

SAR TEST REPORT

Applicant Shanghai Sunmi Technology Co.,Ltd.
FCC ID 2AH25T5F2A
Product Portable Data Processing Terminal
Brand SUNMI
Model T5F2A
Report No. EFTA25070074-IE-09-S1
Issue Date March 11, 2026

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**. The test results show that the equipment tested can demonstrate compliance with the requirements as documented in this report.


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1 Test Laboratory

1.1 Notes of the Test Report

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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

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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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 Body SAR (Separation 10mm) & Triggering distance minus 1mm	10g Extremity SAR (Separation 0mm)
GSM 850	0.19	0.70
GSM 1900	1.00	1.46
WCDMA Band II	0.62	1.00
WCDMA Band IV	0.71	1.22
WCDMA Band V	0.24	0.73
LTE FDD 7	0.78	1.46
LTE FDD 12 (LTE FDD 17)	0.17	0.54
LTE FDD 13	0.32	0.66
LTE FDD 25 (LTE FDD 2)	0.63	0.90
LTE FDD 26 (LTE FDD 5)	0.24	0.60
LTE TDD 41 (LTE TDD 38)	0.55	1.34
LTE FDD 66 (LTE FDD 4)	0.64	1.20
LTE FDD 71	0.33	0.62
Wi-Fi (2.4GHz)	0.09	0.27
Wi-Fi (5GHz)	1.23	1.35
Bluetooth	0.04	0.14
Date of Testing: Original: August 13, 2025 ~ August 25, 2025; Variant: December 19, 2025		
Date of Sample Received: Original: July 28, 2025; Variant: July 28, 2025		
Note:		
1. The device is in compliance with SAR for Uncontrolled Environment /General Population exposure limits (1.6 W/kg and 4.0 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.		

Note:

According to TCB workshop October, 2014 RF Exposure Procedures Update (Overlapping LTE Bands):

Main Antenna SAR for LTE Band 17 (Frequency range: 704-716 MHz) is covered by LTE Band 12 (Frequency range 699-716 MHz); LTE Band 4 (Frequency range 1710-1755 MHz) is covered by LTE Band 66 (Frequency range: 1710-1780 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 2 (Frequency range 1850-1910 MHz) is covered by LTE Band 25 (Frequency range: 1850-1915 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

Table 2: Highest Simultaneous Transmission SAR

Original:

Exposure Configuration	1g Body SAR	10g Extremity SAR
Highest Simultaneous Transmission SAR (W/kg)	1.46	1.82
Note: The detail for simultaneous transmission consideration is described in chapter 10.3.		

Variant:

This report does not cover the Wi-Fi 6E concurrent transmission section; the Wi-Fi 6E concurrent transmission is detailed in other reports.

Exposure Configuration	1g Body SAR	10g Extremity SAR
Highest Simultaneous Transmission SAR (W/kg)	1.46	1.80
Note: The detail for simultaneous transmission consideration is described in chapter 10.3.		

This report is a variant model of Report EFTA25070074-IE-03-S1.

The differences between variant and original is as below:

Description		CPU	Frequency Band	FCC ID	IC	HVIN	Front Camera	eSIM	NFC	scanner	LCD
Original (Main test prototype)	Configuration 1	6225	2G:B2/3/5/8 3G:B1/2/4/5/6/8/19 4G:B1/2/3/4/5/7/8/12/13/17/ 18/19/20/25/26/28/30/6617 1/34/38/39/40/41	2AH25T5F2AN	22621-T5F2AN	T5F2AN	Y	Y	Y	Y	TXDY675EB APUB-13V9
variant	Configuration 2	6225	2G:B2/3/5/8 3G:B1/2/4/5/6/8/19 4G:B1/2/3/4/5/7/8/12/13/17/ 18/19/20/25/26/28/30/6617 1/34/38/39/40/41	2AH25T5F2A	22621-T5F2A	T5F2A	N	N	N	N	TXDY675EB APUB-13V8

The difference lies in the fact that the hardware has been removed. Except this, the others are all the same, and the changed parts do not affect other wireless performance.

Tested bands refer to the following table:

Band	Original (T5F2A)	Variant (T5F2A)
GSM 850	Pass	Only tested with worst case of Original
GSM 1900	Pass	
WCDMA Band II	Pass	
WCDMA Band IV	Pass	
WCDMA Band V	Pass	
LTE FDD 7	Pass	
LTE FDD 12 (LTE FDD 17)	Pass	
LTE FDD 13	Pass	
LTE FDD 25 (LTE FDD 2)	Pass	
LTE FDD 26 (LTE FDD 5)	Pass	
LTE TDD 41 (LTE TDD 38)	Pass	
LTE FDD 66 (LTE FDD 4)	Pass	
LTE FDD 71	Pass	
Wi-Fi (2.4GHz)	Pass	
Wi-Fi (5GHz)	Pass	
Bluetooth	Pass	

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	T5F2A
IMEI	(Original)IMEI1: 866793080500948; IMEI2: 866793080503074 (Variant)IMEI1:861616080500748; IMEI2:861616080501613
Hardware Version	SM08_MB_V1.1
Software Version	4.0.0
Antenna Type	Internal Antenna
Wi-Fi Hotspot	Wi-Fi 2.4GHz Wi-Fi 5GHz U-NII-1&U-NII-3
Power Class	GSM 850: 4 GSM 1900: 1 WCDMA Band II/IV/V: 3 LTE FDD 2/4/5/7/12/13/17/25/26/66/71: 3 LTE TDD 38/41: 3
Power Level	GSM 850: level 5 GSM 1900: level 0 WCDMA Band II/IV/V: all up bits LTE FDD 2/4/5/7/12/13/17/25/26/66/71: max power LTE TDD 38/41: max power
EUT Accessory	
Battery 1	Manufacturer: Guangdong Highpower New Energy Technology Co., Ltd. Model: HPPE
Adapter 1	Manufacturer: Shenzhen Tianyin Electronics Co.,Ltd. Model: TD-661G120167UF01
Adapter 2	Manufacturer: Jiangsu Chenyang Electron Co., Ltd. Model: UC13US
Note: The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.	

Wireless Technology and Frequency Range

Wireless Technology		Modulation	Operating mode	Tx (MHz)	Rx (MHz)		
GSM	850	Voice(GMSK) GPRS(GMSK) EGPRS(GMSK,8PSK)	☐ Multi-slot Class:8-1UP ☐ Multi-slot Class:10-2UP ☒ Multi-slot Class:12-4UP ☐ Multi-slot Class:33-4UP	824 ~ 849	869 ~ 894		
	1900			1850 ~ 1910	1930 ~ 1990		
	Does this device support DTM (Dual Transfer Mode)? ☐ Yes ☒ No						
WCDMA	Band II	QPSK	HSDPA UE Category:24 HSUPA UE Category:6	1850 ~ 1910	1930 ~ 1990		
	Band IV			1710 ~ 1755	2110 ~ 2155		
	Band V			824 ~ 849	869 ~ 894		
LTE	FDD 2	QPSK, 16QAM	Rel.10 /Category 4	1850 ~ 1910	1930 ~ 1990		
	FDD 4			1710 ~ 1755	2110 ~ 2155		
	FDD 5			824 ~ 849	869 ~ 894		
	FDD 7			2500 ~ 2570	2620 ~ 2690		
	FDD 12			699 ~ 716	729 ~ 746		
	FDD 13			777 ~ 787	746 ~ 756		
	FDD 17			704 ~ 716	734 ~ 746		
	FDD 25			1850 ~ 1915	1930 ~ 1995		
	FDD 26			814 ~ 849	859 ~ 894		
	TDD 38			2570 ~ 2620	2570 ~ 2620		
	TDD 41			2496 ~ 2690	2496 ~ 2690		
	FDD 66			1710 ~ 1780	2110 ~ 2180		
	FDD 71			663 ~ 698	617 ~ 652		
	Does this device support Carrier Aggregation (CA) ☐ Yes downlink only ☒ No						
	Does this device support SV-LTE (1xRTT-LTE)? ☐ Yes ☒ No						
Bluetooth	2.4GHz	Version 5.3 BR/EDR + LE		2402 ~2480	2402 ~2480		
Wi-Fi	2.4GHz	DSSS, OFDM,OFDMA	802.11b/g/n/ax HT20 ax HE20	2412 ~ 2462	2412 ~ 2462		
	5GHz	OFDM,OFDMA	802.11a/n HT20/ HT40/ ac VHT20/ VHT40/ VHT80	5150 ~ 5250	5150 ~ 5250		
				5250 ~ 5350	5250 ~ 5350		
				5470 ~ 5725	5470 ~ 5725		
				5725 ~ 5850	5725 ~ 5850		
Does this device support MIMO ☒ Yes ☐ No							

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 941225 D06 Hotspot Mode v02r01

5 Operational Conditions during Test

5.1 Test Positions

5.1.1 Body Worn Configuration

Per KDB 447498 D01 General RF Exposure Guidance v06:

Devices that support transmission while used with body-worn accessories must be tested for body worn accessory SAR compliance. SAR evaluation is required for body-worn accessories supplied with the host device. The test configurations must be conservative for supporting the body-worn accessory use conditions expected by users.

5.1.2 Extremity exposure conditions

Per KDB 447498 D01 General RF Exposure Guidance v06:

Devices that are designed or intended for use on extremities, or mainly operated in extremity only exposure conditions, i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation.²⁶ When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1-g body and 10-g extremity SAR Test Exclusion Thresholds should be applied to determine SAR test requirements. When extremity SAR testing is required, a flat phantom must be used.

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

5.3.1 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.

5.3.2 WCDMA Test Configuration

5.3.2.1 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.

5.3.2.2 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

5.3.2.3 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 $\beta_d = 15/15$.							

5.3.2.4 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	11484	5.76
	4	4	10	SF4	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)

5.3.3 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.

5.3.4 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.

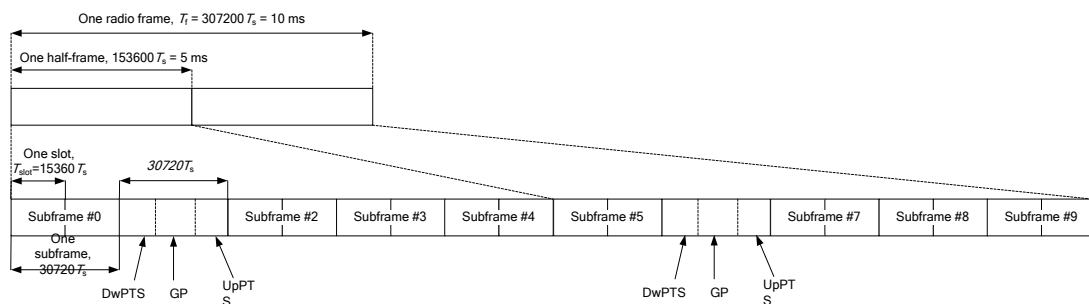


Figure 1: Frame structure type 2

Table 7: Configuration of Special Subframe (Lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 8: 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):

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

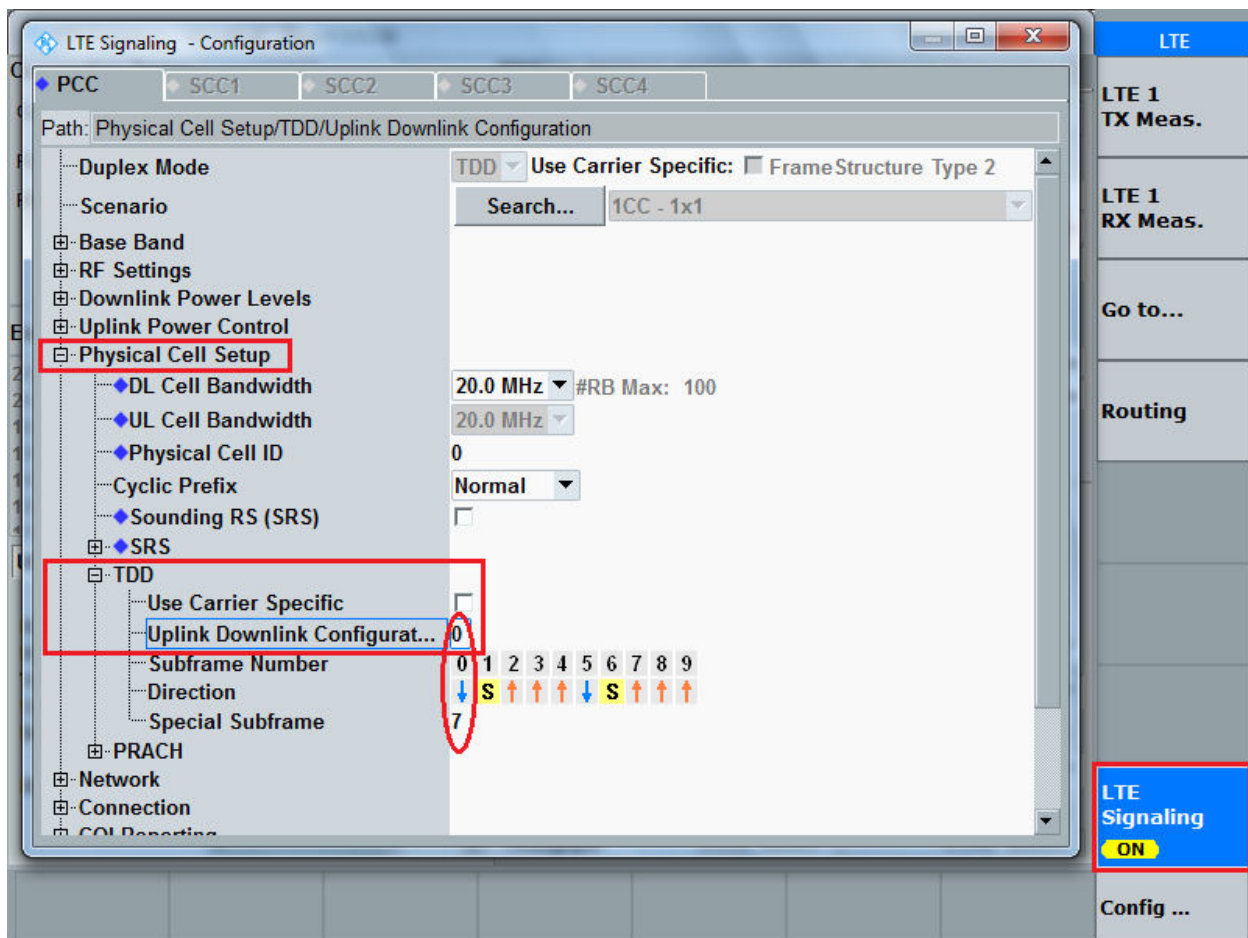
In conclusion, for the TDD LTE Band, Duty Cycle can be calculated with formula as below. All these sets are ok when we test, or we can set as below.

$$\text{Duty cycle} = [(30720T_s \cdot \text{Ups}) + \text{UpPTS} \cdot \text{Specials}] / (307200T_s)$$

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



5.3.5 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.

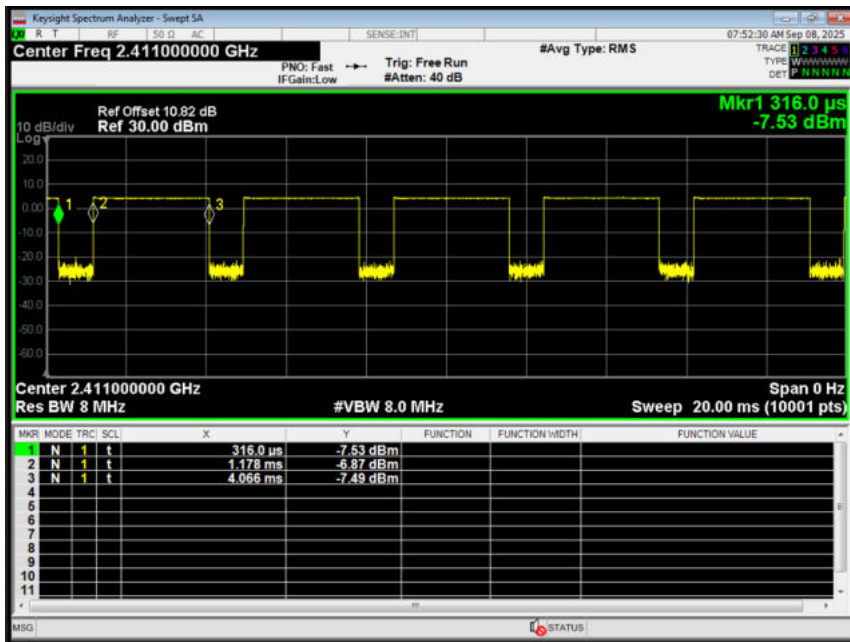
To determine the initial test position, Area Scans were performed to determine the position with the Maximum Value of SAR (measured). The position that produced the highest Maximum Value of SAR is considered the worst case position; thus used as the initial test position.

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.

5.3.6 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 3DH5.

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= 77.0%

5.3.7 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.

Main Antenna				
Band	Test Position	Sensor Trigger Distance Range (DUT to Phantom)	Power Reduction Amount(dB)	Power Level
GSM 1900	Back Side	0mm≤Distance≤17mm	7.5	Sensor off
		17mm<Distance	0	Sensor on
	Front Side	/	0	Sensor off
	Left Edge	/	0	Sensor off
	Right Edge	0mm≤Distance≤25mm	7.5	Sensor on
		25mm<Distance	0	Sensor off
	Top Edge	/	0	Sensor off
	Bottom Edge	0mm≤Distance≤17mm	0	Sensor off
WCDMA Band2	Back Side	0mm≤Distance≤17mm	5	Sensor off
		17mm<Distance	0	Sensor on
	Front Side	/	0	Sensor off

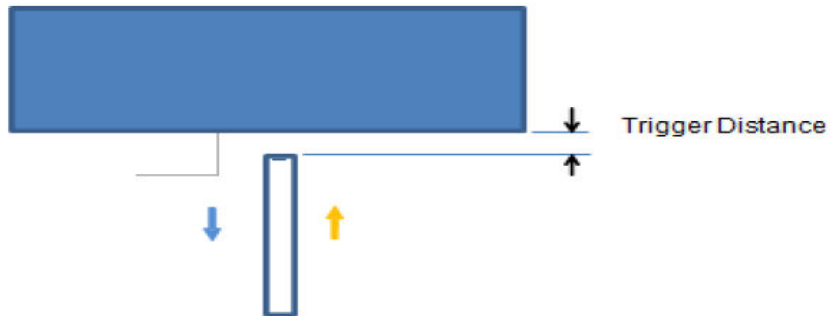
	Left Edge	/	0	Sensor off
	Right Edge	0mm≤Distance≤25mm	5	Sensor on
		25mm<Distance	0	Sensor off
	Top Edge	/	0	Sensor off
	Bottom Edge	0mm≤Distance≤17mm	0	Sensor off
WCDMA Band4	Back Side	0mm≤Distance≤17mm	6	Sensor off
		17mm<Distance	0	Sensor on
	Front Side	/	0	Sensor off
	Left Edge	/	0	Sensor off
	Right Edge	0mm≤Distance≤25mm	6	Sensor on
		25mm<Distance	0	Sensor off
	Top Edge	/	0	Sensor off
	Bottom Edge	0mm≤Distance≤17mm	0	Sensor off
LTE Band2	Back Side	0mm≤Distance≤17mm	5	Sensor off
		17mm<Distance	0	Sensor on
	Front Side	/	0	Sensor off
	Left Edge	/	0	Sensor off
	Right Edge	0mm≤Distance≤25mm	5	Sensor on
		25mm<Distance	0	Sensor off
	Top Edge	/	0	Sensor off
	Bottom Edge	0mm≤Distance≤17mm	0	Sensor off
LTE Band4	Back Side	0mm≤Distance≤17mm	5	Sensor off
		17mm<Distance	0	Sensor on
	Front Side	/	0	Sensor off
	Left Edge	/	0	Sensor off
	Right Edge	0mm≤Distance≤25mm	5	Sensor on
		25mm<Distance	0	Sensor off
	Top Edge	/	0	Sensor off
	Bottom Edge	0mm≤Distance≤17mm	0	Sensor off
LTE Band7	Back Side	0mm≤Distance≤17mm	6	Sensor off
		17mm<Distance	0	Sensor on
	Front Side	/	0	Sensor off
	Left Edge	/	0	Sensor off
	Right Edge	0mm≤Distance≤25mm	6	Sensor on
		25mm<Distance	0	Sensor off
	Top Edge	/	0	Sensor off
	Bottom Edge	0mm≤Distance≤17mm	0	Sensor off

LTE Band25	Back Side	0mm≤Distance≤17mm	5	Sensor off
		17mm<Distance	0	Sensor on
	Front Side	/	0	Sensor off
	Left Edge	/	0	Sensor off
	Right Edge	0mm≤Distance≤25mm	5	Sensor on
		25mm<Distance	0	Sensor off
	Top Edge	/	0	Sensor off
	Bottom Edge	0mm≤Distance≤17mm	0	Sensor off
LTE Band38	Back Side	0mm≤Distance≤17mm	5.5	Sensor off
		17mm<Distance	0	Sensor on
	Front Side	/	0	Sensor off
	Left Edge	/	0	Sensor off
	Right Edge	0mm≤Distance≤25mm	5.5	Sensor on
		25mm<Distance	0	Sensor off
	Top Edge	/	0	Sensor off
	Bottom Edge	0mm≤Distance≤17mm	0	Sensor off
LTE Band41	Back Side	0mm≤Distance≤17mm	5.5	Sensor off
		17mm<Distance	0	Sensor on
	Front Side	/	0	Sensor off
	Left Edge	/	0	Sensor off
	Right Edge	0mm≤Distance≤25mm	5.5	Sensor on
		25mm<Distance	0	Sensor off
	Top Edge	/	0	Sensor off
	Bottom Edge	0mm≤Distance≤17mm	0	Sensor off
LTE Band66	Back Side	0mm≤Distance≤17mm	5	Sensor off
		17mm<Distance	0	Sensor on
	Front Side	/	0	Sensor off
	Left Edge	/	0	Sensor off
	Right Edge	0mm≤Distance≤25mm	5	Sensor on
		25mm<Distance	0	Sensor off
	Top Edge	/	0	Sensor off
	Bottom Edge	0mm≤Distance≤17mm	0	Sensor off

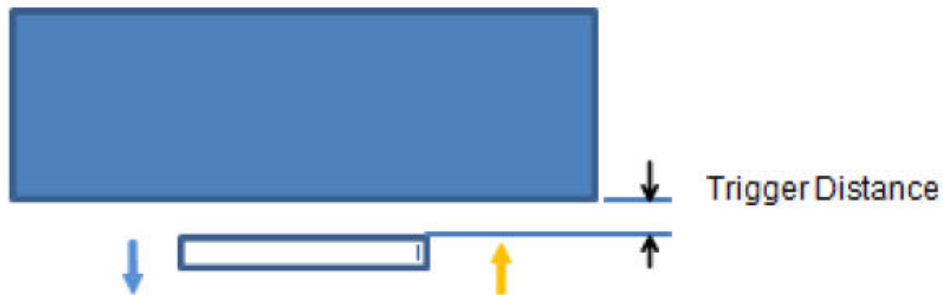
1. Proximity Sensor Coverage, Distance and Angle

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 (Right side)



Picture: Proximity sensor triggering distances assessment (Back side)

Table: Summary of Trigger Distances for MAIN Antenna

Band	Trigger Distance- Back Side		Trigger Distance- Right Edge	
	Moving toward Phantom	Moving away from Phantom	Moving toward Phantom	Moving away from Phantom
GSM 1900	17	17	25	25
WCDMA Band2	17	17	25	25
WCDMA Band4	17	17	25	25
LTE Band2	17	17	25	25
LTE Band4	17	17	25	25
LTE Band7	17	17	25	25
LTE Band25	17	17	25	25
LTE Band38	17	17	25	25
LTE Band41	17	17	25	25
LTE Band66	17	17	25	25

Table: Power Reduction Status (Moving toward phantom)

Position	Ant	Band	Power Reduction Status(dBm)																																			
			37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	4	1		
Back Side	Main Antenna	GSM 1900	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52
Back Side	Main Antenna	WCDMA B2	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94
Back Side	Main Antenna	WCDMA B4	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84
Back Side	Main Antenna	LTE B2	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	
Back Side	Main Antenna	LTE B4	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	
Back Side	Main Antenna	LTE B7	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	
Back Side	Main Antenna	LTE B25	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	
Back Side	Main Antenna	LTE B38	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	
Back Side	Main Antenna	LTE B41	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	
Back Side	Main Antenna	LTE B66	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	

Position	Ant	Band	Power Reduction Status(dBm)																																		
			37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	4	1	
Right Edge	Main Antenna	GSM 1900	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52	25.52
Right Edge	Main Antenna	WCDMA B2	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94	22.94
Right Edge	Main Antenna	WCDMA B4	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84
Right Edge	Main Antenna	LTE B2	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	
Right Edge	Main Antenna	LTE B4	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	
Right Edge	Main Antenna	LTE B7	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	
Right Edge	Main Antenna	LTE B25	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	23.66	
Right Edge	Main Antenna	LTE B38	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	23.80	
Right Edge	Main Antenna	LTE B41	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	23.81	
Right Edge	Main Antenna	LTE B66	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	23.85	

Table: Power Reduction Status (Moving away from phantom)

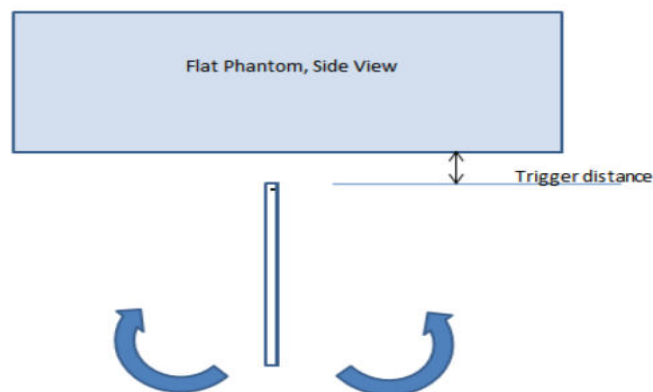
Position	Ant	Band	Power Reduction Status(dBm)																																			
			1	4	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37					
Back Side	Main Antenna	GSM 1900	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40		
Back Side	Main Antenna	WCDMA B2	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82		
Back Side	Main Antenna	WCDMA B4	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91		
Back Side	Main Antenna	LTE B2	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98		
Back Side	Main Antenna	LTE B4	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80		
Back Side	Main Antenna	LTE B7	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69		
Back Side	Main Antenna	LTE B25	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97		
Back Side	Main Antenna	LTE B38	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48		
Back Side	Main Antenna	LTE B41	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81		
Back Side	Main Antenna	LTE B66	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88		

Position	Ant	Band	Power Reduction Status(dBm)																																			
			1	5	9	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39					
Right Edge	Main Antenna	GSM 1900	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40			
Right Edge	Main Antenna	WCDMA B2	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82	18.82			
Right Edge	Main Antenna	WCDMA B4	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91			
Right Edge	Main Antenna	LTE B2	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98			
Right Edge	Main Antenna	LTE B4	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80	18.80			
Right Edge	Main Antenna	LTE B7	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69				
Right Edge	Main Antenna	LTE B25	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97	18.97				
Right Edge	Main Antenna	LTE B38	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48	18.48				
Right Edge	Main Antenna	LTE B41	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81	17.81				
Right Edge	Main Antenna	LTE B66	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88	18.88			

1.3) Procedures for determining antenna and proximity sensor coverage

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 +/- 45°. 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 +/- 45°. 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 1900	Right Edge	17mm	on	on	on	on	on	on	on	on	on	on	on
WCDMA Band2	Right Edge	17mm	on	on	on	on	on	on	on	on	on	on	on
WCDMA Band4	Right Edge	17mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band2	Right Edge	17mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band4	Right Edge	17mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band7	Right Edge	17mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band25	Right Edge	17mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band38	Right Edge	17mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band41	Right Edge	17mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band66	Right Edge	17mm	on	on	on	on	on	on	on	on	on	on	on

Conclusion: It can be ensured that the proximity sensor can be valid triggered for the body exposure condition (GSM 1900, WCDMA Band2/4, LTE Band 2/4/7/25/38/41/66 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.

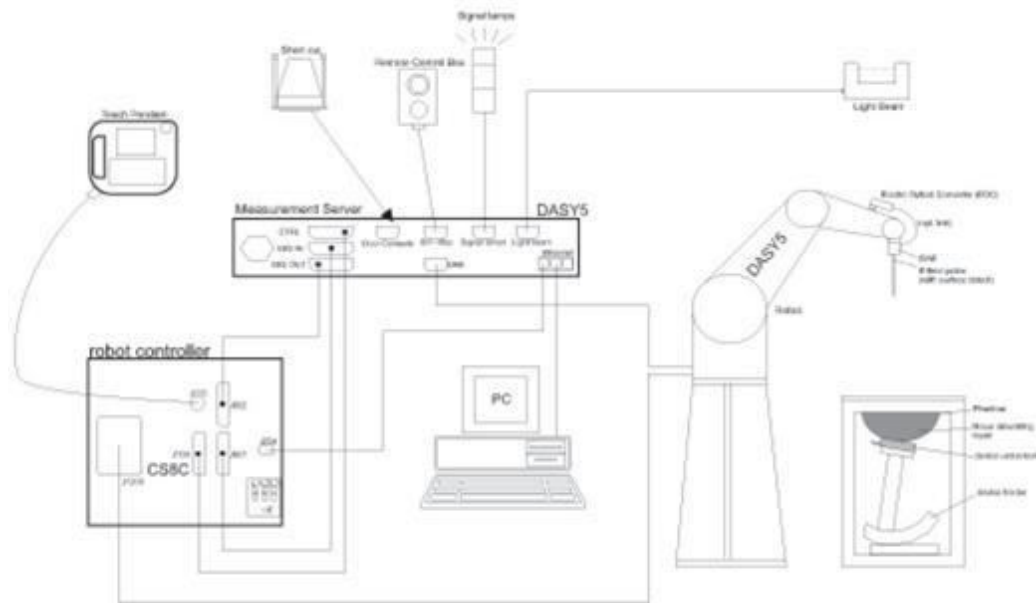
For this device, as proximity sensor power reduction supports multiple power stages, so we plan that the additional SAR should be considered at the conservative distance, minus 1 mm, for each power stage.

Main Antenna		Power Reduction Level Amount (dB)																	
Power Reduction Scenario	Mode	GSM850	GSM1900	WCDMA B2	WCDMA B4	WCDMA B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B12	LTE B13	LTE B17	LTE B25	LTE B26	LTE B38	LTE B41	LTE B66	LTE B71
Full power	Full power	34.00	30.50	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
	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
Standalone	Sensor on	0.00	7.50	5.00	6.00	0.00	5.00	5.00	0.00	6.00	0.00	0.00	0.00	5.00	0.00	5.50	5.50	5.00	0.00
	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
Simultaneous	Wi-Fi on	0.00	7.50	5.00	6.00	0.00	5.00	5.00	0.00	6.00	0.00	0.00	0.00	5.00	0.00	5.50	5.50	5.00	0.00
	Sensor on	0.00	7.50	5.00	6.00	0.00	5.00	5.00	0.00	6.00	0.00	0.00	0.00	5.00	0.00	5.50	5.50	5.00	0.00

6 SAR Measurements System Configuration

6.1 SAR Measurement Set-up

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



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

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.

$$SAR = C \Delta T / \Delta t$$

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

Or

$$SAR = |E|^2 \sigma / \rho$$

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: Δx_{Area} , Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

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 DASYS measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

7 Main Test Equipment

Original:

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-DDC056 G-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	1317	/	2024-09-10	2025-09-09
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 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	52.10.4.1527	/	/

Variant:

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	/	2025-11-24	2026-11-23
Dual Directional Coupler	UCL	UCL-DDC056 G-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
E-field Probe	SPEAG	EX3DV4	3677	/	2025-05-28	2026-05-27
DAE	SPEAG	DAE4	1317	/	2025-11-19	2026-11-18
Validation Kit 2600MHz	SPEAG	D2600V2	1025	/	2024-05-08	2027-05-07
Validation Kit 5GHz	SPEAG	D5GHzV2	1151	/	2023-03-24	2026-03-23
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	52.10.4.1527	/	/

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
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

Original:

Frequency (MHz)	Test Date	Temp $^\circ\text{C}$	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within $\pm 5\%$)	
			ϵ_r	$\sigma(\text{s/m})$	ϵ_r	$\sigma(\text{s/m})$	Dev $\epsilon_r(\%)$	Dev $\sigma(\%)$
750	8/15/2025	21.5	42.3	0.88	42.0	0.90	0.95	-1.12
	8/16/2025	21.5	42.0	0.87	42.0	0.90	0.24	-2.25
835	8/13/2025	21.5	41.4	0.88	41.5	0.90	-0.24	-2.22
	8/14/2025	21.5	41.3	0.87	41.5	0.90	-0.48	-3.33
1750	8/18/2025	21.5	40.2	1.34	40.1	1.37	0.25	-2.19
1900	8/19/2025	21.5	40.1	1.41	40.0	1.40	0.25	0.71
2450	8/21/2025	21.5	38.6	1.81	39.2	1.80	-1.53	0.56
2600	8/20/2025	21.5	38.2	2.01	39.0	1.96	-2.05	2.55
5250	8/23/2025	21.5	35.5	4.80	35.9	4.71	-1.11	1.91
5600	8/23/2025	21.5	34.2	5.21	35.5	5.07	-3.66	2.76
5750	8/25/2025	21.5	34.9	5.21	35.4	5.22	-1.41	-0.19
Note: For the tissue-equivalent liquid in the phantom, its depth shall be not less than 15.0 cm when the frequency band is below 3 GHz, and not less than 10.0 cm when the frequency band is above 3 GHz.								

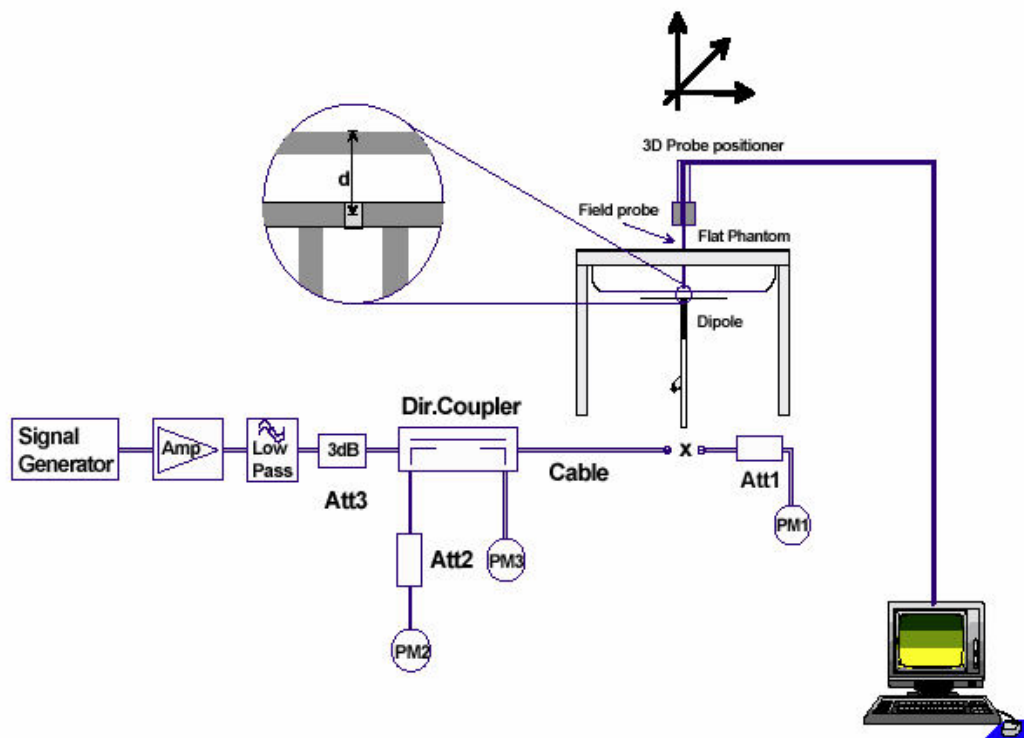
Variant:

Frequency (MHz)	Test Date	Temp °C	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within ±5%)	
			ϵ_r	σ (s/m)	ϵ_r	σ (s/m)	Dev ϵ_r (%)	Dev σ (%)
2600	12/19/2025	21.5	38.5	1.95	39.0	1.96	-1.28	-0.51
5750	12/19/2025	21.5	35.2	5.32	35.4	5.22	-0.56	1.92
Note: For the tissue-equivalent liquid in the phantom, its depth shall be not less than 15.0 cm when the frequency band is below 3 GHz, and not less than 10.0 cm when the frequency band is above 3 GHz.								

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:

For Original:

Dipole		Date of Measurement	Return Loss (dB)	Δ %	Impedance (Ω)			
					Real	$\Delta\Omega$	Imaginary	$\Delta\Omega$
Dipole D750V3 SN: 1045	Head Liquid	9/12/2023	30.4	/	51.9	/	-2.47	/
		9/11/2024	30.1	-0.9	52.3	0.4	-2.46	0.01
Dipole D835V2 SN: 4d020	Head Liquid	9/15/2023	28.3	/	50.6	/	-3.80	/
		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 Liquid	9/12/2023	24.0	/	50.5	/	6.32	/
		9/11/2024	24.1	0.4	50.9	0.4	6.83	0.51
Dipole D2450V2 SN:786	Head Liquid	9/12/2023	28.2	/	52.2	/	3.34	/
		9/11/2024	28.6	1.4	52.8	0.6	3.43	0.09
Dipole D2600V2 SN: 1025	Head Liquid	5/8/2024	24.2	/	49.0	/	-6.02	/
		5/7/2025	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

For Variant:

Dipole		Date of Measurement	Return Loss (dB)	Δ %	Impedance (Ω)			
					Real	$\Delta\Omega$	Imaginary	$\Delta\Omega$
Dipole D2600V2 SN: 1025	Head Liquid	5/08/2024	24.2	/	49.0	/	-6.02	/
		5/07/2025	24.6	1.7	50.1	1.1	-5.92	0.1
Dipole D5GHzV2 (5750 MHz) SN: 1151	Head Liquid	3/24/2023	25.8	/	55.2	/	-1.66	/
		3/23/2024	25.2	-2.3	56.7	1.5	-1.02	0.64
		3/22/2025	25.1	-0.4	56.3	-0.4	-1.1	-0.08

System Check Results

Original:

Frequency (MHz)	Test Date	Temp °C	250mW Measured SAR _{1g} (W/kg)	250mW Measured SAR _{10g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Normalized SAR _{10g} (W/kg)	1W Target SAR _{1g} (W/kg)	1W Target SAR _{10g} (W/kg)	Δ % (Limit ±10%) (1g SAR)	Δ % (Limit ±10%) (10g SAR)	Plot No.
750	8/15/2025	21.5	2.13	1.41	8.52	5.64	8.47	5.51	0.59	2.36	1
	8/16/2025	21.5	2.10	1.37	8.40	5.48	8.47	5.51	-0.83	-0.54	2
835	8/13/2025	21.5	2.44	1.60	9.76	6.40	9.75	6.36	0.10	0.63	3
	8/14/2025	21.5	2.46	1.65	9.84	6.60	9.75	6.36	0.92	3.77	4
1750	8/18/2025	21.5	8.95	4.80	35.80	19.20	36.80	19.40	-2.72	-1.03	5
1900	8/19/2025	21.5	9.88	4.90	39.52	19.60	40.40	20.90	-2.18	-6.22	6
2450	8/21/2025	21.5	13.70	6.22	54.80	24.88	52.60	24.50	4.18	1.55	7
2600	8/20/2025	21.5	13.90	6.07	55.60	24.28	56.10	24.50	-0.89	-0.90	8
Frequency (MHz)	Test Date	Temp °C	100mW Measured SAR _{1g} (W/kg)	100mW Measured SAR _{10g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Normalized SAR _{10g} (W/kg)	1W Target SAR _{1g} (W/kg)	1W Target SAR _{10g} (W/kg)	Δ % (Limit ±10%) (1g SAR)	Δ % (Limit ±10%) (10g SAR)	Plot No.
5250	8/23/2025	21.5	7.87	2.25	78.70	22.50	77.70	22.40	1.29	0.45	9
5600	8/23/2025	21.5	7.67	2.27	76.70	22.70	80.30	23.00	-4.48	-1.30	10
5750	8/25/2025	21.5	7.66	2.27	76.60	22.70	76.80	22.00	-0.26	3.18	11

Note: Target Values used derive from the calibration certificate data storage and evaluation.

Variant:

Frequency (MHz)	Test Date	Temp °C	250mW Measured SAR _{1g} (W/kg)	250mW Measured SAR _{10g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Normalized SAR _{10g} (W/kg)	1W Target SAR _{1g} (W/kg)	1W Target SAR _{10g} (W/kg)	Δ % (Limit ±10%) (1g SAR)	Δ % (Limit ±10%) (10g SAR)	Plot No.
2600	12/19/2025	21.5	13.90	6.09	55.60	24.36	56.10	24.50	-0.89	-0.57	12
Frequency (MHz)	Test Date	Temp °C	100mW Measured SAR _{1g} (W/kg)	100mW Measured SAR _{10g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Normalized SAR _{10g} (W/kg)	1W Target SAR _{1g} (W/kg)	1W Target SAR _{10g} (W/kg)	Δ % (Limit ±10%) (1g SAR)	Δ % (Limit ±10%) (10g SAR)	Plot No.
5750	12/19/2025	21.5	7.75	2.19	77.50	21.90	78.00	21.80	-0.64	0.46	13

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
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 on & 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
GSM	CS	34.00	33.22	33.01	33.26	9.03	24.97	24.19	23.98	24.23
GPRS/ EGPRS (GMSK)	1 Tx Slot	34.00	33.42	33.25	33.45	9.03	24.97	24.39	24.22	24.42
	2 Tx Slots	33.00	32.22	32.23	32.31	6.02	26.98	26.20	26.21	26.29
	3 Tx Slots	31.00	29.94	30.01	30.05	4.26	26.74	25.68	25.75	25.79
	4 Tx Slots	30.00	29.02	29.16	29.27	3.01	26.99	26.01	26.15	26.26
EGPRS (8PSK)	1 Tx Slot	28.00	27.01	27.25	27.31	9.03	18.97	17.98	18.22	18.28
	2 Tx Slots	27.00	26.24	26.24	26.20	6.02	20.98	20.22	20.22	20.18
	3 Tx Slots	25.00	24.05	24.11	24.37	4.26	20.74	19.79	19.85	20.11
	4 Tx Slots	24.00	22.78	23.11	22.89	3.01	20.99	19.77	20.10	19.88
GSM 1900 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	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	30.50	29.51	29.39	29.74	9.03	21.47	20.48	20.36	20.71
GPRS/ EGPRS (GMSK)	1 Tx Slot	30.50	29.45	29.41	29.71	9.03	21.47	20.42	20.38	20.68
	2 Tx Slots	29.50	28.67	28.55	28.83	6.02	23.48	22.65	22.53	22.81
	3 Tx Slots	27.50	26.68	26.47	26.75	4.26	23.24	22.42	22.21	22.49
	4 Tx Slots	26.50	25.54	25.52	25.75	3.01	23.49	22.53	22.51	22.74
EGPRS (8PSK)	1 Tx Slot	26.50	25.57	25.58	25.81	9.03	17.47	16.54	16.55	16.78
	2 Tx Slots	25.50	24.35	24.31	24.55	6.02	19.48	18.33	18.29	18.53
	3 Tx Slots	23.50	22.62	22.21	22.34	4.26	19.24	18.36	17.95	18.08
	4 Tx Slots	22.50	21.44	21.05	21.52	3.01	19.49	18.43	18.04	18.51
GSM 1900 Sensor on		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	23.00	22.45	22.53	22.43	9.03	13.97	13.42	13.50	13.40
GPRS/	1 Tx Slot	23.00	21.93	22.50	22.41	9.03	13.97	12.90	13.47	13.38

EGPRS (GMSK)	2 Tx Slots	22.00	20.80	21.46	21.33	6.02	15.98	14.78	15.44	15.31
	3 Tx Slots	20.00	18.96	19.55	19.43	4.26	15.74	14.70	15.29	15.17
	4 Tx Slots	19.00	17.97	18.40	18.42	3.01	15.99	14.96	15.39	15.41
EGPRS (8PSK)	1 Tx Slot	19.00	18.10	18.53	18.45	9.03	9.97	9.07	9.50	9.42
	2 Tx Slots	18.00	17.12	17.45	17.54	6.02	11.98	11.10	11.43	11.52
	3 Tx Slots	16.00	14.85	15.23	15.18	4.26	11.74	10.59	10.97	10.92
	4 Tx Slots	15.00	13.71	14.02	13.92	3.01	11.99	10.70	11.01	10.91

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

Standalone: GSM 850 GMSK (GPRS) mode with 4 time slots for Max power, GSM 1900 GMSK (GPRS) mode with 4 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		Band II(dBm) Sensor off				Band IV(dBm) Sensor off				Band V(dBm) Sensor on & Sensor off			
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	22.65	22.94	22.66	24.00	22.90	22.84	22.91	24.00	22.99	22.92	22.78	24.00
HSDPA	Sub 1	22.10	22.48	22.19	23.00	22.20	22.30	22.47	23.00	22.21	22.25	22.52	23.00
	Sub 2	22.06	22.36	22.15	23.00	22.21	22.31	22.46	23.00	22.15	22.13	22.48	23.00
	Sub 3	21.57	21.40	21.10	22.00	21.15	21.27	21.43	22.00	21.07	21.13	21.40	22.00
	Sub 4	21.60	21.40	21.11	22.00	21.15	21.29	21.43	22.00	21.07	21.12	21.32	22.00
HSUPA	Sub 1	22.29	22.57	22.42	23.00	22.33	22.36	22.62	23.00	22.48	22.53	22.79	23.00
	Sub 2	20.29	20.70	20.36	21.00	20.27	20.37	20.52	21.00	20.44	20.52	20.70	21.00
	Sub 3	21.34	21.63	21.38	22.00	21.31	21.38	21.65	22.00	21.49	21.48	21.75	22.00
	Sub 4	20.23	20.64	20.40	21.00	20.38	20.49	20.64	21.00	20.40	20.49	20.69	21.00
	Sub 5	22.21	22.63	22.38	23.00	22.40	22.40	22.65	23.00	22.39	22.48	22.69	23.00
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		Band II (dBm) Sensor on				Band IV (dBm) Sensor on			
Tx Channel		9262	9400	9538	Tune-up	1312	1413	1513	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1712.4	1732.6	1752.6	Limit
RMC	12.2kbps	18.95	18.82	18.78	19.00	17.65	17.91	17.73	18.00
AMR	12.2kbps	17.81	17.88	17.88	18.00	16.69	16.91	16.79	17.00
HSDPA	Sub 1	17.79	17.92	17.70	18.00	16.71	16.87	16.89	17.00
	Sub 2	16.93	16.86	16.62	17.00	15.63	15.95	15.67	16.00
	Sub 3	16.95	16.78	16.90	17.00	15.53	15.82	15.63	16.00
	Sub 4	17.79	17.84	17.64	18.00	16.77	16.77	16.77	17.00
HSUPA	Sub 1	15.83	15.84	15.76	16.00	14.53	14.81	14.79	15.00
	Sub 2	16.85	16.98	16.84	17.00	15.69	15.95	15.83	16.00
	Sub 3	15.79	15.72	15.68	16.00	14.63	14.79	14.85	15.00
	Sub 4	17.99	17.96	17.66	18.00	16.59	16.77	16.83	17.00
	Sub 5	18.95	18.82	18.78	19.00	17.65	17.91	17.73	18.00
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

UE Power Class: 3 (23 +/- 2dBm). 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 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

Main- Antenna

LTE Band 2							
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	22.70	23.15	23.07	24.00
		1	2	23.21	23.49	23.49	24.00
		1	5	23.11	23.49	22.97	24.00
		3	0	22.66	23.28	22.95	24.00
		3	2	23.07	23.08	22.89	24.00
		3	3	22.73	23.08	22.94	24.00
		6	0	21.78	22.37	22.08	23.00
	16QAM	1	0	21.78	22.07	22.15	23.00
		1	2	22.24	22.17	22.23	23.00
		1	5	21.85	22.25	21.56	23.00
		3	0	21.88	22.05	22.16	23.00
		3	2	21.79	22.02	22.16	23.00
		3	3	22.03	22.06	21.93	23.00
		6	0	21.14	21.47	20.86	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	22.72	23.41	23.21	24.00
		1	7	23.43	23.53	23.21	24.00
		1	14	22.87	23.43	23.13	24.00
		8	0	22.10	22.22	22.09	23.00
		8	4	21.97	22.24	21.95	23.00
		8	7	21.97	22.28	21.90	23.00
		15	0	22.00	22.35	22.12	23.00
	16QAM	1	0	21.66	22.01	22.23	23.00
		1	7	22.04	22.39	22.01	23.00
		1	14	21.87	22.13	21.58	23.00

		8	0	20.94	21.19	21.32	22.00
		8	4	21.01	21.44	21.04	22.00
		8	7	21.09	21.34	20.81	22.00
		15	0	20.88	21.27	20.92	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	22.60	23.17	23.21	24.00
		1	13	23.39	23.49	23.05	24.00
		1	24	22.79	23.35	22.95	24.00
		12	0	21.76	22.40	21.91	23.00
		12	6	22.01	22.10	22.07	23.00
		12	13	21.99	22.04	21.74	23.00
		25	0	21.92	22.17	21.94	23.00
	16QAM	1	0	21.62	22.07	22.31	23.00
		1	13	22.12	22.39	22.03	23.00
		1	24	21.77	22.01	21.50	23.00
		12	0	21.00	21.15	21.20	22.00
		12	6	20.89	21.14	21.10	22.00
		12	13	20.87	21.24	20.73	22.00
		25	0	20.80	21.17	21.00	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	22.86	23.19	23.03	24.00
		1	25	23.27	23.71	23.54	24.00
		1	49	22.94	23.27	23.04	24.00
		25	0	21.88	22.27	22.09	23.00
		25	13	21.88	22.29	21.94	23.00
		25	25	21.78	22.27	21.95	23.00
		50	0	21.86	22.21	21.89	23.00
	16QAM	1	0	21.67	22.11	21.93	23.00
		1	25	21.91	22.29	22.05	23.00
		1	49	21.66	21.97	21.70	23.00
		25	0	20.81	21.19	21.03	22.00
		25	13	21.00	21.15	20.97	22.00
		25	25	20.85	21.03	20.85	22.00
		50	0	20.85	21.09	21.01	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	22.90	23.25	23.25	24.00
		1	38	23.11	23.46	23.40	24.00
		1	74	22.98	23.21	23.23	24.00
		36	0	21.98	22.35	22.36	23.00
		36	18	21.91	22.27	22.22	23.00

		36	39	21.88	22.19	22.11	23.00
		75	0	21.82	22.23	22.23	23.00
	16QAM	1	0	21.71	22.08	21.85	23.00
		1	38	21.78	22.07	21.78	23.00
		1	74	21.66	21.92	21.48	23.00
		36	0	20.71	21.27	21.10	22.00
		36	18	20.91	21.24	20.98	22.00
		36	39	20.81	21.23	20.89	22.00
		75	0	20.76	21.14	20.99	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	22.80	23.29	23.21	24.00
		1	50	23.35	23.61	23.25	24.00
		1	99	22.91	23.29	23.13	24.00
		50	0	21.96	22.32	22.03	23.00
		50	25	22.01	22.28	21.97	23.00
		50	50	21.99	22.22	21.94	23.00
		100	0	21.92	22.25	22.08	23.00
	16QAM	1	0	21.60	22.01	22.23	23.00
		1	50	22.08	22.29	22.01	23.00
		1	99	21.75	22.01	21.58	23.00
		50	0	20.90	21.21	21.18	22.00
		50	25	21.07	21.30	21.08	22.00
		50	50	21.01	21.22	20.85	22.00
		100	0	20.94	21.27	21.02	22.00
LTE Band 2							
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	18.08	18.46	18.19	19.00
		1	2	18.52	18.55	18.28	19.00
		1	5	18.07	18.39	18.10	19.00
		3	0	18.48	18.46	17.89	19.00
		3	2	18.27	18.70	18.09	19.00
		3	3	18.29	18.50	18.20	19.00
		6	0	18.46	18.54	18.24	19.00
	16QAM	1	0	17.99	18.13	17.98	19.00
		1	2	17.98	18.34	17.44	19.00
		1	5	17.92	18.07	17.62	19.00
		3	0	18.30	17.92	17.91	19.00
		3	2	17.98	18.46	17.91	19.00
		3	3	18.32	18.48	18.16	19.00
		6	0	18.17	18.33	18.28	19.00

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	18.22	18.44	18.19	19.00
		1	7	18.30	18.57	18.22	19.00
		1	14	18.23	18.33	18.12	19.00
		8	0	18.24	18.46	18.15	19.00
		8	4	18.23	18.42	18.05	19.00
		8	7	18.17	18.40	18.02	19.00
		15	0	18.22	18.44	18.10	19.00
	16QAM	1	0	17.99	18.19	18.00	19.00
		1	7	17.92	18.22	17.80	19.00
		1	14	17.90	18.05	17.78	19.00
		8	0	18.12	18.18	17.99	19.00
		8	4	18.28	18.40	18.01	19.00
		8	7	18.30	18.40	17.98	19.00
		15	0	18.25	18.47	18.10	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	18.16	18.39	18.10	19.00
		1	13	18.44	18.60	18.33	19.00
		1	24	18.10	18.35	18.00	19.00
		12	0	18.21	18.40	18.24	19.00
		12	6	18.27	18.50	18.18	19.00
		12	13	18.19	18.34	18.12	19.00
		25	0	18.21	18.40	18.16	19.00
	16QAM	1	0	17.93	18.18	17.87	19.00
		1	13	18.37	18.10	17.87	19.00
		1	24	17.72	17.89	17.67	19.00
		12	0	18.05	18.30	18.10	19.00
		12	6	18.31	18.55	18.17	19.00
		12	13	18.22	18.39	18.03	19.00
		25	0	18.17	18.44	18.14	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	18.31	18.53	18.31	19.00
		1	25	18.74	18.99	18.65	19.00
		1	49	18.40	18.41	18.16	19.00
		25	0	18.31	18.48	18.35	19.00
		25	13	18.33	18.53	18.19	19.00
		25	25	18.31	18.34	18.12	19.00
		50	0	18.25	18.33	18.19	19.00
	16QAM	1	0	18.10	18.34	18.08	19.00
		1	25	18.24	18.52	18.12	19.00

		1	49	18.03	18.03	17.78	19.00
		25	0	18.25	18.33	18.19	19.00
		25	13	18.33	18.60	18.23	19.00
		25	25	18.31	18.52	18.10	19.00
		50	0	18.10	18.27	18.09	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	18.35	18.53	18.23	19.00
		1	38	18.72	18.73	18.46	19.00
		1	74	18.52	18.26	18.12	19.00
		36	0	18.40	18.51	18.31	19.00
		36	18	18.40	18.51	18.22	19.00
		36	39	18.28	18.26	18.18	19.00
		75	0	18.32	18.37	18.25	19.00
	16QAM	1	0	18.02	18.28	17.96	19.00
		1	38	18.09	18.35	18.37	19.00
		1	74	18.16	17.80	17.73	19.00
		36	0	18.27	18.35	18.19	19.00
		36	18	18.34	18.53	18.18	19.00
		36	39	18.22	18.24	18.10	19.00
		75	0	18.27	18.31	18.30	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	18.37	18.58	18.24	19.00
		1	50	18.97	18.98	18.71	19.00
		1	99	18.44	18.28	18.19	19.00
		50	0	18.43	18.60	18.31	19.00
		50	25	18.42	18.48	18.26	19.00
		50	50	18.32	18.31	18.12	19.00
		100	0	18.42	18.33	18.12	19.00
	16QAM	1	0	18.03	18.35	18.02	19.00
		1	50	18.39	18.68	18.23	19.00
		1	99	18.10	17.85	17.84	19.00
		50	0	18.41	18.44	18.27	19.00
		50	25	18.44	18.44	18.27	19.00
		50	50	18.40	18.30	18.17	19.00
		100	0	18.42	18.31	18.12	19.00

LTE Band 4

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	23.09	23.03	23.09	24.00

		1	2	23.05	23.19	23.24	24.00
		1	5	23.07	23.17	23.18	24.00
		3	0	22.93	23.03	23.10	24.00
		3	2	23.08	23.18	23.03	24.00
		3	3	22.96	23.07	23.07	24.00
		6	0	21.94	22.12	22.14	23.00
	16QAM	1	0	21.87	21.83	22.00	23.00
		1	2	21.99	21.82	22.02	23.00
		1	5	21.92	21.80	22.04	23.00
		3	0	21.89	21.95	22.02	23.00
		3	2	22.13	22.06	22.14	23.00
		3	3	22.06	22.06	22.21	23.00
		6	0	21.10	21.00	21.10	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	22.95	23.03	23.02	24.00
		1	7	23.06	23.13	23.16	24.00
		1	14	22.99	23.07	23.21	24.00
		8	0	22.09	22.17	22.14	23.00
		8	4	22.06	22.15	21.98	23.00
		8	7	22.06	22.13	22.10	23.00
		15	0	22.06	22.17	22.03	23.00
	16QAM	1	0	21.94	21.72	21.65	23.00
		1	7	21.86	21.87	21.90	23.00
		1	14	21.75	21.74	21.90	23.00
		8	0	20.80	21.12	21.21	22.00
		8	4	20.85	21.30	21.21	22.00
		8	7	20.83	21.31	21.14	22.00
		15	0	21.00	21.12	21.02	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	23.01	22.92	23.20	24.00
		1	13	23.29	23.30	23.52	24.00
		1	24	22.95	23.05	23.08	24.00
		12	0	22.09	22.07	22.26	23.00
		12	6	22.10	22.12	22.10	23.00
		12	13	22.02	22.06	22.03	23.00
		25	0	22.06	22.12	22.15	23.00
	16QAM	1	0	21.90	21.82	22.04	23.00
		1	13	21.94	21.98	22.18	23.00
		1	24	21.67	21.74	21.63	23.00
		12	0	21.03	20.91	21.20	22.00
		12	6	21.06	21.05	20.90	22.00

		12	13	20.96	20.87	20.84	22.00
		25	0	20.97	20.90	20.89	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	23.22	22.88	23.02	24.00
		1	25	23.28	23.62	23.39	24.00
		1	49	22.93	23.10	23.18	24.00
		25	0	22.15	22.16	22.15	23.00
		25	13	22.03	22.02	22.17	23.00
		25	25	21.92	22.11	22.12	23.00
		50	0	21.97	22.21	22.14	23.00
	16QAM	1	0	22.02	21.90	21.87	23.00
		1	25	22.10	22.22	22.11	23.00
		1	49	21.67	21.88	21.84	23.00
		25	0	21.09	20.91	21.17	22.00
		25	13	21.29	21.06	21.25	22.00
		25	25	20.87	21.21	21.17	22.00
		50	0	21.09	21.08	21.08	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	23.13	23.06	23.29	24.00
		1	38	23.27	23.43	23.22	24.00
		1	74	22.92	23.01	23.13	24.00
		36	0	22.27	22.04	22.20	23.00
		36	18	22.09	22.19	22.04	23.00
		36	39	21.91	21.94	21.99	23.00
		75	0	21.98	22.00	22.09	23.00
	16QAM	1	0	21.90	21.81	22.07	23.00
		1	38	21.94	21.97	21.90	23.00
		1	74	21.59	21.53	21.77	23.00
		36	0	21.16	20.84	21.05	22.00
		36	18	21.05	21.09	20.99	22.00
		36	39	20.92	20.94	20.97	22.00
		75	0	21.03	21.02	21.12	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	23.09	23.06	23.26	24.00
		1	50	23.46	23.58	23.50	24.00
		1	99	22.84	23.10	23.18	24.00
		50	0	22.17	22.10	22.40	23.00
		50	25	22.04	22.12	22.04	23.00
		50	50	21.97	22.01	21.99	23.00
		100	0	22.00	22.05	22.15	23.00

	16QAM	1	0	22.18	21.76	22.00	23.00
		1	50	22.01	22.18	22.18	23.00
		1	99	21.64	21.70	21.77	23.00
		50	0	21.05	20.93	21.36	22.00
		50	25	21.06	21.12	21.08	22.00
		50	50	20.98	21.01	20.90	22.00
		100	0	20.99	20.94	20.99	22.00
LTE Band 4							
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	18.21	18.37	18.53	19.00
		1	2	18.18	18.57	18.56	19.00
		1	5	18.21	18.42	18.46	19.00
		3	0	18.12	18.34	18.46	19.00
		3	2	18.14	18.52	18.51	19.00
		3	3	18.10	18.43	18.44	19.00
		6	0	18.16	18.42	18.53	19.00
	16QAM	1	0	17.91	18.22	18.44	19.00
		1	2	18.03	18.21	18.52	19.00
		1	5	17.78	17.83	18.35	19.00
		3	0	18.15	18.19	18.37	19.00
		3	2	18.30	18.44	18.57	19.00
		3	3	18.32	18.37	18.74	19.00
		6	0	18.21	18.43	18.64	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	18.19	18.35	18.35	19.00
		1	7	18.19	18.71	18.60	19.00
		1	14	18.18	18.42	18.53	19.00
		8	0	18.17	18.44	18.53	19.00
		8	4	18.09	18.51	18.55	19.00
		8	7	18.05	18.40	18.49	19.00
		15	0	18.10	18.44	18.49	19.00
	16QAM	1	0	17.96	18.49	18.71	19.00
		1	7	17.78	18.23	18.07	19.00
		1	14	17.78	18.10	18.01	19.00
		8	0	18.08	18.44	18.44	19.00
		8	4	18.14	18.44	18.49	19.00
		8	7	18.12	18.34	18.53	19.00
		15	0	18.09	18.32	18.47	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	

5MHz	QPSK	1	0	18.06	18.37	18.57	19.00
		1	13	18.26	18.62	18.73	19.00
		1	24	17.96	18.37	18.62	19.00
		12	0	18.09	18.37	18.65	19.00
		12	6	18.14	18.48	18.59	19.00
		12	13	18.09	18.40	18.59	19.00
		25	0	18.06	18.40	18.62	19.00
	16QAM	1	0	17.87	18.09	18.85	19.00
		1	13	17.81	18.26	18.44	19.00
		1	24	17.69	17.84	18.21	19.00
		12	0	17.87	18.10	18.41	19.00
		12	6	17.94	18.26	18.51	19.00
		12	13	17.87	18.21	18.53	19.00
		25	0	18.10	18.43	18.60	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	18.28	18.31	18.53	19.00
		1	25	18.48	18.87	18.90	19.00
		1	49	18.19	18.41	18.82	19.00
		25	0	18.28	18.42	18.67	19.00
		25	13	18.17	18.46	18.58	19.00
		25	25	18.16	18.35	18.53	19.00
		50	0	18.17	18.28	18.53	19.00
	16QAM	1	0	18.03	18.09	18.82	19.00
		1	25	18.35	18.44	18.67	19.00
		1	49	17.87	18.01	18.40	19.00
		25	0	18.16	18.32	18.59	19.00
		25	13	18.14	18.46	18.65	19.00
		25	25	18.09	18.25	18.53	19.00
		50	0	18.05	18.25	18.53	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	18.30	18.31	18.60	19.00
		1	38	18.44	18.67	18.75	19.00
		1	74	18.27	18.19	18.62	19.00
		36	0	18.27	18.34	18.67	19.00
		36	18	18.19	18.50	18.51	19.00
		36	39	18.12	18.27	18.55	19.00
		75	0	18.23	18.28	18.50	19.00
	16QAM	1	0	17.94	18.05	18.34	19.00
		1	38	17.97	18.23	18.26	19.00
		1	74	17.78	17.87	18.19	19.00
		36	0	18.17	18.22	18.56	19.00

		36	18	18.23	18.52	18.48	19.00
		36	39	18.14	18.26	18.50	19.00
		75	0	18.32	18.23	18.48	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	18.33	18.30	18.58	19.00
		1	50	18.53	18.80	18.90	19.00
		1	99	18.25	18.50	18.68	19.00
		50	0	18.30	18.35	18.72	19.00
		50	25	18.22	18.42	18.58	19.00
		50	50	18.21	18.25	18.44	19.00
		100	0	18.19	18.32	18.49	19.00
	16QAM	1	0	17.99	17.96	18.28	19.00
		1	50	18.19	18.37	18.47	19.00
		1	99	17.92	18.09	18.26	19.00
		50	0	18.23	18.18	18.59	19.00
		50	25	18.23	18.42	18.44	19.00
		50	50	18.26	18.35	18.46	19.00
		100	0	18.19	18.26	18.42	19.00

LTE Band 5							
Sensor on & 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	23.04	22.93	22.79	24.00
		1	2	23.18	23.03	23.02	24.00
		1	5	23.07	23.07	22.85	24.00
		3	0	23.18	22.98	22.77	24.00
		3	2	23.31	22.98	22.95	24.00
		3	3	23.27	22.91	22.84	24.00
		6	0	22.14	22.01	21.86	23.00
	16QAM	1	0	22.03	21.77	21.76	23.00
		1	2	22.16	21.80	21.87	23.00
		1	5	22.06	21.52	21.69	23.00
		3	0	22.06	21.84	21.75	23.00
		3	2	22.19	22.08	21.81	23.00
		3	3	22.18	22.22	21.68	23.00
		6	0	21.16	21.03	20.60	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	23.09	22.85	22.86	24.00
		1	7	23.32	23.10	23.09	24.00
		1	14	23.17	22.95	22.83	24.00

		8	0	22.23	22.03	21.94	23.00
		8	4	22.23	21.98	21.93	23.00
		8	7	22.14	22.02	21.89	23.00
		15	0	22.12	22.01	21.95	23.00
	16QAM	1	0	22.15	21.67	21.73	23.00
		1	7	21.93	21.83	21.82	23.00
		1	14	21.76	21.71	21.72	23.00
		8	0	21.15	20.89	20.70	22.00
		8	4	21.18	21.01	20.73	22.00
		8	7	21.20	21.05	20.66	22.00
		15	0	21.09	21.00	20.80	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	22.96	22.87	22.65	24.00
		1	13	23.25	23.70	23.29	24.00
		1	24	22.91	23.06	22.95	24.00
		12	0	21.98	21.78	21.83	23.00
		12	6	21.96	21.92	21.79	23.00
		12	13	21.68	22.13	22.01	23.00
		25	0	21.82	21.90	22.01	23.00
	16QAM	1	0	21.81	21.94	21.91	23.00
		1	13	22.00	22.00	21.98	23.00
		1	24	21.64	21.64	21.58	23.00
		12	0	20.94	20.79	20.97	22.00
		12	6	20.80	20.83	21.12	22.00
		12	13	20.94	20.85	20.95	22.00
		25	0	20.74	20.81	20.86	22.00
Bandwidth	Modulation	RB Allocation	Offset	21.76			Tune-up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	23.10	22.91	22.83	24.00
		1	25	23.15	23.72	23.21	24.00
		1	49	22.89	23.14	22.87	24.00
		25	0	22.06	21.98	21.99	23.00
		25	13	22.00	21.96	21.97	23.00
		25	25	21.86	22.03	21.93	23.00
		50	0	21.98	21.85	21.91	23.00
	16QAM	1	0	22.01	21.98	21.81	23.00
		1	25	21.94	22.18	22.04	23.00
		1	49	21.54	21.62	21.64	23.00
		25	0	21.00	20.89	20.91	22.00
		25	13	20.92	20.89	21.12	22.00
		25	25	20.84	20.89	20.99	22.00
		50	0	20.94	20.97	20.88	22.00

LTE Band 7							
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	22.57	22.67	22.79	24.00
		1	13	22.73	23.07	23.01	24.00
		1	24	22.45	22.73	22.77	24.00
		12	0	21.67	21.92	21.95	23.00
		12	6	21.59	21.98	21.96	23.00
		12	13	21.49	21.94	21.81	23.00
		25	0	21.49	21.92	21.92	23.00
	16QAM	1	0	21.26	21.63	21.61	23.00
		1	13	21.47	21.79	21.82	23.00
		1	24	21.10	21.51	21.47	23.00
		12	0	20.64	20.97	20.92	22.00
		12	6	20.63	20.97	21.03	22.00
		12	13	20.49	20.94	20.79	22.00
		25	0	20.58	21.01	20.94	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	22.49	22.81	22.93	24.00
		1	25	23.23	23.54	23.63	24.00
		1	49	22.76	23.11	22.97	24.00
		25	0	21.69	22.09	21.97	23.00
		25	13	21.62	21.94	21.88	23.00
		25	25	21.48	21.92	22.13	23.00
		50	0	21.48	21.95	21.82	23.00
	16QAM	1	0	21.30	21.35	21.65	23.00
		1	25	21.82	22.31	21.85	23.00
		1	49	21.47	21.90	21.71	23.00
		25	0	20.78	21.23	20.99	22.00
		25	13	20.79	20.99	20.82	22.00
		25	25	20.52	21.26	20.81	22.00
		50	0	20.71	21.05	20.99	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	22.49	22.91	23.11	24.00
		1	38	23.15	23.38	23.45	24.00
		1	74	22.64	22.93	23.09	24.00
		36	0	22.01	22.13	21.81	23.00
		36	18	21.68	21.96	21.78	23.00
		36	39	21.62	21.98	22.01	23.00
		75	0	21.64	22.15	21.86	23.00

	16QAM	1	0	21.32	21.55	21.97	23.00
		1	38	21.64	22.07	22.13	23.00
		1	74	21.43	21.78	21.61	23.00
		36	0	20.72	21.25	21.25	22.00
		36	18	20.71	21.03	21.00	22.00
		36	39	20.44	21.02	21.07	22.00
		75	0	20.67	20.85	20.81	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	22.53	22.87	23.11	24.00
		1	50	23.01	23.32	23.41	24.00
		1	99	22.66	23.05	23.03	24.00
		50	0	21.85	22.19	21.83	23.00
		50	25	21.72	22.02	21.86	23.00
		50	50	21.66	22.02	21.95	23.00
		100	0	21.60	21.97	21.90	23.00
	16QAM	1	0	21.30	21.45	21.81	23.00
		1	50	21.64	22.09	21.95	23.00
		1	99	21.33	21.68	21.59	23.00
		50	0	20.82	21.11	21.13	22.00
		50	25	20.79	21.11	20.98	22.00
		50	50	20.56	21.04	20.89	22.00
		100	0	20.65	20.87	20.85	22.00
LTE Band 7							
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	16.89	17.06	17.09	18.00
		1	13	17.09	17.29	17.22	18.00
		1	24	16.82	16.99	17.09	18.00
		12	0	16.95	17.13	17.15	18.00
		12	6	16.95	17.17	17.24	18.00
		12	13	16.91	17.09	17.13	18.00
		25	0	16.90	17.04	17.13	18.00
	16QAM	1	0	16.59	16.76	16.80	18.00
		1	13	16.76	16.84	16.87	18.00
		1	24	16.46	16.62	16.70	18.00
		12	0	16.85	16.94	16.96	18.00
		12	6	16.93	17.17	17.17	18.00
		12	13	16.87	17.17	17.04	18.00
		25	0	16.87	17.04	17.11	18.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	

10MHz	QPSK	1	0	16.94	17.24	17.14	18.00
		1	25	17.15	17.62	17.40	18.00
		1	49	17.15	17.27	17.26	18.00
		25	0	17.06	17.19	17.14	18.00
		25	13	16.99	17.22	17.17	18.00
		25	25	16.97	17.12	17.23	18.00
		50	0	17.04	17.11	17.20	18.00
	16QAM	1	0	16.84	17.08	16.98	18.00
		1	25	16.86	17.14	17.10	18.00
		1	49	16.85	16.91	17.03	18.00
		25	0	16.95	16.97	17.03	18.00
		25	13	16.98	17.28	17.17	18.00
		25	25	17.07	17.17	17.29	18.00
		50	0	17.05	17.20	17.17	18.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	17.08	17.17	17.26	18.00
		1	38	17.23	17.37	17.28	18.00
		1	74	17.21	17.23	17.26	18.00
		36	0	17.09	17.17	17.15	18.00
		36	18	17.09	17.22	17.09	18.00
		36	39	17.12	17.13	17.10	18.00
		75	0	17.10	17.10	17.14	18.00
	16QAM	1	0	17.20	16.86	16.89	18.00
		1	38	16.75	16.97	16.80	18.00
		1	74	16.79	16.79	16.91	18.00
		36	0	17.01	17.07	17.15	18.00
		36	18	17.06	17.20	17.06	18.00
		36	39	17.08	17.11	17.11	18.00
		75	0	17.19	17.19	17.29	18.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	16.99	17.08	17.10	18.00
		1	50	17.71	17.69	17.72	18.00
		1	99	17.17	17.23	17.40	18.00
		50	0	17.38	17.38	17.27	18.00
		50	25	17.22	17.24	17.24	18.00
		50	50	17.13	17.15	17.20	18.00
		100	0	17.15	17.13	17.24	18.00
	16QAM	1	0	16.62	16.78	16.83	18.00
		1	50	17.11	17.23	17.13	18.00
		1	99	16.80	16.80	16.96	18.00
		50	0	17.29	17.29	17.24	18.00

		50	25	17.29	17.27	17.11	18.00
		50	50	17.13	17.23	17.23	18.00
		100	0	17.09	17.21	17.19	18.00

LTE Band 12							
Sensor on & 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	22.58	22.57	22.38	24.00
		1	2	22.72	22.69	22.65	24.00
		1	5	22.74	22.63	22.52	24.00
		3	0	22.67	22.62	22.47	24.00
		3	2	22.64	22.59	22.36	24.00
		3	3	22.70	22.59	22.30	24.00
		6	0	21.71	21.68	21.35	23.00
	16QAM	1	0	21.31	21.42	21.26	23.00
		1	2	21.46	21.50	21.48	23.00
		1	5	21.42	21.31	21.31	23.00
		3	0	21.59	21.51	21.32	23.00
		3	2	21.89	21.60	21.49	23.00
		3	3	22.01	21.58	21.45	23.00
		6	0	20.73	20.51	20.47	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	22.67	22.60	22.80	24.00
		1	7	23.03	23.13	23.38	24.00
		1	14	22.57	22.65	22.61	24.00
		8	0	21.68	21.66	21.48	23.00
		8	4	21.69	21.58	21.51	23.00
		8	7	21.58	21.40	21.49	23.00
		15	0	21.74	21.47	21.60	23.00
	16QAM	1	0	21.51	21.42	21.50	23.00
		1	7	21.50	21.74	21.92	23.00
		1	14	21.22	21.39	21.04	23.00
		8	0	20.80	20.46	20.57	22.00
		8	4	20.68	20.65	20.72	22.00
		8	7	20.47	20.54	20.48	22.00
		15	0	20.57	20.44	20.51	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	22.51	22.28	22.76	24.00
		1	13	22.81	22.87	23.20	24.00
		1	24	22.63	22.49	22.53	24.00

		12	0	21.50	21.40	21.34	23.00
		12	6	21.43	21.56	21.37	23.00
		12	13	21.64	21.50	21.41	23.00
		25	0	21.70	21.31	21.32	23.00
	16QAM	1	0	21.31	21.44	21.36	23.00
		1	13	21.28	21.54	21.68	23.00
		1	24	21.34	21.49	21.10	23.00
		12	0	20.78	20.48	20.37	22.00
		12	6	20.66	20.45	20.62	22.00
		12	13	20.47	20.42	20.32	22.00
		25	0	20.41	20.38	20.57	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	22.65	22.44	22.68	24.00
		1	25	22.87	23.01	23.34	24.00
		1	49	22.63	22.61	22.63	24.00
		25	0	21.66	21.58	21.50	23.00
		25	13	21.59	21.58	21.57	23.00
		25	25	21.60	21.50	21.47	23.00
		50	0	21.62	21.47	21.48	23.00
	16QAM	1	0	21.43	21.44	21.48	23.00
		1	25	21.44	21.72	21.76	23.00
		1	49	21.30	21.43	21.12	23.00
		25	0	20.76	20.46	20.55	22.00
		25	13	20.78	20.51	20.72	22.00
		25	25	20.53	20.46	20.48	22.00
		50	0	20.51	20.42	20.55	22.00

LTE Band 13							
Sensor on & 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	22.82	22.92	22.98	24.00
		1	13	23.18	23.00	23.04	24.00
		1	24	22.84	22.76	22.58	24.00
		12	0	21.96	21.86	21.90	23.00
		12	6	22.06	21.95	21.85	23.00
		12	13	21.90	21.76	21.74	23.00
		25	0	21.94	21.82	21.62	23.00
	16QAM	1	0	21.73	21.82	21.84	23.00
		1	13	21.85	21.76	21.62	23.00
		1	24	21.47	21.40	21.26	23.00
		12	0	20.98	20.89	20.87	22.00

		12	6	21.07	20.79	20.65	22.00
		12	13	20.89	20.77	20.57	22.00
		25	0	21.01	20.80	20.74	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	23230/782	/	
10MHz	QPSK	1	0	/	22.81	/	24.00
		1	25	/	23.30	/	24.00
		1	49	/	22.87	/	24.00
		25	0	/	21.98	/	23.00
		25	13	/	21.91	/	23.00
		25	25	/	21.87	/	23.00
		50	0	/	21.88	/	23.00
	16QAM	1	0	/	21.60	/	23.00
		1	25	/	22.10	/	23.00
		1	49	/	21.66	/	23.00
		25	0	/	20.85	/	22.00
		25	13	/	20.92	/	22.00
		25	25	/	20.82	/	22.00
		50	0	/	20.88	/	22.00

LTE Band 17							
Sensor on & 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	22.44	22.38	22.27	24.00
		1	13	22.66	23.07	22.64	24.00
		1	24	22.32	22.49	22.16	24.00
		12	0	21.55	21.59	21.49	23.00
		12	6	21.58	21.26	21.47	23.00
		12	13	21.45	21.23	21.30	23.00
		25	0	21.52	21.22	21.37	23.00
	16QAM	1	0	21.33	21.36	21.24	23.00
		1	13	21.44	21.65	21.39	23.00
		1	24	21.09	21.08	21.06	23.00
		12	0	20.51	20.33	20.43	22.00
		12	6	20.60	20.50	20.62	22.00
		12	13	20.48	20.36	20.37	22.00
		25	0	20.46	20.35	20.42	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23780/709	23790/710	23800/711	
10MHz	QPSK	1	0	22.53	22.50	22.36	24.00
		1	25	23.01	23.15	22.76	24.00
		1	49	22.49	22.51	22.27	24.00

		25	0	21.60	21.57	21.53	23.00
		25	13	21.56	21.42	21.49	23.00
		25	25	21.43	21.37	21.38	23.00
		50	0	21.55	21.42	21.36	23.00
	16QAM	1	0	21.50	21.36	21.36	23.00
		1	25	21.75	21.63	21.46	23.00
		1	49	21.54	21.18	21.07	23.00
		25	0	20.54	20.47	20.48	22.00
		25	13	20.57	20.48	20.46	22.00
		25	25	20.39	20.36	20.48	22.00
		50	0	20.52	20.45	20.50	22.00

LTE Band 25							
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	22.73	23.11	22.74	24.00
		1	2	22.82	23.21	22.84	24.00
		1	5	22.64	23.06	22.84	24.00
		3	0	22.77	23.12	22.77	24.00
		3	2	22.91	23.24	22.75	24.00
		3	3	22.79	23.11	22.71	24.00
		6	0	21.77	22.12	21.76	23.00
	16QAM	1	0	21.69	21.85	21.67	23.00
		1	2	21.85	21.98	21.73	23.00
		1	5	21.69	22.06	21.72	23.00
		3	0	21.64	22.07	21.74	23.00
		3	2	21.67	22.17	21.94	23.00
		3	3	21.60	22.10	21.83	23.00
		6	0	20.65	21.10	20.89	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26055/1851.5	26365/1882.5	26675/1913.5	
3MHz	QPSK	1	0	22.90	23.14	22.86	24.00
		1	7	23.33	23.25	23.00	24.00
		1	14	23.14	23.13	22.98	24.00
		8	0	22.22	22.21	21.95	23.00
		8	4	21.87	22.19	21.92	23.00
		8	7	22.14	22.11	21.86	23.00
		15	0	21.87	22.12	21.89	23.00
	16QAM	1	0	21.76	21.86	21.70	23.00
		1	7	22.01	21.94	21.76	23.00
		1	14	21.67	21.81	21.57	23.00
		8	0	20.96	20.80	20.93	22.00

		8	4	21.05	20.97	21.00	22.00
		8	7	21.14	20.91	21.03	22.00
		15	0	21.07	20.96	20.87	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26065/1852.5	26365/1882.5	26665/1912.5	
5MHz	QPSK	1	0	22.88	23.06	22.77	24.00
		1	13	23.29	23.30	23.00	24.00
		1	24	23.06	23.02	22.78	24.00
		12	0	22.16	22.13	21.86	23.00
		12	6	21.83	22.20	21.94	23.00
		12	13	21.96	22.07	21.91	23.00
		25	0	22.07	22.10	21.88	23.00
	16QAM	1	0	21.68	22.01	21.77	23.00
		1	13	21.95	22.02	21.73	23.00
		1	24	21.77	21.76	21.66	23.00
		12	0	20.98	20.89	20.85	22.00
		12	6	20.93	21.18	20.94	22.00
		12	13	21.08	21.12	20.91	22.00
		25	0	20.97	21.24	20.84	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26090/1855	26365/1882.5	26640/1910	
10MHz	QPSK	1	0	22.91	23.21	23.15	24.00
		1	25	23.28	23.60	23.24	24.00
		1	49	22.90	23.22	23.27	24.00
		25	0	21.89	22.24	22.85	23.00
		25	13	21.93	22.23	21.81	23.00
		25	25	21.84	22.15	21.92	23.00
		50	0	21.89	22.20	22.00	23.00
	16QAM	1	0	21.80	22.04	21.80	23.00
		1	25	22.03	22.30	22.11	23.00
		1	49	21.66	21.93	21.74	23.00
		25	0	20.85	21.15	20.87	22.00
		25	13	21.06	21.38	20.78	22.00
		25	25	20.80	21.10	21.10	22.00
		50	0	20.94	21.10	20.93	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26115/1857.5	26365/1882.5	26615/1907.5	
15MHz	QPSK	1	0	22.84	23.18	23.13	24.00
		1	38	23.02	23.45	23.16	24.00
		1	74	22.82	23.19	23.21	24.00
		36	0	21.93	22.20	22.99	23.00
		36	18	21.93	22.21	22.09	23.00
		36	39	21.84	22.13	21.88	23.00

		75	0	21.92	22.17	21.84	23.00
	16QAM	1	0	21.69	22.00	21.92	23.00
		1	38	21.78	22.12	21.89	23.00
		1	74	21.60	21.81	21.54	23.00
		36	0	20.87	21.09	20.93	22.00
		36	18	20.93	21.18	20.96	22.00
		36	39	20.80	21.03	21.02	22.00
		75	0	20.85	21.12	21.01	22.00
	Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)		
26140/1860					26365/1882.5	26590/1905	
20MHz	QPSK	1	0	22.84	23.28	23.19	24.00
		1	50	23.31	23.66	23.06	24.00
		1	99	23.14	23.39	23.31	24.00
		50	0	22.08	22.16	22.87	23.00
		50	25	21.93	22.14	21.91	23.00
		50	50	22.04	22.06	21.84	23.00
		100	0	21.97	22.13	21.92	23.00
	16QAM	1	0	21.82	21.87	21.76	23.00
		1	50	21.95	22.08	21.93	23.00
		1	99	21.77	21.78	21.56	23.00
		50	0	21.02	21.08	21.01	22.00
		50	25	21.05	21.22	20.96	22.00
		50	50	21.06	21.15	20.92	22.00
		100	0	20.97	21.06	20.93	22.00
LTE Band 25							
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	18.33	18.47	18.14	19.00
		1	2	18.53	18.64	18.37	19.00
		1	5	18.44	18.53	18.30	19.00
		3	0	18.33	18.52	18.27	19.00
		3	2	18.31	18.46	18.31	19.00
		3	3	18.35	18.59	18.28	19.00
		6	0	18.44	18.43	18.24	19.00
	16QAM	1	0	18.60	18.17	18.07	19.00
		1	2	18.73	18.35	18.28	19.00
		1	5	18.65	18.09	18.26	19.00
		3	0	18.34	18.34	18.12	19.00
		3	2	18.43	18.37	18.23	19.00
		3	3	18.35	18.34	18.16	19.00
		6	0	18.33	18.42	18.19	19.00
Bandwidth	Modulation	RB	Offset	Channel/Frequency(MHz)			Tune-up

		Allocation		26055/1851.5	26365/1882.5	26675/1913.5	
3MHz	QPSK	1	0	18.34	18.56	18.28	19.00
		1	7	18.55	18.62	18.35	19.00
		1	14	18.37	18.51	18.37	19.00
		8	0	18.30	18.49	18.27	19.00
		8	4	18.33	18.56	18.22	19.00
		8	7	18.46	18.47	18.37	19.00
		15	0	18.44	18.48	18.25	19.00
	16QAM	1	0	18.56	18.21	18.15	19.00
		1	7	18.23	18.25	18.12	19.00
		1	14	18.10	18.06	18.03	19.00
		8	0	18.23	18.22	18.31	19.00
		8	4	18.48	18.44	18.42	19.00
		8	7	18.69	18.35	18.50	19.00
		15	0	18.48	18.42	18.31	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26065/1852.5	26365/1882.5	26665/1912.5	
5MHz	QPSK	1	0	18.37	18.46	18.09	19.00
		1	13	18.66	18.69	18.43	19.00
		1	24	18.49	18.39	18.47	19.00
		12	0	18.46	18.47	18.19	19.00
		12	6	18.48	18.46	18.24	19.00
		12	13	18.44	18.35	18.23	19.00
		25	0	18.41	18.46	18.21	19.00
	16QAM	1	0	18.09	18.25	17.96	19.00
		1	13	18.23	18.17	18.16	19.00
		1	24	18.14	18.00	18.09	19.00
		12	0	18.16	18.25	18.12	19.00
		12	6	18.34	18.32	18.31	19.00
		12	13	18.30	18.14	18.21	19.00
		25	0	18.30	18.37	18.16	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26090/1855	26365/1882.5	26640/1910	
10MHz	QPSK	1	0	18.44	18.60	18.44	19.00
		1	25	18.64	18.66	18.47	19.00
		1	49	18.67	18.35	18.55	19.00
		25	0	18.51	18.57	18.28	19.00
		25	13	18.58	18.58	18.25	19.00
		25	25	18.48	18.37	18.26	19.00
		50	0	18.50	18.35	18.22	19.00
	16QAM	1	0	18.22	18.31	18.17	19.00
		1	25	18.49	18.53	18.18	19.00
		1	49	18.30	17.94	18.10	19.00

		25	0	18.37	18.44	18.19	19.00
		25	13	18.58	18.62	18.25	19.00
		25	25	18.52	18.30	18.34	19.00
		50	0	18.55	18.30	18.30	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26115/1857.5	26365/1882.5	26615/1907.5	
15MHz	QPSK	1	0	18.51	18.56	18.35	19.00
		1	38	18.80	18.74	18.44	19.00
		1	74	18.50	18.25	18.44	19.00
		36	0	18.65	18.60	18.48	19.00
		36	18	18.65	18.56	18.26	19.00
		36	39	18.51	18.31	18.14	19.00
		75	0	18.53	18.32	18.33	19.00
	16QAM	1	0	18.12	18.25	18.12	19.00
		1	38	18.28	18.34	18.03	19.00
		1	74	18.08	17.74	17.98	19.00
		36	0	18.53	18.41	18.27	19.00
		36	18	18.60	18.58	18.27	19.00
		36	39	18.51	18.27	18.19	19.00
		75	0	18.46	18.35	18.31	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26140/1860	26365/1882.5	26590/1905	
20MHz	QPSK	1	0	18.47	18.51	18.34	19.00
		1	50	18.99	18.97	18.78	19.00
		1	99	18.52	18.17	18.46	19.00
		50	0	18.89	18.59	18.46	19.00
		50	25	18.65	18.49	18.31	19.00
		50	50	18.44	18.26	18.18	19.00
		100	0	18.52	18.39	18.26	19.00
	16QAM	1	0	18.15	18.30	18.03	19.00
		1	50	18.50	18.47	18.34	19.00
		1	99	18.02	17.80	18.10	19.00
		50	0	18.62	18.51	18.35	19.00
		50	25	18.60	18.48	18.40	19.00
		50	50	18.47	18.19	18.22	19.00
		100	0	18.43	18.30	18.26	19.00

LTE Band 26							
Sensor on & 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	22.91	23.12	22.71	24.00
		1	2	23.07	23.32	22.91	24.00

		1	5	22.92	23.18	22.77	24.00
		3	0	22.88	22.86	22.87	24.00
		3	2	22.88	22.95	22.96	24.00
		3	3	23.00	23.02	22.61	24.00
		6	0	22.06	22.14	21.76	23.00
	16QAM	1	0	21.90	21.75	22.02	23.00
		1	2	22.04	21.95	21.79	23.00
		1	5	21.85	21.87	21.42	23.00
		3	0	21.87	21.78	21.58	23.00
		3	2	22.08	21.87	21.64	23.00
		3	3	22.00	22.00	21.78	23.00
		6	0	20.88	21.25	20.99	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26705/815.5	26740/819	26775/822.5	
3MHz	QPSK	1	0	23.01	23.04	22.81	24.00
		1	7	22.99	23.26	23.11	24.00
		1	14	22.83	23.22	22.67	24.00
		8	0	22.07	22.14	21.93	23.00
		8	4	21.90	22.03	21.90	23.00
		8	7	22.07	21.98	22.03	23.00
		15	0	21.82	22.12	22.00	23.00
	16QAM	1	0	21.98	21.73	21.92	23.00
		1	7	21.73	21.87	21.85	23.00
		1	14	21.58	21.75	21.52	23.00
		8	0	20.72	21.02	20.94	22.00
		8	4	20.94	21.05	20.84	22.00
		8	7	20.72	21.20	20.82	22.00
		15	0	20.93	21.27	21.03	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26715/816.5	26740/819	26765/821.5	
5MHz	QPSK	1	0	22.87	22.96	22.89	24.00
		1	13	23.07	23.20	22.97	24.00
		1	24	22.73	23.22	22.61	24.00
		12	0	21.89	22.08	21.87	23.00
		12	6	21.90	21.93	21.70	23.00
		12	13	21.89	22.10	21.85	23.00
		25	0	21.90	22.04	21.74	23.00
	16QAM	1	0	21.82	21.67	21.62	23.00
		1	13	21.75	21.83	21.69	23.00
		1	24	21.54	21.73	21.36	23.00
		12	0	20.82	20.94	20.62	22.00
		12	6	20.80	21.03	20.80	22.00
		12	13	20.82	21.12	20.74	22.00

		25	0	20.91	20.95	20.87	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	26740/819	/	
10MHz	QPSK	1	0	/	23.08	/	24.00
		1	25	/	23.34	/	24.00
		1	49	/	23.12	/	24.00
		25	0	/	22.00	/	23.00
		25	13	/	22.09	/	23.00
		25	25	/	22.04	/	23.00
		50	0	/	22.08	/	23.00
	16QAM	1	0	/	21.81	/	23.00
		1	25	/	21.95	/	23.00
		1	49	/	21.77	/	23.00
		25	0	/	20.92	/	22.00
		25	13	/	21.09	/	22.00
		25	25	/	21.12	/	22.00
		50	0	/	21.11	/	22.00
LTE Band 26							
Sensor on & Sensor off				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	23.02	23.02	22.95	24.00
		1	2	23.22	23.01	22.92	24.00
		1	5	23.19	23.03	23.13	24.00
		3	0	22.77	22.80	22.74	24.00
		3	2	22.96	22.98	22.70	24.00
		3	3	22.99	22.72	22.93	24.00
		6	0	21.83	21.81	22.07	23.00
	16QAM	1	0	21.37	21.73	21.81	23.00
		1	2	21.75	22.24	22.35	23.00
		1	5	21.64	21.44	21.58	23.00
		3	0	21.91	21.75	21.95	23.00
		3	2	21.74	22.07	21.72	23.00
		3	3	21.91	21.55	21.71	23.00
		6	0	21.08	20.73	21.05	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26915/836.5	26915/836.5	27025/847.5	
3MHz	QPSK	1	0	23.20	22.76	22.95	24.00
		1	7	23.20	23.05	22.92	24.00
		1	14	23.07	23.05	23.13	24.00
		8	0	21.95	21.94	22.74	23.00
		8	4	22.02	21.92	22.70	23.00
		8	7	22.07	22.08	22.93	23.00

	16QAM	15	0	22.05	21.97	22.07	23.00
		1	0	21.53	21.55	21.81	23.00
		1	7	21.97	21.96	22.35	23.00
		1	14	21.72	21.70	21.60	23.00
		8	0	20.95	20.99	20.66	22.00
		8	4	20.94	21.17	20.55	22.00
		8	7	20.97	20.89	20.66	22.00
		15	0	21.00	20.93	20.77	22.00
		15	0	21.00	20.93	20.77	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26815/826.5	26915/836.5	27015/846.5	
5MHz	QPSK	1	0	23.20	22.82	22.95	24.00
		1	13	23.02	23.11	22.92	24.00
		1	24	23.19	23.09	23.13	24.00
		12	0	21.71	22.04	22.74	23.00
		12	6	21.98	21.80	22.70	23.00
		12	13	21.93	21.90	22.93	23.00
		25	0	21.87	21.73	22.07	23.00
	16QAM	1	0	21.31	21.47	21.81	23.00
		1	13	21.83	22.12	22.35	23.00
		1	24	21.54	21.42	21.40	23.00
		12	0	20.99	20.75	20.71	22.00
		12	6	20.90	20.99	20.89	22.00
		12	13	20.81	20.75	20.78	22.00
		25	0	20.90	20.75	20.72	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26840/829	26915/836.5	26990/844	
10MHz	QPSK	1	0	23.04	22.96	22.90	24.00
		1	25	23.10	23.07	23.14	24.00
		1	49	23.29	22.95	22.97	24.00
		25	0	21.95	22.12	21.96	23.00
		25	13	22.14	22.00	21.90	23.00
		25	25	22.19	22.04	21.89	23.00
		50	0	21.81	21.75	21.86	23.00
	16QAM	1	0	21.51	21.65	21.76	23.00
		1	25	21.73	21.94	21.92	23.00
		1	49	21.80	21.50	21.68	23.00
		25	0	20.89	20.99	20.89	22.00
		25	13	21.10	21.19	21.00	22.00
		25	25	21.11	20.69	20.92	22.00
		50	0	21.08	20.85	20.89	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26865/831.5	26915/836.5	26965/841.5	
15MHz	QPSK	1	0	23.14	22.84	23.01	24.00

		1	38	23.12	23.05	23.02	24.00
		1	74	23.13	23.03	23.13	24.00
		36	0	21.91	22.02	21.94	23.00
		36	18	21.92	21.96	21.88	23.00
		36	39	21.99	21.94	21.87	23.00
		75	0	21.95	21.91	21.97	23.00
		1	0	21.45	21.59	21.95	23.00
	16QAM	1	38	21.81	22.06	22.11	23.00
		1	74	21.60	21.60	21.50	23.00
		36	0	21.03	20.95	21.05	22.00
		36	18	21.02	21.01	20.94	22.00
		36	39	20.93	20.75	21.01	22.00
		75	0	20.88	20.87	20.91	22.00

LTE Band 38							
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	22.70	22.54	22.74	24.00
		1	13	22.59	22.98	22.99	24.00
		1	24	22.13	22.55	22.69	24.00
		12	0	21.65	21.84	21.92	23.00
		12	6	21.52	21.86	21.88	23.00
		12	13	21.38	21.76	21.82	23.00
		25	0	21.49	21.83	21.92	23.00
	16QAM	1	0	21.29	21.17	21.67	23.00
		1	13	21.52	21.78	21.89	23.00
		1	24	21.38	21.21	21.30	23.00
		12	0	20.72	20.23	20.86	22.00
		12	6	20.83	20.86	20.98	22.00
		12	13	20.60	20.73	20.88	22.00
		25	0	20.62	20.96	21.10	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	22.74	22.09	22.30	24.00
		1	25	22.81	23.07	23.19	24.00
		1	49	22.44	22.73	22.81	24.00
		25	0	21.82	21.94	21.56	23.00
		25	13	21.60	21.92	21.96	23.00
		25	25	21.42	21.84	21.85	23.00
		50	0	21.46	21.75	21.91	23.00
	16QAM	1	0	21.76	21.40	21.49	23.00
		1	25	21.63	21.91	21.35	23.00

		1	49	21.22	21.16	21.49	23.00
		25	0	20.65	20.99	20.64	22.00
		25	13	20.60	21.10	21.17	22.00
		25	25	20.40	21.06	21.08	22.00
		50	0	20.61	20.31	20.98	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	22.79	22.66	22.83	24.00
		1	38	22.74	23.00	23.14	24.00
		1	74	22.52	22.66	22.71	24.00
		36	0	21.71	21.80	22.06	23.00
		36	18	21.68	21.40	22.04	23.00
		36	39	21.46	21.85	21.80	23.00
		75	0	21.02	21.88	21.85	23.00
	16QAM	1	0	21.49	21.64	21.76	23.00
		1	38	21.56	21.87	21.69	23.00
		1	74	21.04	21.42	21.46	23.00
		36	0	20.55	20.74	20.88	22.00
		36	18	20.63	20.85	20.89	22.00
		36	39	20.42	20.76	20.71	22.00
		75	0	20.51	20.67	20.94	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	23.10	23.59	23.50	24.00
		1	50	23.65	23.80	23.75	24.00
		1	99	23.21	23.59	23.59	24.00
		50	0	22.26	22.62	22.61	23.00
		50	25	22.31	22.58	22.58	23.00
		50	50	22.29	22.52	22.52	23.00
		100	0	22.22	22.55	22.38	23.00
	16QAM	1	0	21.90	22.31	22.53	23.00
		1	50	22.38	22.59	22.31	23.00
		1	99	22.05	22.31	21.88	23.00
		50	0	21.20	21.51	21.48	22.00
		50	25	21.37	21.60	21.38	22.00
		50	50	21.31	21.52	21.15	22.00
		100	0	21.24	21.57	21.32	22.00
LTE Band 38							
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	18.22	17.76	17.94	18.50
		1	13	18.04	18.11	18.27	18.50

		1	24	17.78	17.78	18.07	18.50
		12	0	18.01	17.88	18.13	18.50
		12	6	17.90	18.04	18.01	18.50
		12	13	17.77	17.97	18.05	18.50
		25	0	17.81	18.01	18.05	18.50
	16QAM	1	0	18.01	17.67	17.88	18.50
		1	13	17.49	17.88	17.99	18.50
		1	24	17.12	17.38	17.57	18.50
		12	0	17.98	17.65	17.90	18.50
		12	6	17.97	17.74	17.95	18.50
		12	13	17.79	17.82	17.90	18.50
		25	0	17.76	17.83	18.08	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	18.01	17.95	17.90	18.50
		1	25	18.02	18.29	18.32	18.50
		1	49	17.88	17.99	18.10	18.50
		25	0	18.06	18.06	18.22	18.50
		25	13	17.90	18.04	17.96	18.50
		25	25	17.71	18.01	18.08	18.50
		50	0	17.72	17.99	17.96	18.50
	16QAM	1	0	17.99	17.89	17.94	18.50
		1	25	17.61	17.67	17.88	18.50
		1	49	17.35	17.40	17.63	18.50
		25	0	17.99	18.07	18.24	18.50
		25	13	18.08	18.17	18.08	18.50
		25	25	18.08	18.17	17.99	18.50
		50	0	17.87	17.87	18.10	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	18.12	18.07	18.05	18.50
		1	38	17.99	18.24	18.38	18.50
		1	74	17.85	18.03	18.12	18.50
		36	0	17.92	17.99	18.17	18.50
		36	18	17.92	18.04	17.99	18.50
		36	39	17.69	17.94	17.98	18.50
		75	0	17.70	17.96	17.96	18.50
	16QAM	1	0	18.03	17.94	17.87	18.50
		1	38	17.47	17.77	17.94	18.50
		1	74	17.35	17.39	17.58	18.50
		36	0	17.86	17.94	17.92	18.50
		36	18	17.86	17.99	17.92	18.50
		36	39	17.58	17.86	17.92	18.50

		75	0	17.83	17.90	17.85	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	17.92	17.74	17.86	18.50
		1	50	18.24	18.48	18.36	18.50
		1	99	17.94	17.98	18.08	18.50
		50	0	18.30	18.33	18.36	18.50
		50	25	17.90	18.03	17.95	18.50
		50	50	17.80	17.92	17.94	18.50
		100	0	17.79	17.95	17.90	18.50
	16QAM	1	0	17.64	17.40	17.55	18.50
		1	50	17.83	17.96	17.99	18.50
		1	99	17.42	17.44	17.58	18.50
		50	0	18.11	18.10	18.22	18.50
		50	25	17.88	17.99	18.08	18.50
		50	50	17.77	17.90	17.96	18.50
		100	0	17.74	17.88	17.99	18.50

LTE Band 41									
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	23.07	22.91	22.63	22.71	22.70	24.00
		1	13	22.92	23.16	22.84	23.01	22.91	24.00
		1	24	22.76	22.92	22.57	22.93	22.64	24.00
		12	0	21.87	22.07	21.86	22.09	21.90	23.00
		12	6	21.79	22.11	21.92	22.00	21.84	23.00
		12	13	21.61	22.13	21.44	22.00	21.79	23.00
		25	0	21.66	22.03	21.87	22.04	21.80	23.00
	16QAM	1	0	21.90	21.90	21.69	21.64	21.55	23.00
		1	13	21.65	21.95	21.55	21.67	21.46	23.00
		1	24	21.53	21.52	21.19	21.64	21.29	23.00
		12	0	20.90	20.92	20.70	20.99	20.83	22.00
		12	6	20.89	21.06	20.96	20.99	20.77	22.00
		12	13	20.65	20.87	20.99	20.99	20.76	22.00
		25	0	20.67	21.13	21.07	21.01	20.86	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	22.96	23.01	22.78	22.92	22.73	24.00
		1	25	23.18	23.18	22.35	23.07	22.98	24.00
		1	49	23.19	23.08	22.91	23.02	22.85	24.00
		25	0	21.91	22.09	21.94	22.22	21.95	23.00
		25	13	21.88	22.02	21.82	22.06	21.91	23.00

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		25	25	21.77	22.01	21.93	22.07	21.90	23.00
		50	0	21.78	22.02	21.33	22.13	21.96	23.00
	16QAM	1	0	22.09	22.07	22.10	21.99	21.86	23.00
		1	25	21.83	22.02	21.55	21.79	21.74	23.00
		1	49	21.83	21.98	21.21	21.54	21.47	23.00
		25	0	20.65	21.01	20.79	21.12	20.87	22.00
		25	13	20.72	20.90	20.77	21.12	20.88	22.00
		25	25	20.80	21.17	20.87	21.33	20.89	22.00
		50	0	20.76	20.94	20.82	21.19	20.99	22.00
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	22.91	23.10	22.67	22.96	22.79	24.00
		1	38	22.83	23.06	22.45	23.03	23.01	24.00
		1	74	22.90	23.05	22.78	22.95	22.67	24.00
		36	0	21.72	22.14	21.96	22.18	22.04	23.00
		36	18	21.81	22.07	21.87	22.16	21.94	23.00
		36	39	21.76	22.06	21.44	22.18	21.92	23.00
		75	0	21.76	21.97	21.94	22.17	21.99	23.00
	16QAM	1	0	21.91	22.02	21.65	21.89	21.88	23.00
		1	38	21.79	21.90	21.84	21.82	21.69	23.00
		1	74	21.70	21.61	21.01	21.31	21.46	23.00
		36	0	20.55	20.70	20.62	21.02	20.87	22.00
		36	18	20.58	20.80	20.74	20.99	20.87	22.00
		36	39	20.53	20.92	20.74	21.02	20.78	22.00
		75	0	20.74	20.88	20.85	21.17	20.98	22.00
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	22.89	23.10	22.69	22.81	22.72	24.00
		1	50	23.10	23.35	22.92	23.07	22.99	24.00
		1	99	22.89	23.00	22.34	22.82	22.82	24.00
		50	0	21.58	22.03	21.88	22.11	22.05	23.00
		50	25	21.79	22.03	21.93	22.11	21.98	23.00
		50	50	21.79	22.06	21.95	22.12	21.94	23.00
		100	0	21.73	22.03	21.92	22.13	21.97	23.00
	16QAM	1	0	21.85	22.03	21.63	22.00	21.82	23.00
		1	50	21.86	22.06	21.78	22.12	21.74	23.00
		1	99	21.75	21.78	21.45	21.63	21.36	23.00
		50	0	20.58	20.99	20.62	20.96	20.92	22.00
		50	25	20.85	21.03	20.73	21.06	20.86	22.00
		50	50	20.90	20.90	20.83	21.06	20.83	22.00
		100	0	20.74	21.04	20.83	21.08	20.87	22.00
LTE Band 41									
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	17.94	17.65	17.59	17.72	17.65	18.50
		1	13	18.32	17.77	17.89	18.12	17.73	18.50
		1	24	17.89	17.96	18.16	18.01	18.00	18.50
		12	0	17.96	17.77	17.97	17.98	17.99	18.50
		12	6	17.90	18.05	18.03	18.06	17.67	18.50
		12	13	17.85	18.02	17.68	17.91	17.72	18.50
		25	0	17.81	17.91	17.65	17.67	17.85	18.50
	16QAM	1	0	17.88	17.80	17.96	17.92	17.64	18.50
		1	13	17.75	17.40	17.48	17.51	17.32	18.50
		1	24	17.58	17.40	17.16	17.68	17.20	18.50
		12	0	17.83	17.69	17.77	18.11	17.61	18.50
		12	6	17.68	17.69	17.83	17.92	17.89	18.50
		12	13	18.03	17.65	17.85	18.13	17.67	18.50
		25	0	17.90	17.89	17.97	17.86	17.73	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	18.00	17.59	17.87	17.76	17.93	18.50
		1	25	18.10	17.75	17.73	18.32	17.79	18.50
		1	49	17.93	17.98	18.16	17.85	18.08	18.50
		25	0	17.74	18.05	17.87	17.84	18.05	18.50
		25	13	18.06	17.95	18.03	18.14	17.77	18.50
		25	25	17.85	18.10	18.04	17.81	17.80	18.50
		50	0	18.03	17.93	17.77	17.75	17.97	18.50
	16QAM	1	0	17.98	17.70	17.82	17.74	17.74	18.50
		1	25	17.99	17.22	17.32	17.75	17.50	18.50
		1	49	17.76	17.26	17.38	17.82	17.18	18.50
		25	0	17.93	17.65	17.99	18.15	17.67	18.50
		25	13	17.98	17.65	17.81	17.90	17.99	18.50
		25	25	17.93	17.83	17.69	17.89	17.83	18.50
		50	0	18.02	17.97	17.95	17.80	17.85	18.50
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	18.10	17.73	17.89	18.00	17.73	18.50
		1	38	18.36	17.87	17.77	18.20	17.79	18.50
		1	74	17.89	18.08	18.12	18.11	18.02	18.50
		36	0	17.96	18.01	18.17	17.96	17.97	18.50
		36	18	18.20	18.09	18.03	17.98	17.73	18.50
		36	39	17.71	17.84	17.78	17.81	17.90	18.50
		75	0	17.85	17.71	17.85	17.97	18.05	18.50
	16QAM	1	0	17.96	17.94	18.04	17.98	17.90	18.50
		1	38	17.87	17.28	17.40	17.75	17.46	18.50

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		1	74	17.70	17.36	17.42	17.90	17.22	18.50
		36	0	17.81	17.63	17.87	18.11	17.63	18.50
		36	18	17.90	17.67	17.83	17.98	17.87	18.50
		36	39	18.11	17.71	17.93	18.01	17.89	18.50
		75	0	18.02	17.99	17.81	17.80	17.79	18.50
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	17.94	17.65	17.71	17.86	17.73	18.50
		1	50	18.28	17.81	17.89	18.24	17.79	18.50
		1	99	17.93	18.14	18.22	17.97	17.96	18.50
		50	0	17.90	17.83	18.01	17.90	17.95	18.50
		50	25	18.02	17.99	18.03	17.96	17.83	18.50
		50	50	17.77	17.96	17.84	17.85	17.86	18.50
		100	0	17.85	17.81	17.73	17.87	17.89	18.50
	16QAM	1	0	17.84	17.82	17.86	17.88	17.74	18.50
		1	50	17.81	17.32	17.38	17.67	17.44	18.50
		1	99	17.72	17.42	17.34	17.74	17.28	18.50
		50	0	17.93	17.63	17.79	18.03	17.67	18.50
		50	25	17.78	17.75	17.83	17.90	17.83	18.50
		50	50	17.93	17.69	17.83	18.03	17.77	18.50
		100	0	17.96	17.91	17.89	17.92	17.77	18.50

LTE Band 66							
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	23.26	23.61	23.56	24.00
		1	2	23.50	23.73	23.83	24.00
		1	5	22.98	23.55	23.17	24.00
		3	0	22.42	22.59	22.76	24.00
		3	2	22.11	22.17	22.46	24.00
		3	3	22.13	22.19	22.32	24.00
		6	0	22.50	22.12	22.48	23.00
	16QAM	1	0	22.03	22.09	22.10	23.00
		1	2	22.01	22.42	22.42	23.00
		1	5	21.53	21.79	21.94	23.00
		3	0	21.39	21.59	21.62	23.00
		3	2	21.34	21.16	21.47	23.00
		3	3	21.15	21.05	21.23	23.00
		6	0	21.24	21.28	21.29	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	23.40	23.67	23.44	24.00

		1	7	23.60	23.95	23.97	24.00
		1	14	23.06	23.63	23.27	24.00
		8	0	22.22	22.43	22.54	23.00
		8	4	22.17	22.09	22.62	23.00
		8	7	22.15	22.29	22.14	23.00
		15	0	22.20	22.28	22.52	23.00
	16QAM	1	0	22.09	22.03	22.26	23.00
		1	7	22.39	22.30	22.64	23.00
		1	14	21.67	21.89	21.76	23.00
		8	0	21.15	21.39	21.64	22.00
		8	4	21.30	21.38	21.61	22.00
		8	7	21.29	21.19	21.31	22.00
		15	0	21.10	21.22	21.31	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	23.13	23.28	23.29	24.00
		1	13	23.30	23.41	23.46	24.00
		1	24	23.12	23.17	23.18	24.00
		12	0	22.30	22.26	22.40	23.00
		12	6	22.25	22.25	22.22	23.00
		12	13	22.09	22.11	22.13	23.00
		25	0	22.18	22.23	22.16	23.00
	16QAM	1	0	21.93	21.91	22.14	23.00
		1	13	22.03	22.04	22.18	23.00
		1	24	21.74	21.84	21.88	23.00
		12	0	21.22	21.15	21.26	22.00
		12	6	21.22	21.19	21.15	22.00
		12	13	20.94	21.10	20.99	22.00
		25	0	21.21	21.17	21.19	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	23.48	23.79	23.46	24.00
		1	25	23.76	23.80	23.79	24.00
		1	49	23.30	23.67	23.31	24.00
		25	0	22.54	22.45	22.40	23.00
		25	13	22.11	22.17	22.64	23.00
		25	25	21.95	22.27	22.30	23.00
		50	0	22.32	22.22	22.24	23.00
	16QAM	1	0	22.19	22.23	22.10	23.00
		1	25	22.21	22.48	22.76	23.00
		1	49	21.57	21.97	21.96	23.00
		25	0	21.03	21.51	21.54	22.00
		25	13	21.42	21.24	21.49	22.00

		25	25	21.17	21.13	21.19	22.00
		50	0	20.96	21.22	21.15	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	23.42	23.71	23.68	24.00
		1	38	23.58	23.91	23.91	24.00
		1	74	23.08	23.59	23.21	24.00
		36	0	22.30	22.47	22.54	23.00
		36	18	22.17	22.27	22.54	23.00
		36	39	22.07	22.35	22.28	23.00
		75	0	22.22	22.26	22.46	23.00
	16QAM	1	0	22.09	22.15	22.42	23.00
		1	38	22.21	22.34	22.70	23.00
		1	74	21.73	22.03	22.00	23.00
		36	0	21.07	21.45	21.50	22.00
		36	18	21.40	21.14	21.45	22.00
		36	39	21.13	21.21	21.21	22.00
		75	0	21.02	21.08	21.21	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	23.32	23.65	23.50	24.00
		1	50	23.60	23.85	23.87	24.00
		1	99	23.12	23.47	23.19	24.00
		50	0	22.32	22.33	22.58	23.00
		50	25	22.23	22.19	22.46	23.00
		50	50	22.13	22.17	22.24	23.00
		100	0	22.22	22.28	22.40	23.00
	16QAM	1	0	22.05	22.01	22.26	23.00
		1	50	22.29	22.26	22.54	23.00
		1	99	21.69	21.85	21.84	23.00
		50	0	21.17	21.41	21.54	22.00
		50	25	21.26	21.26	21.55	22.00
		50	50	21.19	21.09	21.25	22.00
		100	0	21.08	21.14	21.29	22.00
LTE Band 66							
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	18.27	18.77	18.51	19.00
		1	2	18.41	18.96	18.64	19.00
		1	5	18.35	18.85	18.55	19.00
		3	0	18.25	18.77	18.47	19.00
		3	2	18.33	18.89	18.53	19.00

		3	3	18.33	18.76	18.51	19.00
		6	0	18.12	18.71	18.53	19.00
	16QAM	1	0	18.06	18.53	18.24	19.00
		1	2	18.15	18.26	18.51	19.00
		1	5	18.05	18.40	18.08	19.00
		3	0	18.31	18.62	18.52	19.00
		3	2	18.52	18.72	18.76	19.00
		3	3	18.57	18.65	18.69	19.00
		6	0	18.44	18.62	18.62	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	18.29	18.57	18.55	19.00
		1	7	18.31	18.69	18.54	19.00
		1	14	18.41	18.87	18.47	19.00
		8	0	18.09	18.73	18.55	19.00
		8	4	18.25	18.73	18.55	19.00
		8	7	18.23	18.74	18.45	19.00
		15	0	18.14	18.77	18.35	19.00
	16QAM	1	0	18.02	18.35	18.04	19.00
		1	7	18.05	18.10	18.47	19.00
		1	14	18.15	18.34	17.92	19.00
		8	0	18.27	18.66	18.54	19.00
		8	4	18.52	18.66	18.58	19.00
		8	7	18.45	18.53	18.55	19.00
		15	0	18.48	18.52	18.58	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	18.39	18.89	18.57	19.00
		1	13	18.45	18.86	18.62	19.00
		1	24	18.21	18.97	18.41	19.00
		12	0	18.13	18.89	18.51	19.00
		12	6	18.23	18.97	18.67	19.00
		12	13	18.21	18.88	18.51	19.00
		25	0	18.24	18.91	18.73	19.00
	16QAM	1	0	18.28	18.37	18.36	19.00
		1	13	18.19	18.14	18.41	19.00
		1	24	18.21	18.36	18.26	19.00
		12	0	18.21	18.74	18.42	19.00
		12	6	18.48	18.80	18.64	19.00
		12	13	18.55	18.85	18.89	19.00
		25	0	18.54	18.82	18.76	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	

10MHz	QPSK	1	0	18.31	18.81	18.75	19.00
		1	25	18.61	18.92	18.84	19.00
		1	49	18.27	18.69	18.31	19.00
		25	0	17.95	18.69	18.53	19.00
		25	13	18.43	18.89	18.59	19.00
		25	25	18.21	18.92	18.37	19.00
		50	0	18.40	18.73	18.91	19.00
	16QAM	1	0	18.10	18.43	18.48	19.00
		1	25	18.31	18.26	18.55	19.00
		1	49	18.03	18.20	18.22	19.00
		25	0	18.33	18.78	18.28	19.00
		25	13	18.64	18.62	18.72	19.00
		25	25	18.75	18.77	18.77	19.00
		50	0	18.50	18.72	18.78	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	18.30	18.97	18.87	19.00
		1	38	18.28	18.69	18.91	19.00
		1	74	18.02	18.78	18.55	19.00
		36	0	18.46	18.69	18.78	19.00
		36	18	18.35	18.91	18.78	19.00
		36	39	18.27	18.77	18.62	19.00
		75	0	18.33	18.84	18.68	19.00
	16QAM	1	0	18.05	18.67	18.47	19.00
		1	38	18.17	18.60	18.44	19.00
		1	74	18.01	18.40	18.10	19.00
		36	0	18.42	18.66	18.80	19.00
		36	18	18.35	18.87	18.72	19.00
		36	39	18.26	18.76	18.56	19.00
		75	0	18.42	18.81	18.67	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	18.26	18.98	18.73	19.00
		1	50	18.64	18.88	18.85	19.00
		1	99	18.42	18.60	18.47	19.00
		50	0	18.34	18.93	18.91	19.00
		50	25	18.34	18.89	18.80	19.00
		50	50	18.37	18.81	18.67	19.00
		100	0	18.44	18.85	18.76	19.00
	16QAM	1	0	18.26	18.60	18.48	19.00
		1	50	18.34	18.78	18.76	19.00
		1	99	18.25	18.19	18.19	19.00
		50	0	18.47	18.92	18.82	19.00

		50	25	18.42	18.84	18.72	19.00
		50	50	18.41	18.82	18.91	19.00
		100	0	18.43	18.89	18.84	19.00

LTE Band 71							
Sensor on & 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	22.11	22.06	22.37	24.00
		1	13	22.33	22.29	22.26	24.00
		1	24	22.30	22.18	22.12	24.00
		12	0	21.16	21.05	21.18	23.00
		12	6	21.16	21.25	21.18	23.00
		12	13	21.14	21.16	21.33	23.00
		25	0	21.17	21.07	21.15	23.00
	16QAM	1	0	21.42	21.95	21.53	23.00
		1	13	22.27	22.33	21.28	23.00
		1	24	21.25	21.97	21.54	23.00
		12	0	20.15	20.16	20.11	22.00
		12	6	20.02	20.16	20.15	22.00
		12	13	20.14	20.21	20.05	22.00
		25	0	20.02	20.01	20.29	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				133172/668	133297/680.5	133422/693	
10MHz	QPSK	1	0	22.09	22.10	22.53	24.00
		1	25	22.43	22.17	22.38	24.00
		1	49	22.08	22.08	22.34	24.00
		25	0	21.13	21.37	21.26	23.00
		25	13	21.26	21.43	21.20	23.00
		25	25	21.42	21.16	21.35	23.00
		50	0	21.03	21.11	21.13	23.00
	16QAM	1	0	21.54	21.93	21.41	23.00
		1	25	22.25	22.19	21.20	23.00
		1	49	21.31	21.95	21.60	23.00
		25	0	20.14	20.08	20.39	22.00
		25	13	20.26	20.36	20.27	22.00
		25	25	20.20	20.13	20.45	22.00
		50	0	20.08	20.05	20.15	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				133197/670.5	133297/680.5	133397/690.5	
15MHz	QPSK	1	0	22.12	22.10	22.31	24.00
		1	38	22.63	22.23	22.26	24.00
		1	74	22.06	22.10	22.28	24.00

		36	0	21.06	21.29	21.46	23.00
		36	18	21.04	21.19	21.22	23.00
		36	39	21.14	21.40	21.25	23.00
		75	0	21.19	21.21	21.23	23.00
	16QAM	1	0	21.46	21.91	21.47	23.00
		1	38	22.39	22.25	21.34	23.00
		1	74	21.39	22.09	21.46	23.00
		36	0	20.18	20.38	20.35	22.00
		36	18	20.28	20.20	20.03	22.00
		36	39	20.28	20.41	20.19	22.00
		75	0	20.08	20.01	20.33	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				133222/673	133322/683	133372/688	
20MHz	QPSK	1	0	22.02	22.20	22.31	24.00
		1	50	22.53	22.27	22.18	24.00
		1	99	22.02	22.18	22.30	24.00
		50	0	21.12	21.21	21.28	23.00
		50	25	21.10	21.23	21.26	23.00
		50	50	21.22	21.26	21.37	23.00
		100	0	21.19	21.11	21.23	23.00
	16QAM	1	0	21.42	22.01	21.51	23.00
		1	50	22.23	22.27	21.38	23.00
		1	99	21.39	21.99	21.56	23.00
		50	0	20.14	20.24	20.21	22.00
		50	25	20.16	20.14	20.13	22.00
		50	50	20.28	20.27	20.23	22.00
		100	0	20.14	20.09	20.29	22.00

LTE B40							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				38725/2307.5	38750/2310.0	38775/2312.5	
5MHz	QPSK	1	0	22.55	22.58	23.72	24.00
		1	13	22.77	22.88	23.80	24.00
		1	24	22.93	22.74	23.33	24.00
		12	0	21.77	21.80	22.84	23.00
		12	6	22.03	21.75	22.66	23.00
		12	13	21.80	21.72	22.42	23.00
		25	0	21.91	21.72	22.78	23.00
	16QAM	1	0	21.54	21.14	22.42	23.00
		1	13	21.87	21.62	22.80	23.00
		1	24	21.79	21.60	22.12	23.00
		12	0	20.67	20.78	21.84	22.00

		12	6	20.77	20.65	21.73	22.00
		12	13	20.65	20.62	21.51	22.00
		25	0	20.84	20.67	21.65	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	38750/2310.0	/	
10MHz	QPSK	1	0	/	22.69	/	24.00
		1	25	/	22.85	/	24.00
		1	49	/	22.85	/	24.00
		25	0	/	21.87	/	23.00
		25	13	/	21.95	/	23.00
		25	25	/	21.94	/	23.00
		50	0	/	21.93	/	23.00
	16QAM	1	0	/	21.66	/	23.00
		1	25	/	21.79	/	23.00
		1	49	/	21.79	/	23.00
		25	0	/	20.77	/	22.00
		25	13	/	20.79	/	22.00
		25	25	/	20.85	/	22.00
		50	0	/	20.92	/	22.00
LTE B40							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				39175/2352.5	39200/2355.0	39225/2357.5	
5MHz	QPSK	1	0	23.15	23.82	23.64	24.00
		1	13	23.20	23.70	23.88	24.00
		1	24	22.87	23.73	23.31	24.00
		12	0	22.02	22.73	22.76	23.00
		12	6	21.96	22.47	22.76	23.00
		12	13	21.92	22.33	22.64	23.00
		25	0	22.12	22.60	22.68	23.00
	16QAM	1	0	22.31	22.35	22.40	23.00
		1	13	22.30	22.42	22.78	23.00
		1	24	21.66	22.23	22.14	23.00
		12	0	21.43	21.71	21.94	22.00
		12	6	21.20	21.36	21.65	22.00
		12	13	21.03	21.19	21.51	22.00
		25	0	20.82	21.54	21.41	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	39200/2355.0	/	
10MHz	QPSK	1	0	/	23.35	/	24.00
		1	25	/	23.12	/	24.00
		1	49	/	22.95	/	24.00
		25	0	/	22.08	/	23.00

		25	13	/	21.92	/	23.00
		25	25	/	21.86	/	23.00
		50	0	/	22.04	/	23.00
	16QAM	1	0	/	22.23	/	23.00
		1	25	/	22.24	/	23.00
		1	49	/	21.86	/	23.00
		25	0	/	21.35	/	22.00
		25	13	/	21.24	/	22.00
		25	25	/	21.15	/	22.00
		50	0	/	20.96	/	22.00
LTE B40							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				38725/2307.5	38750/2310.0	38775/2312.5	
5MHz	QPSK	1	0	17.28	17.20	16.69	18.00
		1	13	16.73	16.83	16.97	18.00
		1	24	16.68	16.54	16.49	18.00
		12	0	17.55	17.51	16.93	18.00
		12	6	17.37	17.47	17.40	18.00
		12	13	17.60	17.48	16.77	18.00
		25	0	17.62	17.46	17.14	18.00
	16QAM	1	0	17.29	17.35	16.32	18.00
		1	13	16.64	16.70	16.79	18.00
		1	24	16.64	16.72	16.11	18.00
		12	0	17.49	17.33	16.55	18.00
		12	6	17.38	17.48	16.55	18.00
		12	13	17.63	17.47	16.49	18.00
		25	0	17.40	17.40	16.56	18.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	38750/2310.0	/	
10MHz	QPSK	1	0	/	17.32	/	18.00
		1	25	/	17.40	/	18.00
		1	49	/	16.59	/	18.00
		25	0	/	16.63	/	18.00
		25	13	/	17.64	/	18.00
		25	25	/	17.58	/	18.00
		50	0	/	17.60	/	18.00
	16QAM	1	0	/	17.15	/	18.00
		1	25	/	16.56	/	18.00
		1	49	/	16.39	/	18.00
		25	0	/	16.53	/	18.00
		25	13	/	16.99	/	18.00
		25	25	/	16.62	/	18.00

		50	0	/	16.50	/	18.00
LTE B40							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				39175/2352.5	39200/2355.0	39225/2357.5	
5MHz	QPSK	1	0	16.62	16.53	16.36	18.00
		1	13	16.83	16.57	16.62	18.00
		1	24	16.41	16.18	16.33	18.00
		12	0	16.58	16.49	16.47	18.00
		12	6	16.61	16.50	16.47	18.00
		12	13	16.62	16.32	16.41	18.00
		25	0	16.65	16.33	16.49	18.00
	16QAM	1	0	16.11	16.08	16.18	18.00
		1	13	16.48	16.28	16.45	18.00
		1	24	16.02	16.22	16.23	18.00
		12	0	16.38	16.26	16.16	18.00
		12	6	16.84	17.19	16.20	18.00
		12	13	16.59	16.56	16.13	18.00
		25	0	16.55	16.30	16.22	18.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	39200/2355.0	/	
10MHz	QPSK	1	0	/	16.63	/	18.00
		1	25	/	16.66	/	18.00
		1	49	/	16.48	/	18.00
		25	0	/	16.64	/	18.00
		25	13	/	16.36	/	18.00
		25	25	/	16.13	/	18.00
		50	0	/	16.26	/	18.00
	16QAM	1	0	/	16.23	/	18.00
		1	25	/	16.48	/	18.00
		1	49	/	16.20	/	18.00
		25	0	/	16.45	/	18.00
		25	13	/	16.52	/	18.00
		25	25	/	16.45	/	18.00
		50	0	/	16.50	/	18.00

9.4 WLAN Mode

Wi-Fi 2.4GHz Full Power ANT 0	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11b (1M)	1/2412	17.00	15.72
	6/2437	17.00	15.91
	11/2462	17.00	16.08
802.11g (6M)	1/2412	17.00	15.83
	6/2437	17.00	16.43
	11/2462	17.00	16.44
802.11n-HT20 (MCS0)	1/2412	17.00	15.66
	6/2437	17.00	16.34
	11/2462	17.00	16.32
802.11ax HE20 (MCS0)	1/2412	16.00	14.97
	6/2437	16.00	14.90
	11/2462	16.00	15.73

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4GHz Full Power ANT 1	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11b (1M)	1/2412	17.00	16.37
	6/2437	17.00	16.12
	11/2462	17.00	15.84
802.11g (6M)	1/2412	17.00	16.32
	6/2437	17.00	16.56
	11/2462	17.00	16.04
802.11n-HT20 (MCS0)	1/2412	17.00	16.05
	6/2437	17.00	16.13
	11/2462	17.00	15.97
802.11ax HE20 (MCS0)	1/2412	16.00	15.39
	6/2437	16.00	15.13
	11/2462	16.00	15.68

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4GHz Full Power MIMO	Channel /Frequency(MHz)	Maximum Output Power (dBm)			
		Tune-up	Meas.	Ant 0	Ant 1
Mode					

802.11g (6M)	1/2412	20.00	19.09	15.83	16.32
	6/2437	20.00	19.50	16.43	16.56
	11/2462	20.00	19.25	16.44	16.04
802.11n-HT20 (MCS0)	1/2412	20.00	18.87	15.66	16.05
	6/2437	20.00	19.24	16.34	16.13
	11/2462	20.00	19.16	16.32	15.97
802.11ax HE20 (MCS0)	1/2412	19.00	18.19	14.97	15.39
	6/2437	19.00	18.03	14.90	15.13
	11/2462	19.00	18.71	15.73	15.68

Note: Initial test configuration is 802.11b mode.

Wi-Fi 5GHz (U-NII-1) Full Power ANT 0 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	16.00	15.44
	40/5200	16.00	15.49
	48/5240	16.00	15.51
802.11n-HT20 (MCS0)	36/5180	16.00	15.27
	40/5200	16.00	15.33
	48/5240	16.00	15.59
802.11n-HT40 (MCS0)	38/5190	16.00	14.92
	46/5230	16.00	15.32
802.11ac-VHT20 (MCS0)	36/5180	16.00	15.21
	40/5200	16.00	15.45
	48/5240	16.00	15.60
802.11ac-VHT40 (MCS0)	38/5190	16.00	14.91
	46/5230	16.00	15.16
802.11ac-VHT80 (MCS0)	42/5210	16.00	15.10
802.11ax-HE20 (MCS0)	36/5180	16.00	15.36
	40/5200	16.00	15.45
	48/5240	16.00	15.41
802.11ax-HE40 (MCS0)	38/5190	16.00	14.78
	46/5230	16.00	15.38
802.11ax-HE80 (MCS0)	42/5210	16.00	15.00

Note: Initial test configuration is 802.11ac-VHT80 mode.

Wi-Fi 5GHz (U-NII-1) Full Power ANT 1 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	16.00	15.12
	40/5200	16.00	15.31
	48/5240	16.00	15.52
802.11n-HT20 (MCS0)	36/5180	16.00	14.95
	40/5200	16.00	14.88
	48/5240	16.00	15.12
802.11n-HT40 (MCS0)	38/5190	16.00	14.08
	46/5230	16.00	14.60
802.11ac-VHT20 (MCS0)	36/5180	16.00	15.09
	40/5200	16.00	15.01
	48/5240	16.00	15.49
802.11ac-VHT40 (MCS0)	38/5190	16.00	14.11
	46/5230	16.00	14.70
802.11ac-VHT80 (MCS0)	42/5210	16.00	14.89
802.11ax-HE20 (MCS0)	36/5180	16.00	14.87
	40/5200	16.00	15.05
	48/5240	16.00	15.21
802.11ax-HE40 (MCS0)	38/5190	16.00	14.17
	46/5230	16.00	14.68
802.11ax-HE80 (MCS0)	42/5210	16.00	14.62
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-2A) Full Power MIMO Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)			
		Tune-up	Meas.	Ant 0	Ant 1
802.11a (6M)	36/5180	19.00	18.29	15.44	15.12
	40/5200	19.00	18.41	15.49	15.31
	48/5240	19.00	18.52	15.51	15.52
802.11n-HT20 (MCS0)	36/5180	19.00	18.12	15.27	14.95
	40/5200	19.00	18.12	15.33	14.88
	48/5240	19.00	18.37	15.59	15.12
802.11n-HT40 (MCS0)	38/5190	19.00	17.53	14.92	14.08
	46/5230	19.00	17.98	15.32	14.60

802.11ac-VHT20 (MCS0)	36/5180	19.00	18.16	15.21	15.09
	40/5200	19.00	18.25	15.45	15.01
	48/5240	19.00	18.56	15.60	15.49
802.11ac-VHT40 (MCS0)	38/5190	19.00	17.54	14.91	14.11
	46/5230	19.00	17.95	15.16	14.70
802.11ac-VHT80 (MCS0)	42/5210	19.00	18.00	15.10	14.89
802.11ax-HE20 (MCS0)	36/5180	19.00	18.13	15.36	14.87
	40/5200	19.00	18.27	15.45	15.05
	48/5240	19.00	18.32	15.41	15.21
802.11ax-HE40 (MCS0)	38/5190	19.00	17.49	14.78	14.17
	46/5230	19.00	18.06	15.38	14.68
802.11ax-HE80 (MCS0)	42/5210	19.00	17.83	15.00	14.62
Note. Initial test configuration is 802.11ac-VHT80 mode.					

Wi-Fi 5GHz (U-NII-2A) Full Power ANT 0 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	16.00	15.66
	60/5300	16.00	15.32
	64/5320	16.00	15.35
802.11n-HT20 (MCS0)	52/5260	16.00	15.32
	60/5300	16.00	15.32
	64/5320	16.00	15.08
802.11n-HT40 (MCS0)	54/5270	16.00	15.05
	62/5310	16.00	14.87
802.11ac-VHT20 (MCS0)	52/5260	16.00	15.53
	60/5300	16.00	15.23
	64/5320	16.00	15.28
802.11ac-VHT40 (MCS0)	54/5270	16.00	15.02
	62/5310	16.00	14.86
802.11ac-VHT80 (MCS0)	58/5290	16.00	14.90
802.11ax-HE20 (MCS0)	52/5260	16.00	15.27
	60/5300	16.00	15.14
	64/5320	16.00	15.22
802.11ax-HE40 (MCS0)	54/5270	16.00	14.90
	62/5310	16.00	14.89
802.11ax-HE80	58/5290	16.00	14.81

(MCS0)			
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-2A) Full Power ANT 1 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	16.00	14.89
	60/5300	16.00	14.70
	64/5320	16.00	14.74
802.11n-HT20 (MCS0)	52/5260	16.00	14.68
	60/5300	16.00	14.48
	64/5320	16.00	14.72
802.11n-HT40 (MCS0)	54/5270	16.00	14.32
	62/5310	16.00	14.13
802.11ac-VHT20 (MCS0)	52/5260	16.00	14.82
	60/5300	16.00	14.58
	64/5320	16.00	14.72
802.11ac-VHT40 (MCS0)	54/5270	16.00	14.36
	62/5310	16.00	14.11
802.11ac-VHT80 (MCS0)	58/5290	16.00	14.21
802.11ax-HE20 (MCS0)	52/5260	16.00	14.62
	60/5300	16.00	14.62
	64/5320	16.00	14.73
802.11ax-HE40 (MCS0)	54/5270	16.00	14.32
	62/5310	16.00	14.16
802.11ax-HE80 (MCS0)	58/5290	16.00	14.16

Note. Initial test configuration is 802.11ac-VHT80 mode.

Wi-Fi 5GHz (U-NII-2A) Full Power MIMO Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)			
		Tune-up	Meas.	Ant 0	Ant 1
802.11a (6M)	52/5260	19.00	18.30	15.66	14.89
	60/5300	19.00	18.03	15.32	14.70
	64/5320	19.00	18.07	15.35	14.74
802.11n-HT20 (MCS0)	52/5260	19.00	18.02	15.32	14.68
	60/5300	19.00	17.93	15.32	14.48

	64/5320	19.00	17.91	15.08	14.72
802.11n-HT40 (MCS0)	54/5270	19.00	17.71	15.05	14.32
	62/5310	19.00	17.53	14.87	14.13
802.11ac-VHT20 (MCS0)	52/5260	19.00	18.20	15.53	14.82
	60/5300	19.00	17.93	15.23	14.58
	64/5320	19.00	18.02	15.28	14.72
802.11ac-VHT40 (MCS0)	54/5270	19.00	17.71	15.02	14.36
	62/5310	19.00	17.51	14.86	14.11
802.11ac-VHT80 (MCS0)	58/5290	19.00	17.58	14.90	14.21
802.11ax-HE20 (MCS0)	52/5260	19.00	17.97	15.27	14.62
	60/5300	19.00	17.90	15.14	14.62
	64/5320	19.00	17.99	15.22	14.73
802.11ax-HE40 (MCS0)	54/5270	19.00	17.63	14.90	14.32
	62/5310	19.00	17.55	14.89	14.16
802.11ax-HE80 (MCS0)	58/5290	19.00	17.51	14.81	14.16
Note. Initial test configuration is 802.11ac-VHT80 mode.					

Wi-Fi 5GHz (U-NII-2C) Full Power ANT 0 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	16.00	14.82
	116/5580	16.00	15.10
	140/5700	16.00	15.71
802.11n-HT20 (MCS0)	100/5500	16.00	14.55
	116/5580	16.00	15.03
	140/5700	16.00	15.58
802.11n-HT40 (MCS0)	102/5510	16.00	14.12
	110/5550	16.00	14.32
	134/5670	16.00	15.03
802.11ac-VHT20 (MCS0)	100/5500	16.00	14.73
	116/5580	16.00	15.11
	140/5700	16.00	15.63
802.11ac-VHT40 (MCS0)	102/5510	16.00	14.07
	110/5550	16.00	14.48
	134/5670	16.00	14.99
802.11ac-VHT80 (MCS0)	106/5530	16.00	14.67
	122/5610	16.00	14.34

802.11ax-HE20 (MCS0)	100/5500	16.00	14.71
	116/5580	16.00	15.30
	140/5700	16.00	15.51
802.11ax-HE40 (MCS0)	102/5510	16.00	14.63
	110/5550	16.00	14.82
	134/5670	16.00	15.04
802.11ax-HE80 (MCS0)	106/5530	16.00	14.63
	122/5610	16.00	14.62
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-2C) Full Power ANT 1 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	16.00	15.31
	116/5580	16.00	15.52
	140/5700	16.00	15.73
802.11n-HT20 (MCS0)	100/5500	16.00	15.33
	116/5580	16.00	15.26
	140/5700	16.00	15.55
802.11n-HT40 (MCS0)	102/5510	16.00	14.74
	110/5550	16.00	14.82
	134/5670	16.00	15.29
802.11ac-VHT20 (MCS0)	100/5500	16.00	14.99
	116/5580	16.00	14.95
	140/5700	16.00	15.56
802.11ac-VHT40 (MCS0)	102/5510	16.00	14.66
	110/5550	16.00	14.71
	134/5670	16.00	15.24
802.11ac-VHT80 (MCS0)	106/5530	16.00	15.12
	122/5610	16.00	14.73
802.11ax-HE20 (MCS0)	100/5500	16.00	15.31
	116/5580	16.00	15.26
	140/5700	16.00	15.63
802.11ax-HE40 (MCS0)	102/5510	16.00	15.11
	110/5550	16.00	15.22
	134/5670	16.00	15.29
802.11ax-HE80 (MCS0)	106/5530	16.00	14.96
	122/5610	16.00	15.08
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-2C) Full Power MIMO Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)			
		Tune-up	Meas.	Ant 0	Ant 1
802.11a (6M)	100/5500	19.00	18.08	14.82	15.31
	116/5580	19.00	18.33	15.10	15.52
	140/5700	19.00	18.73	15.71	15.73
802.11n-HT20 (MCS0)	100/5500	19.00	17.97	14.55	15.33
	116/5580	19.00	18.16	15.03	15.26
	140/5700	19.00	18.57	15.58	15.55
802.11n-HT40 (MCS0)	102/5510	19.00	17.45	14.12	14.74
	110/5550	19.00	17.59	14.32	14.82
	134/5670	19.00	18.17	15.03	15.29
802.11ac-VHT20 (MCS0)	100/5500	19.00	17.87	14.73	14.99
	116/5580	19.00	18.04	15.11	14.95
	140/5700	19.00	18.61	15.63	15.56
802.11ac-VHT40 (MCS0)	102/5510	19.00	17.38	14.07	14.66
	110/5550	19.00	17.61	14.48	14.71
	134/5670	19.00	18.13	14.99	15.24
802.11ac-VHT80 (MCS0)	106/5530	19.00	17.91	14.67	15.12
	122/5610	19.00	17.55	14.34	14.73
802.11ax-HE20 (MCS0)	100/5500	19.00	18.03	14.71	15.31
	116/5580	19.00	18.29	15.30	15.26
	140/5700	19.00	18.58	15.51	15.63
802.11ax-HE40 (MCS0)	102/5510	19.00	17.89	14.63	15.11
	110/5550	19.00	18.03	14.82	15.22
	134/5670	19.00	18.18	15.04	15.29
802.11ax-HE80 (MCS0)	106/5530	19.00	17.81	14.63	14.96
	122/5610	19.00	17.87	14.62	15.08

Note. Initial test configuration is 802.11ac-VHT80 mode.

Wi-Fi 5GHz (U-NII-3) Full Power ANT 0 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	16.00	15.54
	157/5785	16.00	15.22
	165/5825	16.00	15.12
802.11n-HT20	149/5745	16.00	15.15

(MCS0)	157/5785	16.00	15.15
	165/5825	16.00	15.11
802.11n-HT40 (MCS0)	151/5755	16.00	14.27
	159/5795	16.00	14.72
802.11ac-VHT20 (MCS0)	149/5745	16.00	15.12
	157/5785	16.00	15.29
	165/5825	16.00	15.01
802.11ac-VHT40 (MCS0)	151/5755	16.00	14.28
	159/5795	16.00	14.76
802.11ac-VHT80 (MCS0)	155/5775	16.00	14.27
802.11ax-HE20 (MCS0)	149/5745	16.00	15.41
	157/5785	16.00	15.25
	165/5825	16.00	15.29
802.11ax-HE40 (MCS0)	151/5755	16.00	14.83
	159/5795	16.00	14.69
802.11ax-HE80 (MCS0)	155/5775	16.00	14.63
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-3) Full Power ANT 1 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	16.00	15.45
	157/5785	16.00	15.38
	165/5825	16.00	15.20
802.11n-HT20 (MCS0)	149/5745	16.00	15.31
	157/5785	16.00	15.31
	165/5825	16.00	15.28
802.11n-HT40 (MCS0)	151/5755	16.00	14.74
	159/5795	16.00	15.00
802.11ac-VHT20 (MCS0)	149/5745	16.00	15.29
	157/5785	16.00	15.48
	165/5825	16.00	15.16
802.11ac-VHT40 (MCS0)	151/5755	16.00	14.79
	159/5795	16.00	15.09
802.11ac-VHT80 (MCS0)	155/5775	16.00	14.47
802.11ax-HE20 (MCS0)	149/5745	16.00	15.48
	157/5785	16.00	15.54

	165/5825	16.00	15.41
802.11ax-HE40 (MCS0)	151/5755	16.00	15.15
	159/5795	16.00	15.03
802.11ax-HE80 (MCS0)	155/5775	16.00	14.88

Note. Initial test configuration is 802.11ac-VHT80 mode.

Wi-Fi 5GHz (U-NII-3) Full Power MIMO Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)			
		Tune-up	Meas.	Ant 0	Ant 1
802.11a (6M)	149/5745	19.00	18.50	15.54	15.45
	157/5785	19.00	18.31	15.22	15.38
	165/5825	19.00	18.17	15.12	15.20
802.11n-HT20 (MCS0)	149/5745	19.00	18.24	15.15	15.31
	157/5785	19.00	18.24	15.15	15.31
	165/5825	19.00	18.20	15.11	15.28
802.11n-HT40 (MCS0)	151/5755	19.00	17.52	14.27	14.74
	159/5795	19.00	17.87	14.72	15.00
802.11ac-VHT20 (MCS0)	149/5745	19.00	18.22	15.12	15.29
	157/5785	19.00	18.40	15.29	15.48
	165/5825	19.00	18.10	15.01	15.16
802.11ac-VHT40 (MCS0)	151/5755	19.00	17.56	14.28	14.79
	159/5795	19.00	17.94	14.76	15.09
802.11ac-VHT80 (MCS0)	155/5775	19.00	17.38	14.27	14.47
802.11ax-HE20 (MCS0)	149/5745	19.00	18.46	15.41	15.48
	157/5785	19.00	18.41	15.25	15.54
	165/5825	19.00	18.36	15.29	15.41
802.11ax-HE40 (MCS0)	151/5755	19.00	18.00	14.83	15.15
	159/5795	19.00	17.88	14.69	15.03
802.11ax-HE80 (MCS0)	155/5775	19.00	17.77	14.63	14.88

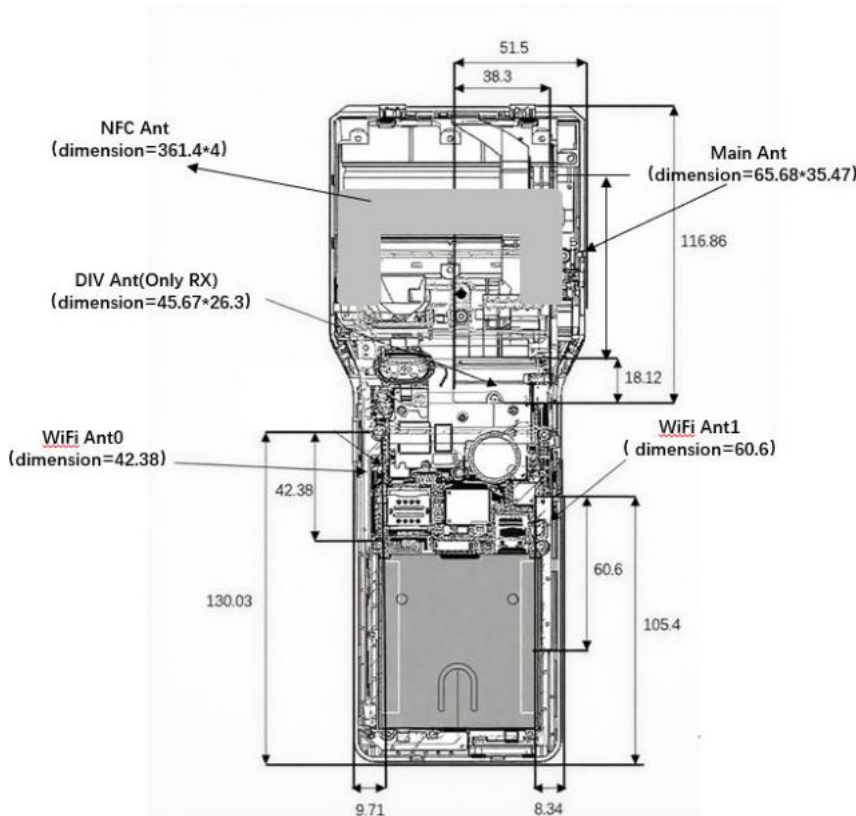
Note. Initial test configuration is 802.11ac-VHT80 mode.

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	9.47	9.38	8.07	11.50
π /4DQPSK	9.75	10.79	10.05	11.50
8DPSK	10.09	11.19	10.24	11.50
BLE	Ch 0/2402 MHz	Ch 19/2440 MHz	Ch 39/2480 MHz	Tune-up Limit (dBm)
GFSK(1M)	8.87	8.88	7.77	10.00
GFSK(2M)	8.99	8.77	7.88	10.00

10 Measured and Reported (Scaled) SAR Results

10.1 EUT Antenna Locations



Overall (Length x Width): 260 mm x 100 mm

Overall Diagonal: 270 mm

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
Bluetooth/Wi-Fi Antenna ANT0	<25mm	<25mm	>25mm	<25mm	>25mm	>25mm
Wi-Fi Antenna ANT1	<25mm	<25mm	<25mm	>25mm	>25mm	>25mm
Hotspot mode, Positions for SAR Tests						
Mode	Back Side	Front side	Left Edge	Right Edge	Top Edge	Bottom Edge
Main-Antenna	Yes	Yes	N/A	Yes	Yes	N/A
Bluetooth/Wi-Fi Antenna ANT0	Yes	Yes	N/A	Yes	N/A	N/A
Wi-Fi Antenna ANT1	Yes	Yes	Yes	N/A	N/A	N/A

Note:

1. Per KDB 941225 D06, when the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 10mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
2. 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.
3. 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

Main Antenna

Band	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	Back Side	10	4TX Slots	Sensor on	N/A	N/A	190/836.6	30.00	29.16	0.154	0.140	1.21	0.187	/
	Front Side	10	4TX Slots	Sensor off	N/A	N/A	190/836.6	30.00	29.16	0.062	0.029	1.21	0.075	/
	Left Edge	10	4TX Slots	Sensor off	N/A	N/A	190/836.6	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	10	4TX Slots	Sensor on	N/A	N/A	190/836.6	30.00	29.16	0.158	-0.060	1.21	0.192	14
	Top Edge	10	4TX Slots	Sensor off	N/A	N/A	190/836.6	30.00	29.16	0.041	0.011	1.21	0.050	/
	Bottom Edge	10	4TX Slots	Sensor off	N/A	N/A	190/836.6	N/A	N/A	N/A	N/A	N/A	N/A	/
GSM1900	Back Side	10	4TX Slots	Sensor on	N/A	N/A	661/1880	19.00	18.40	0.157	0.028	1.15	0.180	/
	Front Side	10	4TX Slots	Sensor off	N/A	N/A	661/1880	26.50	25.52	0.082	0.100	1.25	0.103	/
	Left Edge	10	4TX Slots	Sensor off	N/A	N/A	661/1880	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	10	4TX Slots	Sensor on	N/A	N/A	661/1880	19.00	18.40	0.659	-0.027	1.15	0.757	/
	Top Edge	10	4TX Slots	Sensor off	N/A	N/A	661/1880	26.50	25.52	0.089	0.035	1.25	0.112	/
	Bottom Edge	10	4TX Slots	Sensor off	N/A	N/A	661/1880	N/A	N/A	N/A	N/A	N/A	N/A	/
WCDMA II	Back Side	10	RMC	Sensor on	N/A	N/A	9400/1880	19.00	18.82	0.164	0.020	1.04	0.171	/
	Front Side	10	RMC	Sensor off	N/A	N/A	9400/1880	24.00	22.94	0.051	0.019	1.28	0.065	/
	Left Edge	10	RMC	Sensor off	N/A	N/A	9400/1880	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	10	RMC	Sensor on	N/A	N/A	9400/1880	19.00	18.82	0.598	0.062	1.04	0.623	15
	Top Edge	10	RMC	Sensor off	N/A	N/A	9400/1880	24.00	22.94	0.064	0.031	1.28	0.082	/
	Bottom Edge	10	RMC	Sensor off	N/A	N/A	9400/1880	N/A	N/A	N/A	N/A	N/A	N/A	/
WCDMA IV	Back Side	10	RMC	Sensor on	N/A	N/A	1413/1732.6	18.00	17.91	0.075	0.017	1.02	0.077	/
	Front Side	10	RMC	Sensor off	N/A	N/A	1413/1732.6	24.00	22.84	0.041	-0.090	1.31	0.054	/
	Left Edge	10	RMC	Sensor off	N/A	N/A	1413/1732.6	N/A	N/A	N/A	N/A	N/A	N/A	/

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	Right Edge	10	RMC	Sensor on	N/A	N/A	1413/1732.6	18.00	17.91	0.656	0.061	1.02	0.670	16
	Top Edge	10	RMC	Sensor off	N/A	N/A	1413/1732.6	24.00	22.84	0.072	0.025	1.31	0.094	/
	Bottom Edge	10	RMC	Sensor off	N/A	N/A	1413/1732.6	N/A	N/A	N/A	N/A	N/A	N/A	/
WCDMA V	Back Side	10	RMC	Sensor on	N/A	N/A	4183/836.6	24.00	22.92	0.178	0.160	1.28	0.228	/
	Front Side	10	RMC	Sensor off	N/A	N/A	4183/836.6	24.00	22.92	0.085	0.030	1.28	0.109	/
	Left Edge	10	RMC	Sensor off	N/A	N/A	4183/836.6	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	10	RMC	Sensor on	N/A	N/A	4183/836.6	24.00	22.92	0.187	-0.040	1.28	0.240	17
	Top Edge	10	RMC	Sensor off	N/A	N/A	4183/836.6	24.00	22.92	0.037	0.022	1.28	0.047	/
	Bottom Edge	10	RMC	Sensor off	N/A	N/A	4183/836.6	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 7	Back Side	10	20M QPSK	Sensor on	1	50	21350/2560	18.00	17.72	0.238	0.180	1.07	0.254	/
		10	20M QPSK	Sensor on	50%	0	21100/2535	18.00	17.38	0.186	0.029	1.15	0.215	/
	Front Side	10	20M QPSK	Sensor off	1	50	21350/2560	24.00	23.41	0.038	-0.060	1.15	0.044	/
		10	20M QPSK	Sensor off	50%	0	21100/2535	23.00	22.19	0.035	0.020	1.21	0.042	/
	Left Edge	10	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	10	20M QPSK	Sensor on	1	50	20850/2510	18.00	17.72	0.717	0.190	1.07	0.765	18
		10	20M QPSK	Sensor on	50%	0	20850/2510	18.00	17.38	0.678	0.021	1.15	0.782	/
	Top Edge	10	20M QPSK	Sensor off	1	50	21350/2560	24.00	23.41	0.138	0.026	1.15	0.158	/
		10	20M QPSK	Sensor off	50%	0	21100/2535	23.00	22.19	0.110	0.050	1.21	0.133	/
	Bottom Edge	10	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 12	Back Side	10	10M QPSK	Sensor on	1	25	23130/711	24.00	23.34	0.121	0.011	1.16	0.141	/
		10	10M QPSK	Sensor on	50%	0	23060/704	23.00	21.66	0.100	0.080	1.36	0.136	/
	Front Side	10	10M QPSK	Sensor off	1	25	23130/711	24.00	23.34	0.110	0.024	1.16	0.128	/
		10	10M QPSK	Sensor off	50%	0	23060/704	23.00	21.66	0.103	-0.090	1.36	0.140	/
	Left Edge	10	10M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	10M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	10	10M QPSK	Sensor on	1	25	23130/711	24.00	23.34	0.143	0.090	1.16	0.166	19
		10	10M QPSK	Sensor on	50%	0	23060/704	23.00	21.66	0.116	0.071	1.36	0.158	/
	Top Edge	10	10M QPSK	Sensor off	1	25	23130/711	24.00	23.34	0.039	0.021	1.16	0.045	/
		10	10M QPSK	Sensor off	50%	0	23060/704	23.00	21.66	0.033	0.040	1.36	0.045	/
	Bottom Edge	10	10M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	10M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 13	Back Side	10	10M QPSK	Sensor on	1	25	23230/782	24.00	23.30	0.144	-0.050	1.17	0.169	/
		10	10M QPSK	Sensor on	50%	0	23230/782	23.00	21.98	0.134	0.040	1.26	0.169	/
	Front Side	10	10M QPSK	Sensor off	1	25	23230/782	24.00	23.30	0.103	0.048	1.17	0.121	/
		10	10M QPSK	Sensor off	50%	0	23230/782	23.00	21.98	0.091	0.027	1.26	0.115	/
	Left Edge	10	10M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	10M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	10	10M QPSK	Sensor on	1	25	23230/782	24.00	23.30	0.276	0.120	1.17	0.324	20
		10	10M QPSK	Sensor on	50%	0	23230/782	23.00	21.98	0.238	0.180	1.26	0.301	/
	Top Edge	10	10M QPSK	Sensor off	1	25	23230/782	24.00	23.30	0.032	0.070	1.17	0.038	/
		10	10M QPSK	Sensor off	50%	0	23230/782	23.00	21.98	0.028	0.040	1.26	0.035	/

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	Bottom Edge	10	10M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	10M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 13 (Variant)	Right Edge	10	10M QPSK	Sensor on	1	25	23230/782	24.00	23.30	0.243	0.150	1.17	0.286	/
LTE Band 25	Back Side	10	20M QPSK	Sensor on	1	50	26140/1860	19.00	18.99	0.102	0.022	1.00	0.102	/
		10	20M QPSK	Sensor on	50%	0	26140/1860	19.00	18.89	0.096	0.021	1.03	0.098	/
	Front Side	10	20M QPSK	Sensor off	1	50	26365/1882.5	24.00	23.66	0.042	-0.090	1.08	0.045	/
		10	20M QPSK	Sensor off	50%	0	26590/1905	23.00	22.87	0.049	0.027	1.03	0.050	/
	Left Edge	10	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	10	20M QPSK	Sensor on	1	50	26140/1860	19.00	18.99	0.630	0.112	1.00	0.631	21
		10	20M QPSK	Sensor on	50%	0	26140/1860	19.00	18.89	0.618	0.034	1.03	0.634	/
	Top Edge	10	20M QPSK	Sensor off	1	50	26365/1882.5	24.00	23.66	0.102	0.019	1.08	0.110	/
		10	20M QPSK	Sensor off	50%	0	26590/1905	23.00	22.87	0.075	0.026	1.03	0.077	/
	Bottom Edge	10	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 26	Back Side	10	15M QPSK	Sensor on	1	0	26865/831.5	24.00	23.14	0.163	-0.080	1.22	0.199	/
		10	15M QPSK	Sensor on	50%	0	26915/836.5	23.00	22.02	0.121	0.042	1.25	0.152	/
	Front Side	10	15M QPSK	Sensor off	1	0	26865/831.5	24.00	23.14	0.067	-0.060	1.22	0.082	/
		10	15M QPSK	Sensor off	50%	0	26915/836.5	23.00	22.02	0.052	0.033	1.25	0.065	/
	Left Edge	10	15M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	15M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	10	15M QPSK	Sensor on	1	0	26865/831.5	24.00	23.14	0.200	0.160	1.22	0.244	22
		10	15M QPSK	Sensor on	50%	0	26915/836.5	23.00	22.02	0.171	0.015	1.25	0.214	/
	Top Edge	10	15M QPSK	Sensor off	1	0	26865/831.5	24.00	23.14	0.053	0.024	1.22	0.065	/
		10	15M QPSK	Sensor off	50%	0	26915/836.5	23.00	22.02	0.048	0.080	1.25	0.060	/
	Right Edge	10	10M QPSK	Sensor off	1	25	26740/819	24.00	23.34	0.185	0.110	1.16	0.215	/
	Right Edge	10	10M QPSK	Sensor off	50%	13	26740/819	23.00	22.09	0.168	0.025	1.23	0.207	/
LTE Band 41	Back Side	10	15M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	15M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Front Side	10	15M QPSK	Sensor off	1	50	39750/2506	18.50	18.28	0.106	0.120	1.05	0.112	/
		10	20M QPSK	Sensor on	50%	50	40620/2593	18.50	18.03	0.129	0.090	1.11	0.144	/
	Left Edge	10	20M QPSK	Sensor off	1	50	40185/2549.5	24.00	23.35	0.033	0.075	1.16	0.038	/
		10	20M QPSK	Sensor off	50%	50	41055/2636.5	23.00	22.12	0.041	-0.071	1.22	0.050	/
	Right Edge	10	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Top Edge	10	20M QPSK	Sensor on	1	50	39750/2506	18.50	18.28	0.435	0.018	1.05	0.458	/
		10	20M QPSK	Sensor on	50%	50	40620/2593	18.50	18.03	0.491	0.044	1.11	0.547	23
	Bottom Edge	10	20M QPSK	Sensor off	1	50	40185/2549.5	24.00	23.35	0.051	0.050	1.16	0.059	/
		10	20M QPSK	Sensor off	50%	50	41055/2636.5	23.00	22.12	0.076	0.048	1.22	0.093	/

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LTE Band 66	Back Side	10	20M QPSK	Sensor on	1	0	132322/1745	19.00	18.98	0.074	0.170	1.00	0.074	/
		10	20M QPSK	Sensor on	50%	0	132322/1745	19.00	18.93	0.082	0.032	1.02	0.083	/
	Front Side	10	20M QPSK	Sensor off	1	50	132572/1770	24.00	23.87	0.049	-0.090	1.03	0.050	/
		10	20M QPSK	Sensor off	50%	0	132572/1770	23.00	22.58	0.032	0.025	1.10	0.035	/
	Left Edge	10	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	10	20M QPSK	Sensor on	1	0	132322/1745	19.00	18.98	0.638	0.094	1.00	0.641	24
		10	20M QPSK	Sensor on	50%	0	132322/1745	19.00	18.93	0.531	0.100	1.02	0.540	/
	Top Edge	10	20M QPSK	Sensor off	1	50	132572/1770	24.00	23.87	0.066	0.033	1.03	0.068	/
		10	20M QPSK	Sensor off	50%	0	132572/1770	23.00	22.58	0.058	-0.090	1.10	0.064	/
	Bottom Edge	10	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 71	Back Side	10	20M QPSK	Sensor on	1	50	133222/673	24.00	22.53	0.124	0.080	1.40	0.174	/
		10	20M QPSK	Sensor on	50%	50	133372/688	23.00	21.37	0.132	0.059	1.46	0.192	/
	Front Side	10	20M QPSK	Sensor off	1	50	133222/673	24.00	22.53	0.112	0.033	1.40	0.157	/
		10	20M QPSK	Sensor off	50%	50	133372/688	23.00	21.37	0.135	0.130	1.46	0.196	/
	Left Edge	10	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	10	20M QPSK	Sensor on	1	50	133222/673	24.00	22.53	0.232	0.041	1.40	0.325	25
		10	20M QPSK	Sensor on	50%	50	133372/688	23.00	21.37	0.223	0.080	1.46	0.325	/
	Top Edge	10	20M QPSK	Sensor off	1	50	133222/673	24.00	22.53	0.026	-0.014	1.40	0.036	/
		10	20M QPSK	Sensor off	50%	50	133372/688	23.00	21.37	0.022	0.058	1.46	0.032	/
	Bottom Edge	10	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	20M QPSK	Sensor off	50%	N/A	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	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	ANT 0	Back Side	10	802.11b	98.0%	Full Power	11/2462	17.00	16.08	0.062	0.026	1.26	0.078	/
		Front Side	10	802.11b	98.0%	Full Power	11/2462	17.00	16.08	0.056	-0.080	1.26	0.071	/
		Left Edge	10	802.11b	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10	802.11b	98.0%	Full Power	11/2462	17.00	16.08	0.069	-0.180	1.26	0.087	/
		Top Edge	10	802.11b	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	802.11b	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	ANT 1	Back Side	10	802.11b	98.0%	Full Power	1/2412	17.00	16.37	0.078	0.031	1.18	0.092	/
		Front Side	10	802.11b	98.0%	Full Power	1/2412	17.00	16.37	0.079	0.170	1.18	0.093	26
		Left Edge	10	802.11b	98.0%	Full Power	1/2412	17.00	16.37	0.057	0.050	1.18	0.067	/
		Right Edge	10	802.11b	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	802.11b	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	802.11b	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Wi-Fi 5G U-NII-2A	ANT 0	Back Side	10	802.11ac-VHT80	57.0%	Full Power	58/5290	16.00	14.90	0.141	0.024	2.26	0.319	/
		Front Side	10	802.11ac-VHT80	57.0%	Full Power	58/5290	16.00	14.90	0.078	0.070	2.26	0.176	/
		Left Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

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		Right Edge	10	802.11ac-VHT80	57.0%	Full Power	58/5290	16.00	14.90	0.132	0.060	2.26	0.299	/
		Top Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	ANT 1	Back Side	10	802.11ac-VHT80	57.0%	Full Power	58/5290	16.00	14.21	0.218	0.025	2.65	0.577	/
		Front Side	10	802.11ac-VHT80	57.0%	Full Power	58/5290	16.00	14.21	0.073	-0.090	2.65	0.193	/
		Left Edge	10	802.11ac-VHT80	57.0%	Full Power	58/5290	16.00	14.21	0.356	0.032	2.65	0.942	/
		Right Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Wi-Fi 5G U-NII-2C	ANT 0	Back Side	10	802.11ac-VHT80	57.0%	Full Power	106/5530	16.00	14.67	0.053	0.070	2.38	0.126	/
		Front Side	10	802.11ac-VHT80	57.0%	Full Power	106/5530	16.00	14.67	0.064	0.048	2.38	0.152	/
		Left Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10	802.11ac-VHT80	57.0%	Full Power	106/5530	16.00	14.67	0.249	0.033	2.38	0.593	/
		Top Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	ANT 1	Back Side	10	802.11ac-VHT80	57.0%	Full Power	106/5530	16.00	15.12	0.158	0.025	2.15	0.339	/
		Front Side	10	802.11ac-VHT80	57.0%	Full Power	106/5530	16.00	15.12	0.089	0.080	2.15	0.191	/
		Left Edge	10	802.11ac-VHT80	57.0%	Full Power	106/5530	16.00	15.12	0.347	-0.023	2.15	0.745	/
		Right Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Wi-Fi 5G U-NII-3	ANT 0	Back Side	10	802.11ac-VHT80	57.0%	Full Power	155/5775	16.00	14.27	0.114	0.029	2.61	0.298	/
		Front Side	10	802.11ac-VHT80	57.0%	Full Power	155/5775	16.00	14.27	0.094	0.160	2.61	0.246	/
		Left Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10	802.11ac-VHT80	57.0%	Full Power	155/5775	16.00	14.27	0.260	0.080	2.61	0.679	/
		Top Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	ANT 1	Back Side	10	802.11ac-VHT80	57.0%	Full Power	155/5775	16.00	14.47	0.135	0.070	2.50	0.337	/
		Front Side	10	802.11ac-VHT80	57.0%	Full Power	155/5775	16.00	14.47	0.077	0.026	2.50	0.192	/
		Left Edge	10	802.11ac-VHT80	57.0%	Full Power	155/5775	16.00	14.47	0.491	-0.165	2.50	1.225	27
		Right Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Wi-Fi 5G U-NII-3 (Variant)	ANT 1	Left Edge	10	802.11ac-VHT80	57.0%	Full Power	155/5775	16.00	14.47	0.462	0.120	2.50	1.153	/
Bluetooth	ANT 0	Back Side	10	3DH5	77.0%	Full Power	39/2441	11.50	11.19	0.025	0.024	1.39	0.034	/
		Front Side	10	3DH5	77.0%	Full Power	39/2441	11.50	11.19	0.022	0.016	1.39	0.031	/
		Left Edge	10	3DH5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10	3DH5	77.0%	Full Power	39/2441	11.50	11.19	0.027	-0.086	1.39	0.037	28
		Top Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

Extremity SAR

Band	Test Position	Dist. (mm)	Mode	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR10g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR10g (W/kg)	Plot No.
GSM850	Back Side	0	4TX Slots	Sensor on	N/A	N/A	190/836.6	30.00	29.16	0.251	0.080	1.21	0.305	/
	Front Side	0	4TX Slots	Sensor off	N/A	N/A	190/836.6	30.00	29.16	0.091	0.011	1.21	0.110	/
	Left Edge	0	4TX Slots	Sensor off	N/A	N/A	190/836.6	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	0	4TX Slots	Sensor on	N/A	N/A	190/836.6	30.00	29.16	0.579	0.027	1.21	0.703	29
	Top Edge	0	4TX Slots	Sensor off	N/A	N/A	190/836.6	30.00	29.16	0.051	0.016	1.21	0.062	/
	Bottom Edge	0	4TX Slots	Sensor off	N/A	N/A	190/836.6	N/A	N/A	N/A	N/A	N/A	N/A	/
GSM850 (Variant)	Right Edge	0	4TX Slots	Sensor on	N/A	N/A	190/836.6	30.00	29.16	0.513	0.014	1.21	0.622	
GSM1900	Back Side	0	4TX Slots	Sensor on	N/A	N/A	661/1880	19.00	18.40	0.124	0.011	1.15	0.142	/
	Front Side	0	4TX Slots	Sensor off	N/A	N/A	661/1880	26.50	25.52	0.056	0.028	1.25	0.070	/
	Left Edge	0	4TX Slots	Sensor off	N/A	N/A	661/1880	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	0	4TX Slots	Sensor on	N/A	N/A	661/1880	19.00	18.40	1.270	0.021	1.15	1.458	30
	Top Edge	0	4TX Slots	Sensor off	N/A	N/A	661/1880	26.50	25.52	0.099	-0.030	1.25	0.124	/
	Bottom Edge	0	4TX Slots	Sensor off	N/A	N/A	661/1880	N/A	N/A	N/A	N/A	N/A	N/A	/
WCDMA II	Back Side	0	RMC	Sensor on	N/A	N/A	9400/1880	19.00	18.82	0.107	0.017	1.04	0.112	/
	Front Side	0	RMC	Sensor off	N/A	N/A	9400/1880	24.00	22.94	0.043	0.050	1.28	0.055	/
	Left Edge	0	RMC	Sensor off	N/A	N/A	9400/1880	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	0	RMC	Sensor on	N/A	N/A	9400/1880	19.00	18.82	0.963	0.029	1.04	1.004	31
	Top Edge	0	RMC	Sensor off	N/A	N/A	9400/1880	24.00	22.94	0.090	0.042	1.28	0.115	/
	Bottom Edge	0	RMC	Sensor off	N/A	N/A	9400/1880	N/A	N/A	N/A	N/A	N/A	N/A	/
WCDMA IV	Back Side	0	RMC	Sensor on	N/A	N/A	1413/1732.6	18.00	17.91	0.086	0.039	1.02	0.088	/
	Front Side	0	RMC	Sensor off	N/A	N/A	1413/1732.6	24.00	22.84	0.038	0.012	1.31	0.050	/
	Left Edge	0	RMC	Sensor off	N/A	N/A	1413/1732.6	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	0	RMC	Sensor on	N/A	N/A	1413/1732.6	18.00	17.91	1.190	0.019	1.02	1.215	32
	Top Edge	0	RMC	Sensor off	N/A	N/A	1413/1732.6	24.00	22.84	0.111	-0.022	1.31	0.145	/
	Bottom Edge	0	RMC	Sensor off	N/A	N/A	1413/1732.6	N/A	N/A	N/A	N/A	N/A	N/A	/
WCDMA V	Back Side	0	RMC	Sensor on	N/A	N/A	4183/836.6	24.00	22.92	0.264	0.020	1.28	0.339	/
	Front Side	0	RMC	Sensor off	N/A	N/A	4183/836.6	24.00	22.92	0.103	0.060	1.28	0.132	/
	Left Edge	0	RMC	Sensor off	N/A	N/A	4183/836.6	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	0	RMC	Sensor on	N/A	N/A	4183/836.6	24.00	22.92	0.568	0.085	1.28	0.728	33
	Top Edge	0	RMC	Sensor off	N/A	N/A	4183/836.6	24.00	22.92	0.067	-0.010	1.28	0.086	/
	Bottom Edge	0	RMC	Sensor off	N/A	N/A	4183/836.6	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 7	Back Side	0	20M QPSK	Sensor on	1	50	21350/2560	18.00	17.72	0.310	0.012	1.07	0.331	/
		0	20M QPSK	Sensor on	50%	0	21100/2535	18.00	17.38	0.280	-0.080	1.15	0.323	/
	Front Side	0	20M QPSK	Sensor off	1	50	21350/2560	24.00	23.41	0.049	0.030	1.15	0.056	/
		0	20M QPSK	Sensor off	50%	0	21100/2535	23.00	22.19	0.032	0.024	1.21	0.039	/
	Left Edge	0	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		0	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	0	20M QPSK	Sensor on	1	50	21350/2560	18.00	17.72	1.370	0.039	1.07	1.461	34
		0	20M QPSK	Sensor on	1	50	21350/2560	18.00	17.72	1.370	0.039	1.07	1.461	34

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LTE Band 7 (Variant)		0	20M QPSK	Sensor on	50%	0	21100/2535	18.00	17.38	1.200	0.080	1.15	1.384	/
	Top Edge	0	20M QPSK	Sensor off	1	50	21350/2560	24.00	23.41	0.219	-0.014	1.15	0.251	/
		0	20M QPSK	Sensor off	50%	0	21100/2535	23.00	22.19	0.158	0.011	1.21	0.190	/
	Bottom Edge	0	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		0	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 12	Back Side	0	10M QPSK	Sensor on	1	25	23130/711	24.00	23.34	0.217	0.106	1.16	0.253	/
		0	10M QPSK	Sensor on	50%	0	23060/704	23.00	21.66	0.163	0.029	1.36	0.222	/
	Front Side	0	10M QPSK	Sensor off	1	25	23130/711	24.00	23.34	0.085	-0.033	1.16	0.099	/
		0	10M QPSK	Sensor off	50%	0	23060/704	23.00	21.66	0.078	0.041	1.36	0.106	/
	Left Edge	0	10M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		0	10M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	0	10M QPSK	Sensor on	1	25	23130/711	24.00	23.34	0.445	0.046	1.16	0.518	35
		0	10M QPSK	Sensor on	50%	0	23060/704	23.00	21.66	0.396	0.022	1.36	0.539	/
	Top Edge	0	10M QPSK	Sensor off	1	25	23130/711	24.00	23.34	0.030	0.100	1.16	0.035	/
		0	10M QPSK	Sensor off	50%	0	23060/704	23.00	21.66	0.027	0.027	1.36	0.037	/
	Bottom Edge	0	10M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		0	10M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 13	Back Side	0	10M QPSK	Sensor on	1	25	23230/782	24.00	23.30	0.199	0.019	1.17	0.234	/
		0	10M QPSK	Sensor on	50%	0	23230/782	23.00	21.98	0.201	0.022	1.26	0.254	/
	Front Side	0	10M QPSK	Sensor off	1	25	23230/782	24.00	23.30	0.079	-0.080	1.17	0.093	/
		0	10M QPSK	Sensor off	50%	0	23230/782	23.00	21.98	0.065	0.060	1.26	0.082	/
	Left Edge	0	10M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		0	10M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	0	10M QPSK	Sensor on	1	25	23230/782	24.00	23.30	0.558	0.100	1.17	0.656	36
		0	10M QPSK	Sensor on	50%	0	23230/782	23.00	21.98	0.512	0.030	1.26	0.648	/
	Top Edge	0	10M QPSK	Sensor off	1	25	23230/782	24.00	23.30	0.029	0.025	1.17	0.034	/
		0	10M QPSK	Sensor off	50%	0	23230/782	23.00	21.98	0.030	0.011	1.26	0.038	/
	Bottom Edge	0	10M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		0	10M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 25	Back Side	0	20M QPSK	Sensor on	1	50	26140/1860	19.00	18.99	0.095	0.110	1.00	0.095	/
		0	20M QPSK	Sensor on	50%	0	26140/1860	19.00	18.89	0.099	-0.080	1.03	0.102	/
	Front Side	0	20M QPSK	Sensor off	1	50	26365/1882.5	24.00	23.66	0.043	0.026	1.08	0.047	/
		0	20M QPSK	Sensor off	50%	0	26590/1905	23.00	22.87	0.031	0.040	1.03	0.032	/
	Left Edge	0	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		0	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	0	20M QPSK	Sensor on	1	50	26140/1860	19.00	18.99	0.892	0.181	1.00	0.894	37
		0	20M QPSK	Sensor on	50%	0	26140/1860	19.00	18.89	0.877	0.031	1.03	0.899	/
	Top Edge	0	20M QPSK	Sensor off	1	50	26365/1882.5	24.00	23.66	0.066	0.160	1.08	0.071	/
		0	20M QPSK	Sensor off	50%	0	26590/1905	23.00	22.87	0.072	0.028	1.03	0.074	/
	Bottom Edge	0	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		0	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

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		0	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 26	Back Side	0	15M QPSK	Sensor on	1	0	26865/831.5	24.00	23.14	0.226	0.017	1.22	0.275	/
		0	15M QPSK	Sensor on	50%	0	26915/836.5	23.00	22.02	0.174	0.036	1.25	0.218	/
	Front Side	0	15M QPSK	Sensor off	1	0	26865/831.5	24.00	23.14	0.085	-0.010	1.22	0.104	/
		0	15M QPSK	Sensor off	50%	0	26915/836.5	23.00	22.02	0.070	0.025	1.25	0.088	/
	Left Edge	0	15M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		0	15M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	0	15M QPSK	Sensor on	1	0	26865/831.5	24.00	23.14	0.492	0.024	1.22	0.600	38
		0	15M QPSK	Sensor on	50%	0	26915/836.5	23.00	22.02	0.472	0.080	1.25	0.591	/
	Top Edge	0	15M QPSK	Sensor off	1	0	26865/831.5	24.00	23.14	0.056	0.031	1.22	0.068	/
		0	15M QPSK	Sensor off	50%	0	26915/836.5	23.00	22.02	0.068	0.010	1.25	0.085	/
	Right Edge	0	10M QPSK	Sensor off	1	25	26740/819	24.00	23.34	0.485	-0.052	1.16	0.565	/
	Right Edge	0	10M QPSK	Sensor off	50%	13	26740/819	23.00	22.09	0.452	0.075	1.23	0.557	/
	Bottom Edge	0	15M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		0	15M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 41	Back Side	0	20M QPSK	Sensor on	1	50	39750/2506	18.50	18.28	0.208	0.070	1.05	0.219	/
		0	20M QPSK	Sensor on	50%	50	40620/2593	18.50	18.03	0.227	0.180	1.11	0.253	/
	Front Side	0	20M QPSK	Sensor off	1	50	40185/2549.5	24.00	23.35	0.028	0.015	1.16	0.033	/
		0	20M QPSK	Sensor off	50%	50	41055/2636.5	23.00	22.12	0.037	0.030	1.22	0.045	/
	Left Edge	0	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		0	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	0	20M QPSK	Sensor on	1	50	39750/2506	18.50	18.28	1.080	-0.062	1.05	1.136	/
		0	20M QPSK	Sensor on	50%	50	40620/2593	18.50	18.03	1.200	0.080	1.11	1.337	39
	Top Edge	0	20M QPSK	Sensor off	1	50	40185/2549.5	24.00	23.35	0.124	0.140	1.16	0.144	/
		0	20M QPSK	Sensor off	50%	50	41055/2636.5	23.00	22.12	0.120	0.090	1.22	0.147	/
	Bottom Edge	0	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		0	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 66	Back Side	0	20M QPSK	Sensor on	1	0	132322/1745	19.00	18.98	0.084	0.030	1.00	0.084	/
		0	20M QPSK	Sensor on	50%	0	132322/1745	19.00	18.93	0.090	0.027	1.02	0.091	/
	Front Side	0	20M QPSK	Sensor off	1	50	132572/1770	24.00	23.87	0.061	-0.011	1.03	0.063	/
		0	20M QPSK	Sensor off	50%	0	132572/1770	23.00	22.58	0.046	0.080	1.10	0.051	/
	Left Edge	0	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		0	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	0	20M QPSK	Sensor on	1	0	132322/1745	19.00	18.98	1.150	0.025	1.00	1.155	/
		0	20M QPSK	Sensor on	50%	0	132322/1745	19.00	18.93	1.180	0.195	1.02	1.199	40
	Top Edge	0	20M QPSK	Sensor off	1	50	132572/1770	24.00	23.87	0.081	0.041	1.03	0.083	/
		0	20M QPSK	Sensor off	50%	0	132572/1770	23.00	22.58	0.062	0.060	1.10	0.068	/
	Bottom Edge	0	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		0	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 71	Back Side	0	20M QPSK	Sensor on	1	50	133222/673	24.00	22.53	0.156	0.028	1.40	0.219	/
		0	20M QPSK	Sensor on	50%	50	133372/688	23.00	21.37	0.167	0.010	1.46	0.243	/
	Front Side	0	20M QPSK	Sensor off	1	50	133222/673	24.00	22.53	0.084	-0.090	1.40	0.118	/
		0	20M QPSK	Sensor off	50%	50	133372/688	23.00	21.37	0.095	0.030	1.46	0.138	/

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Left Edge	0	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	0	20M QPSK	Sensor off	50%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Right Edge	0	20M QPSK	Sensor on	1	50	133222/673	24.00	22.53	0.397	0.050	1.40	0.557	/
	0	20M QPSK	Sensor on	50%	50	133372/688	23.00	21.37	0.426	0.041	1.46	0.620	41
Top Edge	0	20M QPSK	Sensor off	1	50	133222/673	24.00	22.53	0.046	0.017	1.40	0.065	/
	0	20M QPSK	Sensor off	50%	50	133372/688	23.00	21.37	0.046	0.060	1.46	0.067	/
Bottom Edge	0	20M QPSK	Sensor off	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	0	20M QPSK	Sensor off	50%	N/A	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	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR10g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR10g (W/kg)	Plot No.
Wi-Fi 2.4G	ANT 0	Back Side	0	802.11b	98.0%	Full Power	11/2462	17.00	16.08	0.103	0.060	1.26	0.130	/
		Front Side	0	802.11b	98.0%	Full Power	11/2462	17.00	16.08	0.091	0.024	1.26	0.115	/
		Left Edge	0	802.11b	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	0	802.11b	98.0%	Full Power	11/2462	17.00	16.08	0.119	0.092	1.26	0.150	/
		Top Edge	0	802.11b	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	0	802.11b	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	ANT 1	Back Side	0	802.11b	98.0%	Full Power	1/2412	17.00	16.37	0.088	0.010	1.18	0.103	/
		Front Side	0	802.11b	98.0%	Full Power	1/2412	17.00	16.37	0.225	0.155	1.18	0.265	42
		Left Edge	0	802.11b	98.0%	Full Power	1/2412	17.00	16.37	0.118	0.030	1.18	0.139	/
		Right Edge	0	802.11b	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0	802.11b	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	0	802.11b	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Wi-Fi 5G U-NII-2A	ANT 0	Back Side	0	802.11ac-VHT80	57.0%	Full Power	58/5290	16.00	14.90	0.077	0.027	2.26	0.174	/
		Front Side	0	802.11ac-VHT80	57.0%	Full Power	58/5290	16.00	14.90	0.067	0.041	2.26	0.152	/
		Left Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	0	802.11ac-VHT80	57.0%	Full Power	58/5290	16.00	14.90	0.116	0.019	2.26	0.262	/
		Top Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	ANT 1	Back Side	0	802.11ac-VHT80	57.0%	Full Power	58/5290	16.00	14.21	0.093	-0.011	2.65	0.246	/
		Front Side	0	802.11ac-VHT80	57.0%	Full Power	58/5290	16.00	14.21	0.111	0.026	2.65	0.294	/
		Left Edge	0	802.11ac-VHT80	57.0%	Full Power	58/5290	16.00	14.21	0.429	0.080	2.65	1.135	/
		Right Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Wi-Fi 5G U-NII-2C	ANT 0	Back Side	0	802.11ac-VHT80	57.0%	Full Power	106/5530	16.00	14.67	0.121	0.033	2.38	0.288	/
		Front Side	0	802.11ac-VHT80	57.0%	Full Power	106/5530	16.00	14.67	0.080	0.120	2.38	0.190	/
		Left Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	0	802.11ac-VHT80	57.0%	Full Power	106/5530	16.00	14.67	0.126	0.041	2.38	0.300	/
		Top Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

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	ANT 1	Bottom Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Back Side	0	802.11ac-VHT80	57.0%	Full Power	106/5530	16.00	15.12	0.125	0.060	2.15	0.268	/
		Front Side	0	802.11ac-VHT80	57.0%	Full Power	106/5530	16.00	15.12	0.129	0.027	2.15	0.277	/
		Left Edge	0	802.11ac-VHT80	57.0%	Full Power	106/5530	16.00	15.12	0.327	0.033	2.15	0.702	/
		Right Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Wi-Fi 5G U-NII-3	ANT 0	Back Side	0	802.11ac-VHT80	57.0%	Full Power	155/5775	16.00	14.27	0.135	0.025	2.61	0.353	/
		Front Side	0	802.11ac-VHT80	57.0%	Full Power	155/5775	16.00	14.27	0.092	0.080	2.61	0.240	/
		Left Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	0	802.11ac-VHT80	57.0%	Full Power	155/5775	16.00	14.27	0.128	0.091	2.61	0.334	/
		Top Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	ANT 1	Back Side	0	802.11ac-VHT80	57.0%	Full Power	155/5775	16.00	14.47	0.148	0.027	2.50	0.369	/
		Front Side	0	802.11ac-VHT80	57.0%	Full Power	155/5775	16.00	14.47	0.186	0.013	2.50	0.464	/
		Left Edge	0	802.11ac-VHT80	57.0%	Full Power	155/5775	16.00	14.47	0.541	-0.010	2.50	1.350	43
		Right Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	0	802.11ac-VHT80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Bluetooth	ANT 0	Back Side	0	3DH5	77.0%	Full Power	39/2441	11.50	11.19	0.103	0.094	1.39	0.144	44
		Front Side	0	3DH5	77.0%	Full Power	39/2441	11.50	11.19	0.062	0.016	1.39	0.086	/
		Left Edge	0	3DH5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	0	3DH5	77.0%	Full Power	39/2441	11.50	11.19	0.014	0.115	1.39	0.020	/
		Top Edge	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

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

Band	Test Position	Dist. (mm)	Mode	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR10g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR10g (W/kg)	Plot No.
GSM1900	Back Side	16	4TX Slots	Sensor off	N/A	N/A	661/1880	26.50	25.52	0.256	0.170	1.25	0.321	/
	Right Edge	24	4TX Slots	Sensor off	N/A	N/A	661/1880	26.50	25.52	0.798	0.097	1.25	1.000	45
		24	4TX Slots	Sensor off	N/A	N/A	512/1850.2	26.50	25.54	0.765	0.110	1.25	0.954	/
		24	4TX Slots	Sensor off	N/A	N/A	810/1909.8	26.50	25.75	0.796	0.130	1.19	0.946	/
WCDMA II	Back Side	16	RMC	Sensor off	N/A	N/A	9400/1880	24.00	22.94	0.178	-0.080	1.28	0.227	/
	Right Edge	24	RMC	Sensor off	N/A	N/A	9400/1880	24.00	22.94	0.304	0.020	1.28	0.388	/
WCDMA IV	Back Side	16	RMC	Sensor off	N/A	N/A	1413/1732.6	24.00	22.84	0.162	0.010	1.31	0.212	/
	Right Edge	24	RMC	Sensor off	N/A	N/A	1413/1732.6	24.00	22.84	0.545	0.150	1.31	0.712	/
LTE Band 7	Back Side	16	20M QPSK	Sensor off	1	50	21350/2560	24.00	23.41	0.495	-0.190	1.15	0.567	/
		16	20M QPSK	Sensor off	50%	0	21100/2535	23.00	22.19	0.418	-0.040	1.21	0.504	/
	Right Edge	24	20M QPSK	Sensor off	1	50	21350/2560	24.00	23.41	0.141	0.070	1.15	0.162	/
		24	20M QPSK	Sensor off	50%	0	21100/2535	23.00	22.19	0.131	0.022	1.21	0.158	/
LTE Band 25	Back Side	16	20M QPSK	Sensor off	1	50	26365/1882.5	24.00	23.66	0.173	0.018	1.08	0.187	/

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	Right Edge	16	20M QPSK	Sensor off	50%	0	26590/1905	23.00	22.87	0.146	-0.029	1.03	0.150	/
		24	20M QPSK	Sensor off	1	50	26365/1882.5	24.00	23.66	0.108	-0.090	1.08	0.117	/
		24	20M QPSK	Sensor off	50%	0	26590/1905	23.00	22.87	0.098	0.064	1.03	0.101	/
LTE Band 41	Back Side	16	20M QPSK	Sensor off	1	50	40185/2549.5	24.00	23.35	0.241	-0.040	1.16	0.280	/
		16	20M QPSK	Sensor off	50%	50	41055/2636.5	23.00	22.12	0.205	0.080	1.22	0.251	/
	Right Edge	24	20M QPSK	Sensor off	1	50	40185/2549.5	24.00	23.35	0.081	0.070	1.16	0.094	/
		24	20M QPSK	Sensor off	50%	50	41055/2636.5	23.00	22.12	0.097	0.109	1.22	0.119	/
LTE Band 66	Back Side	16	20M QPSK	Sensor off	1	50	132572/1770	24.00	23.87	0.132	-0.071	1.03	0.136	/
		16	20M QPSK	Sensor off	50%	0	132572/1770	23.00	22.58	0.104	0.020	1.10	0.115	/
	Right Edge	24	20M QPSK	Sensor off	1	50	132572/1770	24.00	23.87	0.337	0.060	1.03	0.347	/
		24	20M QPSK	Sensor off	50%	0	132572/1770	23.00	22.58	0.289	0.033	1.10	0.318	/

10.3 Simultaneous Transmission Analysis

Simultaneous Transmission Configurations	Body SAR	Extremity 10g SAR
WWAN + Bluetooth	Yes	Yes
WWAN + Wi-Fi 2.4GHz	Yes	Yes
WWAN + Wi-Fi 5GHz	Yes	Yes
WWAN + Wi-Fi 6GHz	Yes	Yes

General Note:

- The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation $< 1.6\text{W/kg}$ for body and $< 4.0\text{ W/kg}$ for extremity, simultaneously transmission SAR measurement is not necessary.
 - $\text{SPLSR} = (\text{SAR1} + \text{SAR2})^{1.5} / (\text{min. separation distance, mm})$, 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.
 - If $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

The Maximum SAR_{1g} / SAR_{10g} Value for Main-Antenna

SAR _{1g/10g} (W/kg)		GSM	GSM	WCDMA	WCDMA	WCDMA	LTE	LTE	LTE	LTE	LTE	LTE	LTE	LTE	MAX.
Test Position		850	1900	Band II	Band VI	Band V	FDD 7	FDD 12 (FDD 17)	FDD 13	FDD 25 (FDD 2)	FDD 26 (FDD 5)	TDD 41 (TDD 38)	FDD 66 (FDD 4)	FDD 71	SAR _{1g/10g}
Body SAR	Back Side	0.187	0.180	0.171	0.077	0.228	0.254	0.141	0.169	0.102	0.199	0.144	0.083	0.192	0.254
	Front Side	0.075	0.103	0.065	0.054	0.109	0.044	0.140	0.121	0.050	0.082	0.050	0.050	0.196	0.196
	Left 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
	Right Edge	0.192	0.757	0.623	0.670	0.240	0.782	0.166	0.324	0.634	0.244	0.547	0.641	0.325	0.782
	Top Edge	0.050	0.112	0.082	0.094	0.047	0.158	0.045	0.038	0.110	0.065	0.093	0.068	0.036	0.158
	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
Extremity SAR 10g	Back Side	0.305	0.142	0.112	0.088	0.339	0.331	0.253	0.254	0.102	0.275	0.253	0.091	0.243	0.339
	Front Side	0.110	0.070	0.055	0.050	0.132	0.056	0.106	0.093	0.047	0.104	0.045	0.063	0.138	0.138
	Left 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
	Right Edge	0.703	1.458	1.004	1.215	0.728	1.461	0.539	0.656	0.899	0.600	1.337	1.199	0.620	1.461
	Top Edge	0.062	0.124	0.115	0.145	0.086	0.251	0.037	0.038	0.074	0.085	0.147	0.083	0.067	0.251
	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

About Bluetooth, Wi-Fi and Main-Antenna

Original:

The Wi-Fi 6E data is derived from Report No.: USSC258168001.

SAR _{1g/10g} (W/kg) Test Position		Main-Antenna	Wi-Fi 2.4GHz	Wi-Fi 5GHz	Wi-Fi 6GHz	Bluetooth	MAX. Σ SAR _{1g/10g}			
		1	2	3	4	5	1+2	1+3	1+4	1+5
Body SAR 1g	Back Side	0.254	0.092	0.577	0.110	0.034	0.346	0.831	0.364	0.288
	Front Side	0.196	0.093	0.246	0.140	0.031	0.290	0.442	0.336	0.227
	Left Edge	0.000	0.067	1.225	0.130	0.000	0.067	1.225	0.130	0.000
	Right Edge	0.782	0.087	0.679	0.400	0.037	0.869	1.461	1.232	0.819
	Top Edge	0.158	0.000	0.000	0.000	0.000	0.158	0.158	0.158	0.158
	Bottom Edge	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Extremity SAR 10g	Back Side	0.339	0.130	0.369	0.110	0.144	0.468	0.708	0.449	0.482
	Front Side	0.138	0.265	0.464	0.180	0.086	0.404	0.603	0.318	0.225
	Left Edge	0.000	0.139	1.350	0.100	0.000	0.139	1.350	0.100	0.000
	Right Edge	1.461	0.150	0.334	0.360	0.020	1.611	1.796	1.821	1.481
	Top Edge	0.251	0.000	0.000	0.000	0.000	0.251	0.251	0.251	0.251
	Bottom Edge	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note:

1. The value with blue color is the maximum Σ SAR_{1g/10g} Value.

2. MAX. Σ SAR_{1g/10g} =Unlicensed SAR_{MAX} +Licensed SAR_{MAX}.

3. MAX. Σ SAR_{1g} =1.461 W/kg<1.6W/kg and MAX. Σ SAR_{10g} =1.821 W/kg<4 W/kg, so the Simultaneous transmission SAR with volume scan are not required for Bluetooth, Wi-Fi and Main-Antenna.

About Bluetooth, Wi-Fi and Main-Antenna

Variant:

The WiFi 6E data is obtained from Report No.: BL-SZ25C0639-701.

SAR1g/10g(W/kg) Test Position		Main-Antenna	WiFi MIMO						Bluetooth	MAX. Σ SAR _{1g/10g}			
			Max WiFi2.4 GHz	U-NII-2A	U-NII-2C	U-NII-3	Max WiFi 5 GHz	Max WiFi 6GHz					
		1	2	/	/	/	3	4	5	1+2	1+3	1+4	1+5
Body SAR 1g	Back Side	0.254	0.170	0.896	0.465	0.635	0.896	0.078	0.034	0.424	1.150	0.332	0.288
	Front Side	0.196	0.164	0.370	0.343	0.438	0.438	0.042	0.031	0.360	0.634	0.238	0.227
	Left Edge	0.000	0.067	0.942	0.745	1.225	1.225	0.045	0.000	0.067	1.225	0.045	0.000
	Right Edge	0.782	0.087	0.299	0.593	0.679	0.679	0.238	0.037	0.869	1.461	1.020	0.819
	Top Edge	0.158	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.158	0.158	0.158	0.158
	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
Extremity SAR 10g	Back Side	0.339	0.233	0.420	0.557	0.722	0.722	0.088	0.144	0.572	1.061	0.427	0.483
	Front Side	0.138	0.380	0.445	0.467	0.705	0.705	0.010	0.086	0.518	0.843	0.148	0.224
	Left Edge	0.000	0.139	1.135	0.702	1.350	1.350	0.059	0.000	0.139	1.350	0.059	0.000
	Right Edge	1.461	0.150	0.262	0.300	0.334	0.334	0.315	0.020	1.611	1.795	1.776	1.481
	Top Edge	0.251	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.251	0.251	0.251	0.251
	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

Note:

- The value with blue color is the maximum Σ SAR_{1g/10g} Value.
- MAX. Σ SAR_{1g/10g} = Unlicensed SARMAX + Licensed SARMAX
- MAX. Σ SAR_{1g} = 1.461 W/kg < 1.6W/kg and MAX. Σ SAR_{10g} = 1.795 W/kg < 4 W/kg, so the Simultaneous transmission SAR with volume scan is not required for Bluetooth, Wi-Fi and Main-Antenna.
- TER for 1g Max SAR = 0.913 < 1, TER for 10g Max SAR = 0.449 < 1.

11 Measurement Uncertainty

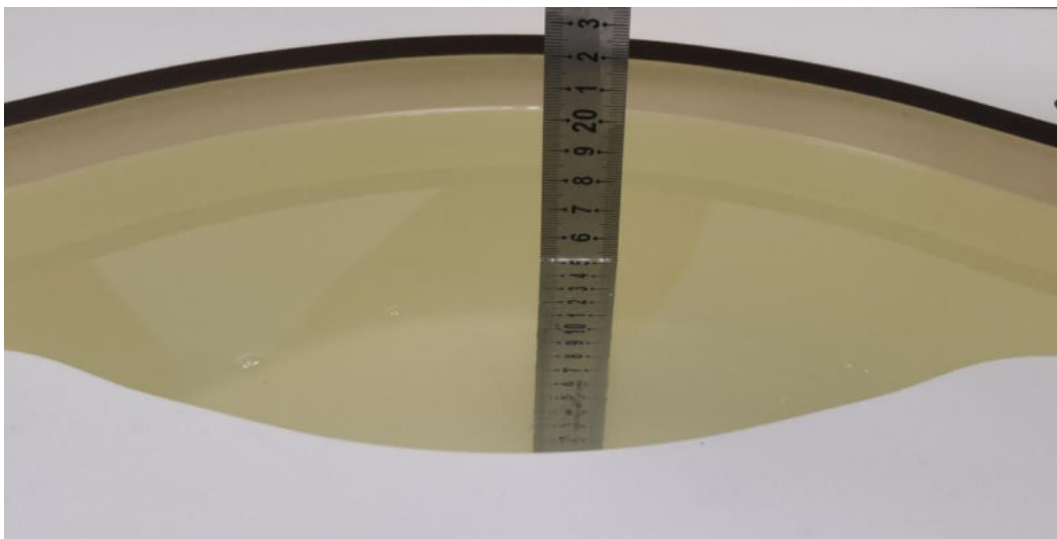
Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528- 2013 is not required in SAR reports submitted for equipment approval.

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: 2025/8/15

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

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.88 \text{ S/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

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(9.80, 9.80, 9.80); Calibrated: 2025/5/28

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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 (measured) = 2.15 W/kg

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

Reference Value = 50.165 V/m ; Power Drift = -0.08 dB

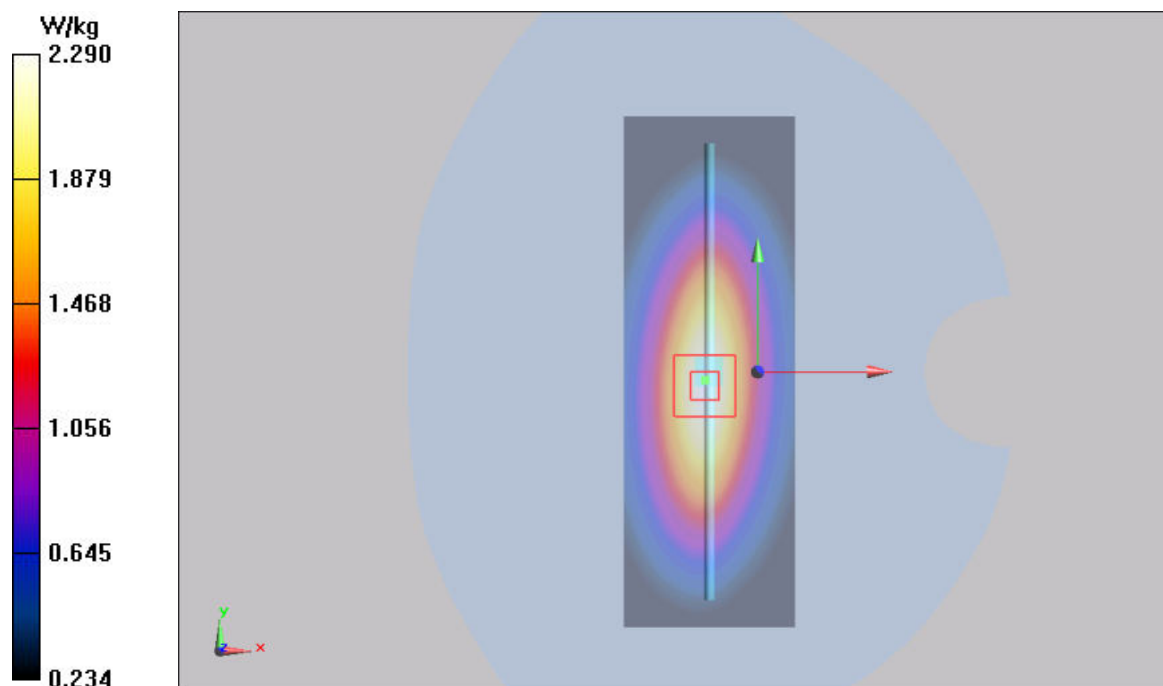
Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 2.13 W/kg ; SAR(10 g) = 1.41 W/kg

Smallest distance from peaks to all points 3 dB below = 8.7 mm

Ratio of SAR at M2 to SAR at M1 = 62.5%

Maximum value of SAR (measured) = 2.29 W/kg



Plot 2 System Performance Check at 750 MHz TSL

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

Date: 2025/8/16

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

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.87 \text{ S/m}$; $\epsilon_r = 42.0$; $\rho = 1000 \text{ kg/m}^3$

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(9.80, 9.80, 9.80); Calibrated: 2025/5/28

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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 (measured) = 2.11 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 = 50.515V/m ; Power Drift = 0.11 dB

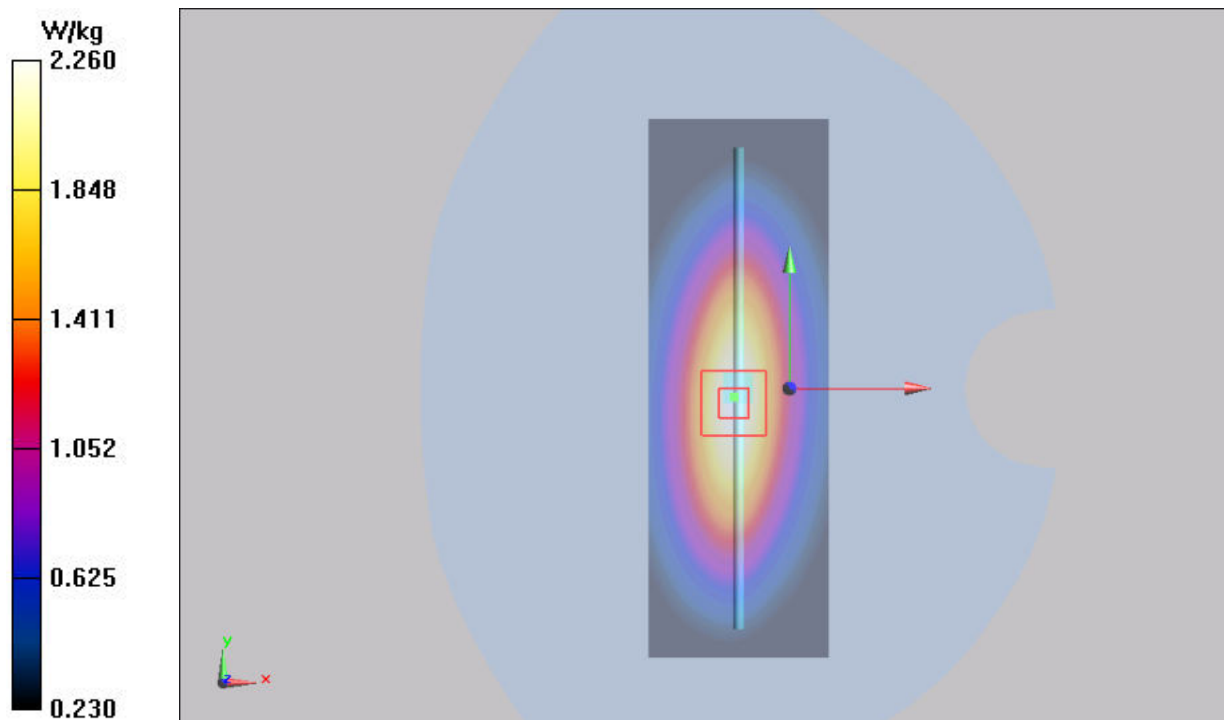
Peak SAR (extrapolated) = 3.02 W/kg

SAR(1 g) = 2.10 W/kg ; SAR(10 g) = 1.37 W/kg

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

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

Maximum value of SAR (measured) = 2.260 W/kg



Plot 3 System Performance Check at 835 MHz TSL

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

Date: 2025/8/13

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 41.4$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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 (measured) = 2.58 W/kg

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

Reference Value = 53.241 V/m; Power Drift = -0.076 dB

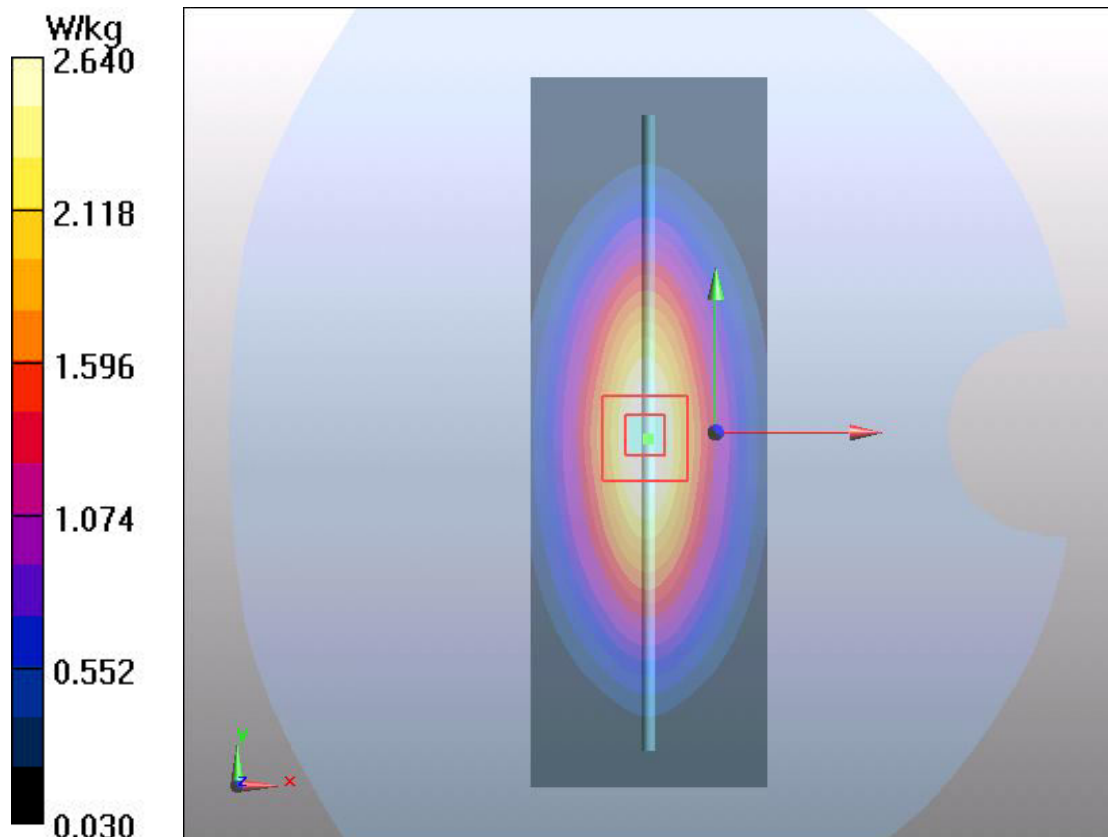
Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.6 W/kg

Smallest distance from peaks to all points 3 dB below = 16.6 mm

Ratio of SAR at M2 to SAR at M1 = 68.1%

Maximum value of SAR (measured) = 2.64 W/kg



Plot 4 System Performance Check at 835 MHz TSL**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2**

Date: 2025/8/14

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 41.3$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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 (measured) = 2.59 W/kg

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

Reference Value = 52.023 V/m; Power Drift = -0.06 dB

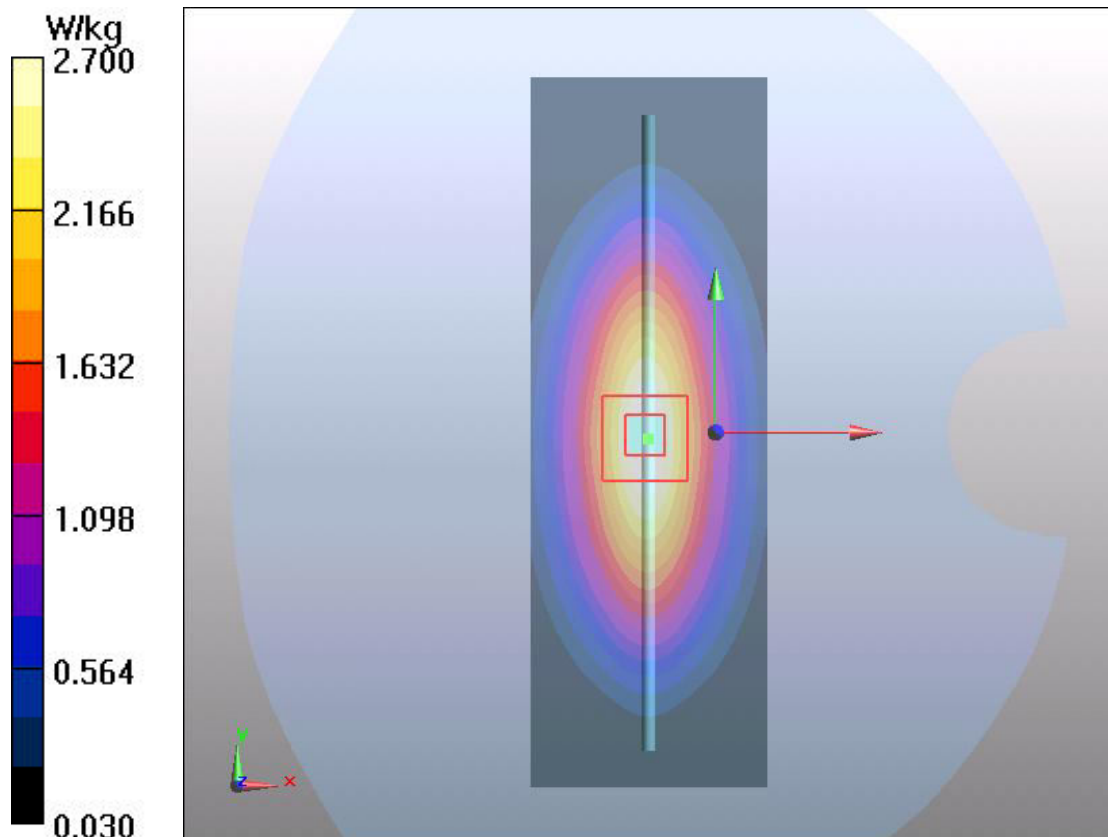
Peak SAR (extrapolated) = 3.25 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.65 W/kg

Smallest distance from peaks to all points 3 dB below = 15.7 mm

Ratio of SAR at M2 to SAR at M1 = 65.4%

Maximum value of SAR (measured) = 2.70 W/kg



Plot 5 System Performance Check at 1750 MHz TSL

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2

Date: 2025/8/18

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.34$ S/m; $\epsilon_r = 40.2$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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) = 9.18 W/kg

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

Reference Value = 80.385 V/m; Power Drift = 0.075 dB

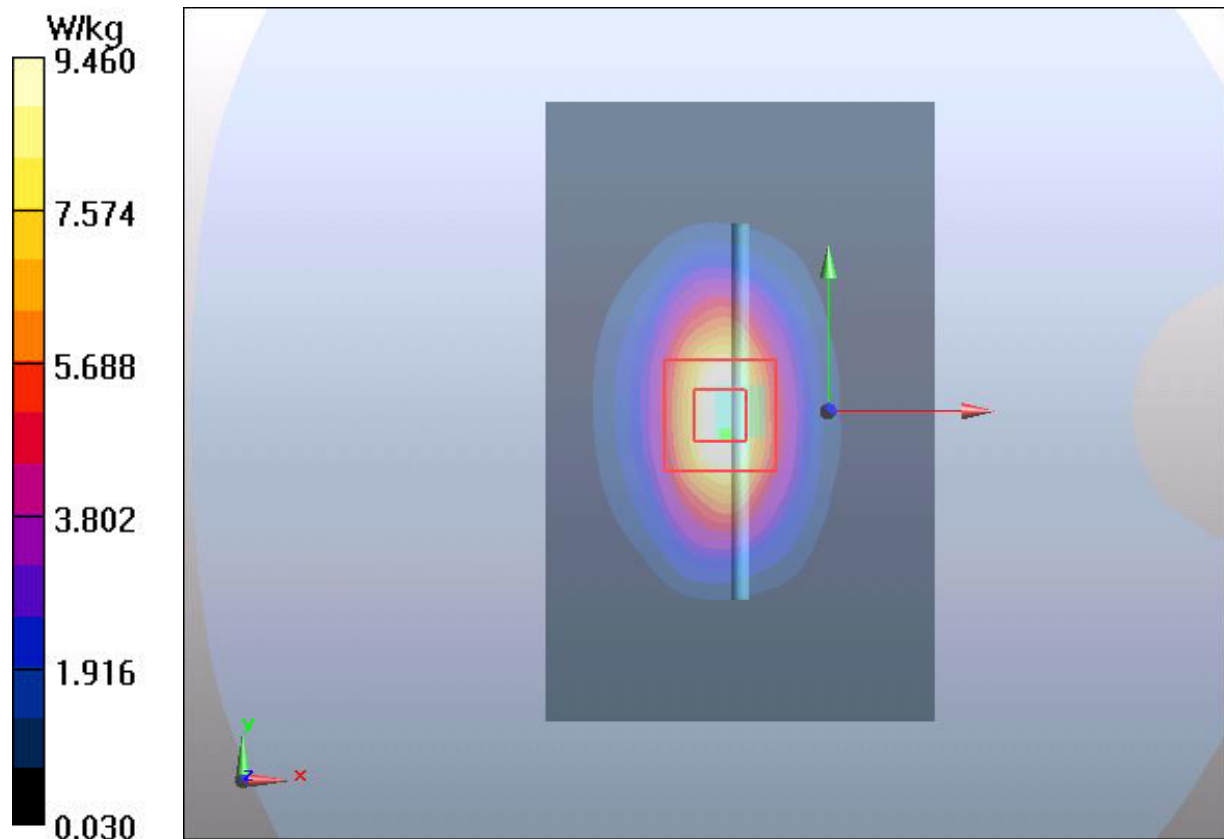
Peak SAR (extrapolated) = 15.5 W/kg

SAR(1 g) = 8.95 W/kg; SAR(10 g) = 4.8 W/kg

Smallest distance from peaks to all points 3 dB below = 10mm

Ratio of SAR at M2 to SAR at M1 = 53.5%

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



Plot 6 System Performance Check at 1900 MHz TSL**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2**

Date: 2025/8/19

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 40.1$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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) = 10.23 W/kg

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

Reference Value = 85.857V/m; Power Drift = 0.026 dB

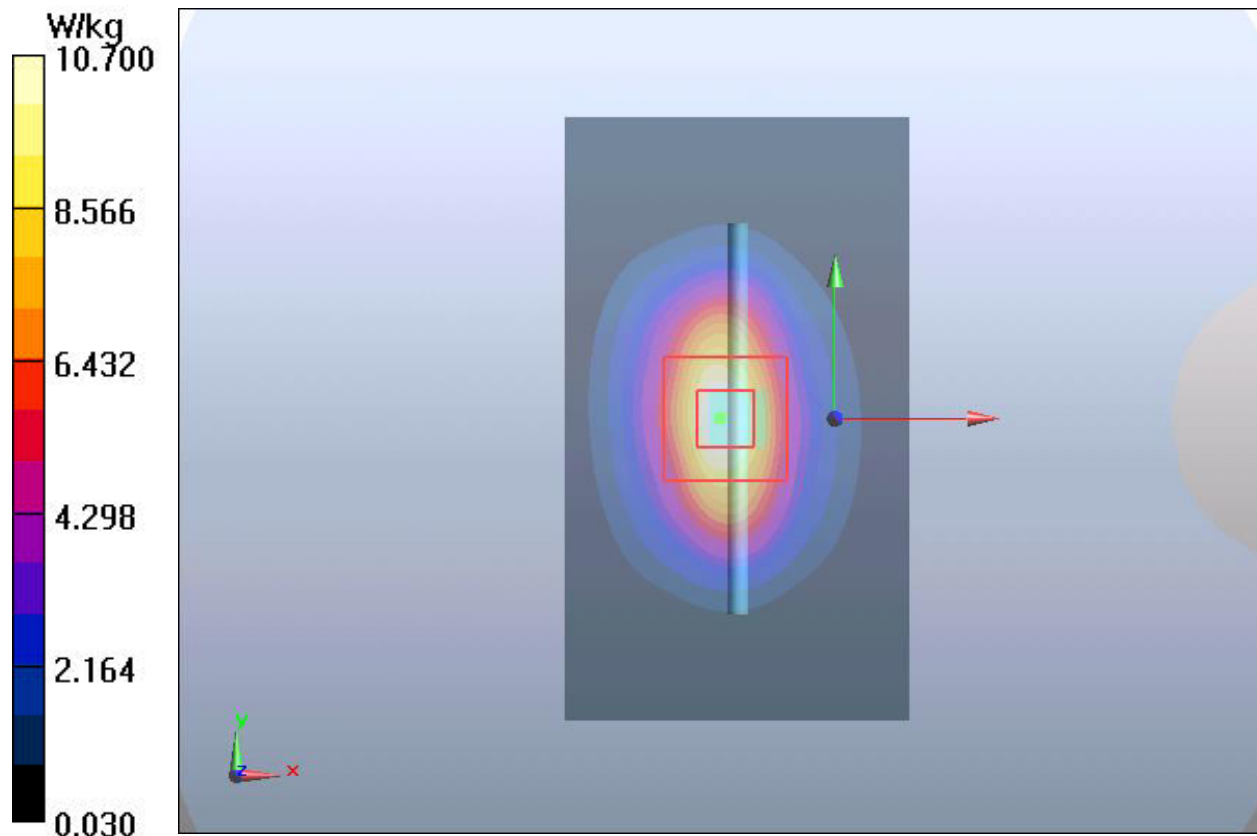
Peak SAR (extrapolated) = 17.84 W/kg

SAR(1 g) = 9.88 W/kg; SAR(10 g) = 4.9 W/kg

Smallest distance from peaks to all points 3 dB below = 11.4 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 10.70 W/kg



Plot 7 System Performance Check at 2450 MHz TSL

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

Date: 2025/8/21

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.81$ S/m; $\epsilon_r = 38.6$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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 (measured) = 14.26 W/kg

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

Reference Value = 88.834 V/m; Power Drift = 0.015 dB

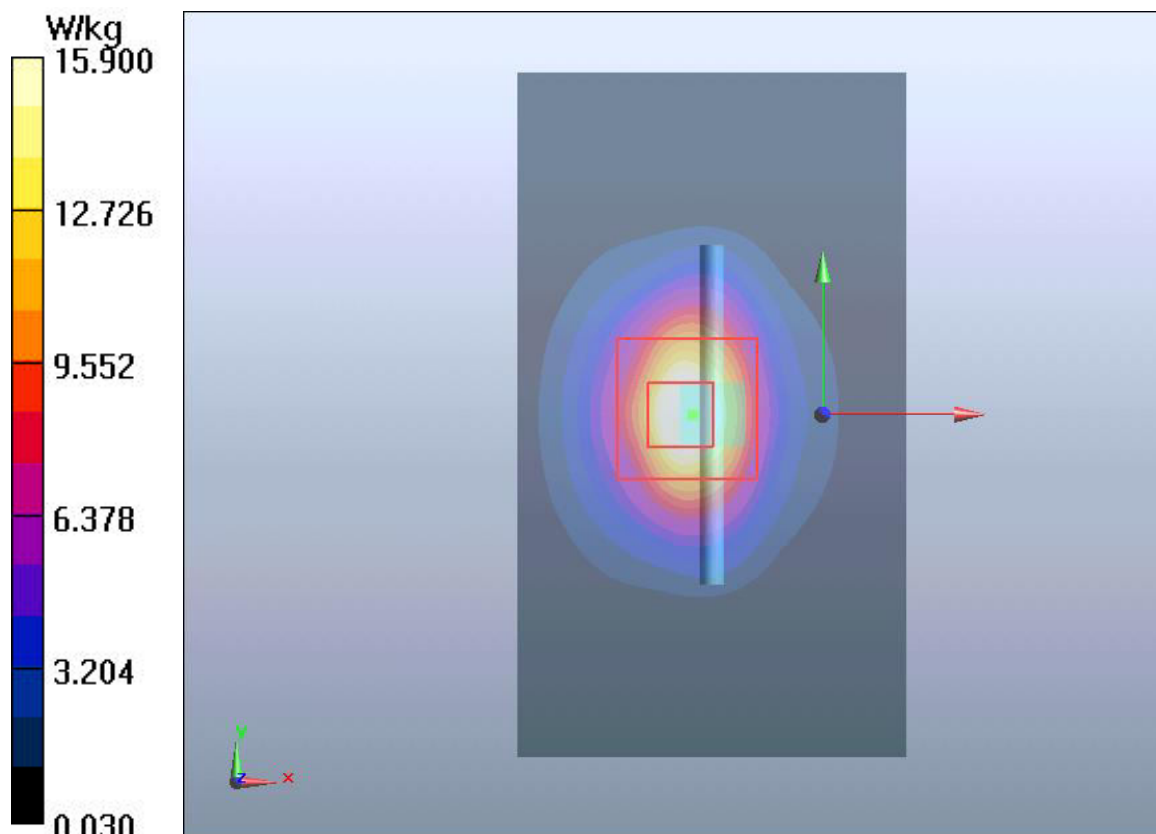
Peak SAR (extrapolated) = 30.10 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.22 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 47%

Maximum value of SAR (measured) = 15.90 W/kg



Plot 8 System Performance Check at 2600 MHz TSL

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2

Date: 2025/8/20

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.01$ S/m; $\epsilon_r = 38.2$; $\rho = 1000$ 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(7.38, 7.38, 7.38); Calibrated: 2025/5/28

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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 (measured) = 14.43 W/kg

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

Reference Value = 87.998 V/m; Power Drift = -0.04 dB

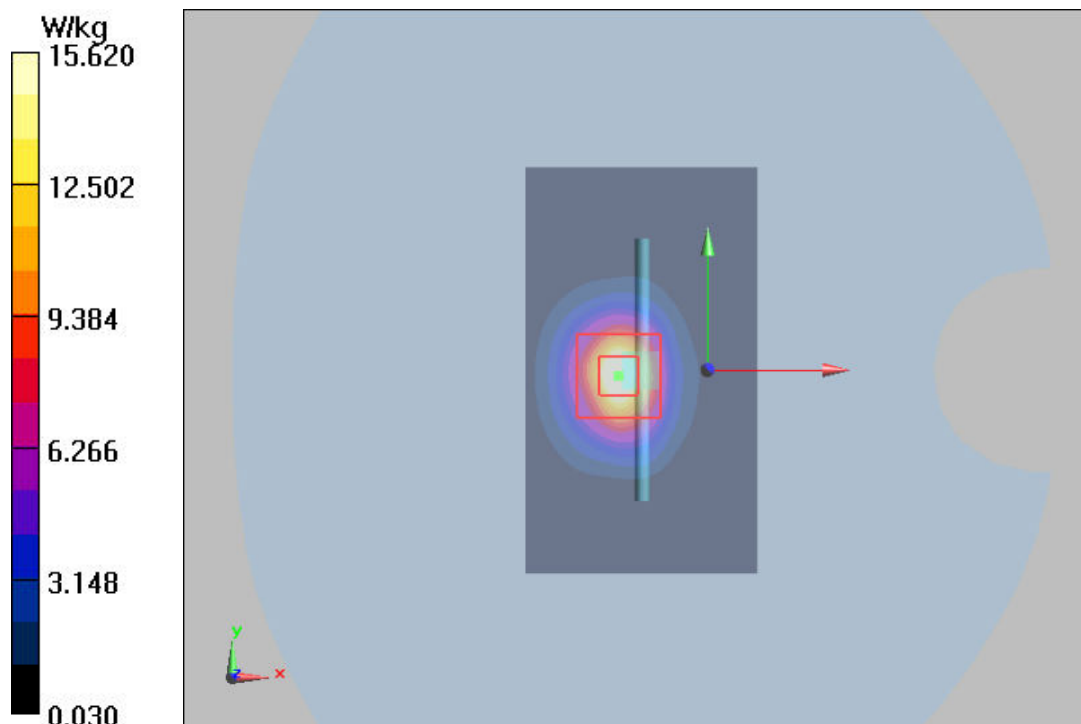
Peak SAR (extrapolated) = 31.85W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.07 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 44.2%

Maximum value of SAR (measured) = 15.62 W/kg



Plot 9 System Performance Check at 5250 MHz TSL

DUT: Dipole 5250 MHz; Type: D5GHzV2; Serial: D5GHzV2

Date: 2025/8/23

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

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.80$ S/m; $\epsilon_r = 35.5$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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 (measured) = 9.14 W/kg

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

Reference Value = 33.654 V/m; Power Drift = -0.095 dB

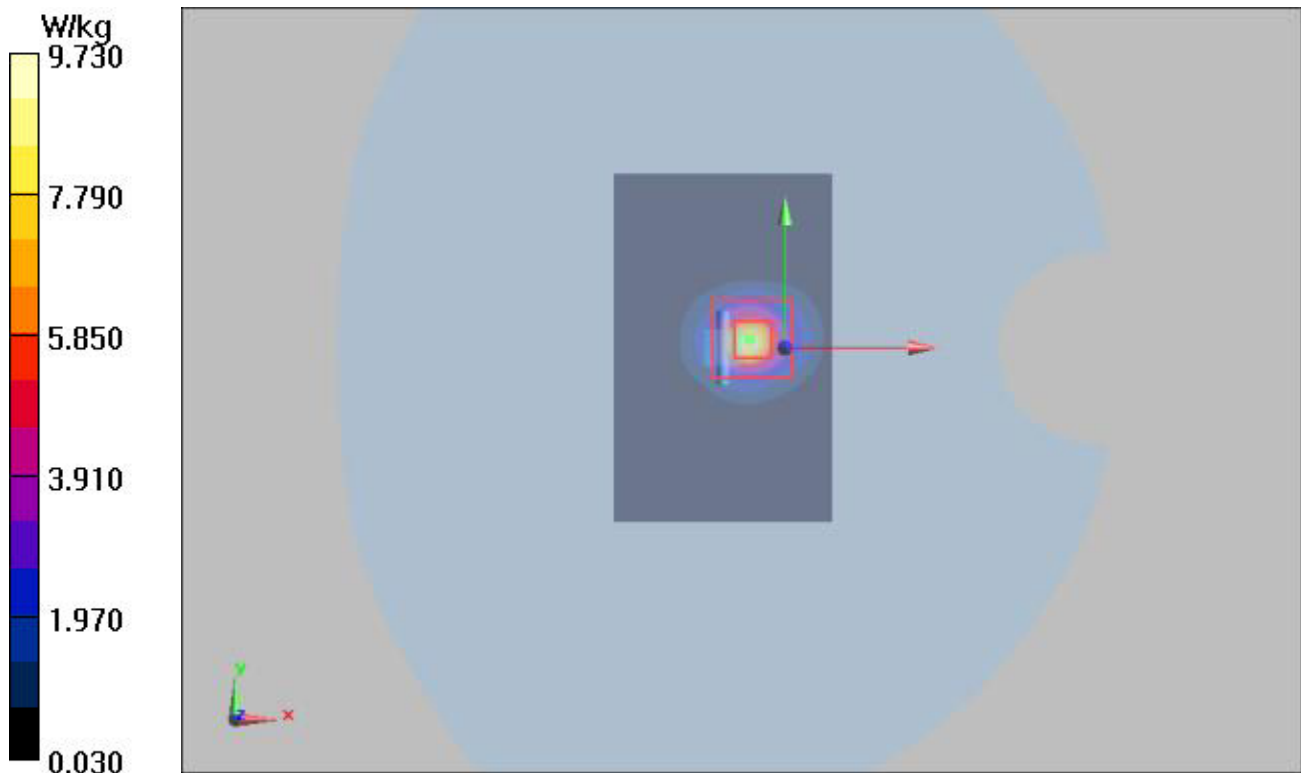
Peak SAR (extrapolated) = 52.20 W/kg

SAR(1 g) = 7.87 W/kg; SAR(10 g) = 2.25 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 63%

Maximum value of SAR (measured) = 9.73 W/kg



Plot 10 System Performance Check at 5600 MHz TSL

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

Date: 2025/8/23

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

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.21$ S/m; $\epsilon_r = 34.2$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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 (measured) = 8.25 W/kg

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

Reference Value = 23.142 V/m; Power Drift = -0.028 dB

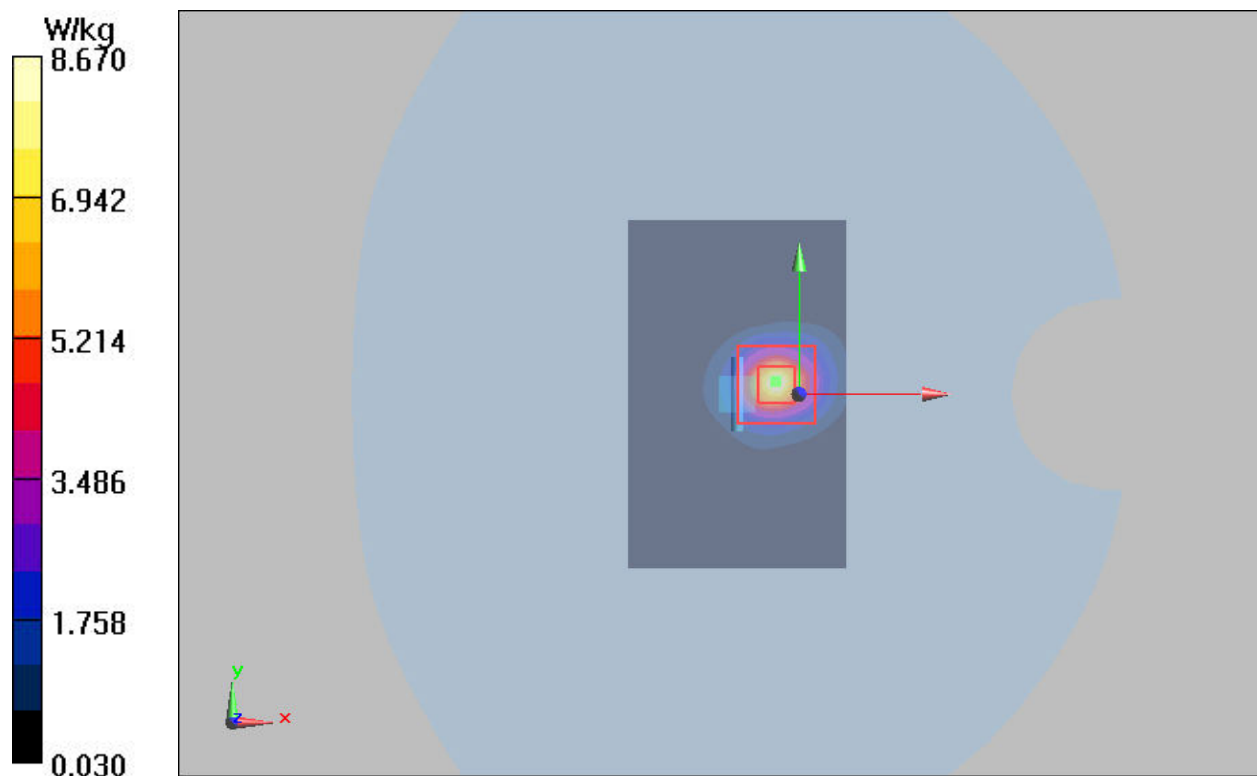
Peak SAR (extrapolated) = 22.9 W/kg

SAR(1 g) = 7.67 W/kg; SAR(10 g) = 2.27 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 61.9%

Maximum value of SAR (measured) = 8.67 W/kg



Plot 11 System Performance Check at 5750 MHz TSL

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

Date: 2025/8/23

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

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.21$ S/m; $\epsilon_r = 34.9$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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 (measured) = 8.31 W/kg

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

Reference Value = 25.26 V/m; Power Drift = 0.044 dB

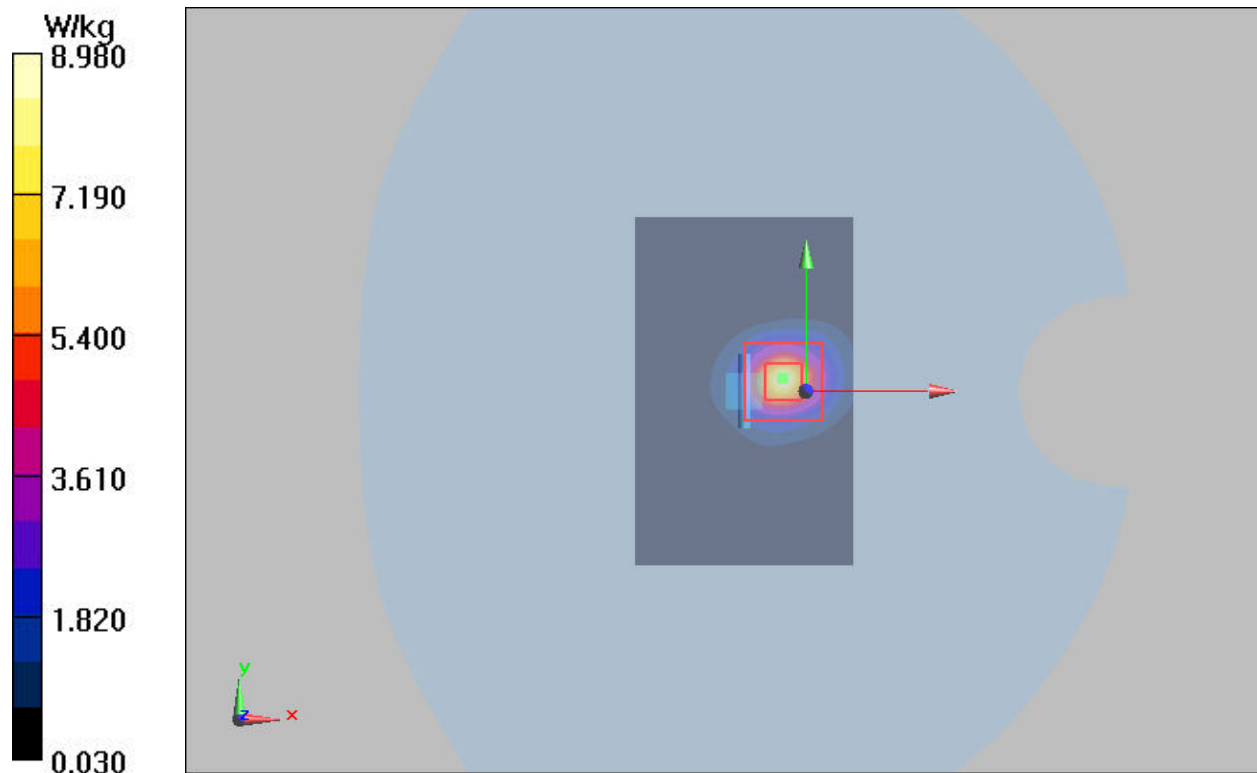
Peak SAR (extrapolated) = 23.4 W/kg

SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.27 W/kg

Smallest distance from peaks to all points 3 dB below = 7.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.4%

Maximum value of SAR (measured) = 8.98 W/kg



Variant:**Plot 12 System Performance Check at 2600 MHz TSL****DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2**

Date: 2025/12/19

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.89$ S/m; $\epsilon_r = 38.29$; $\rho = 1000$ 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(7.38, 7.38, 7.38); Calibrated: 2025/5/28

Electronics: DAE4 Sn1317; Calibrated: 2025/11/19

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 (measured) = 15.19 W/kg

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

Reference Value = 82.192 V/m; Power Drift = -0.012 dB

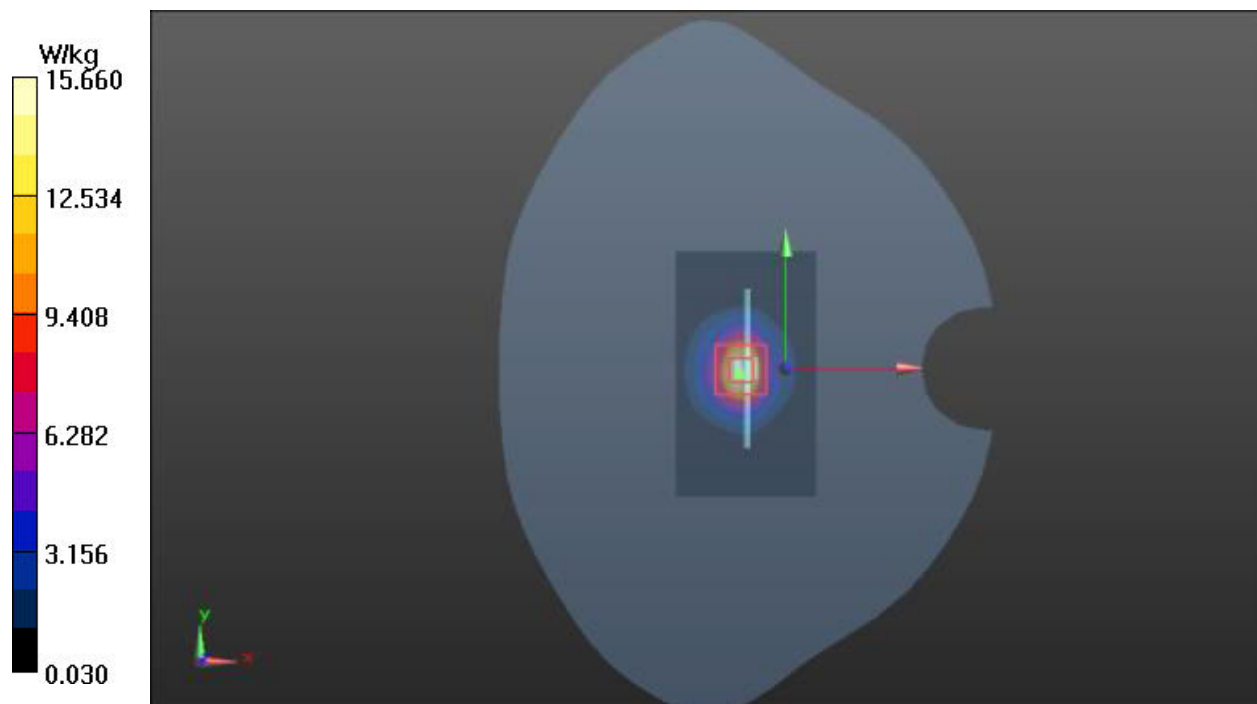
Peak SAR (extrapolated) = 29.65 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.09 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 43.5%

Maximum value of SAR (measured) = 15.66 W/kg



Plot 13 System Performance Check at 5750 MHz TSL

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

Date: 2025/12/19

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

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.30$ S/m; $\epsilon_r = 33.95$; $\rho = 1000$ 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 Sn1317; Calibrated: 2025/11/19

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) = 7.84 W/kg

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

Reference Value = 30.562 V/m; Power Drift = -0.018 dB

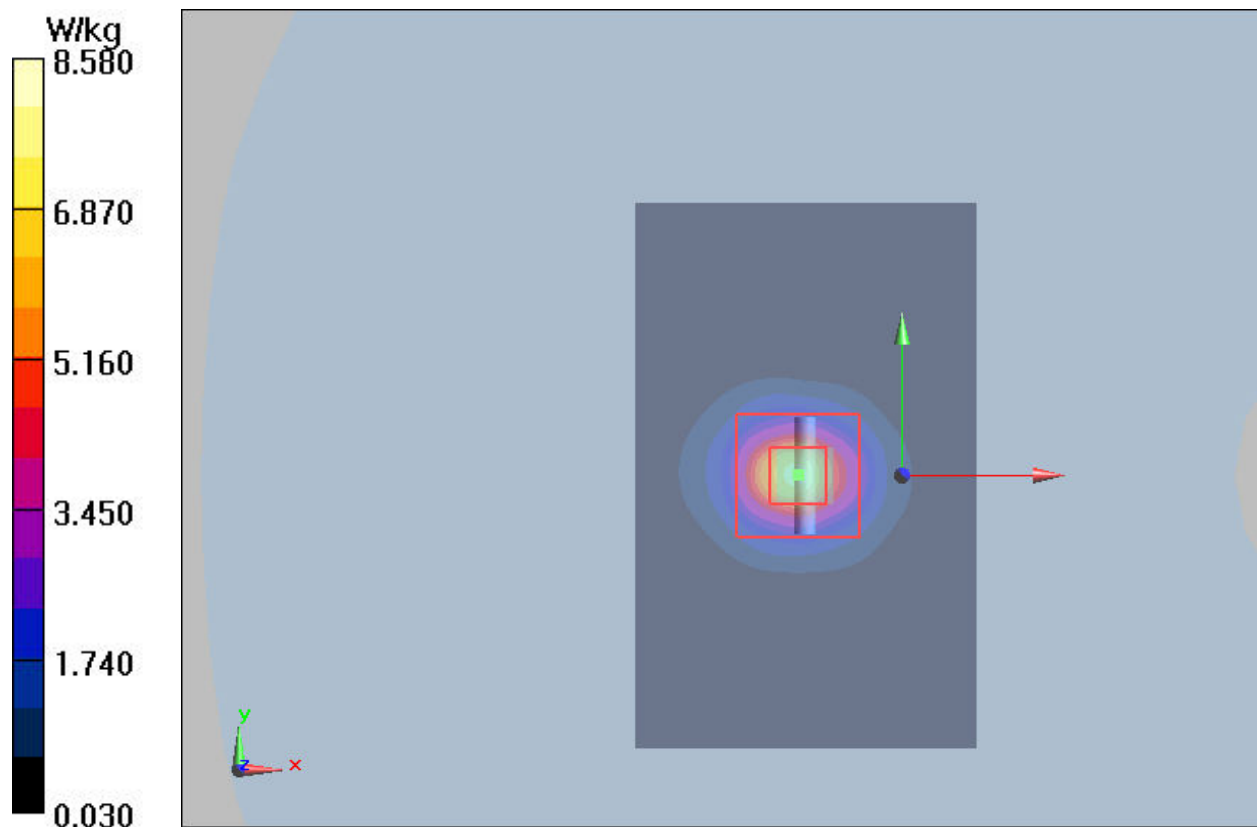
Peak SAR (extrapolated) = 22.26 W/kg

SAR(1 g) = 7.75 W/kg; SAR(10 g) = 2.19 W/kg

Smallest distance from peaks to all points 3 dB below = 10.8 mm

Ratio of SAR at M2 to SAR at M1 = 55.6%

Maximum value of SAR (measured) = 8.58 W/kg



ANNEX C: Highest Graph Results

Plot 14 GSM 850 GPRS(4TX) Right Edge Middle (Distance 10mm)

Date: 2025/8/13

Communication System: UID 0, GPRS 4TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:2.07

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.948$ S/m; $\epsilon_r = 42.274$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

GSM 850 GPRS(4TX) Right Edge 10mm/Mid/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.159 W/kg

GSM 850 GPRS(4TX) Right Edge 10mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.51 V/m; Power Drift = -0.06 dB

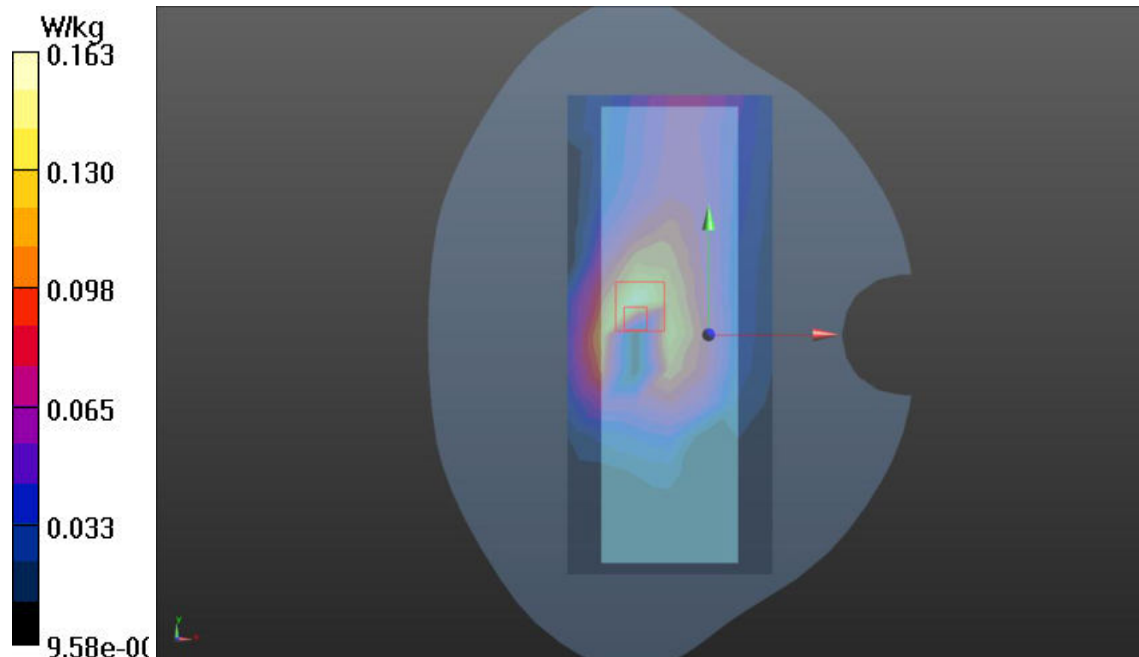
Peak SAR (extrapolated) = 0.270 W/kg

SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.098 W/kg

Smallest distance from peaks to all points 3 dB below = 22.6 mm

Ratio of SAR at M2 to SAR at M1 = 64%

Maximum value of SAR (measured) = 0.163 W/kg



Plot 15 WCDMA Band II Right Edge Middle (Distance 10mm)

Date: 2025/8/19

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 38.43$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

WCDMA B2 Right Edge 10mm/Mid/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.628 W/kg

WCDMA B2 Right Edge 10mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.14 V/m; Power Drift = 0.062 dB

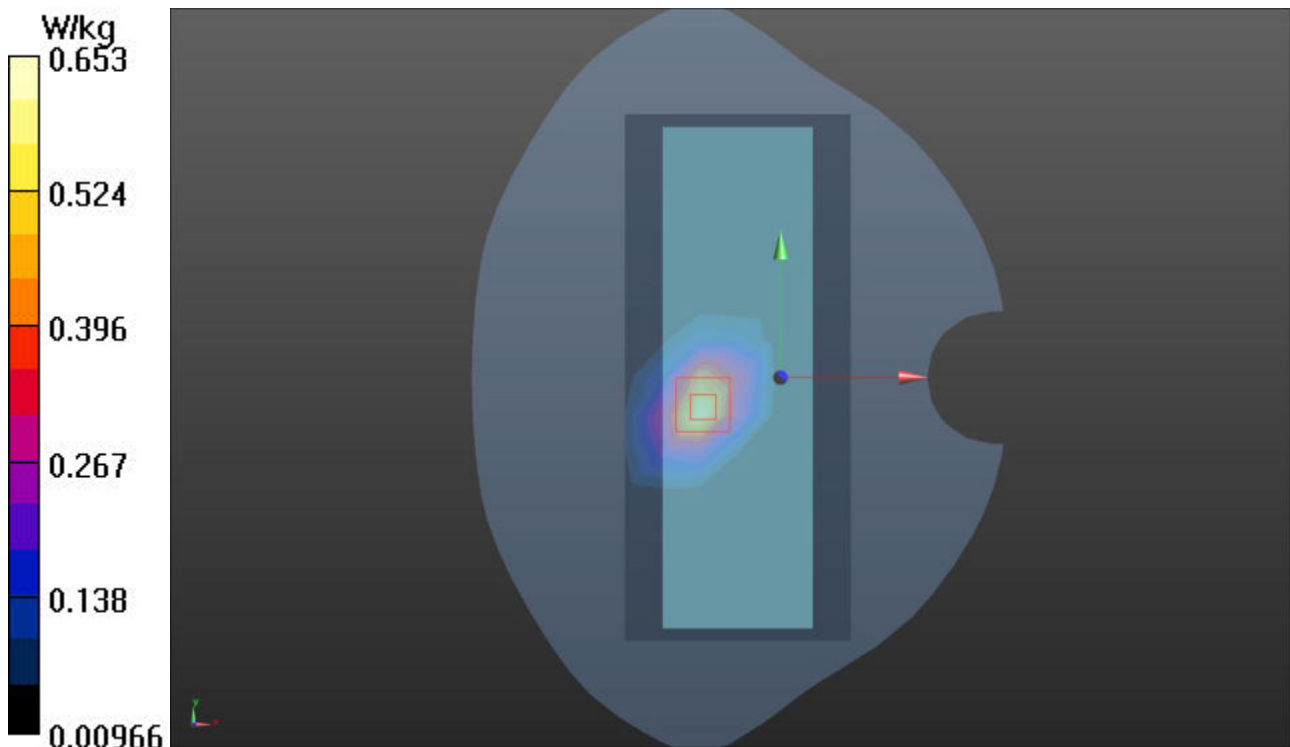
Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.598 W/kg; SAR(10 g) = 0.320 W/kg

Smallest distance from peaks to all points 3 dB below = 11.5 mm

Ratio of SAR at M2 to SAR at M1 = 57.1%

Maximum value of SAR (measured) = 0.653 W/kg



Plot 16 WCDMA Band IV Right Edge Middle (Distance 10mm)

Date: 2025/8/18

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

Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.27$ S/m; $\epsilon_r = 38.942$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

WCDMA B4 Right Edge 10mm/Mid/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.688 W/kg

WCDMA B4 Right Edge 10mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.58 V/m; Power Drift = 0.061 dB

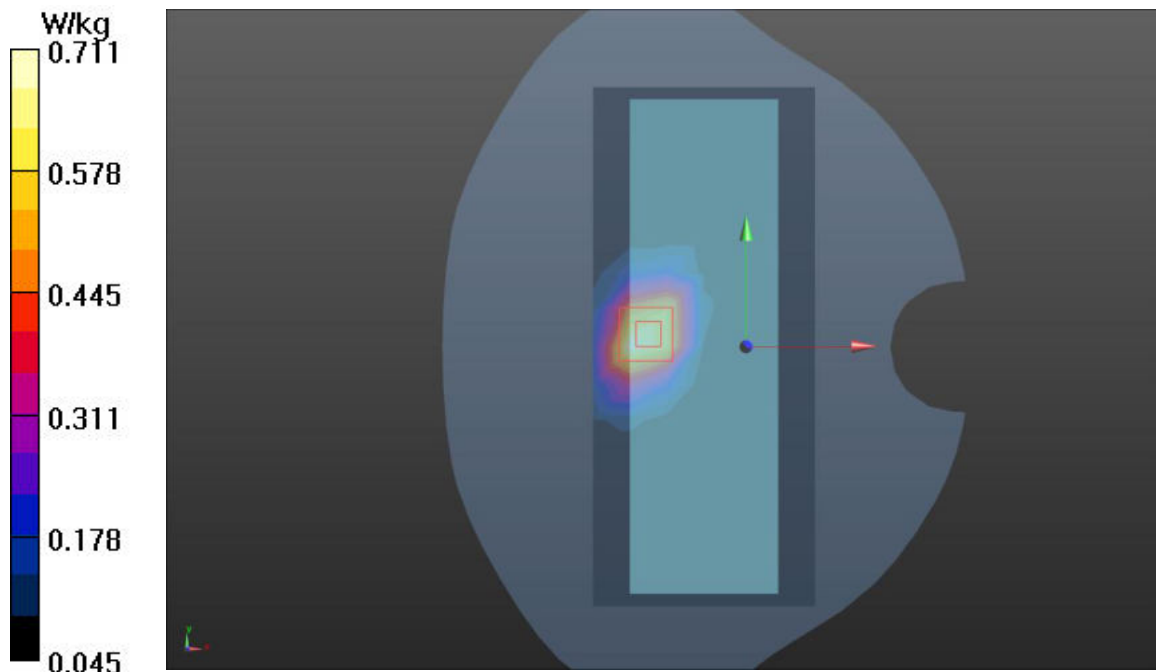
Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.656 W/kg; SAR(10 g) = 0.354 W/kg

Smallest distance from peaks to all points 3 dB below = 11.3 mm

Ratio of SAR at M2 to SAR at M1 = 59.4%

Maximum value of SAR (measured) = 0.711 W/kg



Plot 17 WCDMA Band V Right Edge Middle (Distance 10mm)

Date: 2025/8/13

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.948$ S/m; $\epsilon_r = 42.274$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

WCDMA B5 Right Edge 10mm/Mid/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.195 W/kg

WCDMA B5 Right Edge 10mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.19 V/m; Power Drift = -0.04 dB

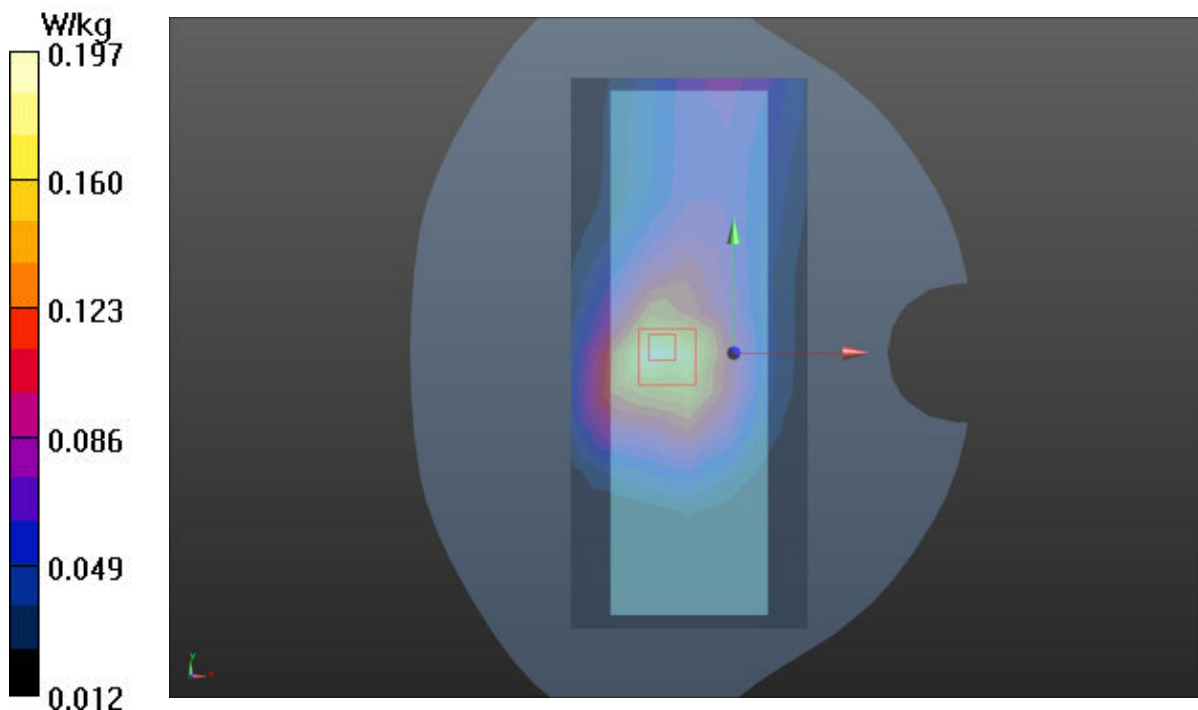
Peak SAR (extrapolated) = 0.312 W/kg

SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.119 W/kg

Smallest distance from peaks to all points 3 dB below = 18.7 mm

Ratio of SAR at M2 to SAR at M1 = 60.8%

Maximum value of SAR (measured) = 0.197 W/kg



Plot 18 LTE Band 7 1RB Right Edge Low (Distance 10mm)

Date: 2025/8/20

Communication System: UID 0, LTE (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.906$ S/m; $\epsilon_r = 38.249$; $\rho = 1000$ 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(7.38, 7.38, 7.38); Calibrated: 2025/5/28

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

LTE B7 1RB Right Edge 10mm/Low/Area Scan (9x20x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.731 W/kg

LTE B7 1RB Right Edge 10mm/Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.666 V/m; Power Drift = 0.19 dB

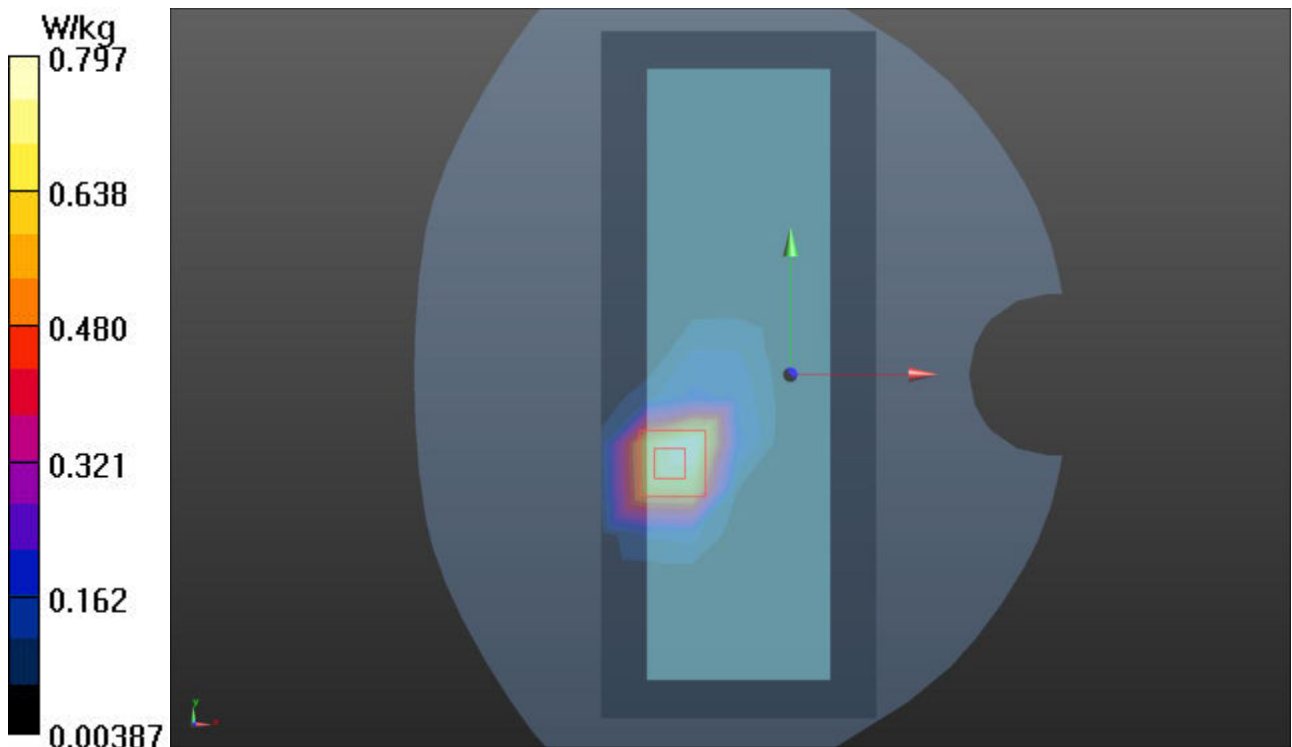
Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.717 W/kg; SAR(10 g) = 0.346 W/kg

Smallest distance from peaks to all points 3 dB below = 11.5 mm

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 0.797 W/kg



Plot 19 LTE Band 12 1RB Right Edge High (Distance 10mm)

Date: 2025/8/15

Communication System: UID 0, LTE (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 711$ MHz; $\sigma = 0.884$ S/m; $\epsilon_r = 43.194$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

LTE B12 1RB Right Edge 10mm/High/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.151 W/kg

LTE B12 1RB Right Edge 10mm/High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.58 V/m; Power Drift = 0.09 dB

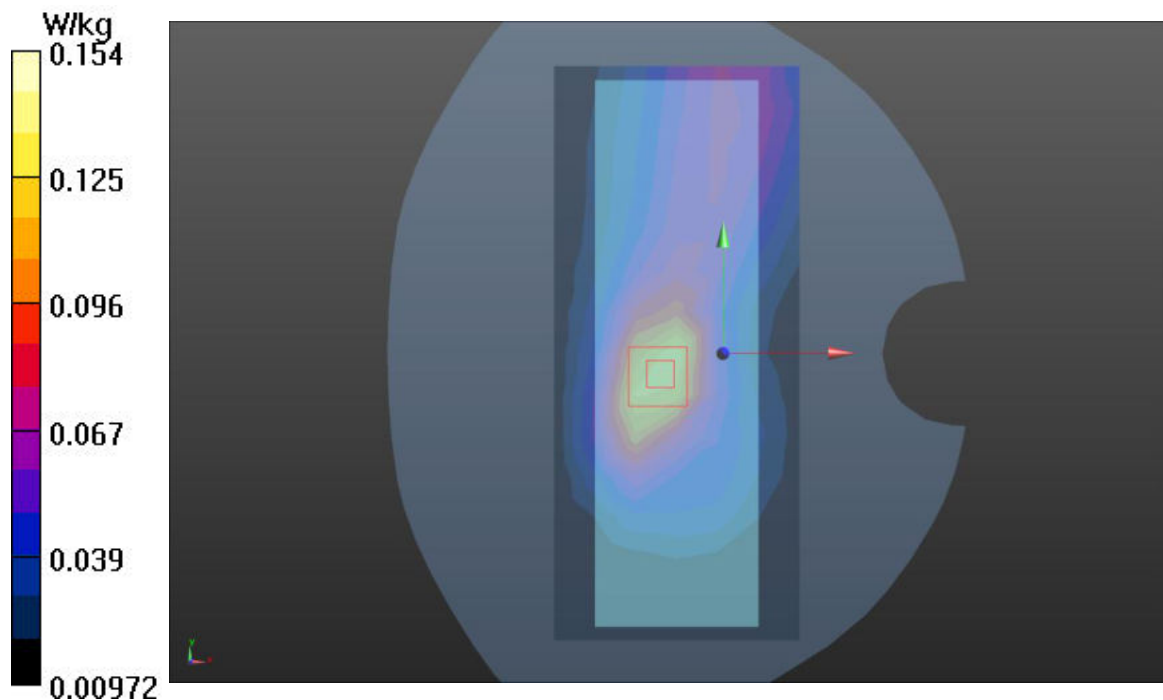
Peak SAR (extrapolated) = 0.220 W/kg

SAR(1 g) = 0.143 W/kg; SAR(10 g) = 0.092 W/kg

Smallest distance from peaks to all points 3 dB below = 17.2 mm

Ratio of SAR at M2 to SAR at M1 = 67.2%

Maximum value of SAR (measured) = 0.154 W/kg



Plot 20 LTE Band 13 1RB Right Edge Middle (Distance 10mm)

Date: 2025/8/15

Communication System: UID 0, LTE (0); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 782$ MHz; $\sigma = 0.929$ S/m; $\epsilon_r = 42.422$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

LTE B13 1RB Right Edge 10mm/Mid/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.278 W/kg

LTE B13 1RB Right Edge 10mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.59 V/m; Power Drift = 0.12 dB

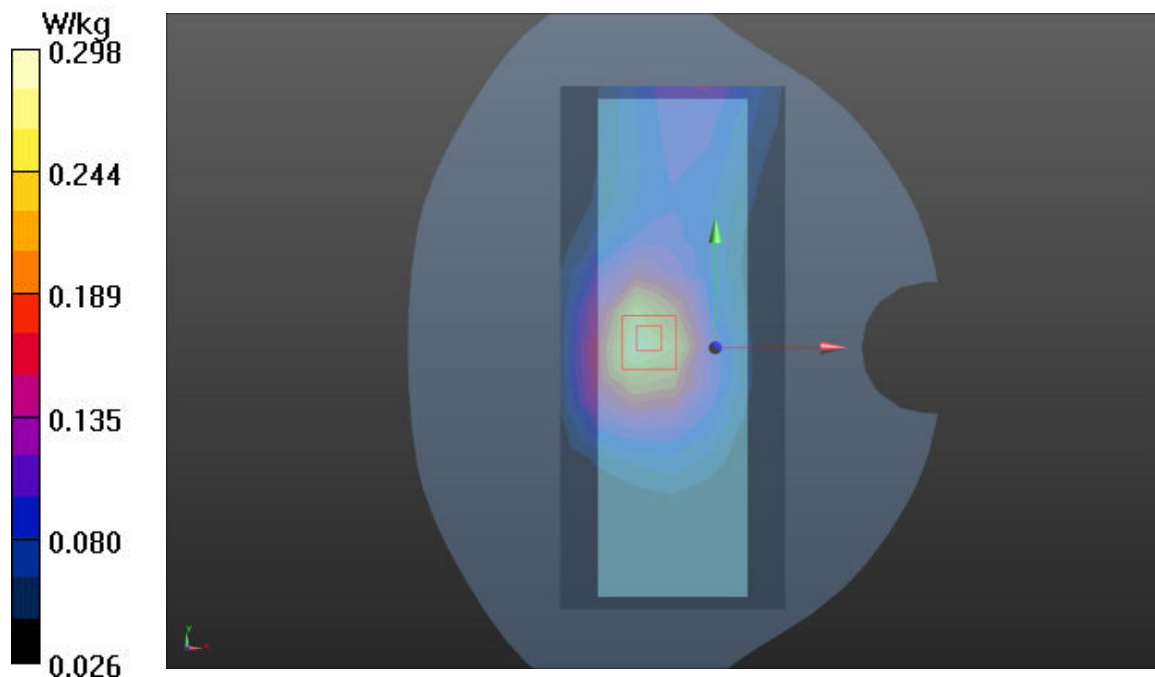
Peak SAR (extrapolated) = 0.405 W/kg

SAR(1 g) = 0.276 W/kg; SAR(10 g) = 0.182 W/kg

Smallest distance from peaks to all points 3 dB below = 21.5 mm

Ratio of SAR at M2 to SAR at M1 = 68.8%

Maximum value of SAR (measured) = 0.298 W/kg



Plot 21 LTE Band 25 1RB Right Edge Low (Distance 10mm)

Date: 2025/8/19

Communication System: UID 0, LTE (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1860$ MHz; $\sigma = 1.391$ S/m; $\epsilon_r = 38.425$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

LTE B25 1RB Right Edge 10mm/Low/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.641 W/kg

LTE B25 1RB Right Edge 10mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.62 V/m; Power Drift = 0.112 dB

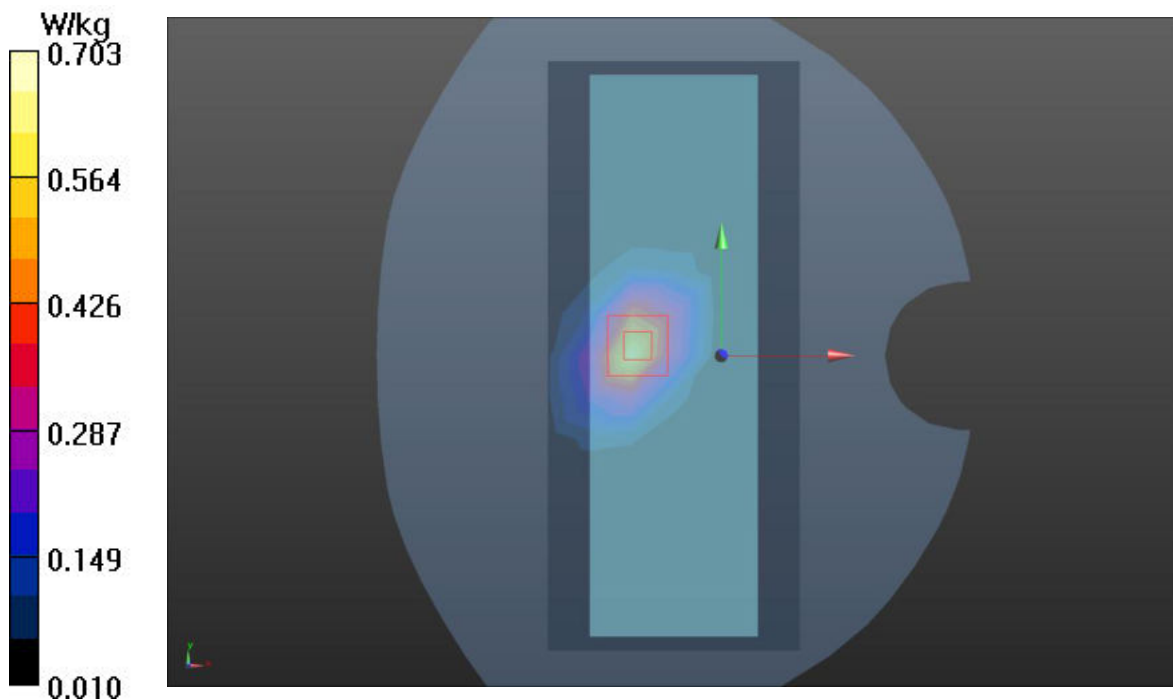
Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.630 W/kg; SAR(10 g) = 0.333 W/kg

Smallest distance from peaks to all points 3 dB below = 11.6 mm

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

Maximum value of SAR (measured) = 0.703 W/kg



Plot 22 LTE Band 26 1RB Right Edge Middle (Distance 10mm)

Date: 2025/8/13

Communication System: UID 0, LTE (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.946$ S/m; $\epsilon_r = 42.316$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

LTE B26 1RB Right Edge 10mm/Mid/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.211 W/kg

LTE B26 1RB Right Edge 10mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.98 V/m; Power Drift = 0.16 dB

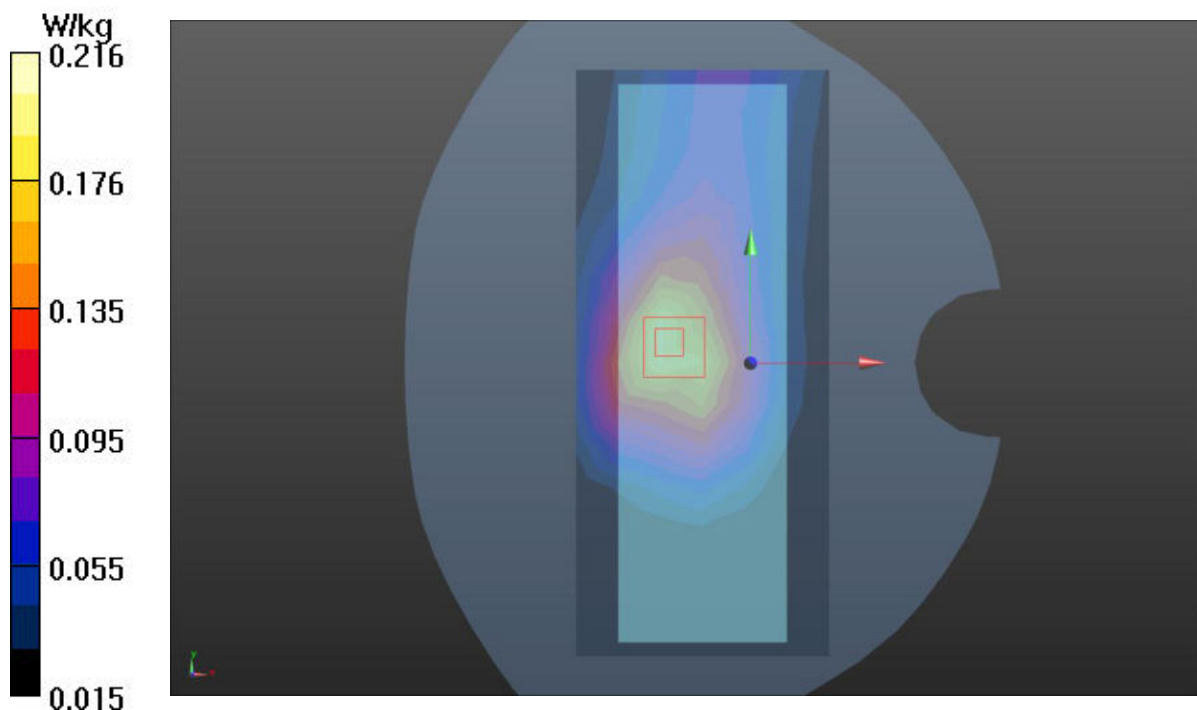
Peak SAR (extrapolated) = 0.313 W/kg

SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.131 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 64.5%

Maximum value of SAR (measured) = 0.216 W/kg



Plot 23 LTE Band 41 50%RB Right Edge Middle (Distance 10mm)

Date: 2025/8/20

Communication System: UID 0, LTE (0); Frequency: 2593 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.055$ S/m; $\epsilon_r = 37.772$; $\rho = 1000$ 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(7.38, 7.38, 7.38); Calibrated: 2025/5/28

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

LTE B41 50%RB Right Edge 10mm/Mid/Area Scan (9x20x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.454 W/kg

LTE B41 50%RB Right Edge 10mm/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.469 V/m; Power Drift = 0.044 dB

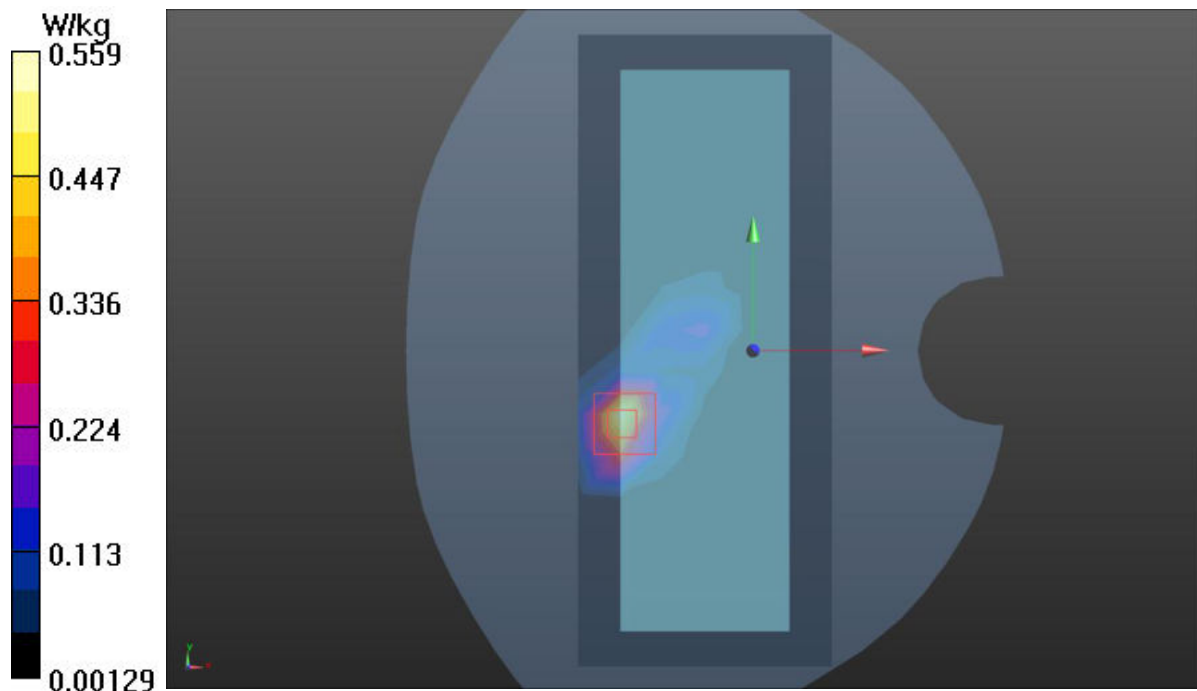
Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.223 W/kg

Smallest distance from peaks to all points 3 dB below = 11.3 mm

Ratio of SAR at M2 to SAR at M1 = 48.4%

Maximum value of SAR (measured) = 0.559 W/kg



Plot 24 LTE Band 66 1RB Right Edge Middle (Distance 10mm)

Date: 2025/8/18

Communication System: UID 0, LTE (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.299$ S/m; $\epsilon_r = 38.874$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

LTE B66 1RB Right Edge 10mm/Mid/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.647 W/kg

LTE B66 1RB Right Edge 10mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.69 V/m; Power Drift = 0.094 dB

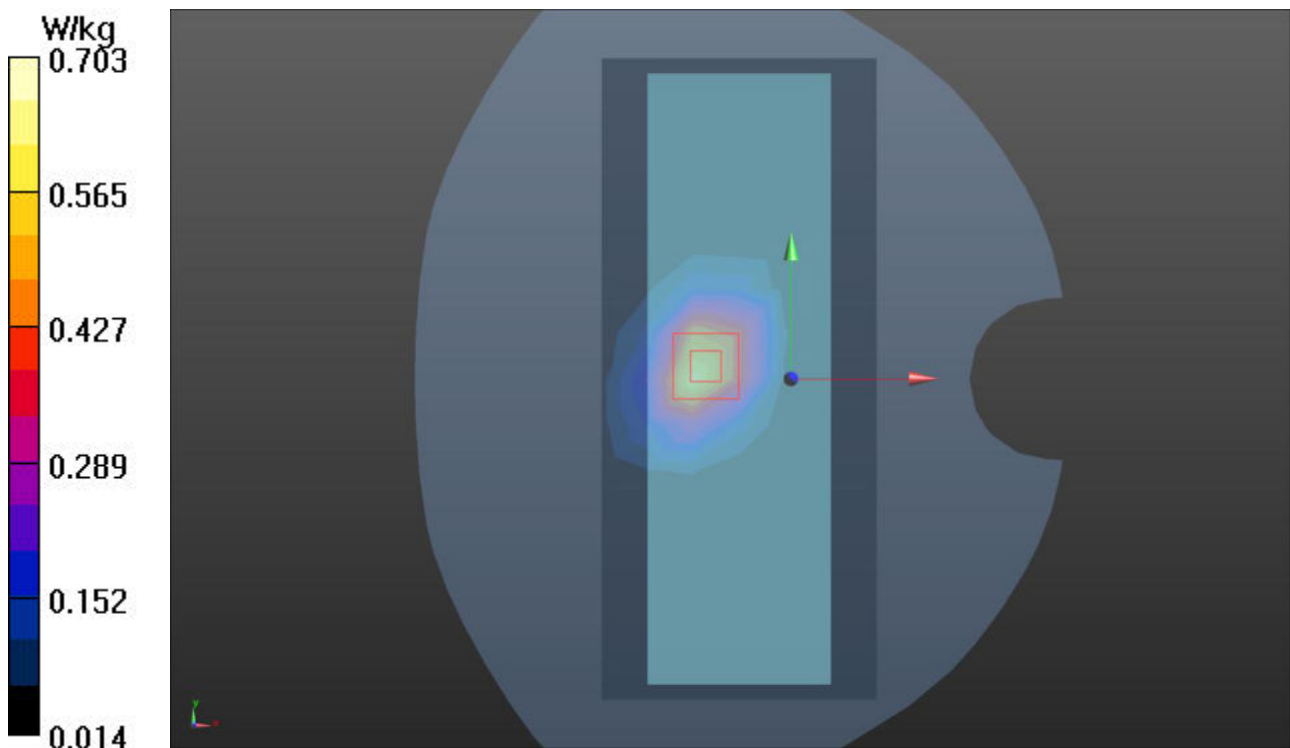
Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.638 W/kg; SAR(10 g) = 0.349 W/kg

Smallest distance from peaks to all points 3 dB below = 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 58.7%

Maximum value of SAR (measured) = 0.703 W/kg



Plot 25 LTE Band 71 1RB Right Edge Low (Distance 10mm)

Date: 2025/8/15

Communication System: UID 0, LTE (0); Frequency: 673 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 673$ MHz; $\sigma = 0.852$ S/m; $\epsilon_r = 43.234$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

LTE B71 1RB Right Edge 10mm/Low/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.246 W/kg

LTE B71 1RB Right Edge 10mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.067 V/m; Power Drift = 0.041 dB

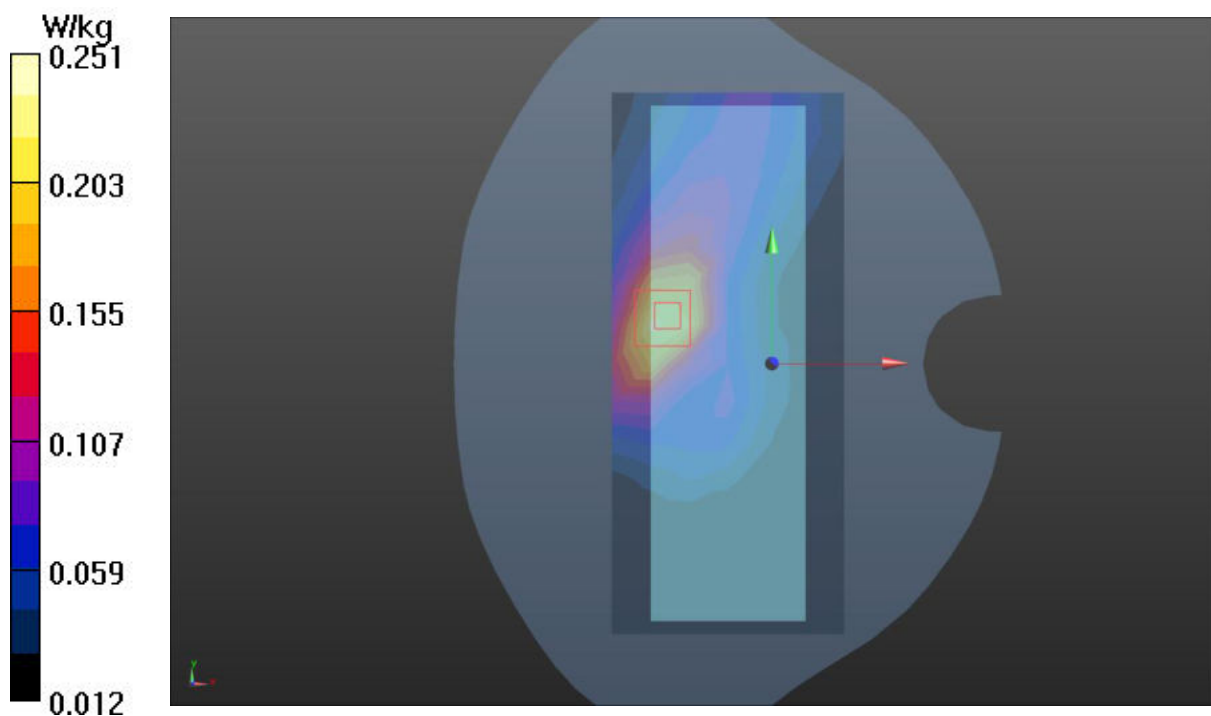
Peak SAR (extrapolated) = 0.375 W/kg

SAR(1 g) = 0.232 W/kg; SAR(10 g) = 0.146 W/kg

Smallest distance from peaks to all points 3 dB below = 16.3 mm

Ratio of SAR at M2 to SAR at M1 = 64%

Maximum value of SAR (measured) = 0.251 W/kg



Plot 26 802.11b Front Side Low (Distance 10mm)

Date: 2025/8/21

Communication System: UID 0, 802.11b (0); Frequency: 2412 MHz; Duty Cycle: 1:1.020

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.796$ S/m; $\epsilon_r = 38.612$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

802.11b Front Side 10mm/Low/Area Scan (10x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.079 W/kg

802.11b Front Side 10mm/Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.659 V/m; Power Drift = 0.17 dB

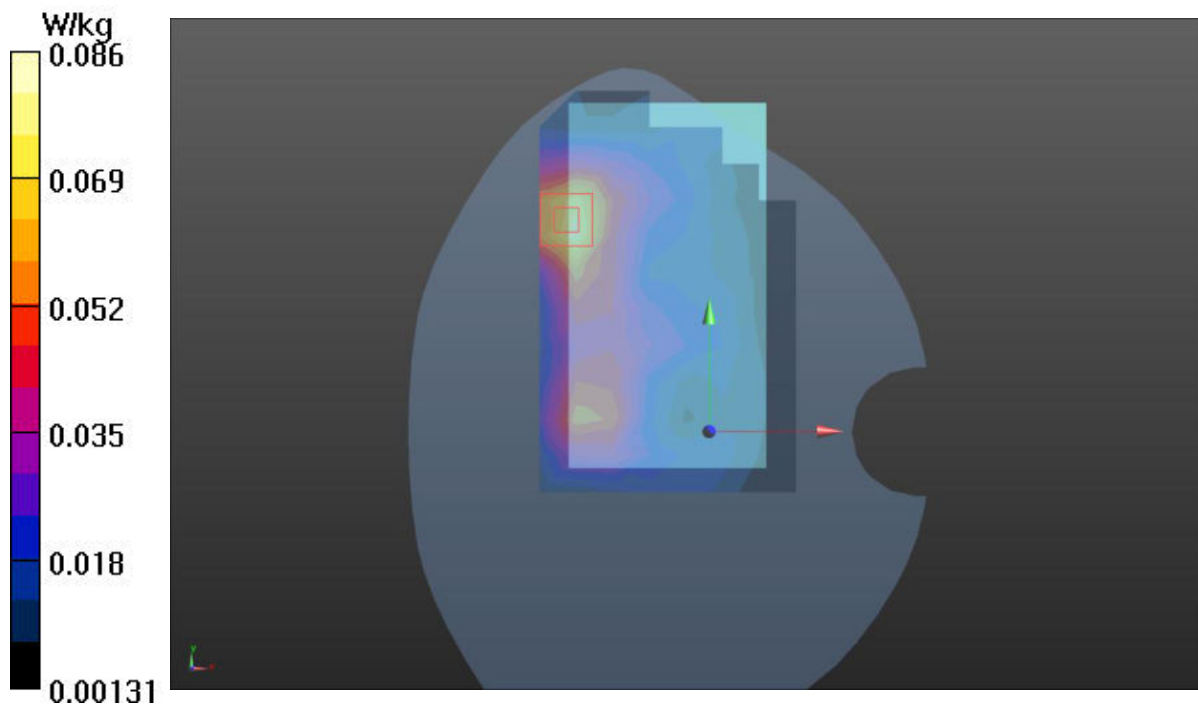
Peak SAR (extrapolated) = 0.147 W/kg

SAR(1 g) = 0.079 W/kg; SAR(10 g) = 0.043 W/kg

Smallest distance from peaks to all points 3 dB below = 9.1 mm

Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 0.086 W/kg



Plot 27 802.11ac VHT80 Left Edge Middle (Distance 10mm)

Date: 2025/8/25

Communication System: UID 0, 802.11 ac (0); Frequency: 5775 MHz; Duty Cycle: 1:1.754

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 5.37$ S/m; $\epsilon_r = 34.152$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

802.11ac VHT80 Left Edge 10mm/Mid/Area Scan (11x24x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.510 W/kg

802.11ac VHT80 Left Edge 10mm/Mid/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.235 V/m; Power Drift = -0.165 dB

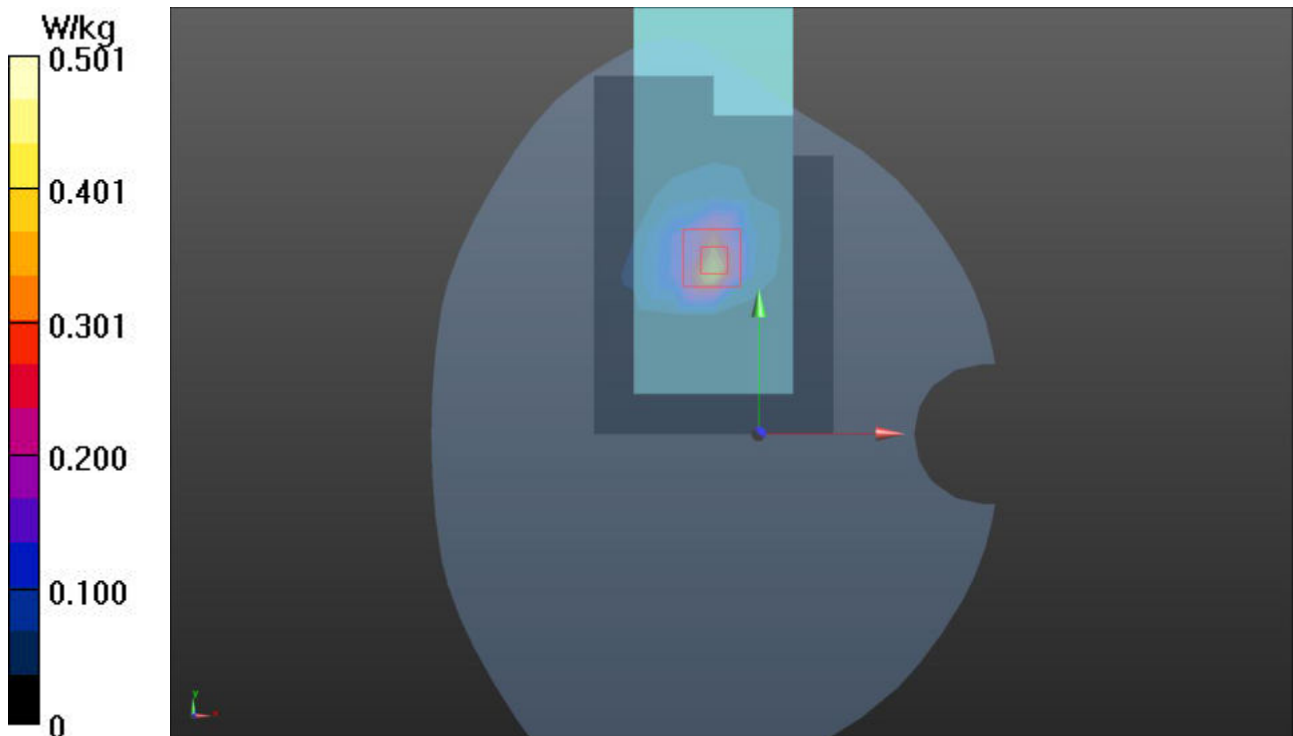
Peak SAR (extrapolated) = 2.48 W/kg

SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.170 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 52.9%

Maximum value of SAR (measured) = 0.501 W/kg



Plot 28 Bluetooth Right Edge Middle (Distance 10mm)

Date: 2025/8/21

Communication System: UID 0, BT (0); Frequency: 2441 MHz; Duty Cycle: 1:1.300

Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.828$ S/m; $\epsilon_r = 38.503$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

BT DH5 Right Edge 10mm/Mid/Area Scan (9x20x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.028 W/kg

BT DH5 Right Edge 10mm/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.360 V/m; Power Drift = -0.86 dB

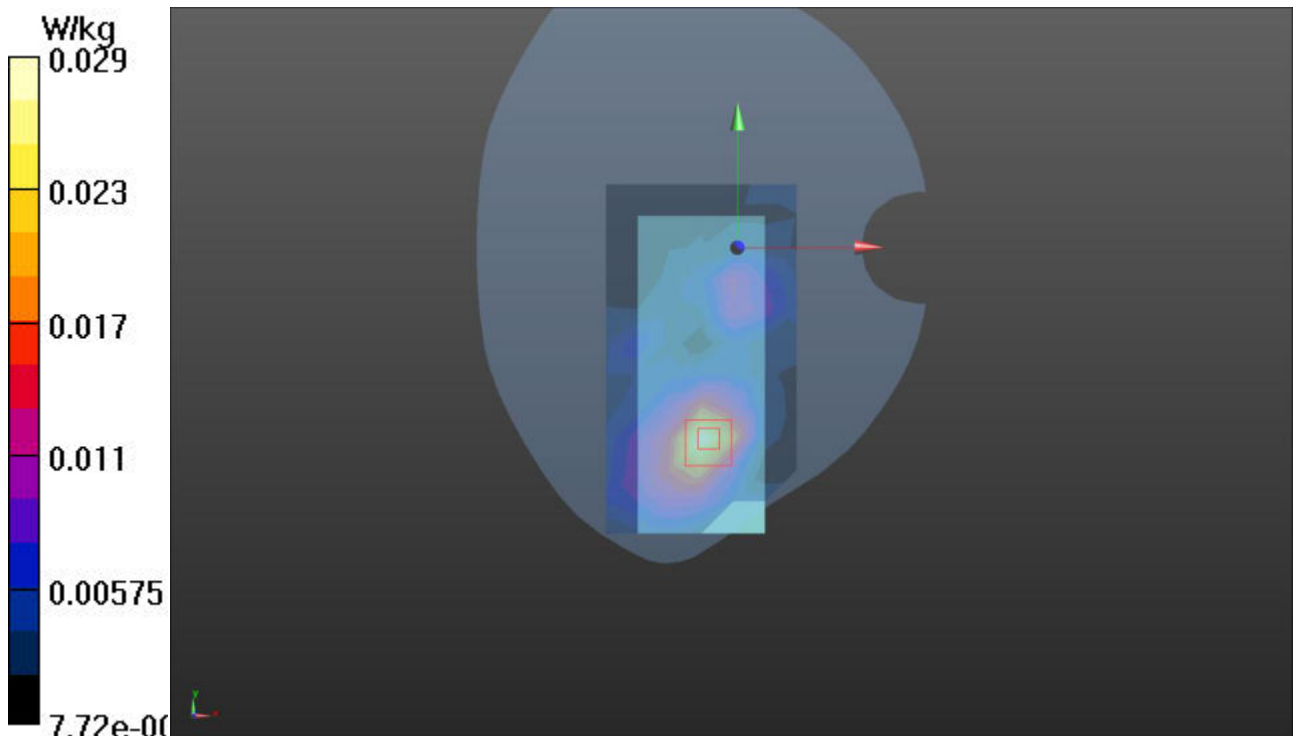
Peak SAR (extrapolated) = 0.0480 W/kg

SAR(1 g) = 0.027 W/kg; SAR(10 g) = 0.015 W/kg

Smallest distance from peaks to all points 3 dB below = 12.4 mm

Ratio of SAR at M2 to SAR at M1 = 55.2%

Maximum value of SAR (measured) = 0.029 W/kg



Plot 29 GSM 850 GPRS(4TX) Right Edge Middle (Distance 0mm)

Date:2025/8/14

Communication System: UID 0, GPRS 4TX (0); Frequency: 836.6 MHz;Duty Cycle: 1:2.07

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.948$ S/m; $\epsilon_r = 42.274$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

GSM 850 GPRS(4TX) Right Edge 0mm/Mid/Area Scan (7x16x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.28 W/kg

GSM 850 GPRS(4TX) Right Edge 0mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.48 V/m; Power Drift = 0.027 dB

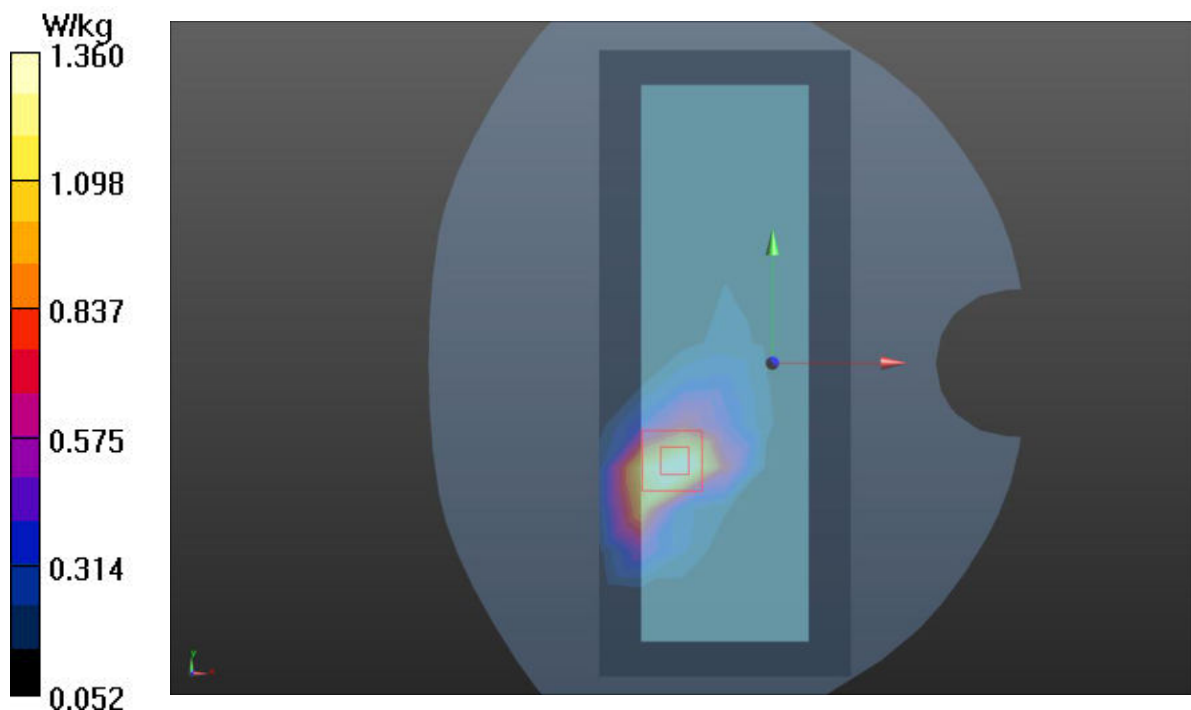
Peak SAR (extrapolated) = 2.24 W/kg

SAR(1 g) = 1.23 W/kg; SAR(10 g) = 0.579 W/kg

Smallest distance from peaks to all points 3 dB below = 12.6 mm

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

Maximum value of SAR (measured) = 1.36 W/kg



Plot 30 GSM 1900 GPRS(4TX) Right Edge Middle (Distance 0mm)

Date: 2025/8/19

Communication System: UID 0, GPRS 4TX (0); Frequency: 1880 MHz; Duty Cycle: 1:2.07

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 38.43$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

GSM 1900 GPRS(4TX) Right Edge 0mm/Mid/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.80 W/kg

GSM 1900 GPRS(4TX) Right Edge 0mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.110 V/m; Power Drift = 0.021 dB

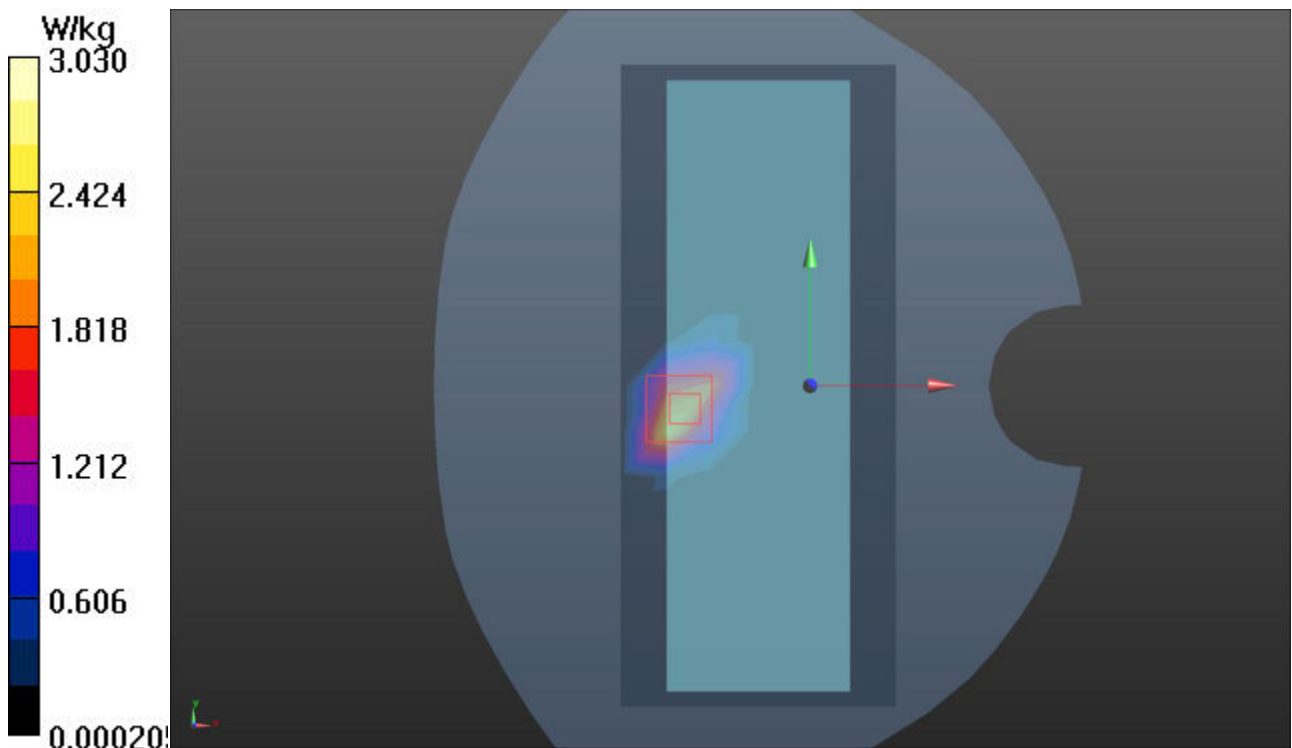
Peak SAR (extrapolated) = 5.84 W/kg

SAR(1 g) = 2.74 W/kg; SAR(10 g) = 1.27 W/kg

Smallest distance from peaks to all points 3 dB below = 11.1 mm

Ratio of SAR at M2 to SAR at M1 = 50.9%

Maximum value of SAR (measured) = 3.03 W/kg



Plot 31 WCDMA Band II Right Edge Middle (Distance 0mm)

Date: 2025/8/19

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 38.43$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

WCDMA B2 Right Edge 10mm/Mid/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.19 W/kg

WCDMA B2 Right Edge 10mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.970 V/m; Power Drift = 0.029 dB

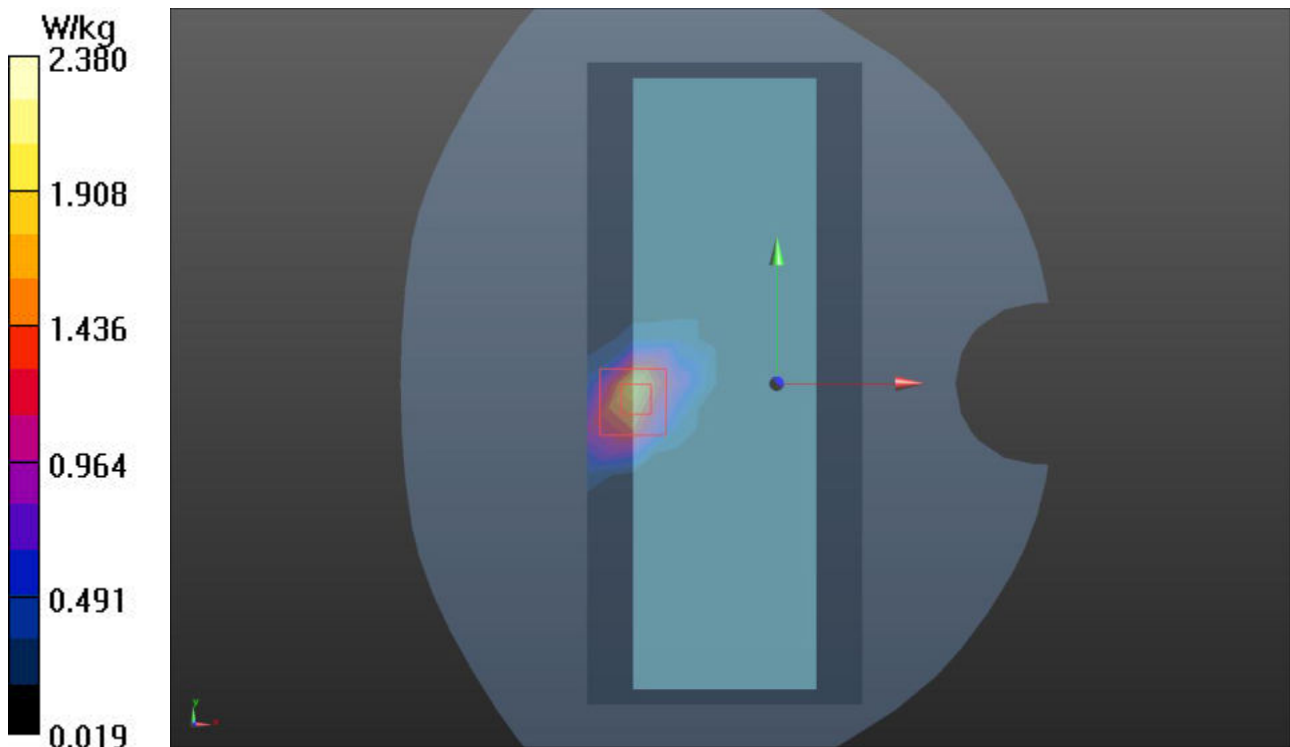
Peak SAR (extrapolated) = 4.42 W/kg

SAR(1 g) = 2.09 W/kg; SAR(10 g) = 0.963 W/kg

Smallest distance from peaks to all points 3 dB below = 9.1 mm

Ratio of SAR at M2 to SAR at M1 = 50.8%

Maximum value of SAR (measured) = 2.38 W/kg



Plot 32 WCDMA Band IV Right Edge Middle (Distance 0mm)

Date: 2025/8/18

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

Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.27$ S/m; $\epsilon_r = 38.942$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

WCDMA B4 Right Edge 0mm/Mid/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.55 W/kg

WCDMA B4 Right Edge 0mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.58 V/m; Power Drift = 0.019 dB

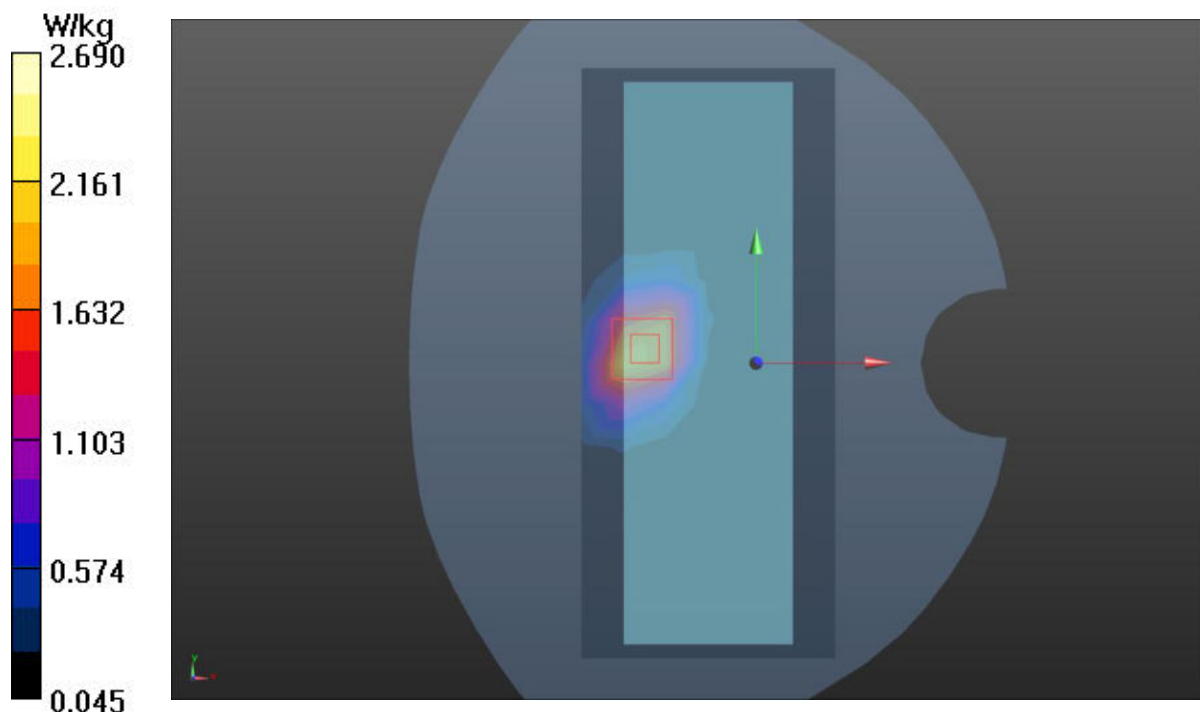
Peak SAR (extrapolated) = 3.89 W/kg

SAR(1 g) = 2.53 W/kg; SAR(10 g) = 1.19 W/kg

Smallest distance from peaks to all points 3 dB below = 15.3 mm

Ratio of SAR at M2 to SAR at M1 = 54.5%

Maximum value of SAR (measured) = 2.69 W/kg



Plot 33 WCDMA Band V Right Edge Middle (Distance 0mm)

Date: 2025/8/14

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.948$ S/m; $\epsilon_r = 42.274$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

WCDMA B5 Right Edge 0mm/Mid/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.17 W/kg

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

Reference Value = 23.96 V/m; Power Drift = 0.085 dB

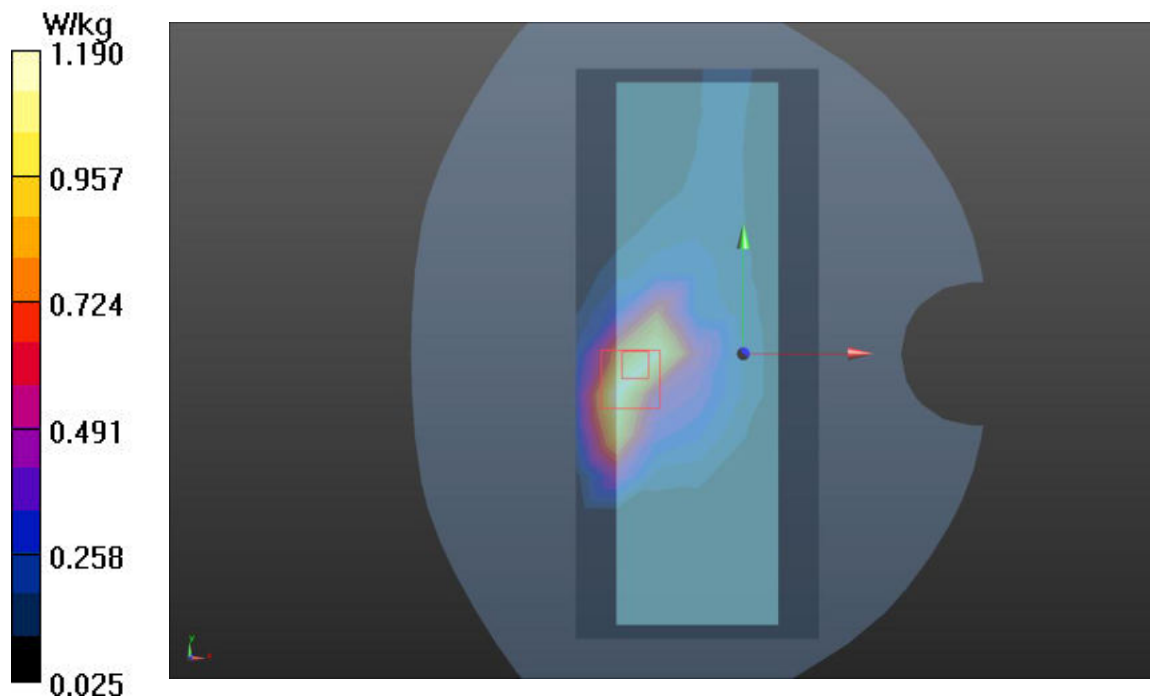
Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.568 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 52.4%

Maximum value of SAR (measured) = 1.19 W/kg



Plot 34 LTE Band 7 1RB Right Edge High (Distance 0mm)

Date: 2025/8/20

Communication System: UID 0, LTE (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.965$ S/m; $\epsilon_r = 38.067$; $\rho = 1000$ 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(7.38, 7.38, 7.38); Calibrated: 2025/5/28

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

LTE B7 1RB Right Edge 0mm/High/Area Scan (9x20x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 3.84 W/kg

LTE B7 1RB Right Edge 0mm/High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.08 V/m; Power Drift = 0.039 dB

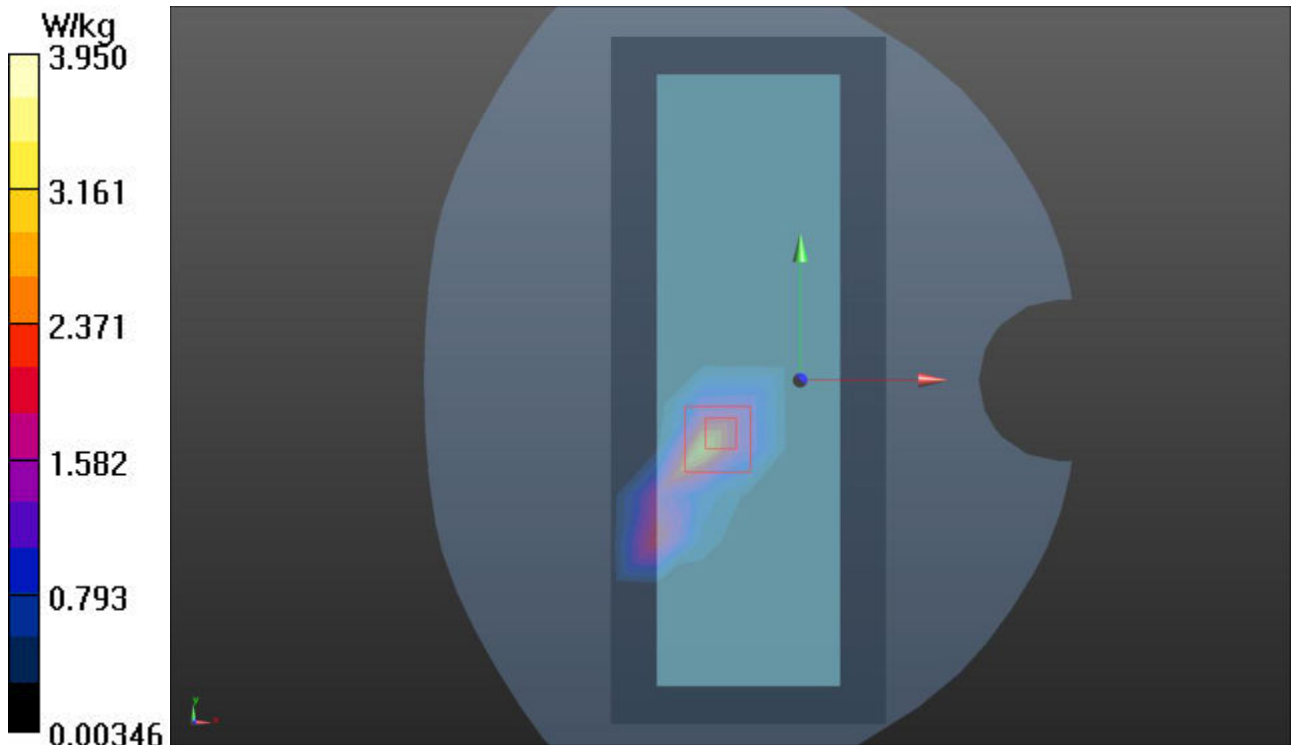
Peak SAR (extrapolated) = 9.54 W/kg

SAR(1 g) = 3.57 W/kg; SAR(10 g) = 1.37 W/kg

Smallest distance from peaks to all points 3 dB below = 11.8 mm

Ratio of SAR at M2 to SAR at M1 = 43.4%

Maximum value of SAR (measured) = 3.95 W/kg



Plot 35 LTE Band 12 1RB Right Edge High (Distance 0mm)

Date: 2025/8/16

Communication System: UID 0, LTE (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 711$ MHz; $\sigma = 0.884$ S/m; $\epsilon_r = 43.194$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

LTE B12 1RB Right Edge 0mm/High/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.944 W/kg

LTE B12 1RB Right Edge 0mm/High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.47 V/m; Power Drift = 0.046 dB

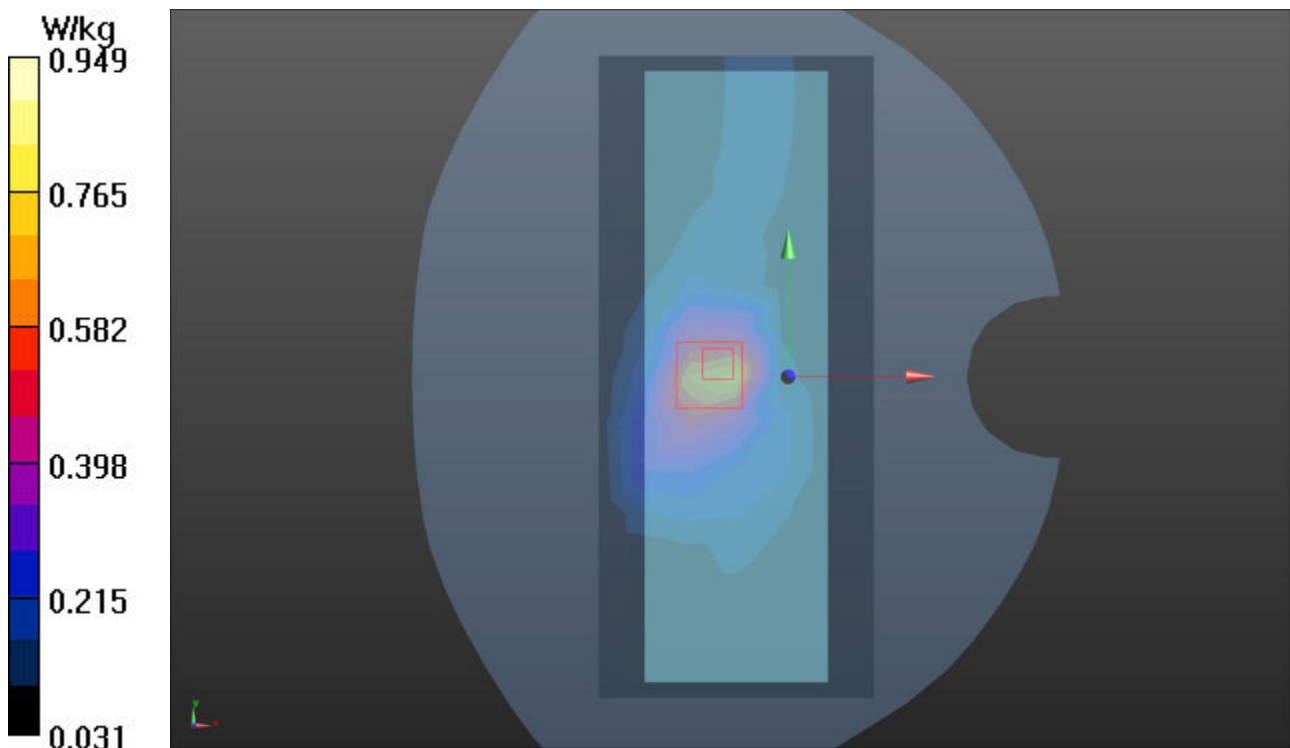
Peak SAR (extrapolated) = 2.38 W/kg

SAR(1 g) = 0.900 W/kg; SAR(10 g) = 0.445 W/kg

Smallest distance from peaks to all points 3 dB below = 12.6 mm

Ratio of SAR at M2 to SAR at M1 = 49.6%

Maximum value of SAR (measured) = 0.949 W/kg



Plot 36 LTE Band 13 1RB Right Edge Middle (Distance 0mm)

Date: 2025/8/16

Communication System: UID 0, LTE (0); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.929 \text{ S/m}$; $\epsilon_r = 42.422$; $\rho = 1000 \text{ kg/m}^3$

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(9.80, 9.80, 9.80); Calibrated: 2025/5/28

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

LTE B13 1RB Right Edge 0mm/Mid/Area Scan (7x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.1 W/kg

LTE B13 1RB Right Edge 0mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.99 V/m ; Power Drift = 0.10 dB

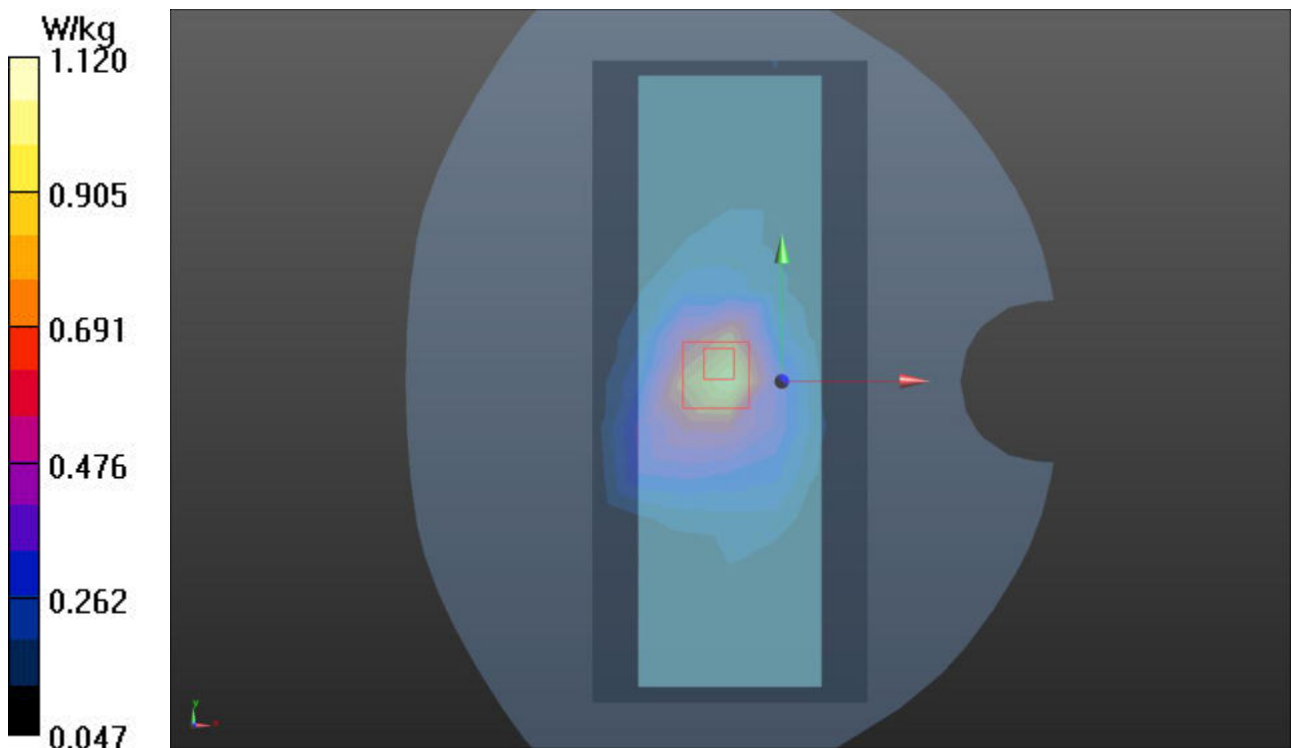
Peak SAR (extrapolated) = 2.42 W/kg

SAR(1 g) = 1.05 W/kg ; SAR(10 g) = 0.558 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 47%

Maximum value of SAR (measured) = 1.12 W/kg



Plot 37 LTE Band 25 1RB Right Edge Low (Distance 0mm)

Date: 2025/8/19

Communication System: UID 0, LTE (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.363$ S/m; $\epsilon_r = 38.557$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

LTE B25 1RB Right Edge 0mm/Low/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.93 W/kg

LTE B25 1RB Right Edge 0mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.78 V/m; Power Drift = 0.181 dB

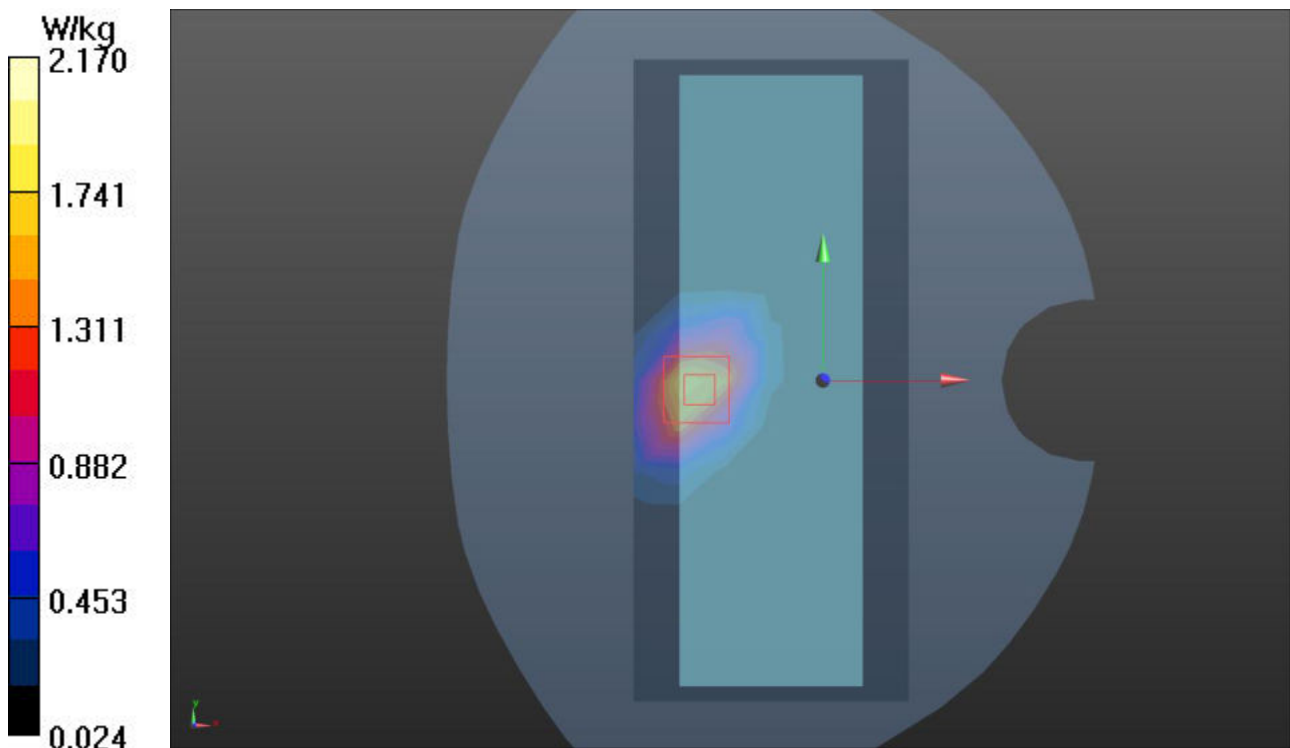
Peak SAR (extrapolated) = 3.55 W/kg

SAR(1 g) = 1.85 W/kg; SAR(10 g) = 0.892 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 54.6%

Maximum value of SAR (measured) = 2.17 W/kg



Plot 38 LTE Band 26 1RB Right Edge Middle (Distance 0mm)

Date: 2025/8/14

Communication System: UID 0, LTE (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.946$ S/m; $\epsilon_r = 42.316$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

LTE B26 1RB Right Edge 0mm/Mid/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.985 W/kg

LTE B26 1RB Right Edge 0mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.49 V/m; Power Drift = 0.024 dB

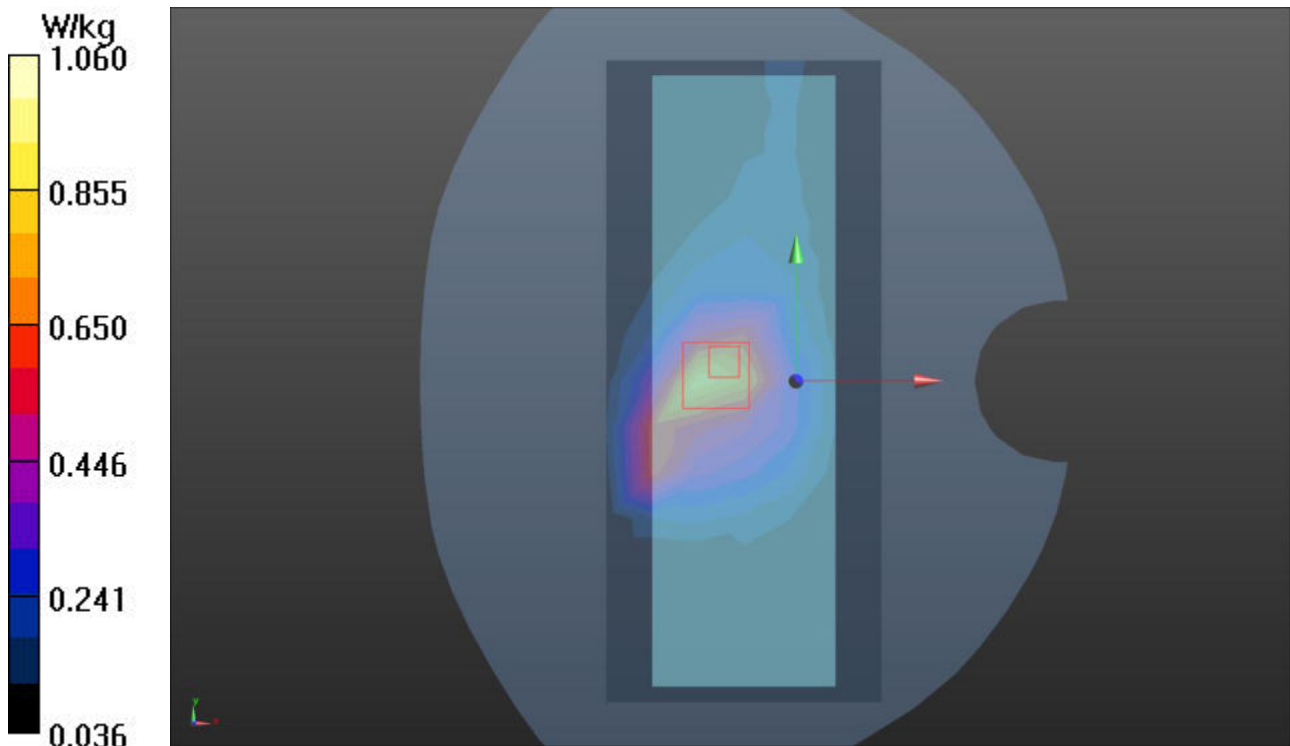
Peak SAR (extrapolated) = 2.61 W/kg

SAR(1 g) = 0.966 W/kg; SAR(10 g) = 0.492 W/kg

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 42.8%

Maximum value of SAR (measured) = 1.06 W/kg



Plot 39 LTE Band 41 50%RB Right Edge Middle (Distance 0mm)

Date: 2025/8/20

Communication System: UID 0, LTE (0); Frequency: 2593 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 2.055$ S/m; $\epsilon_r = 37.772$; $\rho = 1000$ 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(7.38, 7.38, 7.38); Calibrated: 2025/5/28

Electronics: DAE4 Sn1317; Calibrated: 2024/9/10

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

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

LTE B41 50%RB Right Edge 0mm/Mid/Area Scan (9x20x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 3.29 W/kg

LTE B41 50%RB Right Edge 0mm/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.70 V/m; Power Drift = 0.080 dB

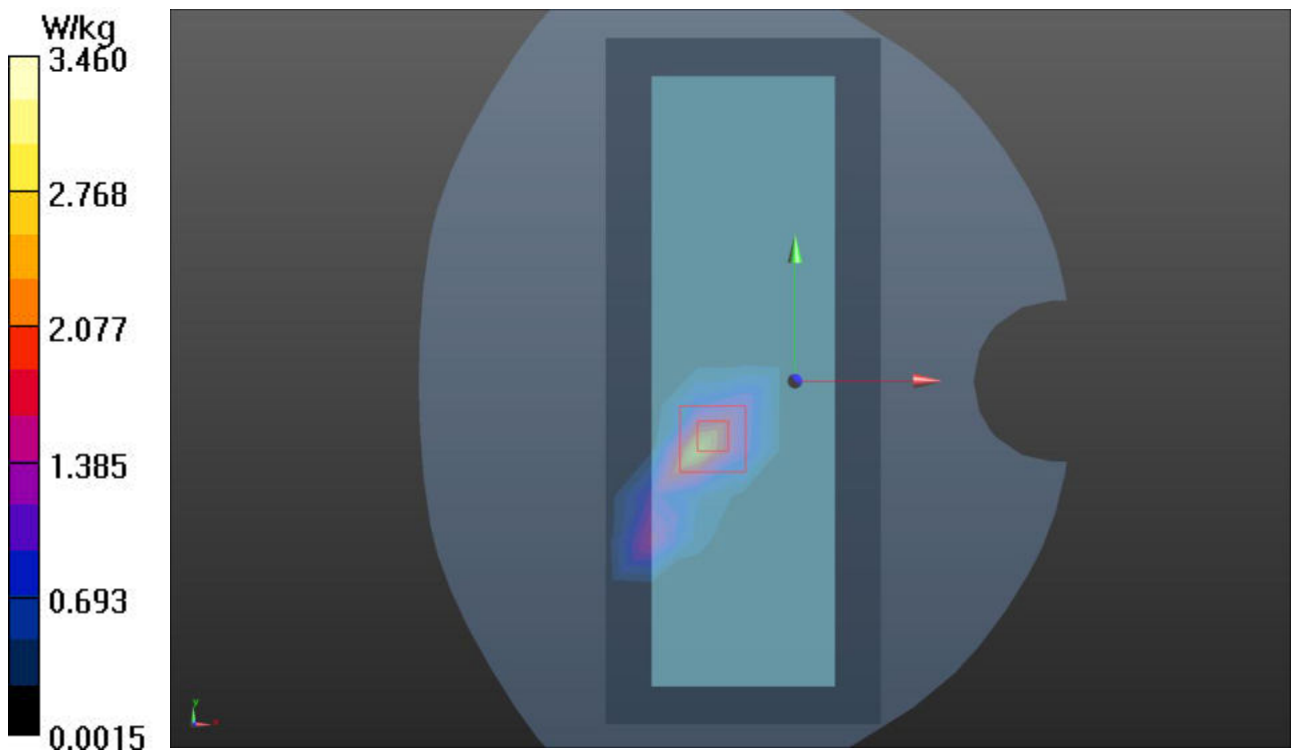
Peak SAR (extrapolated) = 8.37 W/kg

SAR(1 g) = 3.13 W/kg; SAR(10 g) = 1.2 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 44.4%

Maximum value of SAR (measured) = 3.46 W/kg



Plot 40 LTE Band 66 50%RB Right Edge Middle (Distance 0mm)

Date: 2025/8/18

Communication System: UID 0, LTE (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.277$ S/m; $\epsilon_r = 38.919$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

LTE B66 50%RB Right Edge 0mm/Mid/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.58 W/kg

LTE B66 50%RB Right Edge 0mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.746 V/m; Power Drift = 0.195 dB

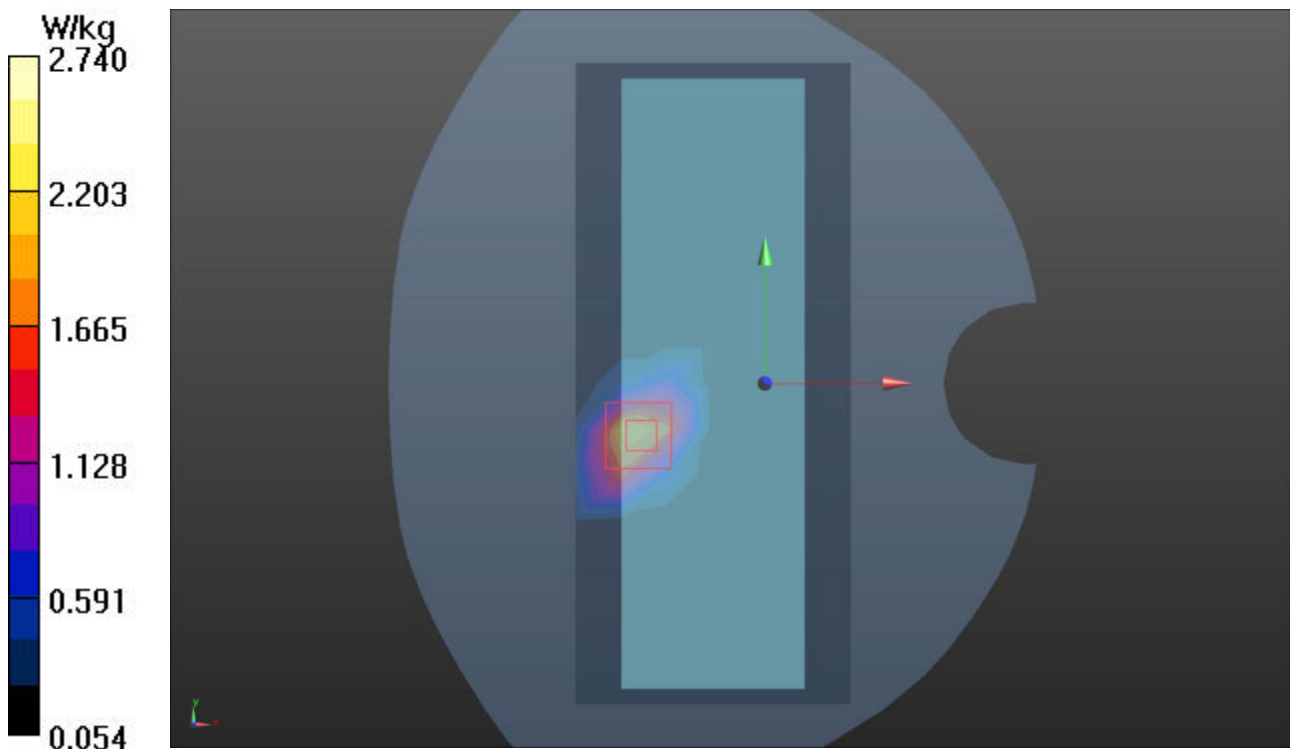
Peak SAR (extrapolated) = 5.7 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.18 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 51.9%

Maximum value of SAR (measured) = 2.74 W/kg



Plot 41 LTE Band 71 50%RB Right Edge High (Distance 0mm)

Date: 2025/8/16

Communication System: UID 0, LTE (0); Frequency: 688 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 688$ MHz; $\sigma = 0.867$ S/m; $\epsilon_r = 43.205$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

LTE B71 50%RB Right Edge 0mm/High/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.922 W/kg

LTE B71 50%RB Right Edge 0mm/High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.65 V/m; Power Drift = 0.041 dB

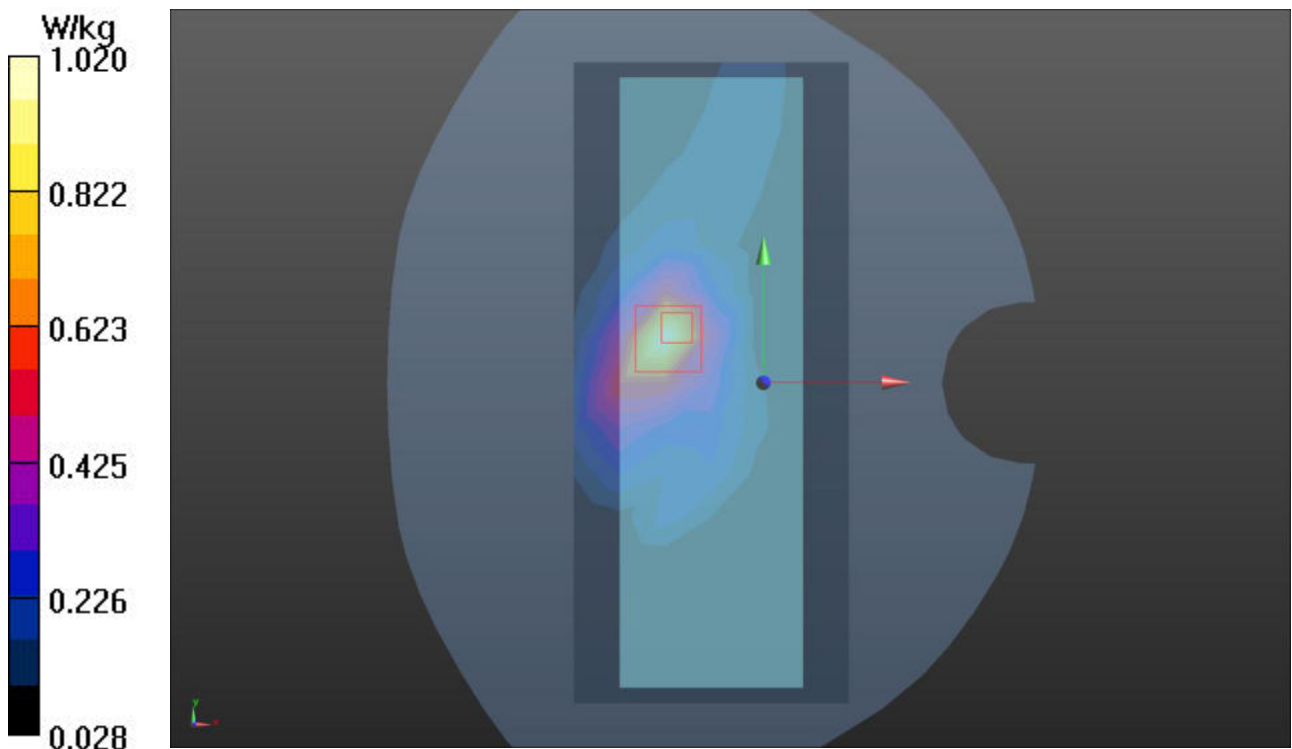
Peak SAR (extrapolated) = 2.19 W/kg

SAR(1 g) = 0.908 W/kg; SAR(10 g) = 0.426 W/kg

Smallest distance from peaks to all points 3 dB below = 11.8 mm

Ratio of SAR at M2 to SAR at M1 = 47.5%

Maximum value of SAR (measured) = 1.02 W/kg



Plot 42 802.11b Front Side Low (Distance 0mm)

Date: 2025/8/21

Communication System: UID 0, 802.11b (0); Frequency: 2412 MHz; Duty Cycle: 1:1.020

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.796$ S/m; $\epsilon_r = 38.612$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

802.11b Front Side 0mm/Low/Area Scan (10x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.540 W/kg

802.11b Front Side 0mm/Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.610 V/m; Power Drift = 0.155 dB

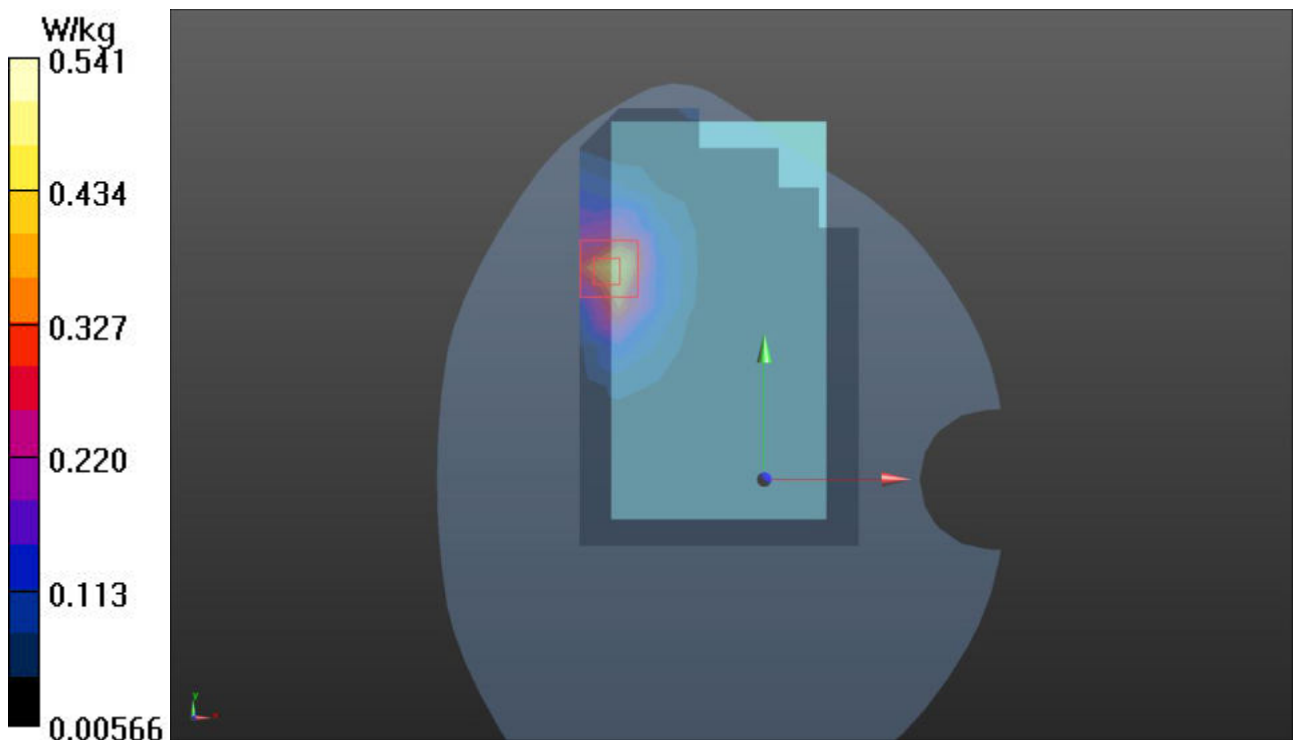
Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.499 W/kg; SAR(10 g) = 0.225 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 44.1%

Maximum value of SAR (measured) = 0.541 W/kg



Plot 43 802.11ac VHT80 Left Edge Middle (Distance 0mm)

Date: 2025/8/25

Communication System: UID 0, 802.11 ac (0); Frequency: 5775 MHz; Duty Cycle: 1:1.754

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 5.37$ S/m; $\epsilon_r = 34.152$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

802.11ac VHT80 Left Edge 0mm/Mid/Area Scan (11x24x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 3.86 W/kg

802.11ac VHT80 Left Edge 0mm/Mid/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.055 V/m; Power Drift = -0.01 dB

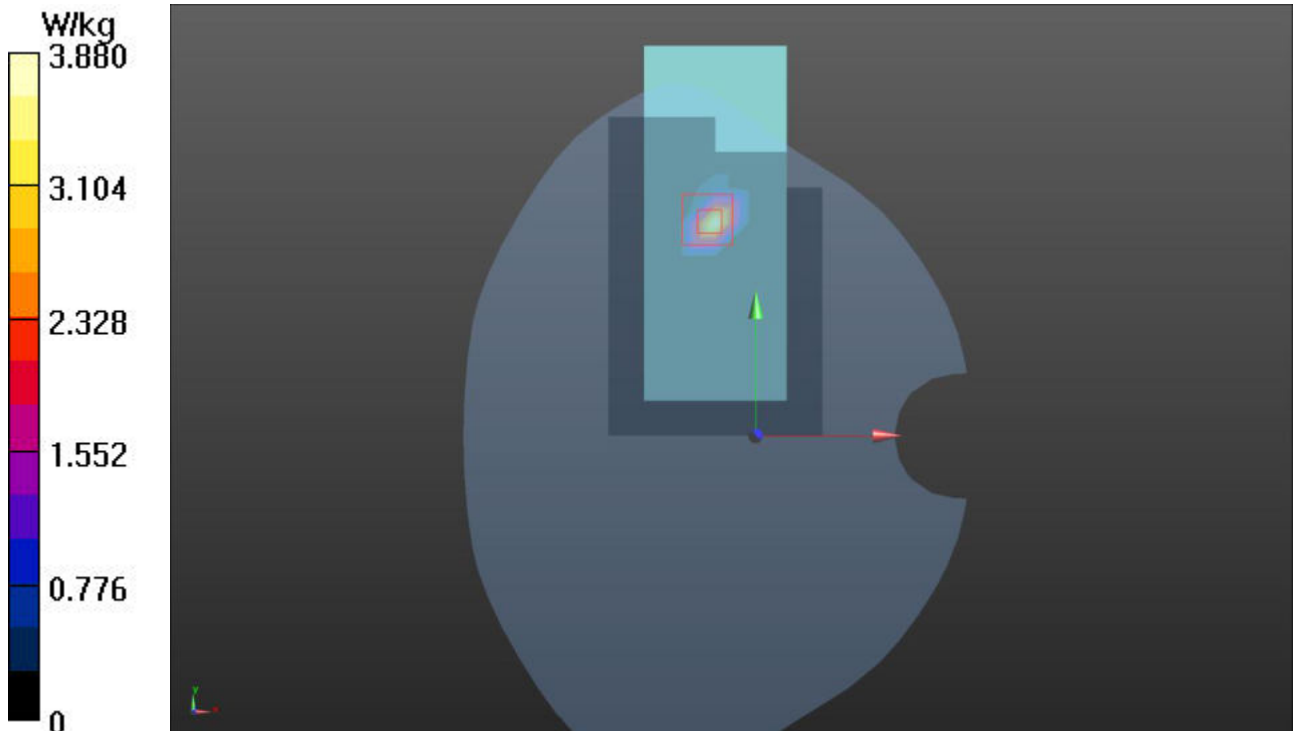
Peak SAR (extrapolated) = 6.60 W/kg

SAR(1 g) = 2.23 W/kg; SAR(10 g) = 0.541 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 60.4%

Maximum value of SAR (measured) = 3.88 W/kg



Plot 44 Bluetooth Back Side Middle (Distance 0mm)

Date: 2025/8/21

Communication System: UID 0, BT (0); Frequency: 2441 MHz; Duty Cycle: 1:1.300

Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.828$ S/m; $\epsilon_r = 38.503$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

BT DH5 Back Side 0mm/Mid/Area Scan (10x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.199 W/kg

BT DH5 Back Side 0mm/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.4490 V/m; Power Drift = 0.094 dB

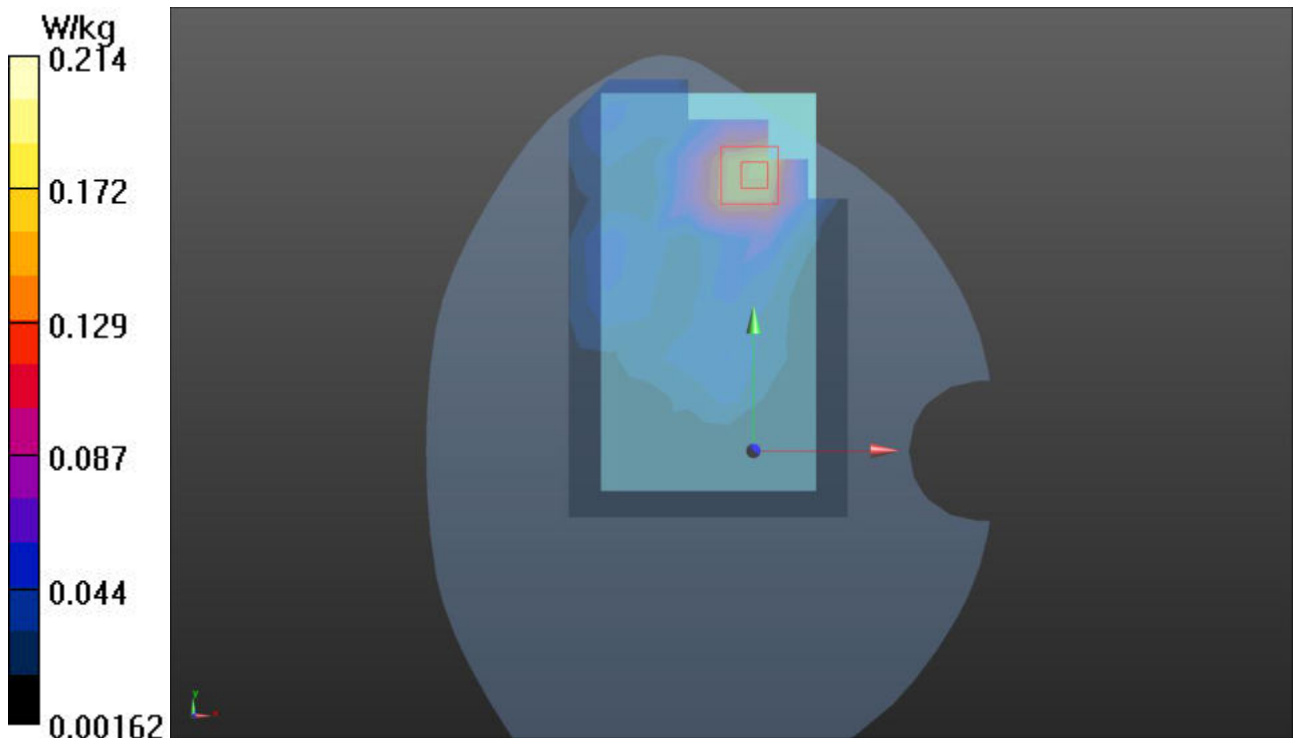
Peak SAR (extrapolated) = 0.381 W/kg

SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.103 W/kg

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 51.1%

Maximum value of SAR (measured) = 0.214 W/kg



Plot 45 GSM 1900 GPRS(4TX) Right Edge Middle (Distance 24mm)

Date: 2025/8/19

Communication System: UID 0, GPRS 4TX (0); Frequency: 1880 MHz; Duty Cycle: 1:2.07

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 38.43$; $\rho = 1000$ 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 Sn1317; Calibrated: 2024/9/10

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

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

GSM 1900 GPRS(4TX) Right Edge 24mm/Mid/Area Scan (7x16x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.821 W/kg

GSM 1900 GPRS(4TX) Right Edge 24mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.28 V/m; Power Drift = 0.097 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.798 W/kg; SAR(10 g) = 0.453 W/kg

Smallest distance from peaks to all points 3 dB below = 14.8 mm

Ratio of SAR at M2 to SAR at M1 = 61%

Maximum value of SAR (measured) = 0.894 W/kg

