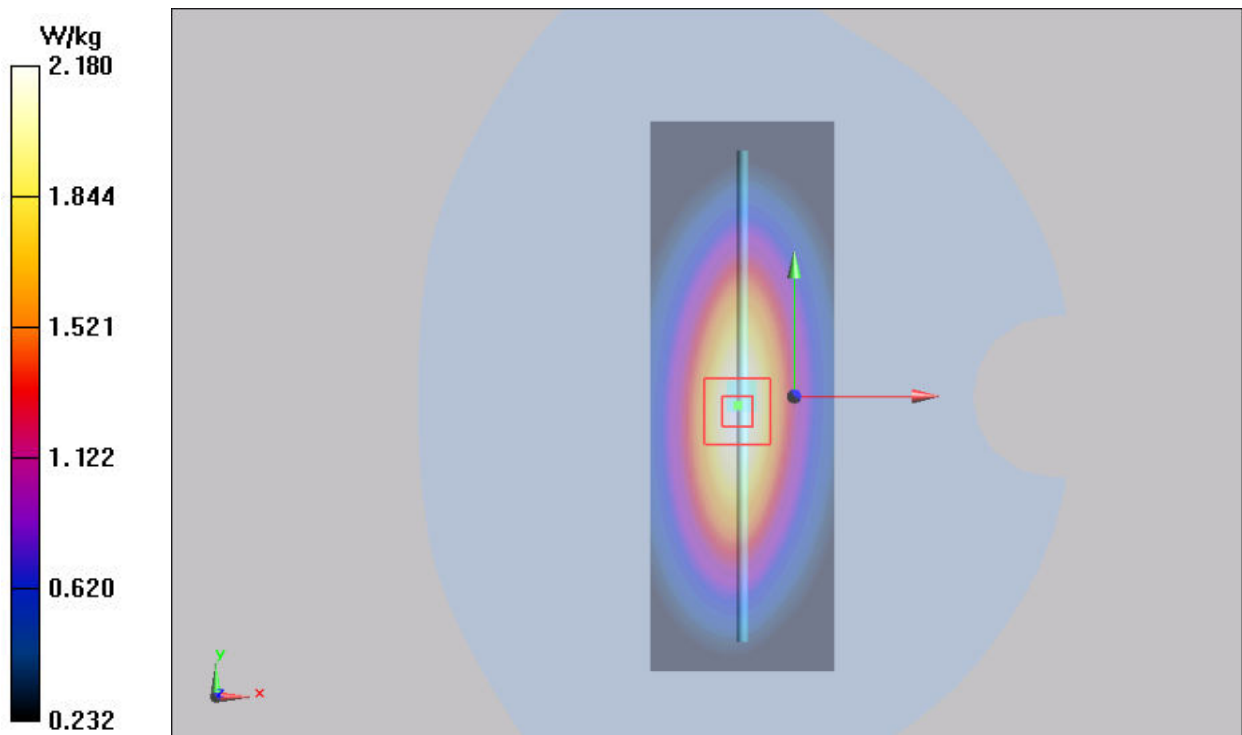
Peak SAR (extrapolated) = 3.10 W/kg

SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.34 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 61.4%

Maximum value of SAR (measured) = 2.180 W/kg



Plot 2 System Performance Check at 835 MHz TSL

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2

Date: 2025/9/19

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.942 \text{ S/m}$; $\epsilon_r = 42.398$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.42, 9.42, 9.42); Calibrated: 2025/5/28

Electronics: DAE4 Sn1692; Calibrated: 2024/12/03

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=15mm, Pin=250mW/Area Scan (4x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 2.61 W/kg

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 55.249 V/m ; Power Drift = -0.021 dB

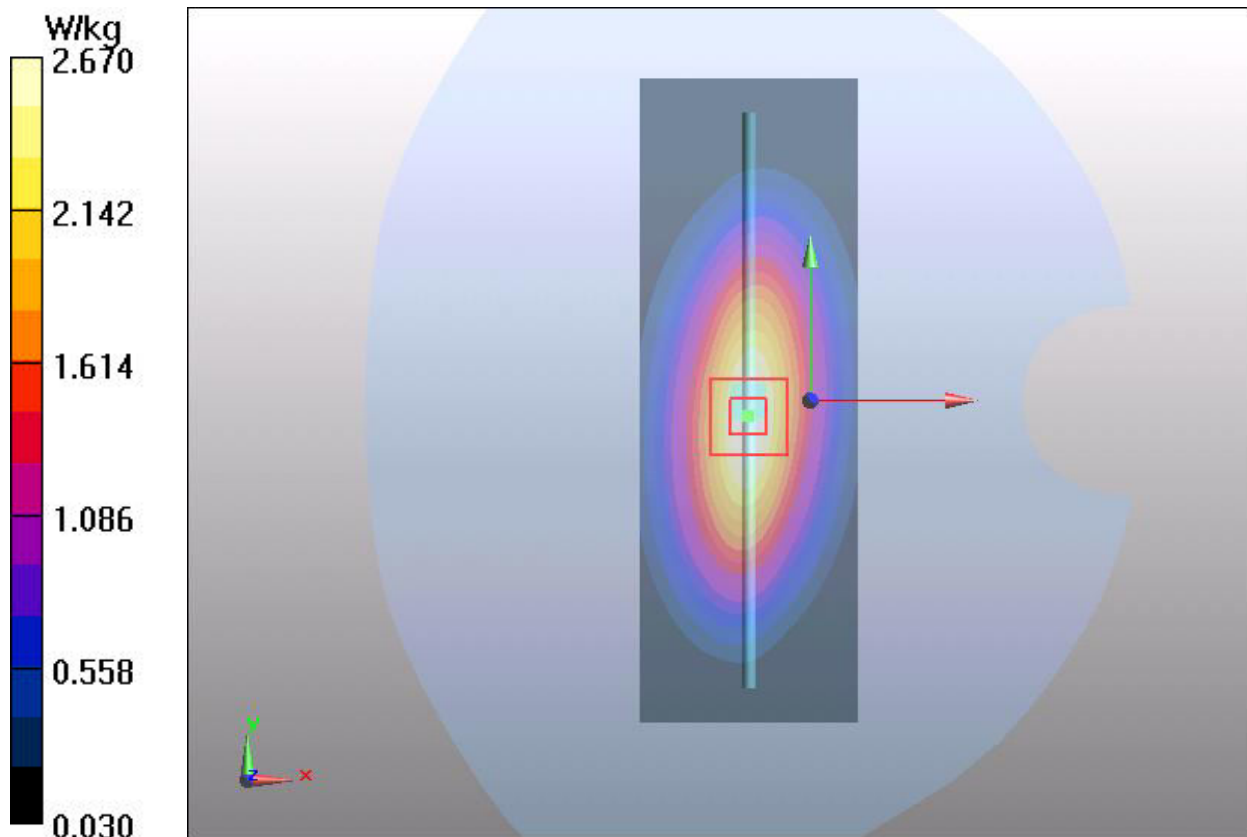
Peak SAR (extrapolated) = 3.94 W/kg

SAR(1 g) = 2.43 W/kg ; SAR(10 g) = 1.54 W/kg

Smallest distance from peaks to all points 3 dB below = 14.7 mm

Ratio of SAR at M2 to SAR at M1 = 69.4%

Maximum value of SAR (measured) = 2.67 W/kg



Plot 3System Performance Check at 1750 MHz TSL**DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2**

Date: 2025/9/23

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.338$ S/m; $\epsilon_r = 38.977$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.29, 8.29, 8.29); Calibrated: 2025/5/28

Electronics: DAE4 Sn1692; Calibrated: 2024/12/03

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.11 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 78.648 V/m; Power Drift = 0.023 dB

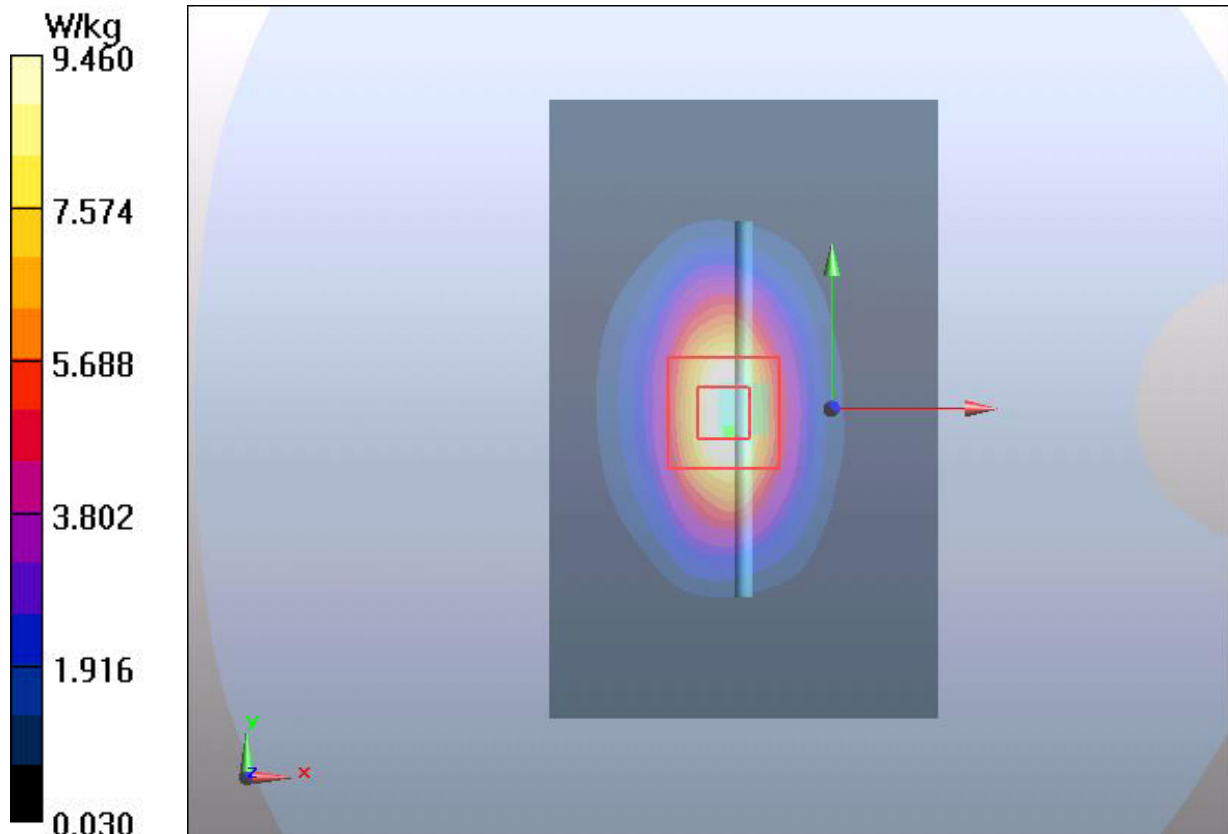
Peak SAR (extrapolated) = 15.74 W/kg

SAR(1 g) = 8.96 W/kg; SAR(10 g) = 4.75 W/kg

Smallest distance from peaks to all points 3 dB below = 10.6mm

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 9.46 W/kg



Plot 4 System Performance Check at 1900 MHz

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2

Date: 2025/9/22

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.409$ S/m; $\epsilon_r = 38.748$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.94, 7.94, 7.94); Calibrated: 2025/5/28

Electronics: DAE4 Sn1692; Calibrated: 2024/12/03

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.86 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.368 V/m; Power Drift = 0.013 dB

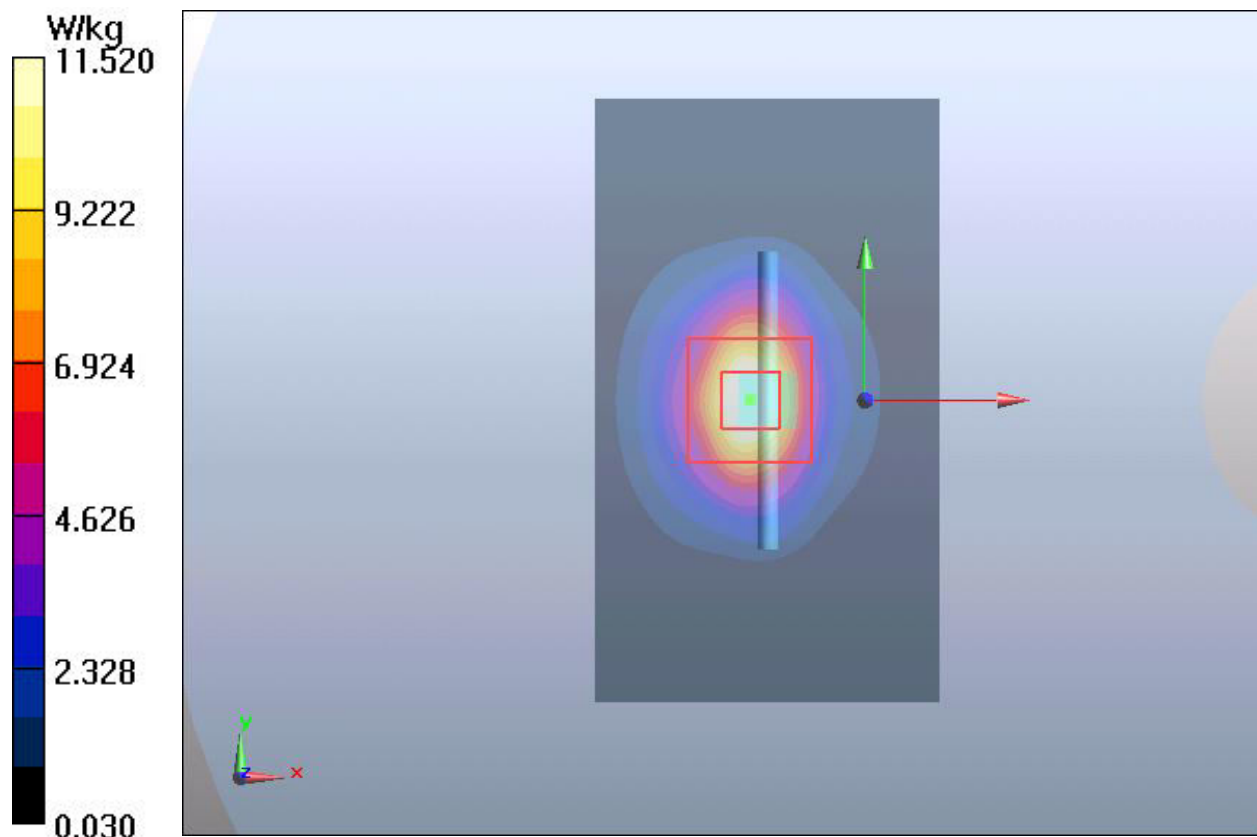
Peak SAR (extrapolated) = 20.12 W/kg

SAR(1 g) = 9.55 W/kg; SAR(10 g) = 4.99 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.5%

Maximum value of SAR (measured) = 11.52 W/kg



Plot 5 System Performance Check at 2300 MHz TSL

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2

Date: 2025/9/25

Communication System: CW Frequency: 2300 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2300$ MHz; $\sigma = 1.617$ S/m; $\epsilon_r = 39.102$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.79, 7.79, 7.79); Calibrated: 2025/5/28

Electronics: DAE4 Sn1692; Calibrated: 2024/12/03

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 8.82 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.215 V/m; Power Drift = 0.015 dB

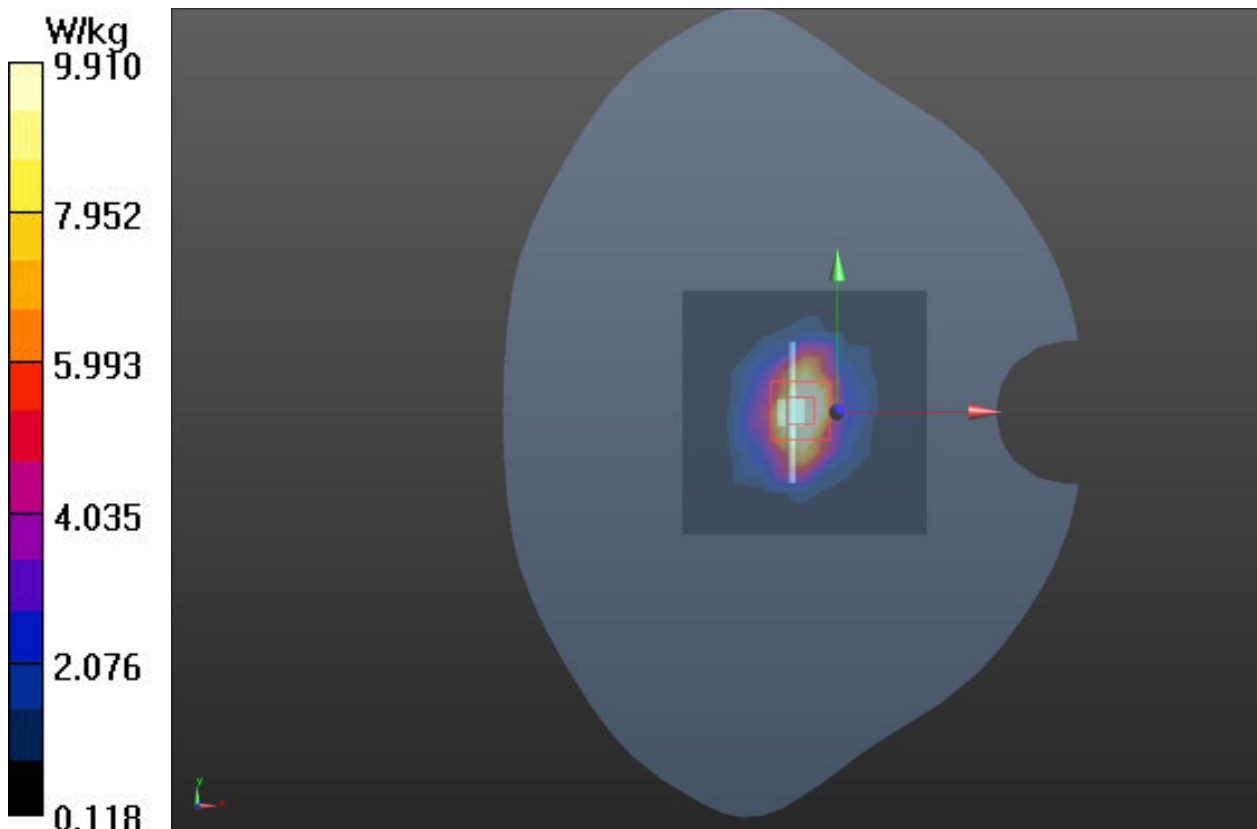
Peak SAR (extrapolated) = 17.52 W/kg

SAR(1 g) = 8.63 W/kg; SAR(10 g) = 4.25 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 51.2%

Maximum value of SAR (measured) = 9.91W/kg



Plot 6System Performance Check at 2450 MHz TSL

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2

Date: 2025/9/26

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.782$ S/m; $\epsilon_r = 38.591$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.53, 7.53, 7.53); Calibrated: 2025/5/28

Electronics: DAE4 Sn1692; Calibrated: 2024/12/03

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 9.21 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 79.154 V/m; Power Drift = 0.013 dB

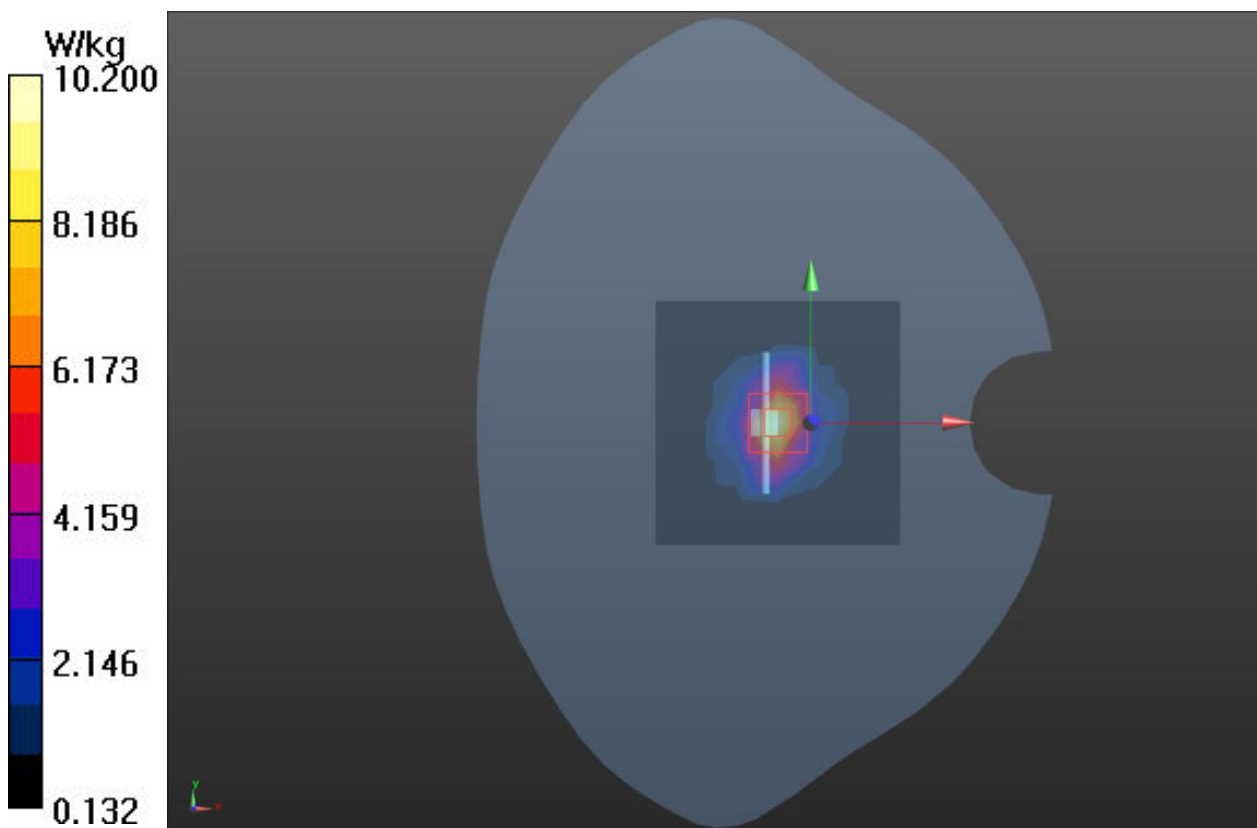
Peak SAR (extrapolated) = 21.11 W/kg

SAR(1 g) = 9.14 W/kg; SAR(10 g) = 4.16 W/kg

Smallest distance from peaks to all points 3 dB below = 8.3 mm

Ratio of SAR at M2 to SAR at M1 = 48.2%

Maximum value of SAR (measured) = 10.2 W/kg



Plot 8 System Performance Check at 5250 MHz TSL**DUT: Dipole 5250 MHz; Type: D5GHzV2; Serial: D5GHzV2**

Date: 2025/9/26

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.791$ S/m; $\epsilon_r = 35.292$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(5.50, 5.50, 5.50); Calibrated: 2025/5/28

Electronics: DAE4 Sn1692; Calibrated: 2024/12/03

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=100mW/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 8.29 W/kg

d=10mm, Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 38.436 V/m; Power Drift = 0.015 dB

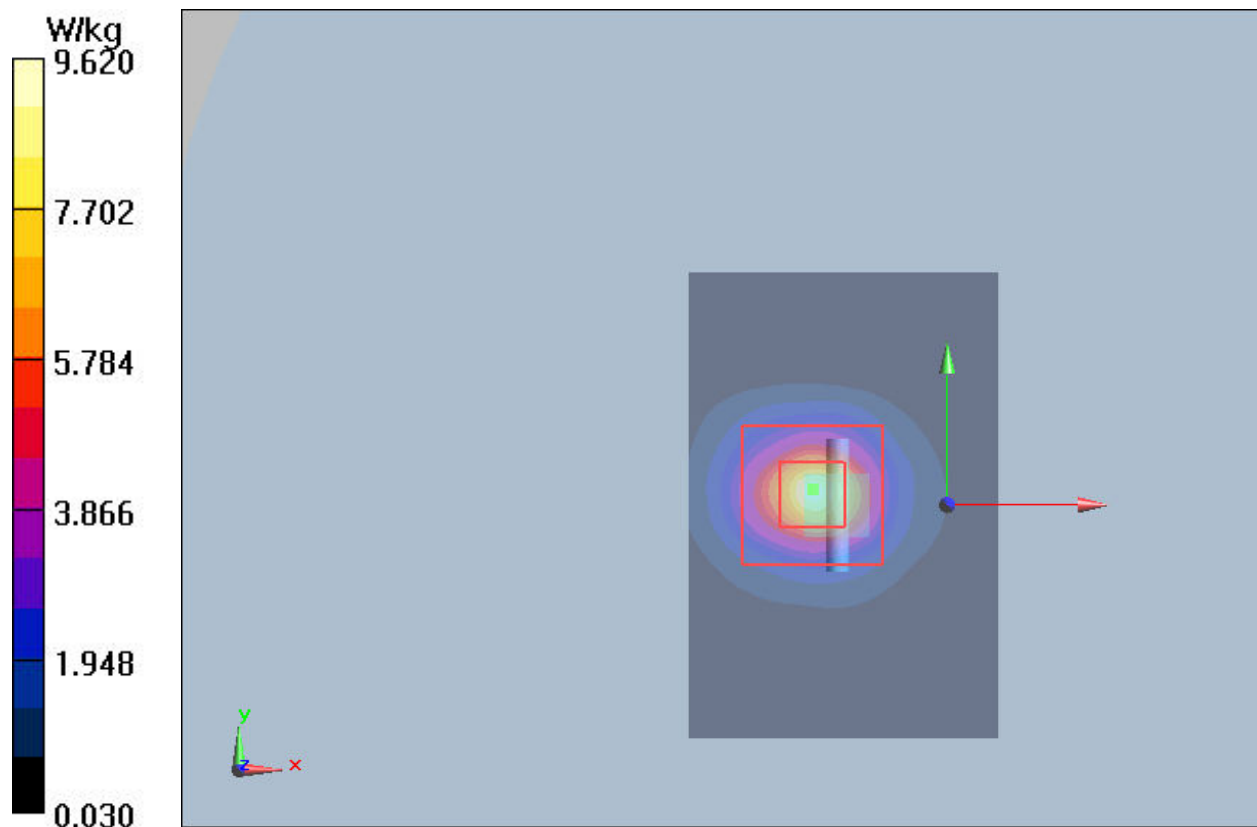
Peak SAR (extrapolated) = 48.60 W/kg

SAR(1 g) = 7.46 W/kg; SAR(10 g) = 2.26 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 61.5%

Maximum value of SAR (measured) = 9.62 W/kg



Plot 9 System Performance Check at 5600 MHz TSL

DUT: Dipole 5600 MHz; Type: D5GHzV2; Serial: D5GHzV2

Date: 2025/9/26

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.179$ S/m; $\epsilon_r = 34.532$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(4.90, 4.90, 4.90); Calibrated: 2025/5/28

Electronics: DAE4 Sn1692; Calibrated: 2024/12/03

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=100mW/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 8.31 W/kg

d=10mm, Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 22.647 V/m; Power Drift = 0.044 dB

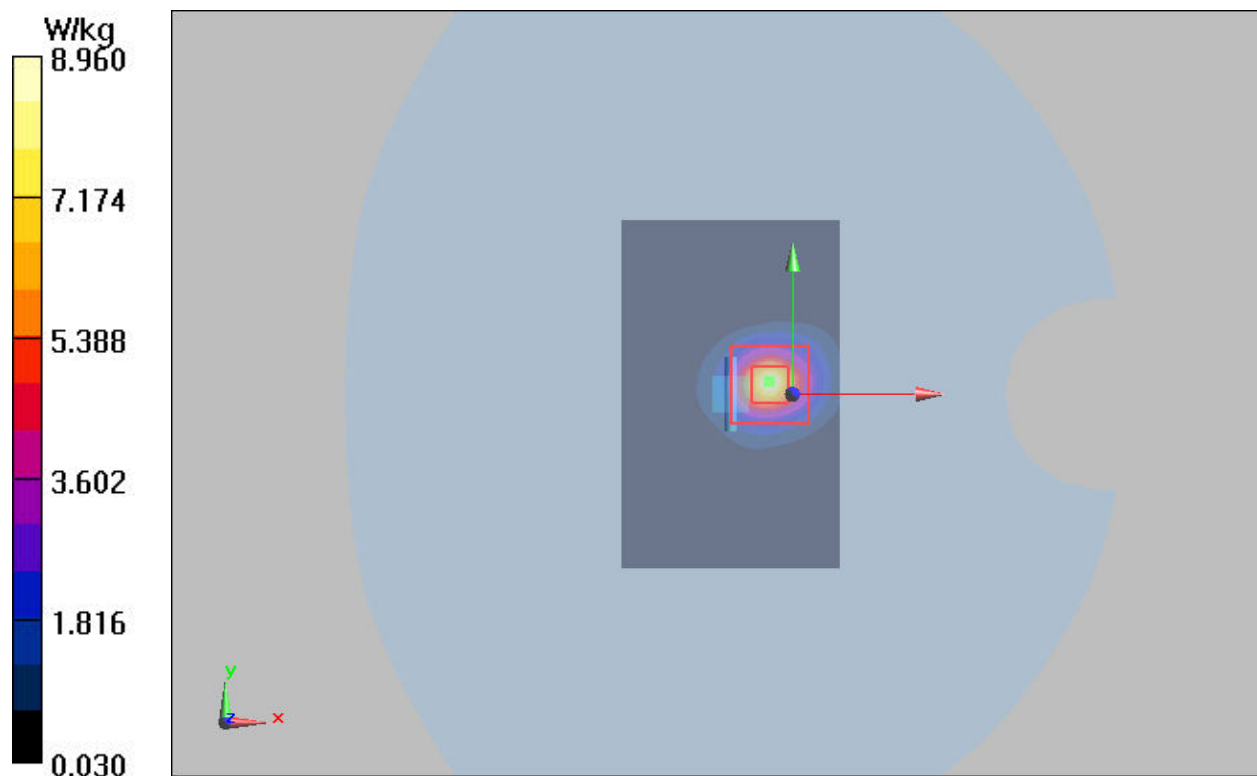
Peak SAR (extrapolated) = 22.6 W/kg

SAR(1 g) = 7.94 W/kg; SAR(10 g) = 2.29 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 62.3%

Maximum value of SAR (measured) = 8.96 W/kg



Plot 10 System Performance Check at 5750 MHz TSL

DUT: Dipole 5750 MHz; Type: D5GHzV2; Serial: D5GHzV2

Date: 2025/9/26

Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.346$ S/m; $\epsilon_r = 34.206$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(5.01, 5.01, 5.01); Calibrated: 2025/5/28

Electronics: DAE4 Sn1692; Calibrated: 2024/12/03

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=100mW/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 8.52 W/kg

d=10mm, Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 26.758 V/m; Power Drift = -0.080 dB

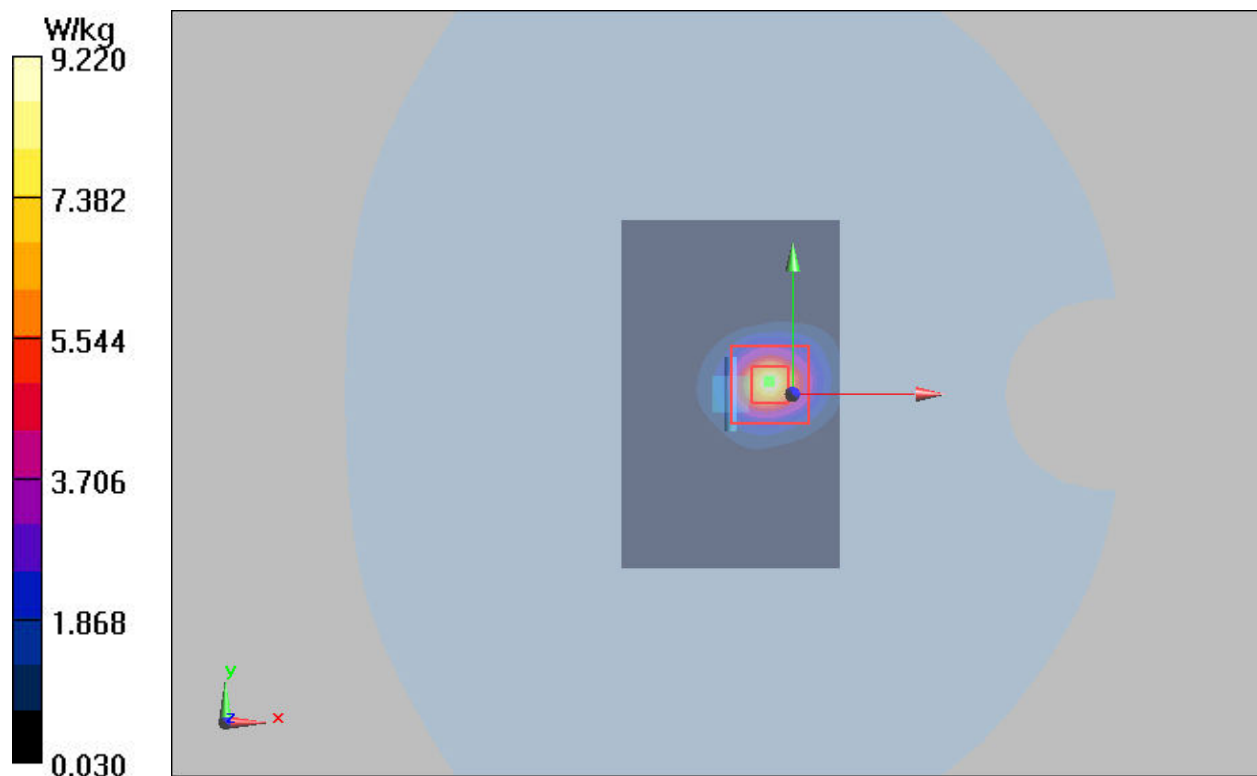
Peak SAR (extrapolated) = 24.52 W/kg

SAR(1 g) = 7.72 W/kg; SAR(10 g) = 2.13 W/kg

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 61.4%

Maximum value of SAR (measured) = 9.22 W/kg



ANNEX C: Highest Graph Results

Plot 11 GSM 850 GPRS(2TX) Back Side High (Distance 0mm)

Date: 2025/9/19

Communication System: UID 0, GPRS 2TX (0); Frequency: 848.8 MHz; Duty Cycle: 1:4.14

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.955$ S/m; $\epsilon_r = 42.342$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C

Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.42, 9.42, 9.42); Calibrated: 2025/5/28

Electronics: DAE4 Sn1692; Calibrated: 2024/12/03

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GSM 850 Back Side 0mm/High/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.20 W/kg

GSM 850 Back Side 0mm/High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.91 V/m; Power Drift = -0.167 dB

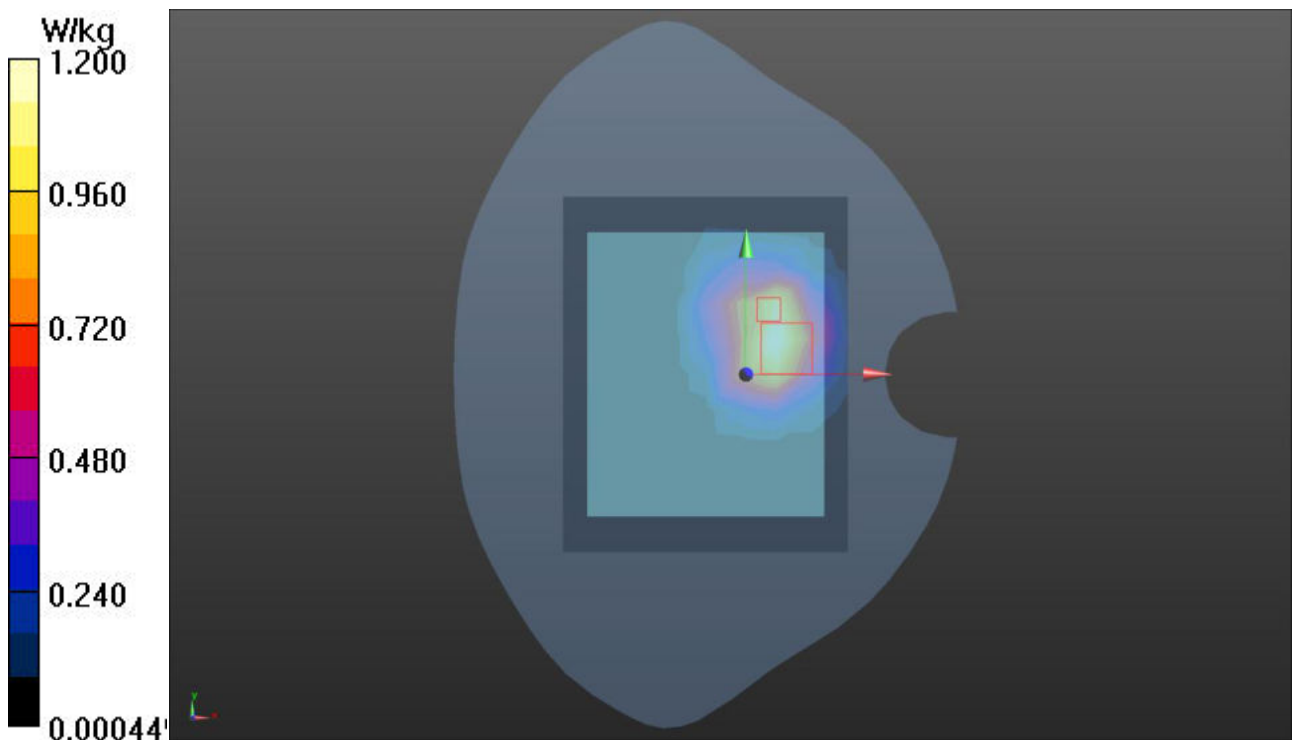
Peak SAR (extrapolated) = 2.86 W/kg

SAR(1 g) = 0.844 W/kg; SAR(10 g) = 0.381 W/kg

Smallest distance from peaks to all points 3 dB below = 16.4 mm

Ratio of SAR at M2 to SAR at M1 = 53.3%

Maximum value of SAR (measured) = 1.20 W/kg



Plot 12 WCDMA Band II Back Side Middle (Distance 0mm)

Date: 2025/9/22

Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.396$ S/m; $\epsilon_r = 38.778$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C

Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(7.94, 7.94, 7.94); Calibrated: 2025/5/28

Electronics: DAE4 Sn1692; Calibrated: 2024/12/03

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMS B2 Back Side 0mm/Mid/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.772 W/kg

WCDMS B2 Back Side 0mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.700 V/m; Power Drift = 0.122 dB

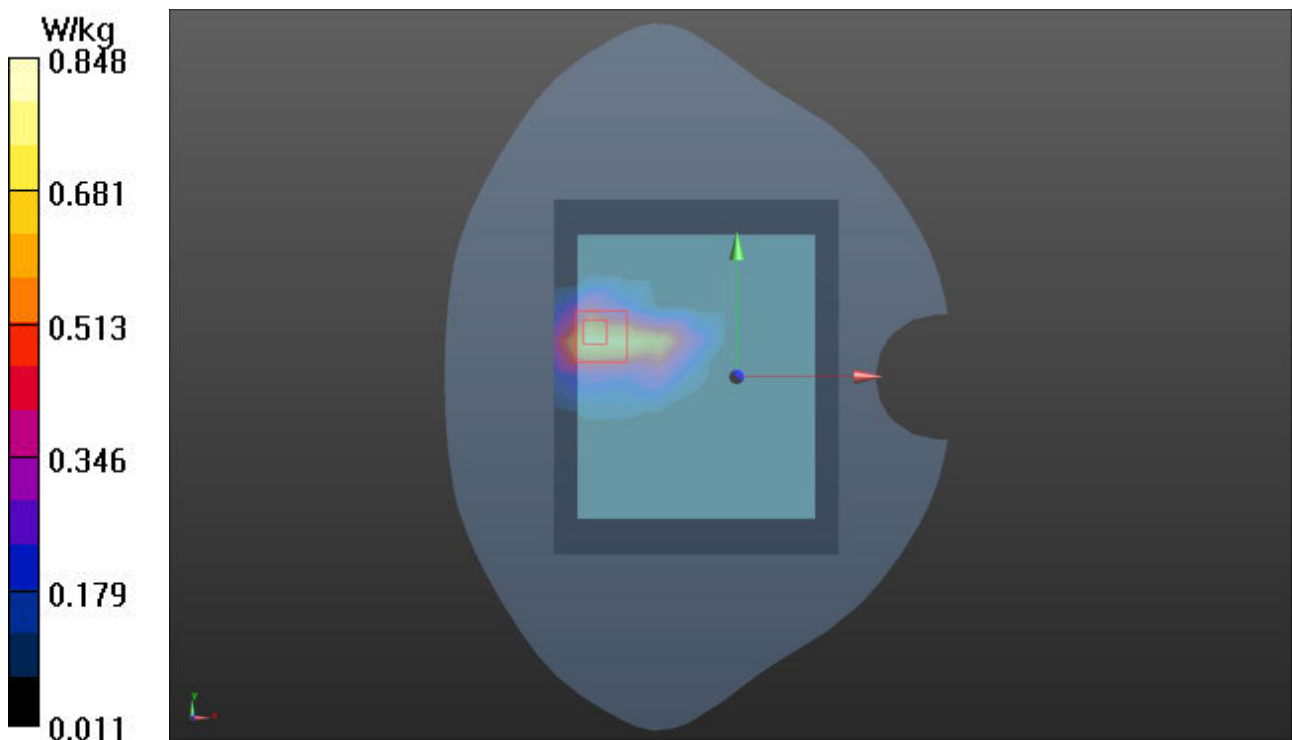
Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.406 W/kg

Smallest distance from peaks to all points 3 dB below = 9.7 mm

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 0.848 W/kg



Plot 13 WCDMA Band IV Back Side Middle (Distance 0mm)

Date: 2025/9/23

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.315$ S/m; $\epsilon_r = 39.07$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C

Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(8.29, 8.29, 8.29); Calibrated: 2025/5/28

Electronics: DAE4 Sn1692; Calibrated: 2024/12/03

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMS B4 Back Side 0mm/Mid/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.801 W/kg

WCDMS B4 Back Side 0mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.971 V/m; Power Drift = 0.122 dB

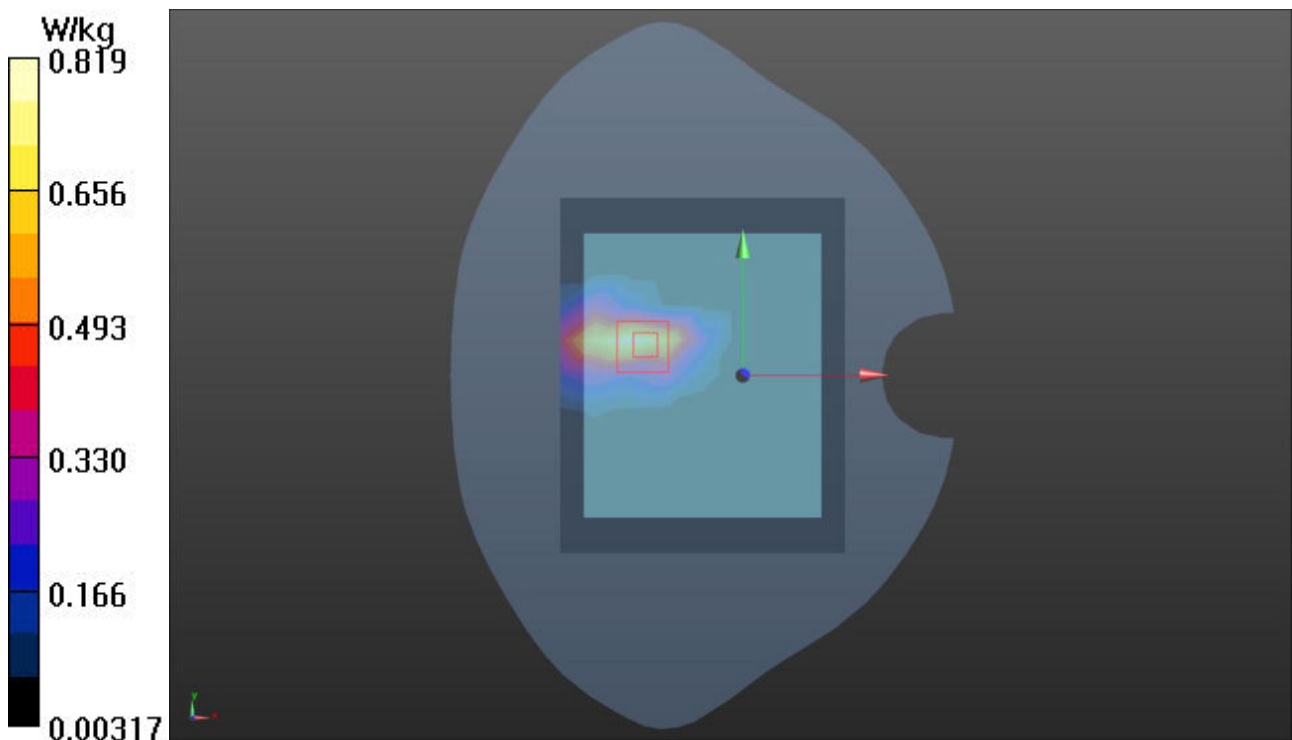
Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.723 W/kg; SAR(10 g) = 0.370 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 53.9%

Maximum value of SAR (measured) = 0.819 W/kg



Plot 14 WCDMA Band V Back Side Middle (Distance 0mm)

Date: 2025/9/19

Communication System: UID 0, WCDMA (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.946$ S/m; $\epsilon_r = 42.394$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C

Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.42, 9.42, 9.42); Calibrated: 2025/5/28

Electronics: DAE4 Sn1692; Calibrated: 2024/12/03

Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA B5 Back Side 0mm/Mid/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.576 W/kg

WCDMA B5 Back Side 0mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.21 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.605 W/kg; SAR(10 g) = 0.341 W/kg

Smallest distance from peaks to all points 3 dB below = 14.3 mm

Ratio of SAR at M2 to SAR at M1 = 48.2%

Maximum value of SAR (measured) = 0.639 W/kg

