

SAR TEST REPORT

Applicant NCXX Inc.
FCC ID SLKUNIX-35GL
Product 5G RedCap USB Dongle
Brand NCXX
Model UNIX-35GL
Report No. EFTA25070330-IE-09-S1V1
Issue Date December 19, 2025

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



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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	October 11, 2025
Rev.1	Updated data. Updated information.	December 16, 2025
Note: This revised report (Report No.: EFTA25070330-IE-09-S1V1) supersedes and replaces the previously issued report (Report No.: EFTA25070330-IE-09-S1). Please discard or destroy the previously issued report and dispose of it accordingly.		

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1 Test Laboratory

1.1 Notes of the Test Report

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

1.2 Test Facility

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

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

A2LA (Certificate Number: 3857.01)

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

1.3 Testing Location

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 SAR Body (Separation 5mm) and Trigger distance minus 1mm
LTE FDD 2	1.44
LTE FDD 7	1.52
LTE FDD 12	0.94
LTE FDD 13	0.88
LTE FDD 14	0.79
LTE FDD 26 (LTE FDD 5)	0.88
LTE TDD 30	1.37
LTE TDD 41	1.47
LTE FDD 42	0.72
LTE FDD 66 (LTE FDD 4)	1.50
NR n2	1.49
NR n26 (NR n5)	0.83
NR n41	1.56
NR n77 (NR n78)	1.58
Date of Testing: August 18, 2025 ~September 3, 2025	
Date of Sample Received: July 25, 2025	
Note:	
1. The device is in compliance with SAR for Uncontrolled Environment /General Population exposure limits (1.6 W/kg) specified in ANSI C95.1: 1992/IEEE C95.1: 1991, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.	
2. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.	

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

Main Antenna SAR for LTE Band 5 (Frequency range: 824-849 MHz) is covered by LTE Band 26

(Frequency range 814-849 MHz); LTE Band 4 (Frequency range 1710-1755 MHz) is covered by LTE Band 66 (Frequency range: 1710-1780 MHz); NR n78 (Frequency range 3300-3800 MHz) is covered by NR n77 (Frequency range: 3300-4200 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

3 Description of Equipment Under Test

Client Information

Applicant	NCXX Inc.
Applicant address	2-32-1, Kunuginome, Hanamaki, Iwate-Pref, Japan
Manufacturer	NCXX Inc.
Manufacturer address	2-32-1, Kunuginome, Hanamaki, Iwate-Pref, Japan

General Technologies

EUT Stage	Identical Prototype
Model	UNX-35GL
IMEI	353619400000535
Hardware Version	UNX-35GL_MB_V1.00
Software Version	v1.0.0.6
Antenna Type	Internal Antenna
Power Class	LTE FDD 2/4/5/7/12/13/14/26/30/66: 3 LTE TDD 41/42: 3 NR n2/n5/n26: 3 NR n41/n77/n78: 3
Power Level	LTE FDD 2/4/5/7/12/13/14/26/30/66: max power LTE TDD 41/42: max power NR n2/n5/n26: max power NR n41/n77/n78: max power
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)		
LTE	FDD 2	QPSK, 16QAM	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 14			788 ~ 798	758 ~ 768		
	FDD 26			814 ~ 849	859 ~ 894		
	FDD 30			2305 ~ 2315	2350 ~ 2360		
	TDD 41			2496 ~ 2690	2496 ~ 2690		
	TDD 42			3400 ~ 3600	3400 ~ 3600		
	FDD 66			1710 ~ 1780	2110 ~ 2180		
	Does this device support Carrier Aggregation (CA). ☐ Yes ☒ No						
	Does this device support SV-LTE (1xRTT-LTE)? ☐ Yes ☒ No						
NR	n2	CP-OFDM: QPSK, 16QAM DFT-s OFDM: PI/2 BPSK, QPSK, 16QAM	/	1850 ~ 1910	1930 ~ 1990		
	n5			824 ~ 849	869 ~ 894		
	n26			814 ~ 849	859 ~ 894		
	N41			2496 ~ 2690	2496 ~ 2690		
	n77			3300 ~ 4200	3300 ~ 4200		
	n78			3300 ~ 3800	3300 ~ 3800		

Note:

- Radio equipment in band 42 is only allowed to operate from 3450 MHz to 3550 MHz.
- Radio equipment in band n77 is only allowed to operate from 3450 MHz to 3550 MHz for Subset 1; 3700 MHz to 3980 MHz for Subset 2 for the transmitter and receiver.
- Radio equipment in band n78 is only allowed to operate from 3450 MHz to 3550 MHz for Subset 1; 3700 MHz to 3800 MHz for Subset 2 for the transmitter and receiver.

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 447498 D02 SAR Procedures for Dongle Xmtr v02r01

KDB 690783 D01 SAR Listings on Grants v01r03

KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04

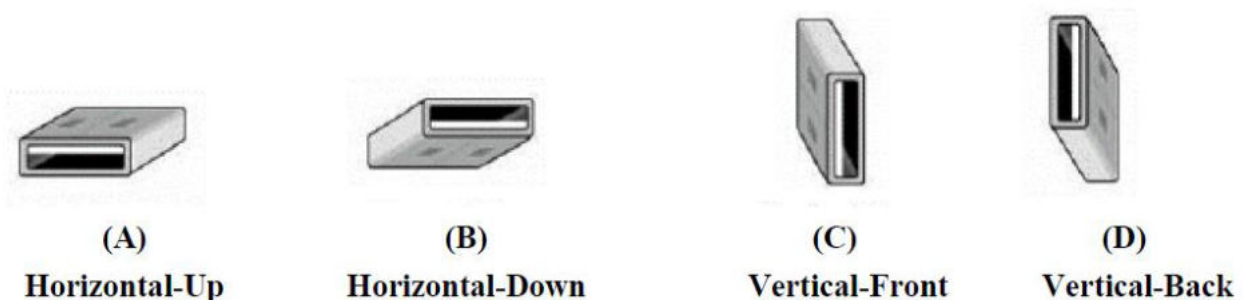
KDB 865664 D02 RF Exposure Reporting v01r02

KDB 941225 D05 SAR for LTE Devices v02r05

5 Operational Conditions during Test

5.1 Test Position

Test all USB orientations [see figure below: (A) Horizontal-Up, (B) Horizontal-Down, (C) Vertical-Front, and (D) Vertical-Back] with a device-to-phantom separation distance of 5 mm or less, according to KDB Publication 447498 D01 requirements. These test orientations are intended for the exposure conditions found in typical laptop/notebook/netbook or tablet computers with either horizontal or vertical USB connector configurations at various locations in the keyboard section of the computer. Current generation portable host computers should be used to establish the required SAR measurement separation distance. The same test separation distance must be used to test all frequency bands and modes in each USB orientation. The typical Horizontal-Up USB connection (A), found in the majority of host computers, must be tested using an appropriate host computer. A host computer with either Vertical-Front (C) or Vertical-Back (D) USB connection should be used to test one of the vertical USB orientations. If a suitable host computer is not available for testing the Horizontal-Down (B) or the remaining Vertical USB orientation, a high quality USB cable, 12 inches or less, may be used for testing these other orientations. It must be documented that the USB cable does not influence the radiating characteristics and output power of the transmitter.



5.2 Picture of Host Product

During the test, DESKTOP-FT9AOQ0 laptop were used as an assistant to help to setup communication.



DESKTOP-FT9AOQ0 Close



DESKTOP-FT9AOQ0 Open



DESKTOP-FT9AOQ0 with horizontal USB slot



DESKTOP-FT9AOQ0 with Vertical USB slot



USB cable

5.3 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

5.4.1 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.

5.4.2 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.

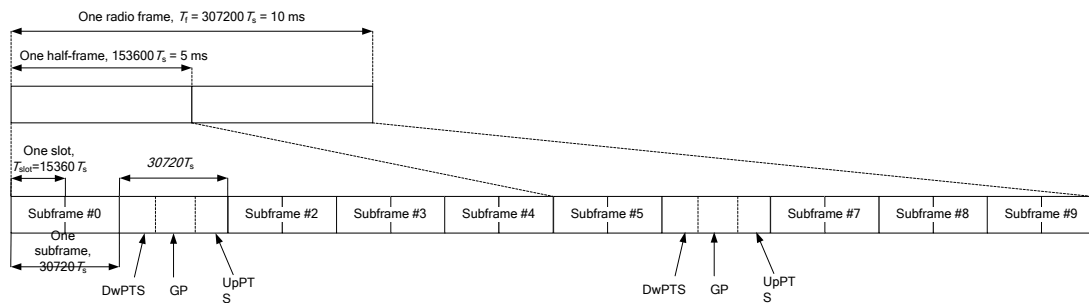


Figure 1: Frame structure type 2

Table 2: Configuration of Special Subframe (Lengths of DwPTS/GP/UpPTS)

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

The screenshot displays the 'LTE Signaling - Configuration' window. The 'Physical Cell Setup' section is highlighted with a red box. Within this section, the 'TDD' sub-section is also highlighted with a red box. The 'TDD' section includes the following settings:

- Use Carrier Specific:** ☐ (unchecked)
- Uplink Downlink Configurat...:** 0 (highlighted with a red circle)
- Subframe Number:** 0 1 2 3 4 5 6 7 8 9
- Direction:** Down (0), S (1), Up (2), Up (3), Up (4), Down (5), S (6), Up (7), Up (8), Up (9)
- Special Subframe:** 7 (highlighted with a red circle)

Other settings visible in the 'Physical Cell Setup' section include:

- Duplex Mode:** TDD
- Use Carrier Specific:** ☐ (unchecked)
- Frame Structure Type 2:** (dropdown menu)
- Search...** (button)
- DL Cell Bandwidth:** 20.0 MHz
- UL Cell Bandwidth:** 20.0 MHz
- Physical Cell ID:** 0
- Cyclic Prefix:** Normal
- Sounding RS (SRS):** ☐ (unchecked)

On the right side of the window, the 'LTE Signaling' status is shown as 'ON' (highlighted with a red box). Other visible buttons include 'LTE 1 TX Meas.', 'LTE 1 RX Meas.', 'Go to...', 'Routing', and 'Config ...'.

5.4.3 5G NR Test Configuration

For 5G NR SAR testing, due to test setup limitations, SAR testing for NR was performed using factory test mode software to establish the connection and perform SAR with 100% transmission.

The DFT-s-OFDM and CP-OFDM waveforms were investigated, and DFT-s-OFDM was found to be the worst case.

The worst-case scenario for all measurements is based on an engineering evaluation and QPSK was observed as the worst one and set for all conducted and radiated. Output power measurements were measured on QPSK, 16QAM, and BPSK, modulations.

5.4.4 Proximity Sensor Power Reduction Description

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

Moving toward phantom:

Main Antenna				
Band	Test Position	Sensor Trigger Distance Range (DUT to Phantom)	Power Reduction Amount(dB)	Power Level
LTE B2	Back Side	$0\text{mm} \leq \text{Distance} \leq 17\text{mm}$	3	Sensor on
		$17\text{mm} < \text{Distance}$	0	Sensor off
	Front Side	$0\text{mm} \leq \text{Distance} \leq 14\text{mm}$	3	Sensor on
		$14\text{mm} < \text{Distance}$	0	Sensor off
	Left Edge	$0\text{mm} \leq \text{Distance} \leq 11\text{mm}$	3	Sensor on
		$11\text{mm} < \text{Distance}$	0	Sensor off
	Right Edge	$0\text{mm} \leq \text{Distance} \leq 11\text{mm}$	3	Sensor on
		$11\text{mm} < \text{Distance}$	0	Sensor off
	Top Edge	$0\text{mm} \leq \text{Distance} \leq 25\text{mm}$	3	Sensor on
		$25\text{mm} < \text{Distance}$	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B4	Back Side	$0\text{mm} \leq \text{Distance} \leq 17\text{mm}$	3.5	Sensor on
		$17\text{mm} < \text{Distance}$	0	Sensor off
	Front Side	$0\text{mm} \leq \text{Distance} \leq 14\text{mm}$	3.5	Sensor on

			14mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤11mm	3.5	Sensor on
			11mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤11mm	3.5	Sensor on
			11mm<Distance	0	Sensor off
		Top Edge	0mm≤Distance≤25mm	3.5	Sensor on
			25mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	LTE B7	Back Side	0mm≤Distance≤17mm	3.5	Sensor on
			17mm<Distance	0	Sensor off
		Front Side	0mm≤Distance≤14mm	3.5	Sensor on
			14mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤11mm	3.5	Sensor on
			11mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤11mm	3.5	Sensor on
			11mm<Distance	0	Sensor off
		Top Edge	0mm≤Distance≤25mm	3.5	Sensor on
			25mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	LTE B13	Back Side	0mm≤Distance≤17mm	2	Sensor on
			17mm<Distance	0	Sensor off
		Front Side	0mm≤Distance≤14mm	2	Sensor on
			14mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤11mm	2	Sensor on
			11mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤11mm	2	Sensor on
			11mm<Distance	0	Sensor off
		Top Edge	0mm≤Distance≤25mm	2	Sensor on
			25mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	LTE B14	Back Side	0mm≤Distance≤17mm	2	Sensor on
			17mm<Distance	0	Sensor off
		Front Side	0mm≤Distance≤14mm	2	Sensor on
			14mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤11mm	2	Sensor on

			11mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤11mm	2	Sensor on
			11mm<Distance	0	Sensor off
		Top Edge	0mm≤Distance≤25mm	2	Sensor on
			25mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	LTE B30	Back Side	0mm≤Distance≤17mm	3	Sensor on
			17mm<Distance	0	Sensor off
		Front Side	0mm≤Distance≤14mm	3	Sensor on
			14mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤11mm	3	Sensor on
			11mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤11mm	3	Sensor on
			11mm<Distance	0	Sensor off
		Top Edge	0mm≤Distance≤25mm	3	Sensor on
			25mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	LTE B41	Back Side	0mm≤Distance≤17mm	3.5	Sensor on
			17mm<Distance	0	Sensor off
		Front Side	0mm≤Distance≤14mm	3.5	Sensor on
			14mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤11mm	3.5	Sensor on
			11mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤11mm	3.5	Sensor on
			11mm<Distance	0	Sensor off
		Top Edge	0mm≤Distance≤25mm	3.5	Sensor on
			25mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	LTE B42	Back Side	0mm≤Distance≤17mm	2.5	Sensor on
			17mm<Distance	0	Sensor off
		Front Side	0mm≤Distance≤14mm	2.5	Sensor on
			14mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤11mm	2.5	Sensor on
			11mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤11mm	2.5	Sensor on

			11mm<Distance	0	Sensor off
		Top Edge	0mm≤Distances≤25mm	2.5	Sensor on
			25mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	LTE B66	Back Side	0mm≤Distances≤17mm	3.5	Sensor on
			17mm<Distance	0	Sensor off
		Front Side	0mm≤Distances≤14mm	3.5	Sensor on
			14mm<Distance	0	Sensor off
		Left Edge	0mm≤Distances≤11mm	3.5	Sensor on
			11mm<Distance	0	Sensor off
		Right Edge	0mm≤Distances≤11mm	3.5	Sensor on
			11mm<Distance	0	Sensor off
		Top Edge	0mm≤Distances≤25mm	3.5	Sensor on
			25mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	NR n2	Back Side	0mm≤Distances≤17mm	4	Sensor on
			17mm<Distance	0	Sensor off
		Front Side	0mm≤Distances≤14mm	4	Sensor on
			14mm<Distance	0	Sensor off
		Left Edge	0mm≤Distances≤11mm	4	Sensor on
			11mm<Distance	0	Sensor off
		Right Edge	0mm≤Distances≤11mm	4	Sensor on
			11mm<Distance	0	Sensor off
		Top Edge	0mm≤Distances≤25mm	4	Sensor on
			25mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	NR n5	Back Side	0mm≤Distances≤17mm	2.5	Sensor on
			17mm<Distance	0	Sensor off
		Front Side	0mm≤Distances≤14mm	2.5	Sensor on
			14mm<Distance	0	Sensor off
		Left Edge	0mm≤Distances≤11mm	2.5	Sensor on
			11mm<Distance	0	Sensor off
		Right Edge	0mm≤Distances≤11mm	2.5	Sensor on
			11mm<Distance	0	Sensor off
		Top Edge	0mm≤Distances≤25mm	2.5	Sensor on

			25mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	NR n26	Back Side	0mm≤Distance≤17mm	2.5	Sensor on
			17mm<Distance	0	Sensor off
		Front Side	0mm≤Distance≤14mm	2.5	Sensor on
			14mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤11mm	2.5	Sensor on
			11mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤11mm	2.5	Sensor on
			11mm<Distance	0	Sensor off
		Top Edge	0mm≤Distance≤25mm	2.5	Sensor on
			25mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	NR n41	Back Side	0mm≤Distance≤17mm	4	Sensor on
			17mm<Distance	0	Sensor off
		Front Side	0mm≤Distance≤14mm	4	Sensor on
			14mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤11mm	4	Sensor on
			11mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤11mm	4	Sensor on
			11mm<Distance	0	Sensor off
		Top Edge	0mm≤Distance≤25mm	4	Sensor on
			25mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	NR n77	Back Side	0mm≤Distance≤17mm	4	Sensor on
			17mm<Distance	0	Sensor off
		Front Side	0mm≤Distance≤14mm	4	Sensor on
			14mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤11mm	4	Sensor on
			11mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤11mm	4	Sensor on
			11mm<Distance	0	Sensor off
		Top Edge	0mm≤Distance≤25mm	4	Sensor on
			25mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off

NR n78	Back Side	0mm≤Distance≤17mm	4	Sensor on
		17mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤14mm	4	Sensor on
		14mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤11mm	4	Sensor on
		11mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤11mm	4	Sensor on
		11mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤25mm	4	Sensor on
		25mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off

Moving away from phantom:

Main Antenna				
Band	Test Position	Sensor Trigger Distance Range (DUT to Phantom)	Power Reduction Amount(dB)	Power Level
LTE B2	Back Side	0mm≤Distance≤25mm	3	Sensor on
		25mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤21mm	3	Sensor on
		21mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤16mm	3	Sensor on
		16mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤17mm	3	Sensor on
		17mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤31mm	3	Sensor on
		31mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B4	Back Side	0mm≤Distance≤25mm	3.5	Sensor on
		25mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤21mm	3.5	Sensor on
		21mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤16mm	3.5	Sensor on
		16mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤17mm	3.5	Sensor on
		17mm<Distance	0	Sensor off

	Top Edge	0mm≤Distance≤31mm	3.5	Sensor on
		31mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B7	Back Side	0mm≤Distance≤25mm	3.5	Sensor on
		25mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤21mm	3.5	Sensor on
		21mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤16mm	3.5	Sensor on
		16mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤17mm	3.5	Sensor on
		17mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤31mm	3.5	Sensor on
		31mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B13	Back Side	0mm≤Distance≤25mm	2	Sensor on
		25mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤21mm	2	Sensor on
		21mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤16mm	2	Sensor on
		16mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤17mm	2	Sensor on
		17mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤31mm	2	Sensor on
		31mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B14	Back Side	0mm≤Distance≤25mm	2	Sensor on
		25mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤21mm	2	Sensor on
		21mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤16mm	2	Sensor on
		16mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤17mm	2	Sensor on
		17mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤31mm	2	Sensor on
		31mm<Distance	0	Sensor off

	Bottom Edge	/	0	Sensor off
LTE B30	Back Side	0mm≤Distance≤25mm	3	Sensor on
		25mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤21mm	3	Sensor on
		21mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤16mm	3	Sensor on
		16mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤17mm	3	Sensor on
		17mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤31mm	3	Sensor on
		31mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B41	Back Side	0mm≤Distance≤25mm	3.5	Sensor on
		25mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤21mm	3.5	Sensor on
		21mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤16mm	3.5	Sensor on
		16mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤17mm	3.5	Sensor on
		17mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤31mm	3.5	Sensor on
		31mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE B42	Back Side	0mm≤Distance≤25mm	2.5	Sensor on
		25mm<Distance	0	Sensor off
	Front Side	0mm≤Distance≤21mm	2.5	Sensor on
		21mm<Distance	0	Sensor off
	Left Edge	0mm≤Distance≤16mm	2.5	Sensor on
		16mm<Distance	0	Sensor off
	Right Edge	0mm≤Distance≤17mm	2.5	Sensor on
		17mm<Distance	0	Sensor off
	Top Edge	0mm≤Distance≤31mm	2.5	Sensor on
		31mm<Distance	0	Sensor off
	Bottom Edge	/	0	Sensor off

	LTE B66	Back Side	0mm≤Distance≤25mm	3.5	Sensor on
			25mm<Distance	0	Sensor off
		Front Side	0mm≤Distance≤21mm	3.5	Sensor on
			21mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤16mm	3.5	Sensor on
			16mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤17mm	3.5	Sensor on
			17mm<Distance	0	Sensor off
		Top Edge	0mm≤Distance≤31mm	3.5	Sensor on
			31mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	NR n2	Back Side	0mm≤Distance≤25mm	4	Sensor on
			25mm<Distance	0	Sensor off
		Front Side	0mm≤Distance≤21mm	4	Sensor on
			21mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤16mm	4	Sensor on
			16mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤17mm	4	Sensor on
			17mm<Distance	0	Sensor off
		Top Edge	0mm≤Distance≤31mm	4	Sensor on
			31mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	NR n5	Back Side	0mm≤Distance≤25mm	2.5	Sensor on
			25mm<Distance	0	Sensor off
		Front Side	0mm≤Distance≤21mm	2.5	Sensor on
			21mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤16mm	2.5	Sensor on
			16mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤17mm	2.5	Sensor on
			17mm<Distance	0	Sensor off
		Top Edge	0mm≤Distance≤31mm	2.5	Sensor on
			31mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	NR n26	Back Side	0mm≤Distance≤25mm	2.5	Sensor on
			25mm<Distance	0	Sensor off

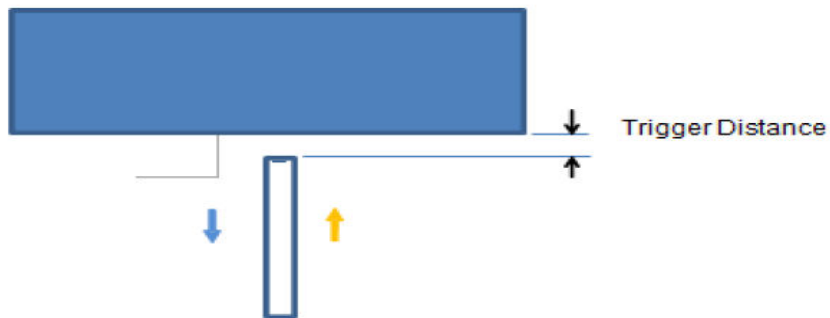
		Front Side	0mm≤Distance≤21mm	2.5	Sensor on
			21mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤16mm	2.5	Sensor on
			16mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤17mm	2.5	Sensor on
			17mm<Distance	0	Sensor off
		Top Edge	0mm≤Distance≤31mm	2.5	Sensor on
			31mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	NR n41	Back Side	0mm≤Distance≤25mm	4	Sensor on
			25mm<Distance	0	Sensor off
		Front Side	0mm≤Distance≤21mm	4	Sensor on
			21mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤16mm	4	Sensor on
			16mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤17mm	4	Sensor on
			17mm<Distance	0	Sensor off
		Top Edge	0mm≤Distance≤31mm	4	Sensor on
			31mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	NR n77	Back Side	0mm≤Distance≤25mm	4	Sensor on
			25mm<Distance	0	Sensor off
		Front Side	0mm≤Distance≤21mm	4	Sensor on
			21mm<Distance	0	Sensor off
		Left Edge	0mm≤Distance≤16mm	4	Sensor on
			16mm<Distance	0	Sensor off
		Right Edge	0mm≤Distance≤17mm	4	Sensor on
			17mm<Distance	0	Sensor off
		Top Edge	0mm≤Distance≤31mm	4	Sensor on
			31mm<Distance	0	Sensor off
		Bottom Edge	/	0	Sensor off
	NR n78	Back Side	0mm≤Distance≤25mm	4	Sensor on
			25mm<Distance	0	Sensor off
		Front Side	0mm≤Distance≤21mm	4	Sensor on
			21mm<Distance	0	Sensor off

	Left Edge	$0\text{mm} \leq \text{Distance} \leq 16\text{mm}$	4	Sensor on
		$16\text{mm} < \text{Distance}$	0	Sensor off
	Right Edge	$0\text{mm} \leq \text{Distance} \leq 17\text{mm}$	4	Sensor on
		$17\text{mm} < \text{Distance}$	0	Sensor off
	Top Edge	$0\text{mm} \leq \text{Distance} \leq 31\text{mm}$	4	Sensor on
		$31\text{mm} < \text{Distance}$	0	Sensor off
	Bottom Edge	/	0	Sensor off

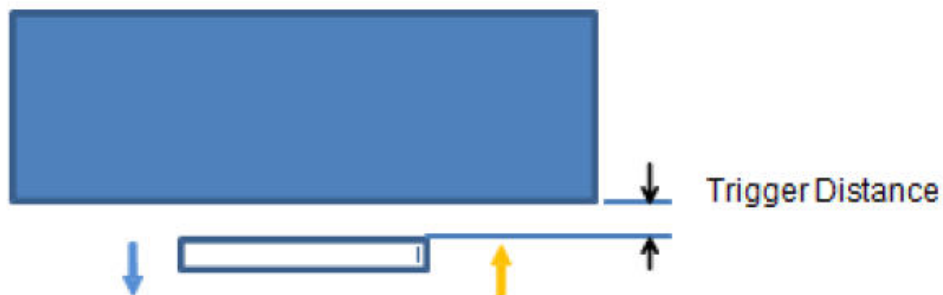
1. Proximity Sensor Coverage, Distance and Angle

1.1) Procedures for determining proximity sensor triggering distances

The proximity sensor triggering distance measurement method are as below:



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



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

Table: Summary of Trigger Distances for MAIN Antenna:

Band	Trigger Distance- Back Side		Trigger Distance- Front Side	
	Moving toward Phantom trigger point (mm)	Moving away from Phantom trigger point (mm)	Moving toward Phantom trigger point (mm)	Moving away from Phantom trigger point (mm)
LTE B2	17	25	14	21
LTE B4	17	25	14	21
LTE B7	17	25	14	21
LTE B13	17	25	14	21
LTE B14	17	25	14	21
LTE B30	17	25	14	21
LTE B41	17	25	14	21
LTE B42	17	25	14	21
LTE B66	17	25	14	21
NR n2	17	25	14	21
NR n5	17	25	14	21
NR n26	17	25	14	21
NR n41	17	25	14	21
NR n77	17	25	14	21
NR n78	17	25	14	21

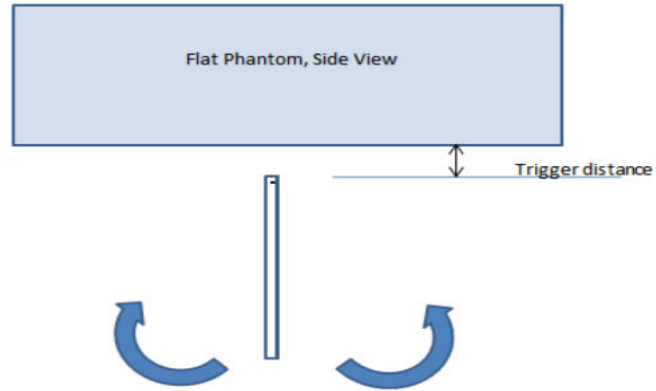
Band	Trigger Distance- Left Edge		Trigger Distance- Right Edge		Trigger Distance- Top Edge	
	Moving toward Phantom trigger point (mm)	Moving away from Phantom trigger point (mm)	Moving toward Phantom trigger point (mm)	Moving away from Phantom trigger point (mm)	Moving toward Phantom trigger point (mm)	Moving away from Phantom trigger point (mm)
LTE B2	11	16	11	17	25	31
LTE B4	11	16	11	17	25	31
LTE B7	11	16	11	17	25	31
LTE B13	11	16	11	17	25	31
LTE B14	11	16	11	17	25	31
LTE B30	11	16	11	17	25	31
LTE B41	11	16	11	17	25	31
LTE B42	11	16	11	17	25	31
LTE B66	11	16	11	17	25	31
NR n2	11	16	11	17	25	31
NR n5	11	16	11	17	25	31
NR n26	11	16	11	17	25	31
NR n41	11	16	11	17	25	31
NR n77	11	16	11	17	25	31
NR n78	11	16	11	17	25	31

[illegible][illegible][illegible]

Position	Ant	Band	Power Reduction Status(dBm)																															
			45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	21	19	15	14	9	7	5	3	1	
Top Edge	Main Antenna	LTE B2	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12
Top Edge	Main Antenna	LTE B4	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64	23.64
Top Edge	Main Antenna	LTE B6	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68	23.68
Top Edge	Main Antenna	LTE B13	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48	23.48
Top Edge	Main Antenna	LTE B14	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39	23.39
Top Edge	Main Antenna	LTE B30	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05	23.05
Top Edge	Main Antenna	LTE B41	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07	23.07
Top Edge	Main Antenna	LTE B42	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23	23.23
Top Edge	Main Antenna	LTE B66	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69
Top Edge	Main Antenna	NR n2	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69	23.69
Top Edge	Main Antenna	NR n5	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.97
Top Edge	Main Antenna	NR n6	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83
Top Edge	Main Antenna	NR n41	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72
Top Edge	Main Antenna	NR n77	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46
Top Edge	Main Antenna	NR n78	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63

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

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.



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 ±45°	Power Reduction Status											
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°	
LTE B2	Top Edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B4	Top Edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B7	Top Edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B13	Top Edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B14	Top Edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B30	Top Edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B41	Top Edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B42	Top Edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B66	Top Edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
NR n2	Top Edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
NR n5	Top Edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
NR n26	Top Edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
NR n41	Top Edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
NR n77	Top Edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
NR n78	Top Edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B2	Left Edge	11mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B4	Left Edge	11mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B7	Left Edge	11mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B13	Left Edge	11mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B14	Left Edge	11mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B30	Left Edge	11mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B41	Left Edge	11mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B42	Left Edge	11mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B66	Left Edge	11mm	on	on	on	on	on	on	on	on	on	on	on	
NR n2	Left Edge	11mm	on	on	on	on	on	on	on	on	on	on	on	
NR n5	Left Edge	11mm	on	on	on	on	on	on	on	on	on	on	on	

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NR n26	Left Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
NR n41	Left Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
NR n77	Left Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
NR n78	Left Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
LTE B2	Right Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
LTE B4	Right Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
LTE B7	Right Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
LTE B13	Right Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
LTE B14	Right Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
LTE B30	Right Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
LTE B41	Right Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
LTE B42	Right Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
LTE B66	Right Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
NR n2	Right Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
NR n5	Right Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
NR n26	Right Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
NR n41	Right Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
NR n77	Right Edge	11mm	on	on	on	on	on	on	on	on	on	on	on
NR n78	Right Edge	11mm	on	on	on	on	on	on	on	on	on	on	on

Conclusion: As is shown from the validation data, it can be ensured that the proximity sensor can be valid triggered for the EUT tilt coverage exposure condition (LTE Band 2/4/7/13/14/30/41/42/66, NR n2/n5/n26/n41/n77/n78 with MAIN Antenna)

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

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

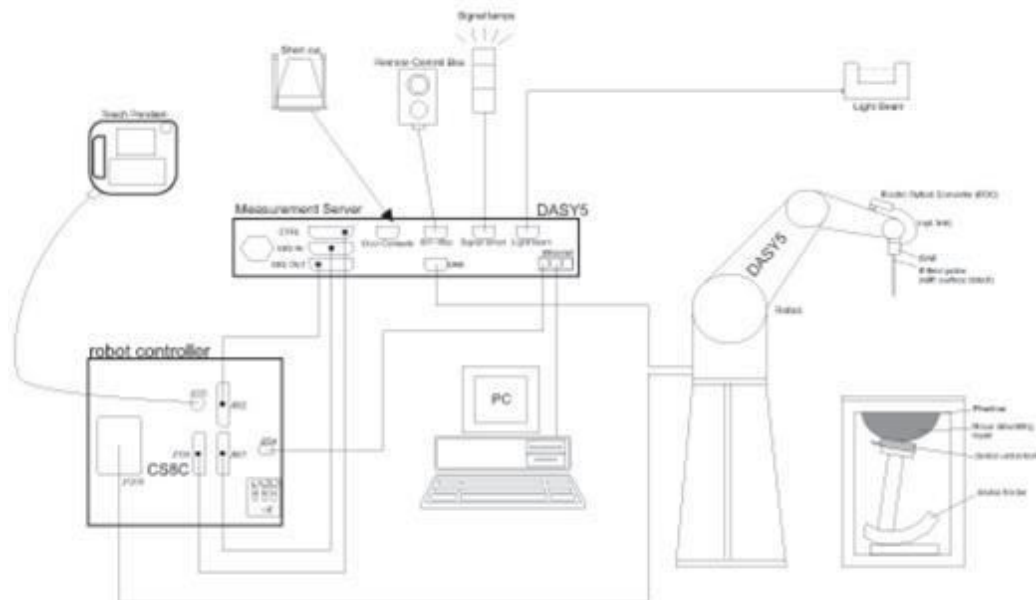
For this device, as proximity sensor power reduction supports multiple power stages, so we plan that the additional SAR should be considered at the conservative distance, minus 1 mm, for each power stage.

Main Antenna		Power Reduction Level Amount (dB)																	
Power Reduction Scenario	Sensor Mode	LTE B2	LTE B4	LTE B5	LTE B7	LTE B12	LTE B13	LTE B14	LTE B26	LTE B30	LTE B41	LTE B42	LTE B66	NR n2	NR n5	NR n26	NR n41	NR n77	NR n78
Standalone	Full power	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.50	24.00	24.00	24.00	24.00	24.50	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
	Sensor on	3.00	3.50	0.00	3.50	0.00	2.00	2.00	0.00	3.00	3.50	2.50	3.50	4.00	2.50	2.50	4.00	4.00	4.00

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

$$SAR = IEI^2 \sigma / \rho$$

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

7 Main Test Equipment

Name of Equipment	Manufacturer	Type/Model	Serial Number	Software Version	Last Cal.	Cal. Due Date
Network Analyzer	Agilent	E5071B	MY42404014	/	2025-01-06	2026-01-05
Dielectric Probe Kit	SPEAG	DAK-3.5	1332	/	2025-06-15	2027-06-14
Power Meter	Agilent	E4417A	GB41291714	/	2025-05-06	2026-05-05
Power Sensor	Agilent	N8481H	MY50350004	/	2025-05-06	2026-05-05
Power Sensor	Agilent	E9327A	US40441622	/	2025-05-06	2026-05-05
Signal Generator	KEYSIGHT	N5182B-X07	MY51350303	/	2024-12-02	2025-12-01
Dual Directional Coupler	UCL	UCL-DDC056G-S	20010600118	/	/	/
Amplifier	R&S	SCU18F	101022	/	2025-05-06	2026-05-05
Wireless Communication Tester	Anritsu	MT8820C	6201342015	/	2025-05-06	2026-05-05
Wireless communication tester	Starpont	SP9500	20440	/	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 2300MHz	SPEAG	D2300V2	1131	/	2022-09-09	2025-09-08
Validation Kit 2600MHz	SPEAG	D2600V2	1025	/	2024-05-08	2027-05-07
Validation Kit 3500MHz	SPEAG	D3500V2	1083	/	2022-10-09	2025-10-08
Validation Kit 3700MHz	SPEAG	D3700V2	1048	/	2022-10-10	2025-10-09
Validation Kit 3900MHz	SPEAG	D3900V2	1027	/	2022-10-09	2025-10-08
Tissue test software	SPEAG	/	/	3.0.4.1	/	/
Temperature Probe	Auden	DTM3000	3905	/	2024-12-03	2025-12-02
Twin SAM Phantom	SPEAG	SAM2	1666	/	/	/
Hygrothermograph	Anymetr	HTC - 1	TA2025A041	/	2025-05-06	2026-05-05
Test System	SPEAG	TX90 XLspeag	F11/5H7CA1/ A/01	52.10.4.15 27	/	/

8 Tissue Dielectric Parameter Measurements & System Check

8.1 Tissue Verification

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

Target values

Frequency (MHz)	ϵ_r	$\sigma(\text{s/m})$
750	42.0	0.90
835	41.5	0.90
1750	40.1	1.37
1900	40.0	1.40
2300	39.5	1.67
2600	39.0	1.96
3500	37.9	2.91
3700	37.7	3.12
3900	37.5	3.32

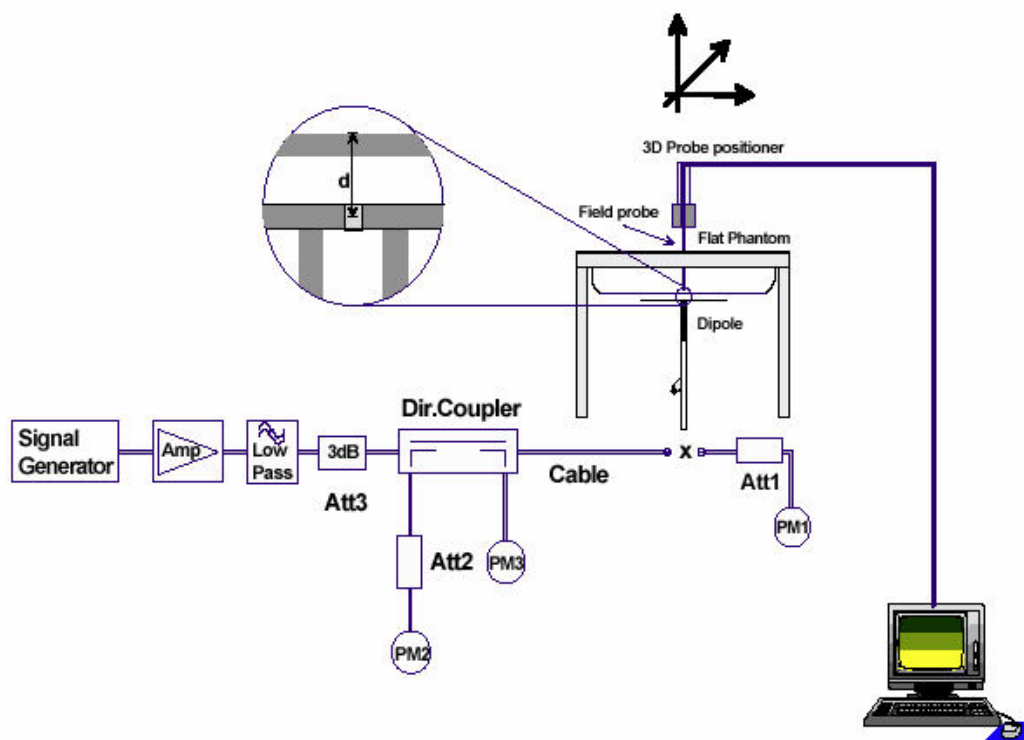
Measurements results

Frequency (MHz)	Test Date	Temp ℃	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within ±5%)	
			ϵ_r	σ (s/m)	ϵ_r	σ (s/m)	Dev ϵ_r (%)	Dev σ (%)
750	8/18/2025	21.5	41.8	0.89	42.0	0.90	-0.48	-1.11
835	8/19/2025	21.5	41.3	0.89	41.5	0.90	-0.48	-1.11
1750	8/24/2025	21.5	40.2	1.35	40.1	1.37	0.25	-1.46
1900	8/22/2025	21.5	40.1	1.41	40.0	1.40	0.25	0.71
	8/23/2025	21.5	40.5	1.34	40.0	1.40	1.25	-4.29
2300	8/26/2025	21.5	40.1	1.64	39.5	1.67	1.52	-1.80
2600	8/25/2025	21.5	38.2	2.01	39.0	1.96	-2.05	2.55
	9/1/2025	21.5	39.3	1.97	39.0	1.96	0.77	0.51
3500	9/3/2025	21.5	37.9	2.89	37.9	2.91	0.00	-0.69
3700	9/3/2025	21.5	38.1	3.03	37.7	3.12	1.06	-2.88
3900	9/3/2025	21.5	37.9	3.42	37.5	3.32	1.07	3.01
Note: The depth of the tissue-equivalent liquid in the phantom below 3 GHz shall be not less than 15.0 cm and that in the phantom above 3 GHz shall be not less than 10.0 cm.								

8.2 System Check

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

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



Picture 1 System Check setup



Picture 2 Setup Photo

Justification for Extended SAR Dipole Calibrations

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

Dipole		Date of Measurement	Return Loss (dB)	Δ %	Impedance (Ω)			
					Real	$\Delta\Omega$	Imaginary	$\Delta\Omega$
Dipole D750V3 SN: 1045	Head	9/12/2023	30.4	/	51.9	/	-2.47	/
	Liquid	9/11/2024	30.12	-0.9	52.3	0.4	-2.46	0.01
Dipole D835V2 SN: 4d020	Head	9/15/2023	28.3	/	50.6	/	-3.80	/
	Liquid	9/14/2024	28.9	2.1	51.4	0.8	-3.66	0.14
Dipole D1750V2 SN: 1033	Head	3/23/2023	36.2	/	51.2	/	-0.98	/
	Liquid	3/22/2024	35.4	-2.2	51.6	0.4	-1.28	-0.3
	Liquid	3/21/2025	36.7	3.7	49.8	-1.8	-0.72	0.56
Dipole D1900V2 SN: 5d060	Head	9/12/2023	24.0	/	50.5	/	6.32	/
	Liquid	9/11/2024	24.1	0.4	50.9	0.4	6.83	0.51
Dipole D2300V2 SN: 1131	Head	9/9/2022	26.1	/	45.8	/	2.3	/
	Liquid	9/7/2023	26.4	1.1	45.5	-0.3	2.2	-0.1
	Liquid	9/6/2024	25.7	-2.7	46.1	0.6	2.5	0.3
Dipole D2600V2 SN: 1025	Head	5/08/2024	24.2	/	49.0	/	-6.02	/
	Liquid	5/07/2025	24.6	1.7	50.1	1.1	-5.92	0.1
Dipole D3500V2 SN: 1083	Head	9/10/2022	-36.0	/	51.3	/	0.98	/
	Liquid	8/9/2023	-34.6	-3.9	49.5	-1.8	1.02	0.04
	Liquid	7/8/2024	-35.2	1.7	50.1	0.6	1.18	0.16
Dipole D3700V2 SN: 1048	Head	10/10/2022	24.4	/	44.6	/	-1.96	/
	Liquid	10/9/2023	24.6	0.8	44.6	0.0	-1.01	0.95
	Liquid	9/8/2024	25.1	2.0	44.8	0.2	-0.64	0.37
Dipole D3900V2 SN: 1027	Head	9/10/2022	24.7	/	47.9	/	-5.31	/
	Liquid	8/9/2023	25.3	2.4	48.8	0.9	-4.39	0.92
	Liquid	7/8/2024	25.4	0.4	49.6	0.8	-4.28	0.11

System Check Results

Frequency (MHz)	Test Date	Temp °C	250mW Measured SAR _{1g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
750	8/18/2025	21.5	2.04	8.16	8.47	-3.66	1
835	8/19/2025	21.5	2.51	10.04	9.75	2.97	2
1750	8/24/2025	21.5	9.11	36.44	36.80	-0.98	3
1900	8/22/2025	21.5	9.88	39.52	40.40	-2.18	4
	8/23/2025	21.5	9.60	38.40	40.40	-4.95	5
2300	8/26/2025	21.5	12.32	49.28	50.10	-1.64	6
2600	8/25/2025	21.5	13.90	55.60	56.10	-0.89	7
	9/1/2025	21.5	13.92	55.68	56.10	-0.75	8
Frequency (MHz)	Test Date	Temp °C	100mW Measured SAR _{1g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
3500	9/3/2025	21.5	6.55	65.50	64.50	1.55	9
3700	9/3/2025	21.5	6.61	66.10	66.80	-1.05	10
3900	9/3/2025	21.5	6.83	68.30	66.10	3.33	11
Note: Target Values used derive from the calibration certificate data storage and evaluation.							

8.3 SAR System Validation

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

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

Frequency [MHz]	Date	Probe SN	Probe Type	Probe Cal Point		PERM (Er)	COND (Σ)	CW Validation		
								Sensitivity	Probe Linearity	Probe Isotropy
750	2025/05/28	3677	EX3DV4	750	Head	41.9	0.89	PASS	PASS	PASS
835	2025/05/28	3677	EX3DV4	835	Head	41.5	0.90	PASS	PASS	PASS
1750	2025/05/28	3677	EX3DV4	1750	Head	40.1	1.37	PASS	PASS	PASS
1900	2025/05/28	3677	EX3DV4	1900	Head	40.0	1.40	PASS	PASS	PASS
2300	2025/05/28	3677	EX3DV4	2300	Head	39.5	1.67	PASS	PASS	PASS
2600	2025/05/28	3677	EX3DV4	2600	Head	39.0	1.96	PASS	PASS	PASS
3500	2025/05/28	3677	EX3DV4	3500	Head	37.9	2.91	PASS	PASS	PASS
3700	2025/05/28	3677	EX3DV4	3700	Head	37.7	3.12	PASS	PASS	PASS
3900	2025/05/28	3677	EX3DV4	3900	Head	37.5	3.32	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 LTE Mode

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

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

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

LTE B2							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	23.03	23.32	23.11	24.00
		1	2	22.92	22.93	22.83	24.00
		1	5	22.95	23.33	23.19	24.00
		3	0	23.11	22.99	23.05	24.00
		3	2	22.71	23.03	22.90	24.00
		3	3	22.74	22.94	22.72	24.00
		6	0	22.37	22.00	22.17	23.00
	16QAM	1	0	22.22	22.00	22.36	23.00
		1	2	22.38	22.29	22.01	23.00
		1	5	21.96	22.27	22.09	23.00
		3	0	21.81	21.93	21.79	23.00
		3	2	21.87	21.82	21.96	23.00
		3	3	22.02	21.96	21.89	23.00
		6	0	21.29	21.16	21.12	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	23.19	23.00	22.91	24.00
		1	7	23.12	23.07	22.75	24.00
		1	14	22.69	23.11	23.21	24.00

		8	0	21.85	21.95	22.05	23.00
		8	4	21.93	21.93	21.92	23.00
		8	7	21.86	21.76	21.82	23.00
		15	0	22.15	22.10	22.31	23.00
	16QAM	1	0	22.28	22.28	22.28	23.00
		1	7	22.08	22.15	22.19	23.00
		1	14	21.78	22.17	21.87	23.00
		8	0	20.81	21.27	21.05	22.00
		8	4	21.11	21.00	21.06	22.00
		8	7	21.08	21.08	20.93	22.00
		15	0	21.21	20.90	21.32	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	22.83	23.10	23.25	24.00
		1	13	22.96	22.89	22.93	24.00
		1	24	22.97	23.05	23.25	24.00
		12	0	22.17	22.03	21.91	23.00
		12	6	22.01	21.91	22.06	23.00
		12	13	21.80	22.00	21.86	23.00
		25	0	22.13	22.28	22.17	23.00
	16QAM	1	0	22.16	22.12	22.28	23.00
		1	13	22.18	22.13	22.07	23.00
		1	24	21.98	22.27	22.21	23.00
		12	0	21.11	21.13	20.93	22.00
		12	6	20.97	20.96	21.16	22.00
		12	13	20.98	20.88	20.83	22.00
		25	0	21.07	21.22	21.08	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	22.95	23.08	23.11	24.00
		1	25	22.82	23.13	22.73	24.00
		1	49	22.85	23.27	22.95	24.00
		25	0	22.07	21.97	22.05	23.00
		25	13	22.15	22.03	22.20	23.00
		25	25	21.94	21.92	21.88	23.00
		50	0	22.25	22.02	22.05	23.00
	16QAM	1	0	22.02	22.08	22.46	23.00
		1	25	22.30	22.39	22.31	23.00
		1	49	21.84	22.25	22.07	23.00
		25	0	20.95	20.99	20.89	22.00
		25	13	21.07	20.80	20.92	22.00
		25	25	21.04	21.00	21.01	22.00
		50	0	21.35	21.30	21.08	22.00

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	22.95	23.02	23.09	24.00
		1	38	23.06	22.89	22.89	24.00
		1	74	22.95	23.07	23.23	24.00
		36	0	22.11	21.97	22.09	23.00
		36	18	22.13	22.09	21.92	23.00
		36	39	22.02	21.76	22.00	23.00
		75	0	22.27	22.14	22.11	23.00
	16QAM	1	0	22.12	22.10	22.38	23.00
		1	38	22.24	22.11	22.05	23.00
		1	74	22.08	22.25	22.21	23.00
		36	0	21.25	20.91	21.11	22.00
		36	18	21.19	21.00	21.04	22.00
		36	39	20.86	20.94	21.09	22.00
		75	0	21.27	21.26	21.10	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	22.93	23.12	23.13	24.00
		1	50	22.92	22.99	22.91	24.00
		1	99	22.89	23.11	23.11	24.00
		50	0	22.03	21.95	21.99	23.00
		50	25	22.01	21.97	21.98	23.00
		50	50	21.90	21.88	21.90	23.00
		100	0	22.15	22.14	22.17	23.00
	16QAM	1	0	22.14	22.14	22.26	23.00
		1	50	22.18	22.23	22.17	23.00
		1	99	22.02	22.21	22.23	23.00
		50	0	21.07	20.97	20.93	22.00
		50	25	21.07	20.98	21.00	22.00
		50	50	20.94	20.96	20.93	22.00
		100	0	21.17	21.08	21.16	22.00
LTE B2							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	20.23	19.75	19.98	21.00
		1	2	19.98	19.73	19.48	21.00
		1	5	20.00	19.97	19.20	21.00
		3	0	20.01	19.62	19.39	21.00
		3	2	19.91	19.69	19.48	21.00
		3	3	19.23	19.66	19.10	21.00
		6	0	18.90	19.13	18.13	20.00

	16QAM	1	0	19.10	19.15	18.13	20.00
		1	2	19.21	19.06	18.36	20.00
		1	5	19.01	19.15	18.07	20.00
		3	0	18.71	18.80	18.11	20.00
		3	2	18.69	18.97	18.31	20.00
		3	3	18.68	18.81	18.31	20.00
		6	0	18.10	17.86	17.27	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	20.07	19.97	19.88	21.00
		1	7	20.00	19.85	19.38	21.00
		1	14	19.94	19.87	19.28	21.00
		8	0	19.05	18.92	19.07	20.00
		8	4	19.03	18.89	18.94	20.00
		8	7	18.05	18.84	18.26	20.00
		15	0	18.94	19.05	18.59	20.00
	16QAM	1	0	19.06	19.23	18.59	20.00
		1	7	18.93	19.24	18.20	20.00
		1	14	19.15	19.21	18.09	20.00
		8	0	18.03	17.80	17.73	19.00
		8	4	17.83	18.01	17.41	19.00
		8	7	17.90	17.73	17.39	19.00
		15	0	18.00	17.98	17.49	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	20.07	20.01	20.02	21.00
		1	13	19.82	19.95	19.42	21.00
		1	24	19.88	19.99	19.11	21.00
		12	0	19.01	18.86	18.83	20.00
		12	6	18.95	18.73	19.04	20.00
		12	13	18.01	18.72	18.30	20.00
		25	0	18.80	19.01	18.33	20.00
	16QAM	1	0	19.08	19.17	18.37	20.00
		1	13	18.99	19.16	18.06	20.00
		1	24	19.03	19.05	18.09	20.00
		12	0	17.85	17.78	17.15	19.00
		12	6	17.81	17.73	17.35	19.00
		12	13	17.80	17.79	17.41	19.00
		25	0	17.84	18.10	17.19	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	20.13	20.01	19.78	21.00
		1	25	20.02	19.97	19.36	21.00

		1	49	19.92	19.93	19.20	21.00
		25	0	19.13	18.96	18.99	20.00
		25	13	18.91	18.93	19.20	20.00
		25	25	18.01	18.94	18.26	20.00
		50	0	19.00	19.05	18.69	20.00
	16QAM	1	0	19.22	19.15	18.33	20.00
		1	25	18.97	19.36	18.04	20.00
		1	49	18.99	19.19	18.11	20.00
		25	0	18.09	17.92	17.23	19.00
		25	13	18.11	18.03	17.39	19.00
		25	25	17.70	17.93	17.51	19.00
		50	0	18.14	18.16	17.51	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	20.23	20.01	20.08	21.00
		1	38	19.96	19.99	19.40	21.00
		1	74	20.00	20.03	19.28	21.00
		36	0	18.87	18.96	18.65	20.00
		36	18	18.81	18.83	18.76	20.00
		36	39	18.35	18.90	18.36	20.00
		75	0	18.86	18.89	18.51	20.00
	16QAM	1	0	19.08	19.05	18.53	20.00
		1	38	19.01	19.02	18.34	20.00
		1	74	19.13	19.03	18.33	20.00
		36	0	18.01	18.00	17.15	19.00
		36	18	18.07	17.91	17.47	19.00
		36	39	17.82	17.77	17.53	19.00
		75	0	18.16	17.92	17.41	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	19.90	20.20	19.96	21.00
		1	50	19.75	19.85	19.48	21.00
		1	99	19.62	19.93	19.12	21.00
		50	0	18.93	18.80	18.55	20.00
		50	25	18.91	18.89	18.62	20.00
		50	50	18.31	18.80	18.26	20.00
		100	0	18.98	19.01	18.07	20.00
	16QAM	1	0	19.10	19.09	18.45	20.00
		1	50	19.03	19.14	18.20	20.00
		1	99	19.05	19.09	18.03	20.00
		50	0	17.87	17.86	17.17	19.00
		50	25	17.89	17.91	17.29	19.00
		50	50	17.82	17.73	17.45	19.00

		100	0	17.98	18.00	17.37	19.00
LTE B4							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	23.47	22.85	23.55	24.00
		1	2	23.15	23.66	23.40	24.00
		1	5	23.59	23.46	23.18	24.00
		3	0	22.65	23.55	23.35	24.00
		3	2	22.88	23.40	23.81	24.00
		3	3	23.31	22.82	22.98	24.00
		6	0	22.14	22.19	22.60	23.00
	16QAM	1	0	22.06	22.33	22.50	23.00
		1	2	22.42	22.67	22.52	23.00
		1	5	22.58	22.88	22.42	23.00
		3	0	21.91	22.45	22.54	23.00
		3	2	21.86	22.35	22.18	23.00
		3	3	21.94	22.06	21.87	23.00
		6	0	21.62	21.89	21.73	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	23.35	23.19	23.35	24.00
		1	7	22.99	23.66	23.24	24.00
		1	14	23.47	23.54	23.24	24.00
		8	0	21.93	22.37	22.37	23.00
		8	4	21.96	22.74	22.85	23.00
		8	7	22.15	21.92	22.16	23.00
		15	0	22.32	22.19	22.73	23.00
	16QAM	1	0	21.98	22.03	22.28	23.00
		1	7	22.18	22.39	22.40	23.00
		1	14	22.42	22.84	22.06	23.00
		8	0	20.91	21.45	21.92	22.00
		8	4	21.04	21.39	21.22	22.00
		8	7	20.88	21.56	21.15	22.00
		15	0	21.70	21.99	21.85	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	23.45	23.07	23.43	24.00
		1	13	23.03	23.68	23.24	24.00
		1	24	23.55	23.26	23.42	24.00
		12	0	21.95	22.77	22.71	23.00
		12	6	22.02	22.44	22.47	23.00
		12	13	22.35	22.16	22.26	23.00

	16QAM	25	0	22.06	22.39	22.77	23.00
		1	0	22.20	22.17	22.46	23.00
		1	13	22.26	22.67	22.62	23.00
		1	24	22.42	22.92	22.36	23.00
		12	0	20.93	21.43	21.80	22.00
		12	6	21.14	21.51	21.14	22.00
		12	13	21.00	21.26	21.31	22.00
		25	0	21.58	21.75	21.81	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	23.61	23.15	23.47	24.00
		1	25	22.91	23.54	23.28	24.00
		1	49	23.53	23.34	23.46	24.00
		25	0	22.11	22.51	22.73	23.00
		25	13	21.90	22.26	22.33	23.00
		25	25	22.07	22.08	22.30	23.00
		50	0	22.08	22.27	22.83	23.00
	16QAM	1	0	22.36	22.21	22.28	23.00
		1	25	22.20	22.51	22.64	23.00
		1	49	22.34	22.78	22.22	23.00
		25	0	21.07	21.73	21.70	22.00
		25	13	21.00	21.49	21.30	22.00
		25	25	20.94	21.30	21.37	22.00
		50	0	21.74	21.77	21.89	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	23.49	22.91	23.45	24.00
		1	38	22.93	23.58	23.26	24.00
		1	74	23.69	23.24	23.44	24.00
		36	0	22.05	22.59	22.73	23.00
		36	18	22.16	22.48	22.19	23.00
		36	39	22.29	22.12	22.04	23.00
		75	0	22.26	22.37	22.75	23.00
	16QAM	1	0	22.26	22.13	22.32	23.00
		1	38	22.36	22.55	22.74	23.00
		1	74	22.66	22.85	22.40	23.00
		36	0	20.85	21.63	21.78	22.00
		36	18	21.20	21.45	21.28	22.00
		36	39	21.02	21.32	21.11	22.00
		75	0	21.68	21.77	21.73	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	23.39	22.95	23.45	24.00

		1	50	23.03	23.64	23.34	24.00
		1	99	23.51	23.26	23.28	24.00
		50	0	21.91	22.63	22.67	23.00
		50	25	21.98	22.44	22.69	23.00
		50	50	22.23	22.02	22.14	23.00
		100	0	22.12	22.23	22.79	23.00
		16QAM	1	0	22.22	22.21	22.42
	1		50	22.24	22.57	22.64	23.00
	1		99	22.48	22.98	22.26	23.00
	50		0	20.91	21.51	21.82	22.00
	50		25	21.02	21.55	21.22	22.00
	50		50	21.08	21.36	21.17	22.00
	100		0	21.54	21.77	21.77	22.00
LTE B4							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	19.64	19.79	19.64	20.50
		1	2	19.35	19.98	19.69	20.50
		1	5	18.99	19.89	19.90	20.50
		3	0	19.08	19.19	19.51	20.50
		3	2	19.47	19.79	19.36	20.50
		3	3	19.53	19.38	19.78	20.50
		6	0	18.27	18.99	18.37	19.50
	16QAM	1	0	18.86	18.93	19.04	19.50
		1	2	18.84	19.16	19.16	19.50
		1	5	18.60	18.93	18.64	19.50
		3	0	19.00	19.06	19.01	19.50
		3	2	19.14	18.87	18.71	19.50
		3	3	18.47	18.95	18.51	19.50
		6	0	18.10	17.97	17.71	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	19.50	19.77	19.92	20.50
		1	7	19.43	19.80	19.65	20.50
		1	14	19.15	19.81	19.68	20.50
		8	0	18.34	18.19	18.79	19.50
		8	4	18.59	18.95	18.20	19.50
		8	7	18.67	18.48	18.78	19.50
		15	0	18.23	18.99	18.67	19.50
	16QAM	1	0	18.68	18.89	19.00	19.50
		1	7	18.82	19.22	19.16	19.50
		1	14	18.36	18.79	18.32	19.50

		8	0	18.08	18.10	17.79	18.50
		8	4	17.88	18.27	17.49	18.50
		8	7	17.71	18.33	17.31	18.50
		15	0	18.12	17.87	17.79	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	19.84	19.99	19.74	20.50
		1	13	19.23	19.72	19.61	20.50
		1	24	18.99	19.91	19.82	20.50
		12	0	18.40	18.33	18.83	19.50
		12	6	18.43	18.85	18.48	19.50
		12	13	18.73	18.30	18.88	19.50
		25	0	18.53	18.91	18.43	19.50
	16QAM	1	0	18.60	19.13	19.14	19.50
		1	13	18.86	19.14	19.16	19.50
		1	24	18.52	18.69	18.42	19.50
		12	0	18.02	18.06	17.99	18.50
		12	6	18.10	18.13	17.65	18.50
		12	13	17.71	18.13	17.49	18.50
		25	0	18.20	17.89	17.93	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	19.90	19.75	19.56	20.50
		1	25	19.21	19.76	19.53	20.50
		1	49	19.15	19.93	19.94	20.50
		25	0	18.48	18.53	18.77	19.50
		25	13	18.27	18.75	18.50	19.50
		25	25	18.93	18.26	18.60	19.50
		50	0	18.43	18.89	18.45	19.50
	16QAM	1	0	18.86	18.83	19.34	19.50
		1	25	18.72	19.18	19.26	19.50
		1	49	18.24	18.85	18.66	19.50
		25	0	17.92	18.20	18.03	18.50
		25	13	18.06	17.99	17.83	18.50
		25	25	17.89	18.29	17.55	18.50
		50	0	18.10	17.71	17.97	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	19.88	19.89	19.72	20.50
		1	38	19.39	19.88	19.61	20.50
		1	74	19.05	19.89	19.72	20.50
		36	0	18.58	18.41	18.89	19.50
		36	18	18.39	18.77	18.50	19.50

		36	39	18.95	18.48	18.86	19.50
		75	0	18.57	19.09	18.57	19.50
	16QAM	1	0	18.62	19.07	19.28	19.50
		1	38	18.94	18.96	19.00	19.50
		1	74	18.56	18.71	18.44	19.50
		36	0	18.26	18.12	17.99	18.50
		36	18	18.00	18.23	17.57	18.50
		36	39	17.81	18.05	17.53	18.50
		75	0	18.40	17.87	17.83	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	19.84	19.96	19.93	20.50
		1	50	19.85	19.97	18.82	20.50
		1	99	19.86	19.94	18.70	20.50
		50	0	18.91	19.00	18.26	19.50
		50	25	19.03	19.03	18.29	19.50
		50	50	18.95	18.99	18.19	19.50
		100	0	19.13	19.14	18.35	19.50
	16QAM	1	0	19.18	19.26	18.52	19.50
		1	50	19.23	19.30	18.46	19.50
		1	99	19.07	19.24	18.32	19.50
		50	0	17.91	17.98	17.71	18.50
		50	25	18.03	18.03	17.69	18.50
		50	50	17.97	17.97	17.57	18.50
		100	0	18.15	17.16	17.68	18.50
LTE B5							
Sensor off & Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	23.09	23.14	23.16	24.00
		1	2	23.20	23.18	23.26	24.00
		1	5	23.33	23.18	23.02	24.00
		3	0	22.89	22.88	23.23	24.00
		3	2	22.94	22.97	22.95	24.00
		3	3	23.03	23.18	22.89	24.00
		6	0	22.58	22.28	22.33	23.00
	16QAM	1	0	22.75	22.43	22.67	23.00
		1	2	22.80	22.84	22.43	23.00
		1	5	22.61	22.78	22.40	23.00
		3	0	22.13	21.98	22.23	23.00
		3	2	22.05	21.95	22.21	23.00
		3	3	21.98	21.88	22.05	23.00
		6	0	21.42	21.32	21.06	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	23.31	23.12	23.32	24.00
		1	7	23.48	23.36	23.22	24.00
		1	14	22.95	23.26	23.30	24.00
		8	0	22.39	22.22	22.17	23.00
		8	4	22.26	22.07	22.31	23.00
		8	7	22.39	22.10	22.33	23.00
		15	0	22.38	22.12	22.21	23.00
	16QAM	1	0	22.49	22.65	22.49	23.00
		1	7	22.62	22.54	22.59	23.00
		1	14	22.45	22.68	22.52	23.00
		8	0	21.07	21.34	21.39	22.00
		8	4	21.27	21.15	21.29	22.00
		8	7	21.08	21.02	21.21	22.00
		15	0	21.38	21.36	21.20	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	23.21	23.00	23.02	24.00
		1	13	23.30	23.16	23.02	24.00
		1	24	23.05	23.14	23.06	24.00
		12	0	22.21	22.08	22.05	23.00
		12	6	22.20	22.25	22.29	23.00
		12	13	22.31	22.14	22.25	23.00
		25	0	22.24	22.12	22.21	23.00
	16QAM	1	0	22.57	22.37	22.39	23.00
		1	13	22.56	22.66	22.45	23.00
		1	24	22.47	22.52	22.30	23.00
		12	0	21.03	21.32	21.11	22.00
		12	6	21.29	21.35	21.29	22.00
		12	13	21.22	21.18	21.17	22.00
		25	0	21.42	21.26	21.08	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	23.13	23.10	23.14	24.00
		1	25	23.26	23.14	23.14	24.00
		1	49	23.11	23.08	23.12	24.00
		25	0	22.19	22.16	22.17	23.00
		25	13	22.26	22.15	22.15	23.00
		25	25	22.21	22.20	22.21	23.00
		50	0	22.34	22.18	22.21	23.00
	16QAM	1	0	22.65	22.49	22.43	23.00
		1	25	22.60	22.66	22.55	23.00

		1	49	22.57	22.58	22.38	23.00
		25	0	21.13	21.14	21.17	22.00
		25	13	21.27	21.17	21.17	22.00
		25	25	21.22	21.18	21.19	22.00
		50	0	21.28	21.18	21.18	22.00
LTE B7							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	23.40	23.40	23.20	24.00
		1	13	23.52	23.57	23.27	24.00
		1	24	23.77	23.59	23.51	24.00
		12	0	22.49	22.43	22.13	23.00
		12	6	22.55	22.28	22.23	23.00
		12	13	22.39	22.28	22.28	23.00
		25	0	22.69	22.51	22.27	23.00
	16QAM	1	0	22.77	22.69	22.42	23.00
		1	13	22.94	22.52	22.44	23.00
		1	24	22.83	22.65	22.38	23.00
		12	0	21.42	21.24	21.33	22.00
		12	6	21.51	21.45	21.15	22.00
		12	13	21.22	21.36	21.04	22.00
		25	0	21.61	21.38	21.33	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	23.42	23.66	23.34	24.00
		1	25	23.52	23.47	23.17	24.00
		1	49	23.47	23.61	23.59	24.00
		25	0	22.37	22.23	22.19	23.00
		25	13	22.61	22.42	22.43	23.00
		25	25	22.25	22.18	22.04	23.00
		50	0	22.55	22.25	22.27	23.00
	16QAM	1	0	22.53	22.43	22.32	23.00
		1	25	22.88	22.42	22.60	23.00
		1	49	22.57	22.71	22.40	23.00
		25	0	21.40	21.28	21.11	22.00
		25	13	21.37	21.21	21.25	22.00
		25	25	21.16	21.26	21.06	22.00
		50	0	21.61	21.52	21.19	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	23.34	23.50	23.20	24.00
		1	38	23.38	23.39	23.09	24.00

		1	74	23.51	23.41	23.55	24.00
		36	0	22.33	22.29	22.17	23.00
		36	18	22.61	22.46	22.41	23.00
		36	39	22.27	22.22	22.06	23.00
		75	0	22.63	22.35	22.33	23.00
	16QAM	1	0	22.77	22.59	22.38	23.00
		1	38	22.96	22.36	22.48	23.00
		1	74	22.87	22.55	22.34	23.00
		36	0	21.46	21.52	21.05	22.00
		36	18	21.39	21.29	21.39	22.00
		36	39	21.20	21.36	21.00	22.00
		75	0	21.67	21.48	21.37	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	23.42	23.50	23.30	24.00
		1	50	23.50	23.43	23.19	24.00
		1	99	23.61	23.49	23.37	24.00
		50	0	22.39	22.37	22.17	23.00
		50	25	22.43	22.32	22.23	23.00
		50	50	22.39	22.34	22.16	23.00
		100	0	22.53	22.43	22.33	23.00
	16QAM	1	0	22.61	22.61	22.42	23.00
		1	50	22.82	22.46	22.48	23.00
		1	99	22.75	22.57	22.44	23.00
		50	0	21.38	21.34	21.17	22.00
		50	25	21.49	21.35	21.23	22.00
		50	50	21.32	21.30	21.06	22.00
		100	0	21.57	21.44	21.35	22.00
LTE B7							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	19.95	19.62	19.81	20.50
		1	13	20.10	19.64	19.64	20.50
		1	24	20.06	19.74	19.67	20.50
		12	0	18.99	18.87	18.79	19.50
		12	6	18.68	18.78	19.00	19.50
		12	13	18.69	18.77	18.49	19.50
		25	0	18.79	18.58	18.67	19.50
	16QAM	1	0	18.71	18.58	18.45	19.50
		1	13	18.51	18.96	18.33	19.50
		1	24	18.79	18.80	18.34	19.50
		12	0	18.13	18.13	17.94	18.50

		12	6	17.77	17.91	17.77	18.50
		12	13	17.70	17.87	17.93	18.50
		25	0	17.60	18.00	17.79	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	19.71	19.88	19.57	20.50
		1	25	19.84	19.78	19.96	20.50
		1	49	20.04	20.06	19.57	20.50
		25	0	18.75	18.71	18.67	19.50
		25	13	18.92	19.04	19.02	19.50
		25	25	18.85	18.99	18.61	19.50
		50	0	18.95	19.04	18.77	19.50
	16QAM	1	0	18.97	18.80	18.59	19.50
		1	25	18.71	19.00	18.81	19.50
		1	49	18.55	18.72	18.60	19.50
		25	0	17.97	17.89	17.92	18.50
		25	13	18.09	17.85	17.89	18.50
		25	25	18.10	17.91	17.71	18.50
		50	0	17.92	17.98	17.81	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	19.83	19.58	19.65	20.50
		1	38	20.12	19.96	19.96	20.50
		1	74	20.02	19.82	19.87	20.50
		36	0	19.11	18.85	18.75	19.50
		36	18	18.96	18.70	18.86	19.50
		36	39	18.69	18.95	18.89	19.50
		75	0	18.87	18.74	18.93	19.50
	16QAM	1	0	18.91	18.76	18.57	19.50
		1	38	18.77	18.92	18.63	19.50
		1	74	18.71	19.02	18.52	19.50
		36	0	17.87	17.99	17.96	18.50
		36	18	17.79	17.91	17.91	18.50
		36	39	17.84	17.91	17.75	18.50
		75	0	17.78	18.00	17.97	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	19.87	19.68	19.73	20.50
		1	50	19.96	19.92	19.82	20.50
		1	99	19.86	19.90	19.75	20.50
		50	0	18.93	18.89	18.75	19.50
		50	25	18.86	18.82	18.82	19.50
		50	50	18.81	18.81	18.75	19.50

		100	0	18.83	18.82	18.75	19.50
	16QAM	1	0	18.79	18.68	18.59	19.50
		1	50	18.83	18.86	18.61	19.50
		1	99	18.73	18.84	18.62	19.50
		50	0	17.97	17.95	17.82	18.50
		50	25	17.89	17.91	17.83	18.50
		50	50	17.88	17.87	17.83	18.50
		100	0	17.88	17.86	17.79	18.50
LTE B12							
Sensor off & Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	23.29	23.07	23.25	24.00
		1	2	23.15	23.19	23.37	24.00
		1	5	23.30	23.19	23.39	24.00
		3	0	22.10	22.19	22.22	24.00
		3	2	22.18	22.12	22.36	24.00
		3	3	22.23	22.33	22.24	24.00
		6	0	22.32	22.42	22.51	23.00
	16QAM	1	0	22.66	22.48	22.75	23.00
		1	2	22.51	22.84	22.71	23.00
		1	5	22.83	22.77	22.64	23.00
		3	0	21.07	21.05	21.19	23.00
		3	2	21.36	21.27	21.40	23.00
		3	3	21.21	21.25	21.38	23.00
		6	0	21.52	21.24	21.36	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	23.39	23.11	23.37	24.00
		1	7	23.35	23.19	23.11	24.00
		1	14	23.48	23.19	23.45	24.00
		8	0	22.10	22.27	22.20	23.00
		8	4	22.46	22.14	22.40	23.00
		8	7	22.33	22.43	22.26	23.00
		15	0	22.28	22.22	22.23	23.00
	16QAM	1	0	22.64	22.52	22.53	23.00
		1	7	22.69	22.64	22.53	23.00
		1	14	22.55	22.59	22.56	23.00
		8	0	21.01	21.11	21.05	22.00
		8	4	21.34	21.19	21.46	22.00
		8	7	21.19	21.53	21.14	22.00
		15	0	21.38	21.44	21.32	22.00
Bandwidth	Modulation	RB	Offset	Channel/Frequency(MHz)			Tune-up

		Allocation		23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	23.27	23.15	23.25	24.00
		1	13	23.37	23.35	23.45	24.00
		1	24	23.50	23.33	23.27	24.00
		12	0	22.02	22.29	22.32	23.00
		12	6	22.34	22.38	22.28	23.00
		12	13	22.15	22.35	22.40	23.00
		25	0	22.28	22.16	22.23	23.00
	16QAM	1	0	22.68	22.60	22.57	23.00
		1	13	22.75	22.80	22.61	23.00
		1	24	22.59	22.61	22.72	23.00
		12	0	21.23	21.25	21.33	22.00
		12	6	21.14	21.37	21.34	22.00
		12	13	21.31	21.49	21.40	22.00
		25	0	21.40	21.42	21.44	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	23.23	23.17	23.19	24.00
		1	25	23.25	23.29	23.27	24.00
		1	49	23.34	23.23	23.23	24.00
		25	0	22.12	22.15	22.14	23.00
		25	13	22.24	22.20	22.28	23.00
		25	25	22.27	22.25	22.26	23.00
		50	0	22.38	22.26	22.35	23.00
	16QAM	1	0	22.58	22.52	22.63	23.00
		1	25	22.61	22.70	22.63	23.00
		1	49	22.67	22.71	22.70	23.00
		25	0	21.17	21.15	21.17	22.00
		25	13	21.26	21.21	21.28	22.00
		25	25	21.27	21.31	21.28	22.00
		50	0	21.40	21.32	21.36	22.00
LTE B13							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23205/779.5	23230/782	23255/784.5	
5MHz	QPSK	1	0	23.50	23.44	23.38	24.00
		1	13	23.50	23.48	23.44	24.00
		1	24	23.30	23.58	23.30	24.00
		12	0	22.25	22.35	22.29	23.00
		12	6	22.39	22.43	22.47	23.00
		12	13	22.36	22.34	22.56	23.00
		25	0	22.52	22.64	22.56	23.00
	16QAM	1	0	22.96	22.88	22.85	23.00

		1	13	22.73	22.77	22.75	23.00
		1	24	22.90	22.77	22.80	23.00
		12	0	21.34	21.52	21.46	22.00
		12	6	21.26	21.28	21.26	22.00
		12	13	21.63	21.43	21.41	22.00
		25	0	21.49	21.35	21.35	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	23230/782	/	
10MHz	QPSK	1	0	/	23.48	/	24.00
		1	25	/	23.46	/	24.00
		1	49	/	23.40	/	24.00
		25	0	/	22.37	/	23.00
		25	13	/	22.39	/	23.00
		25	25	/	22.42	/	23.00
		50	0	/	22.50	/	23.00
	16QAM	1	0	/	22.90	/	23.00
		1	25	/	22.77	/	23.00
		1	49	/	22.92	/	23.00
		25	0	/	21.36	/	22.00
		25	13	/	21.38	/	22.00
		25	25	/	21.45	/	22.00
		50	0	/	21.45	/	22.00
LTE B13							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23205/779.5	23230/782	23255/784.5	
5MHz	QPSK	1	0	21.55	21.51	21.47	22.00
		1	13	21.62	21.60	21.59	22.00
		1	24	21.47	21.52	21.49	22.00
		12	0	20.45	20.48	20.44	21.00
		12	6	20.56	20.51	20.52	21.00
		12	13	20.56	20.56	20.53	21.00
		25	0	20.56	20.44	20.51	21.00
	16QAM	1	0	20.74	20.76	20.88	21.00
		1	13	20.89	20.90	20.89	21.00
		1	24	20.69	20.81	20.85	21.00
		12	0	19.52	19.49	19.49	20.00
		12	6	19.61	19.49	19.60	20.00
		12	13	19.58	19.60	19.58	20.00
		25	0	19.60	19.49	19.52	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	23230/782	/	
10MHz	QPSK	1	0	/	21.54	/	22.00

		1	25	/	21.55	/	22.00
		1	49	/	21.44	/	22.00
		25	0	/	20.53	/	21.00
		25	13	/	20.51	/	21.00
		25	25	/	20.58	/	21.00
		50	0	/	20.58	/	21.00
		16QAM	1	0	/	20.99	/
	1		25	/	20.87	/	21.00
	1		49	/	20.92	/	21.00
	25		0	/	19.55	/	20.00
	25		13	/	19.56	/	20.00
	25		25	/	19.58	/	20.00
	50		0	/	19.56	/	20.00
LTE B14							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23305/790.5	23330/793	23355/795.5	
5MHz	QPSK	1	0	23.27	23.57	23.37	24.00
		1	13	23.43	23.39	23.21	24.00
		1	24	23.40	23.38	23.24	24.00
		12	0	22.20	22.28	22.32	23.00
		12	6	22.08	22.40	22.14	23.00
		12	13	22.48	22.30	22.24	23.00
		25	0	22.35	22.31	22.55	23.00
	16QAM	1	0	22.75	22.97	22.93	23.00
		1	13	22.81	22.55	22.91	23.00
		1	24	22.78	22.60	22.90	23.00
		12	0	21.50	21.22	21.14	22.00
		12	6	21.34	21.32	21.32	22.00
		12	13	21.45	21.19	21.49	22.00
		25	0	21.26	21.22	21.42	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
10MHz	QPSK	1	0	/	23.39	/	24.00
		1	25	/	23.33	/	24.00
		1	49	/	23.30	/	24.00
		25	0	/	22.28	/	23.00
		25	13	/	22.24	/	23.00
		25	25	/	22.34	/	23.00
		50	0	/	22.39	/	23.00
	16QAM	1	0	/	22.81	/	23.00
		1	25	/	22.69	/	23.00
		1	49	/	22.72	/	23.00

		25	0	/	21.30	/	22.00
		25	13	/	21.32	/	22.00
		25	25	/	21.37	/	22.00
		50	0	/	21.40	/	22.00
LTE B14							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23305/790.5	23330/793	23355/795.5	
5MHz	QPSK	1	0	21.44	21.46	21.49	22.00
		1	13	21.55	21.56	21.54	22.00
		1	24	21.46	21.45	21.44	22.00
		12	0	20.52	20.44	20.48	21.00
		12	6	20.58	20.42	20.49	21.00
		12	13	20.52	20.44	20.52	21.00
		25	0	20.49	20.45	20.51	21.00
	16QAM	1	0	20.69	20.74	20.86	21.00
		1	13	20.83	20.94	20.90	21.00
		1	24	20.88	20.74	20.76	21.00
		12	0	19.57	19.49	19.57	20.00
		12	6	19.61	19.47	19.54	20.00
		12	13	19.57	19.45	19.55	20.00
		25	0	19.54	19.48	19.51	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	23330/793	/	
10MHz	QPSK	1	0	/	21.49	/	22.00
		1	25	/	21.51	/	22.00
		1	49	/	21.40	/	22.00
		25	0	/	20.49	/	21.00
		25	13	/	20.49	/	21.00
		25	25	/	20.44	/	21.00
		50	0	/	20.56	/	21.00
	16QAM	1	0	/	20.90	/	21.00
		1	25	/	20.85	/	21.00
		1	49	/	20.78	/	21.00
		25	0	/	19.45	/	20.00
		25	13	/	19.49	/	20.00
		25	25	/	19.42	/	20.00
		50	0	/	19.56	/	20.00
LTE B26							
Sensor off & Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				26697/814.7	26740/819	26783/823.3	
1.4MHz	QPSK	1	0	23.82	24.02	23.88	24.50

		1	2	23.91	23.99	23.95	24.50
		1	5	24.01	23.81	24.01	24.50
		3	0	22.99	22.81	22.95	23.50
		3	2	23.08	23.10	22.98	23.50
		3	3	23.10	22.86	23.00	23.50
		6	0	23.08	23.18	23.02	23.50
	16QAM	1	0	23.20	23.04	23.04	23.50
		1	2	23.32	23.32	23.36	23.50
		1	5	23.26	23.40	23.26	23.50
		3	0	21.92	21.90	22.00	22.50
		3	2	21.93	21.85	21.95	22.50
		3	3	21.95	22.09	22.11	22.50
		6	0	22.13	22.11	22.13	22.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26705/815.5	26740/819	26775/822.5	
3MHz	QPSK	1	0	23.88	24.02	23.76	24.50
		1	7	23.79	23.95	23.79	24.50
		1	14	24.13	23.81	23.75	24.50
		8	0	22.75	22.71	22.87	23.50
		8	4	22.92	22.76	22.86	23.50
		8	7	22.94	22.94	22.80	23.50
		15	0	23.08	23.12	23.02	23.50
	16QAM	1	0	23.04	23.02	23.10	23.50
		1	7	23.30	23.30	23.22	23.50
		1	14	23.24	23.40	23.26	23.50
		8	0	21.72	21.94	22.12	22.50
		8	4	21.97	22.07	22.07	22.50
		8	7	22.19	22.09	21.85	22.50
		15	0	22.07	22.19	22.21	22.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26715/816.5	26740/819	26765/821.5	
5MHz	QPSK	1	0	23.86	24.04	23.92	24.50
		1	13	23.97	24.03	24.01	24.50
		1	24	24.09	23.97	24.03	24.50
		12	0	22.91	22.81	22.91	23.50
		12	6	22.96	22.84	23.06	23.50
		12	13	22.96	23.04	23.10	23.50
		25	0	23.18	22.96	23.20	23.50
	16QAM	1	0	23.02	23.06	23.24	23.50
		1	13	23.18	23.28	23.28	23.50
		1	24	23.38	23.32	23.28	23.50
		12	0	21.92	21.94	21.86	22.50
		12	6	21.85	22.09	21.81	22.50

		12	13	21.87	21.89	22.17	22.50
		25	0	22.01	21.95	22.11	22.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	26740/819	/	
10MHz	QPSK	1	0	/	23.88	/	24.50
		1	25	/	23.91	/	24.50
		1	49	/	23.91	/	24.50
		25	0	/	22.85	/	23.50
		25	13	/	22.94	/	23.50
		25	25	/	22.94	/	23.50
		50	0	/	23.06	/	23.50
	16QAM	1	0	/	23.14	/	23.50
		1	25	/	23.20	/	23.50
		1	49	/	23.32	/	23.50
		25	0	/	21.90	/	22.50
		25	13	/	21.93	/	22.50
		25	25	/	21.99	/	22.50
		50	0	/	22.07	/	22.50
LTE B26							
Sensor off & Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				26797/824.7	26915/836.5	27033/848.3	
1.4MHz	QPSK	1	0	23.62	23.19	23.19	24.00
		1	2	23.55	23.17	23.46	24.00
		1	5	23.52	23.35	23.34	24.00
		3	0	22.95	22.98	23.09	24.00
		3	2	23.11	22.90	23.17	24.00
		3	3	23.32	23.22	22.94	24.00
		6	0	22.41	22.42	22.10	23.50
	16QAM	1	0	22.37	22.48	22.64	23.50
		1	2	22.54	22.37	22.58	23.50
		1	5	22.30	22.52	22.36	23.50
		3	0	21.98	22.14	21.86	23.50
		3	2	22.35	22.16	21.96	23.50
		3	3	22.28	22.05	21.82	23.50
		6	0	21.17	21.19	21.26	22.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26915/836.5	26915/836.5	27025/847.5	
3MHz	QPSK	1	0	23.52	23.31	23.23	24.50
		1	7	23.35	23.35	23.20	24.50
		1	14	23.44	23.31	23.26	24.50
		8	0	22.27	22.28	22.25	23.50
		8	4	22.27	22.18	22.19	23.50

		8	7	22.16	22.18	22.26	23.50
		15	0	22.29	22.32	22.12	23.50
	16QAM	1	0	22.49	22.68	22.54	23.50
		1	7	22.42	22.45	22.52	23.50
		1	14	22.46	22.40	22.32	23.50
		8	0	21.20	21.18	21.28	22.50
		8	4	21.31	21.10	21.08	22.50
		8	7	21.18	21.23	21.10	22.50
		15	0	21.37	21.15	21.14	22.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26815/826.5	26915/836.5	27015/846.5	
5MHz	QPSK	1	0	23.56	23.31	23.25	24.50
		1	13	23.25	23.25	23.26	24.50
		1	24	23.20	23.25	23.08	24.50
		12	0	22.05	22.10	22.17	23.50
		12	6	22.49	22.24	22.03	23.50
		12	13	22.48	22.40	22.06	23.50
		25	0	22.19	22.30	22.04	23.50
	16QAM	1	0	22.37	22.56	22.42	23.50
		1	13	22.66	22.61	22.40	23.50
		1	24	22.32	22.52	22.22	23.50
		12	0	21.08	21.20	21.06	22.50
		12	6	21.23	21.08	21.18	22.50
		12	13	21.14	21.11	21.20	22.50
		25	0	21.51	21.07	21.12	22.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26840/829	26915/836.5	26990/844	
10MHz	QPSK	1	0	23.60	23.35	23.33	24.50
		1	25	23.35	23.45	23.34	24.50
		1	49	23.48	23.13	23.06	24.50
		25	0	22.37	22.28	22.19	23.50
		25	13	22.27	22.12	22.33	23.50
		25	25	22.30	22.26	22.34	23.50
		50	0	22.51	22.14	22.28	23.50
	16QAM	1	0	22.39	22.50	22.38	23.50
		1	25	22.34	22.71	22.42	23.50
		1	49	22.56	22.42	22.32	23.50
		25	0	21.38	21.10	21.18	22.50
		25	13	21.33	21.22	21.28	22.50
		25	25	21.38	21.07	21.08	22.50
		50	0	21.29	21.21	21.14	22.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26865/831.5	26915/836.5	26965/841.5	

15MHz	QPSK	1	0	23.44	23.35	23.29	24.50
		1	38	23.31	23.29	23.26	24.50
		1	74	23.32	23.21	23.12	24.50
		36	0	22.21	22.20	22.13	23.50
		36	18	22.27	22.16	22.15	23.50
		36	39	22.26	22.20	22.18	23.50
		75	0	22.33	22.24	22.20	23.50
	16QAM	1	0	22.51	22.58	22.48	23.50
		1	38	22.46	22.53	22.48	23.50
		1	74	22.40	22.40	22.34	23.50
		36	0	21.22	21.22	21.12	22.50
		36	18	21.27	21.18	21.12	22.50
		36	39	21.28	21.17	21.14	22.50
		75	0	21.33	21.25	21.18	22.50
LTE B30							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				27685/2307.5	27710/2310	27735/2312.5	
5MHz	QPSK	1	0	23.21	22.97	23.03	24.00
		1	13	23.11	23.23	23.09	24.00
		1	24	23.11	22.85	22.99	24.00
		12	0	22.00	22.04	22.22	23.00
		12	6	22.14	22.18	22.18	23.00
		12	13	22.11	21.89	22.13	23.00
		25	0	22.06	22.24	22.04	23.00
	16QAM	1	0	22.44	22.58	22.40	23.00
		1	13	22.33	22.55	22.45	23.00
		1	24	22.29	22.47	22.41	23.00
		12	0	21.02	21.06	21.14	22.00
		12	6	20.98	21.10	21.16	22.00
		12	13	20.89	21.07	21.05	22.00
		25	0	21.13	21.17	21.27	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	27710/2310	/	
10MHz	QPSK	1	0	/	23.05	/	24.00
		1	25	/	23.05	/	24.00
		1	49	/	22.95	/	24.00
		25	0	/	22.08	/	23.00
		25	13	/	22.02	/	23.00
		25	25	/	21.99	/	23.00
		50	0	/	22.10	/	23.00
	16QAM	1	0	/	22.40	/	23.00
		1	25	/	22.45	/	23.00

		1	49	/	22.41	/	23.00
		25	0	/	21.10	/	22.00
		25	13	/	21.08	/	22.00
		25	25	/	21.01	/	22.00
		50	0	/	21.11	/	22.00
LTE B30							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				27685/2307.5	27710/2310	27735/2312.5	
5MHz	QPSK	1	0	20.32	20.29	20.32	21.00
		1	13	20.37	20.39	20.30	21.00
		1	24	20.30	20.30	20.23	21.00
		12	0	19.36	19.34	19.34	20.00
		12	6	19.30	19.29	19.28	20.00
		12	13	19.25	19.25	19.23	20.00
		25	0	19.25	19.26	19.32	20.00
	16QAM	1	0	19.60	19.61	19.48	20.00
		1	13	19.75	19.72	19.69	20.00
		1	24	19.50	19.54	19.59	20.00
		12	0	18.41	18.45	18.37	19.00
		12	6	18.36	18.36	18.38	19.00
		12	13	18.30	18.32	18.27	19.00
		25	0	18.28	18.32	18.35	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	27710/2310	/	
10MHz	QPSK	1	0	/	20.30	/	21.00
		1	25	/	20.34	/	21.00
		1	49	/	20.27	/	21.00
		25	0	/	19.35	/	20.00
		25	13	/	19.27	/	20.00
		25	25	/	19.30	/	20.00
		50	0	/	19.41	/	20.00
	16QAM	1	0	/	19.70	/	20.00
		1	25	/	19.62	/	20.00
		1	49	/	19.71	/	20.00
		25	0	/	18.35	/	19.00
		25	13	/	17.85	/	19.00
		25	25	/	17.82	/	19.00
		50	0	/	17.97	/	19.00

LTE B41						
Sensor off				Maximum Output Power (dBm)		Tune-up
Bandwidth	Modulation	RB	Offset	Channel/Frequency(MHz)		

		Allocation		39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	23.30	23.06	23.17	23.01	23.02	24.00
		1	13	23.09	23.17	23.07	23.10	23.09	24.00
		1	24	23.13	23.21	22.98	22.96	22.89	24.00
		12	0	22.25	22.21	22.14	22.03	22.36	23.00
		12	6	22.43	22.51	22.35	22.32	22.37	23.00
		12	13	22.34	22.29	22.14	22.17	22.00	23.00
		25	0	22.44	22.37	22.38	22.23	22.52	23.00
	16QAM	1	0	22.33	22.26	22.15	22.06	22.23	23.00
		1	13	22.28	22.46	22.24	22.25	21.98	23.00
		1	24	22.30	22.36	22.41	22.08	21.84	23.00
		12	0	21.36	21.39	21.31	21.05	21.18	22.00
		12	6	21.39	21.29	21.29	21.32	21.15	22.00
		12	13	21.37	21.35	21.16	21.02	21.12	22.00
		25	0	21.37	21.38	21.44	21.46	21.40	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	22.98	23.34	23.19	22.73	23.02	24.00
		1	25	23.01	23.17	23.21	22.82	22.87	24.00
		1	49	23.41	23.13	23.14	23.10	23.03	24.00
		25	0	22.27	22.17	22.08	22.27	22.34	23.00
		25	13	22.43	22.55	22.25	22.04	22.45	23.00
		25	25	22.26	22.43	22.24	22.25	22.12	23.00
		50	0	22.58	22.49	22.46	22.21	22.46	23.00
	16QAM	1	0	22.15	22.36	22.09	21.94	22.01	23.00
		1	25	22.28	22.46	22.16	22.37	22.10	23.00
		1	49	22.36	22.26	22.39	21.84	22.02	23.00
		25	0	21.46	21.23	21.41	20.97	21.24	22.00
		25	13	21.29	21.41	21.05	21.34	21.13	22.00
		25	25	21.29	21.09	21.34	21.02	21.12	22.00
		50	0	21.39	21.60	21.32	21.24	21.58	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	23.18	23.28	22.99	22.83	23.16	24.00
		1	38	23.13	23.23	23.25	22.94	23.15	24.00
		1	74	23.23	23.35	23.10	22.90	22.91	24.00
		36	0	22.23	22.47	22.30	22.11	22.20	23.00
		36	18	22.53	22.35	22.21	22.16	22.35	23.00
		36	39	22.34	22.29	22.20	22.11	21.96	23.00
		75	0	22.40	22.45	22.46	22.23	22.52	23.00
	16QAM	1	0	22.21	22.48	22.31	22.00	22.37	23.00
		1	38	22.28	22.48	22.22	22.27	22.08	23.00
		1	74	22.12	22.40	22.15	22.04	21.92	23.00

		36	0	21.16	21.19	21.29	21.05	21.32	22.00
		36	18	21.35	21.51	21.15	21.08	21.43	22.00
		36	39	21.19	21.29	21.02	21.06	21.24	22.00
		75	0	21.47	21.54	21.36	21.46	21.38	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	23.16	23.14	23.03	22.91	22.98	24.00
		1	50	23.15	23.17	23.07	22.96	22.99	24.00
		1	99	23.19	23.19	23.00	22.94	22.97	24.00
		50	0	22.29	22.31	22.20	22.11	22.20	23.00
		50	25	22.37	22.35	22.21	22.16	22.25	23.00
		50	50	22.18	22.25	22.12	22.07	22.08	23.00
		100	0	22.48	22.47	22.30	22.29	22.36	23.00
	16QAM	1	0	22.23	22.32	22.19	22.04	22.19	23.00
		1	50	22.34	22.32	22.16	22.19	22.06	23.00
		1	99	22.14	22.36	22.25	21.98	21.86	23.00
		50	0	21.28	21.27	21.19	21.13	21.22	22.00
		50	25	21.41	21.33	21.19	21.18	21.25	22.00
		50	50	21.23	21.21	21.14	21.06	21.12	22.00
		100	0	21.45	21.46	21.30	21.30	21.36	22.00
LTE B41									
Sensor on				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	20.09	20.04	20.02	19.91	19.85	20.50
		1	13	20.14	20.07	20.05	19.96	19.88	20.50
		1	24	20.05	20.07	19.97	19.88	19.82	20.50
		12	0	19.11	19.14	19.07	18.94	18.86	19.50
		12	6	19.05	19.17	19.05	18.96	18.91	19.50
		12	13	19.00	19.14	18.96	18.94	18.87	19.50
		25	0	19.04	19.14	18.98	18.95	18.88	19.50
	16QAM	1	0	19.10	19.09	18.89	18.97	18.77	19.50
		1	13	19.10	19.16	19.22	18.98	18.73	19.50
		1	24	19.17	19.16	19.04	18.82	18.73	19.50
		12	0	18.12	18.18	18.02	17.96	17.89	19.50
		12	6	18.12	18.14	18.03	17.89	17.89	18.50
		12	13	18.09	18.10	17.96	17.95	17.87	18.50
		25	0	18.05	18.16	17.95	17.98	17.93	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	20.05	20.07	19.97	19.91	19.86	20.50
		1	25	20.05	20.05	19.98	19.93	19.91	20.50
		1	49	20.04	20.03	19.97	19.91	19.82	20.50

		25	0	19.14	19.14	19.05	18.96	18.93	19.50
		25	13	19.18	19.19	19.00	18.98	18.95	19.50
		25	25	19.07	19.07	18.98	18.96	18.89	19.50
		50	0	19.25	19.25	19.07	19.09	19.01	19.50
	16QAM	1	0	19.14	19.04	19.19	18.93	18.85	19.50
		1	25	19.17	19.10	19.01	18.97	18.84	19.50
		1	49	19.05	19.09	19.03	18.88	18.77	19.50
		25	0	18.14	18.19	18.11	17.98	17.96	19.50
		25	13	18.16	18.20	18.05	18.00	17.95	18.50
		25	25	18.14	18.13	18.05	17.98	17.94	18.50
		50	0	18.27	18.26	18.07	18.10	18.01	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	20.01	20.09	19.96	19.89	19.80	20.50
		1	38	20.05	20.10	20.00	19.89	19.80	20.50
		1	74	20.05	20.10	20.01	19.87	19.76	20.50
		36	0	19.09	19.13	18.96	18.92	18.88	19.50
		36	18	19.02	18.98	18.89	18.95	18.89	19.50
		36	39	18.97	19.02	18.84	18.95	18.76	19.50
		75	0	19.18	19.18	19.04	19.07	19.02	19.50
	16QAM	1	0	18.98	19.07	19.00	18.87	18.92	19.50
		1	38	19.07	19.12	19.00	18.89	18.91	19.50
		1	74	19.04	19.05	19.04	18.89	18.82	19.50
		36	0	18.14	18.14	18.09	18.02	17.94	19.50
		36	18	18.11	18.13	18.04	18.01	17.89	18.50
		36	39	18.10	18.12	18.04	18.01	17.88	18.50
		75	0	18.14	18.18	18.07	18.05	18.05	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	20.03	20.05	19.93	19.82	19.80	20.50
		1	50	20.07	20.01	19.98	19.85	19.79	20.50
		1	99	20.05	20.05	19.95	19.85	19.75	20.50
		50	0	19.11	19.16	19.04	18.89	18.89	19.50
		50	25	19.25	19.14	19.04	19.05	18.98	19.50
		50	50	19.09	19.01	18.98	18.88	18.84	19.50
		100	0	19.34	19.28	19.14	19.17	19.12	19.50
	16QAM	1	0	19.18	19.29	18.98	18.88	18.98	19.50
		1	50	19.02	18.98	19.02	18.89	18.89	19.50
		1	99	19.05	19.22	18.98	19.03	18.87	19.50
		50	0	18.23	18.22	18.19	18.07	18.03	19.50
		50	25	18.23	18.14	18.07	18.07	18.03	18.50
		50	50	18.20	18.11	18.12	18.05	17.95	18.50
		100	0	18.35	18.27	18.14	18.17	18.10	18.50

LTE B42							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				41615/3402.5	42590/3500	43565/3597.5	
5MHz	QPSK	1	0	23.33	23.27	23.14	24.00
		1	13	23.42	23.13	23.14	24.00
		1	24	23.59	23.30	23.17	24.00
		12	0	22.60	22.45	22.43	23.00
		12	6	22.61	22.53	22.46	23.00
		12	13	22.39	22.20	22.47	23.00
		25	0	22.61	22.61	22.60	23.00
	16QAM	1	0	22.53	22.25	22.23	23.00
		1	13	22.46	22.30	22.12	23.00
		1	24	22.68	22.39	22.31	23.00
		12	0	21.46	21.50	21.22	22.00
		12	6	21.44	21.46	21.36	22.00
		12	13	21.40	21.33	21.27	22.00
		25	0	21.75	21.47	21.60	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				41640/3405	42590/3500	43540/3595	
10MHz	QPSK	1	0	23.35	23.45	23.00	24.00
		1	25	23.44	23.27	23.18	24.00
		1	49	23.35	23.24	23.19	24.00
		25	0	22.48	22.37	22.19	23.00
		25	13	22.49	22.33	22.36	23.00
		25	25	22.47	22.46	22.35	23.00
		50	0	22.65	22.67	22.32	23.00
	16QAM	1	0	22.61	22.37	22.33	23.00
		1	25	22.36	22.14	22.22	23.00
		1	49	22.64	22.39	22.05	23.00
		25	0	21.42	21.16	21.18	22.00
		25	13	21.36	21.38	21.44	22.00
		25	25	21.34	21.25	21.37	22.00
		50	0	21.57	21.69	21.62	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				41665/3407.5	42590/3500	43515/3592.5	
15MHz	QPSK	1	0	23.37	23.19	23.02	24.00
		1	38	23.60	23.17	23.08	24.00
		1	74	23.35	23.32	23.15	24.00
		36	0	22.58	22.45	22.37	23.00
		36	18	22.63	22.37	22.46	23.00
		36	39	22.33	22.48	22.27	23.00
		75	0	22.79	22.63	22.52	23.00

	16QAM	1	0	22.57	22.19	22.35	23.00
		1	38	22.62	22.48	22.24	23.00
		1	74	22.40	22.15	22.37	23.00
		36	0	21.68	21.44	21.30	22.00
		36	18	21.46	21.62	21.38	22.00
		36	39	21.38	21.43	21.49	22.00
		75	0	21.61	21.53	21.50	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				41690/3410	42590/3500	43490/3590	
20MHz	QPSK	1	0	23.43	23.23	23.10	24.00
		1	50	23.42	23.17	23.12	24.00
		1	99	23.43	23.26	23.11	24.00
		50	0	22.50	22.35	22.29	23.00
		50	25	22.55	22.43	22.34	23.00
		50	50	22.41	22.30	22.35	23.00
		100	0	22.67	22.53	22.46	23.00
	16QAM	1	0	22.39	22.29	22.27	23.00
		1	50	22.44	22.32	22.22	23.00
		1	99	22.52	22.25	22.23	23.00
		50	0	21.50	21.34	21.30	22.00
		50	25	21.54	21.46	21.38	22.00
		50	50	21.40	21.29	21.31	22.00
		100	0	21.67	21.55	21.48	22.00
LTE B42							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				41615/3402.5	42590/3500	43565/3597.5	
5MHz	QPSK	1	0	20.43	20.46	19.93	21.50
		1	13	20.50	20.54	19.93	21.50
		1	24	20.42	20.42	19.89	21.50
		12	0	19.36	19.43	18.92	20.50
		12	6	19.34	19.43	18.91	20.50
		12	13	19.34	19.34	18.87	20.50
		25	0	19.34	19.34	18.92	20.50
	16QAM	1	0	19.64	19.68	19.18	20.50
		1	13	19.70	19.84	19.21	20.50
		1	24	19.52	19.71	19.12	20.50
		12	0	18.41	18.52	17.97	19.50
		12	6	18.40	18.49	17.95	19.50
		12	13	18.41	18.38	17.95	19.50
		25	0	18.39	18.36	17.96	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				41640/3405	42590/3500	43540/3595	

10MHz	QPSK	1	0	20.45	20.55	19.97	21.50
		1	25	20.39	20.52	19.91	21.50
		1	49	20.39	20.40	19.84	21.50
		25	0	19.40	19.49	18.91	20.50
		25	13	19.41	19.42	18.93	20.50
		25	25	19.38	19.36	18.84	20.50
		50	0	19.49	19.47	19.02	20.50
	16QAM	1	0	19.61	19.80	19.16	20.50
		1	25	19.71	19.68	19.20	20.50
		1	49	19.66	19.70	19.09	20.50
		25	0	18.39	18.50	17.97	19.50
		25	13	18.43	18.43	17.96	19.50
		25	25	18.41	18.33	17.90	19.50
		50	0	18.52	18.49	18.05	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				41665/3407.5	42590/3500	43515/3592.5	
15MHz	QPSK	1	0	20.49	20.54	20.31	21.50
		1	38	20.45	20.67	20.24	21.50
		1	74	20.59	20.68	19.93	21.50
		36	0	19.38	19.49	18.98	20.50
		36	18	19.38	19.40	18.97	20.50
		36	39	19.20	19.34	18.83	20.50
		75	0	19.38	19.45	19.06	20.50
	16QAM	1	0	19.59	19.79	19.43	20.50
		1	38	19.65	19.84	19.22	20.50
		1	74	19.52	19.68	19.14	20.50
		36	0	18.43	18.43	18.05	19.50
		36	18	18.40	18.43	17.96	19.50
		36	39	18.29	18.34	17.71	19.50
		75	0	18.43	18.48	18.05	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				41690/3410	42590/3500	43490/3590	
20MHz	QPSK	1	0	20.49	20.82	20.27	21.50
		1	50	20.50	20.70	20.43	21.50
		1	99	20.48	20.62	20.06	21.50
		50	0	19.43	19.49	19.09	20.50
		50	25	19.41	19.48	19.11	20.50
		50	50	19.30	19.42	18.84	20.50
		100	0	19.49	19.62	19.18	20.50
	16QAM	1	0	19.65	19.79	19.33	20.50
		1	50	19.64	19.80	19.34	20.50
		1	99	19.67	19.75	19.12	20.50
		50	0	18.43	18.52	18.09	19.50

		50	25	18.41	18.50	18.11	19.50
		50	50	18.34	18.40	17.87	19.50
		100	0	18.49	18.59	18.18	19.50
LTE B66							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	23.49	23.75	23.25	24.00
		1	2	23.75	23.81	23.33	24.00
		1	5	23.48	23.76	23.19	24.00
		3	0	22.91	23.78	23.37	24.00
		3	2	23.11	23.65	22.96	24.00
		3	3	23.08	23.38	23.26	24.00
		6	0	22.64	22.52	22.56	23.00
	16QAM	1	0	22.52	22.58	22.52	23.00
		1	2	22.64	22.62	22.47	23.00
		1	5	22.36	22.64	22.22	23.00
		3	0	22.15	22.24	22.36	23.00
		3	2	22.32	22.45	22.46	23.00
		3	3	22.42	22.20	22.02	23.00
		6	0	21.42	21.86	21.35	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	23.27	23.57	23.25	24.00
		1	7	23.71	23.63	23.53	24.00
		1	14	23.38	23.38	23.53	24.00
		8	0	22.07	22.87	22.25	23.00
		8	4	22.53	22.51	22.06	23.00
		8	7	22.42	22.40	22.22	23.00
		15	0	22.28	22.56	22.64	23.00
	16QAM	1	0	22.58	22.62	22.74	23.00
		1	7	22.66	22.80	22.41	23.00
		1	14	22.44	22.48	22.42	23.00
		8	0	21.47	21.64	21.40	22.00
		8	4	21.54	21.53	21.18	22.00
		8	7	21.52	21.34	21.44	22.00
		15	0	21.40	21.80	21.51	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	23.31	23.71	23.31	24.00
		1	13	23.69	23.59	23.29	24.00
		1	24	23.34	23.52	23.25	24.00
		12	0	22.05	22.76	22.45	23.00

		12	6	22.45	22.69	22.14	23.00
		12	13	22.34	22.46	22.30	23.00
		25	0	22.58	22.56	22.38	23.00
	16QAM	1	0	22.28	22.76	22.64	23.00
		1	13	22.48	22.62	22.49	23.00
		1	24	22.56	22.84	22.52	23.00
		12	0	21.37	21.50	21.40	22.00
		12	6	21.44	21.61	21.58	22.00
		12	13	21.44	21.32	21.24	22.00
		25	0	21.32	21.70	21.39	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	23.59	23.83	23.47	24.00
		1	25	23.77	23.45	23.55	24.00
		1	49	23.38	23.50	23.19	24.00
		25	0	22.09	22.72	22.51	23.00
		25	13	22.63	22.81	22.38	23.00
		25	25	22.26	22.46	22.30	23.00
		50	0	22.48	22.58	22.32	23.00
	16QAM	1	0	22.44	22.78	22.68	23.00
		1	25	22.58	22.80	22.57	23.00
		1	49	22.42	22.88	22.20	23.00
		25	0	21.21	21.74	21.34	22.00
		25	13	21.44	21.67	21.36	22.00
		25	25	21.36	21.42	21.22	22.00
		50	0	21.26	21.70	21.47	22.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	23.49	23.65	23.27	24.00
		1	38	23.65	23.63	23.49	24.00
		1	74	23.26	23.46	23.39	24.00
		36	0	22.09	22.82	22.33	23.00
		36	18	22.47	22.87	22.30	23.00
		36	39	22.30	22.54	22.34	23.00
		75	0	22.32	22.52	22.38	23.00
	16QAM	1	0	22.36	22.82	22.60	23.00
		1	38	22.66	22.82	22.43	23.00
		1	74	22.34	22.76	22.56	23.00
		36	0	21.23	21.68	21.50	22.00
		36	18	21.48	21.77	21.42	22.00
		36	39	21.52	21.54	21.28	22.00
		75	0	21.32	21.66	21.53	22.00
Bandwidth	Modulation	RB	Offset	Channel/Frequency(MHz)			Tune-up

		Allocation		132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	23.37	23.69	23.25	24.00
		1	50	23.63	23.59	23.33	24.00
		1	99	23.36	23.52	23.29	24.00
		50	0	22.13	22.86	22.29	23.00
		50	25	22.41	22.75	22.16	23.00
		50	50	22.32	22.36	22.22	23.00
		100	0	22.42	22.50	22.44	23.00
	16QAM	1	0	22.36	22.68	22.64	23.00
		1	50	22.54	22.64	22.49	23.00
		1	99	22.42	22.68	22.38	23.00
		50	0	21.31	21.56	21.40	22.00
		50	25	21.42	21.71	21.42	22.00
		50	50	21.34	21.40	21.22	22.00
		100	0	21.40	21.68	21.47	22.00
LTE B66							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	19.46	19.43	19.48	20.50
		1	2	18.81	19.60	19.29	20.50
		1	5	18.87	19.57	19.42	20.50
		3	0	18.74	19.01	19.31	20.50
		3	2	19.05	19.43	18.90	20.50
		3	3	19.21	19.02	19.02	20.50
		6	0	17.85	18.51	17.99	19.50
	16QAM	1	0	18.34	18.45	18.96	19.50
		1	2	18.81	19.08	18.80	19.50
		1	5	18.16	18.45	17.96	19.50
		3	0	18.50	18.42	18.53	19.50
		3	2	18.72	18.69	18.29	19.50
		3	3	18.31	18.57	18.17	19.50
		6	0	17.68	17.31	17.29	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	19.50	19.33	19.38	20.50
		1	7	18.83	19.46	19.31	20.50
		1	14	18.77	19.41	19.48	20.50
		8	0	18.30	17.87	18.13	19.50
		8	4	17.85	18.39	17.90	19.50
		8	7	18.23	17.86	18.06	19.50
		15	0	17.73	18.75	17.83	19.50
		16QAM	1	0	18.22	18.51	18.78

		1	7	18.61	18.88	18.68	19.50
		1	14	18.04	18.07	17.88	19.50
		8	0	17.58	17.60	17.49	18.50
		8	4	17.96	17.93	17.49	18.50
		8	7	16.95	17.37	16.97	18.50
		15	0	17.74	17.57	17.23	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	19.24	19.51	19.20	20.50
		1	13	19.01	19.52	19.01	20.50
		1	24	18.67	19.43	19.28	20.50
		12	0	18.02	17.95	18.39	19.50
		12	6	18.07	18.35	17.92	19.50
		12	13	18.35	18.14	18.30	19.50
		25	0	18.03	18.47	18.09	19.50
	16QAM	1	0	18.36	18.55	18.78	19.50
		1	13	18.71	18.88	18.60	19.50
		1	24	18.04	18.27	18.10	19.50
		12	0	17.80	17.82	17.61	18.50
		12	6	17.74	17.61	17.39	18.50
		12	13	17.27	17.75	17.17	18.50
		25	0	17.88	17.49	17.55	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	19.32	19.47	19.16	20.50
		1	25	19.07	19.32	19.15	20.50
		1	49	18.75	19.45	19.30	20.50
		25	0	18.18	17.89	18.37	19.50
		25	13	18.05	18.57	17.76	19.50
		25	25	18.59	17.94	18.38	19.50
		50	0	17.83	18.67	18.07	19.50
	16QAM	1	0	18.30	18.49	18.62	19.50
		1	25	18.75	18.96	18.88	19.50
		1	49	18.18	18.29	18.02	19.50
		25	0	17.74	17.50	17.43	18.50
		25	13	17.68	17.69	17.13	18.50
		25	25	17.31	17.87	17.33	18.50
		50	0	17.70	17.59	17.37	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	19.22	19.45	19.32	20.50
		1	38	18.81	19.34	19.27	20.50
		1	74	18.77	19.55	19.46	20.50

		36	0	18.08	17.83	18.31	19.50
		36	18	18.09	18.61	17.86	19.50
		36	39	18.41	17.88	18.30	19.50
		75	0	18.17	18.57	18.07	19.50
	16QAM	1	0	18.42	18.69	18.88	19.50
		1	38	18.73	18.90	18.82	19.50
		1	74	17.94	18.39	18.14	19.50
		36	0	17.60	17.64	17.53	18.50
		36	18	17.78	17.79	17.11	18.50
		36	39	17.19	17.73	17.11	18.50
		75	0	17.72	17.53	17.43	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	19.51	19.63	19.50	20.50
		1	50	19.07	19.58	19.29	20.50
		1	99	18.83	19.57	19.54	20.50
		50	0	18.18	18.15	18.57	19.50
		50	25	18.17	18.65	18.14	19.50
		50	50	18.57	18.18	18.50	19.50
		100	0	18.21	18.77	18.23	19.50
	16QAM	1	0	18.46	18.77	18.96	19.50
		1	50	18.91	19.08	18.86	19.50
		1	99	18.18	18.49	18.22	19.50
		50	0	17.88	17.88	17.79	18.50
		50	25	17.86	17.91	17.43	18.50
		50	50	17.45	17.93	17.33	18.50
		100	0	18.02	17.57	17.63	18.50

9.2 NR(SA) Mode

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS 138.521-1 specification.

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 and Table 6.2.2-2 and Table 6.2.2.3-2 of the 3GPP TS138.521-1.

Table 6.2.2.3-1: Maximum Power Reduction (MPR) for Power 3

Modulation	MPR (dB)		
	Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
	$\leq 0.5^2$		0^2
DFT-s-OFDM QPSK	≤ 1		0
DFT-s-OFDM 16 QAM	≤ 2		≤ 1
DFT-s-OFDM 64 QAM		≤ 2.5	
DFT-s-OFDM 256 QAM		≤ 4.5	
CP-OFDM QPSK	≤ 3		≤ 1.5
CP-OFDM 16 QAM	≤ 3		≤ 2
CP-OFDM 64 QAM		≤ 3.5	
CP-OFDM 256 QAM		≤ 6.5	
NOTE 1: Applicable for UE operating in TDD mode with PI/2 BPSK modulation and UE indicates support for UE capability <i>powerBoosting-pi2BPSK</i> and if the IE <i>powerBoostPi2BPSK</i> is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0dB MPR is 26dBm.			
NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 and if the IE <i>powerBoostPi2BPSK</i> is set to 0 and if more than 40% of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.			

The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS138.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

Table 6.2.3.3.1-1: Additional maximum power reduction (A-MPR)

Network Signalling label	Requirements (subclause)	NR Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01		Table 5.2-1	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Table 5.3.2-1	N/A

n2							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376000/1880	381500/1907.5	
5MHz	DFT-s-OFDM BPSK	1	1	23.85	23.96	23.49	24.50
		1	23	23.45	23.43	23.34	24.50
		12	6	23.84	23.92	23.18	24.50
		25	0	23.44	23.16	22.95	24.00
	DFT-s-OFDM QPSK	1	1	24.08	23.75	23.61	24.50
		1	23	24.04	23.37	23.31	24.50
		12	6	23.75	23.81	23.09	24.50
		25	0	22.89	22.82	22.05	23.50
	DFT-s-OFDM 16QAM	1	1	22.79	22.45	22.40	23.50
	DFT-s-OFDM 64QAM	1	1	21.25	21.40	21.46	22.00
	DFT-s-OFDM 256QAM	1	1	19.23	19.33	19.21	20.00
	CP-OFDM QPSK	1	1	22.09	22.27	22.15	23.00
	CP-OFDM 16QAM	1	1	22.36	22.33	21.81	22.50
	CP-OFDM 64QAM	1	1	20.29	19.99	19.62	21.00
CP-OFDM 256QAM	1	1	17.52	17.51	17.07	18.00	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	23.69	23.80	23.37	24.50
		1	50	23.71	23.55	23.60	24.50
		25	12	23.82	23.76	23.14	24.50
		50	0	23.40	23.56	23.03	24.00
	DFT-s-OFDM QPSK	1	1	23.88	23.81	23.33	24.50
		1	50	23.82	23.63	23.19	24.50
		25	12	23.61	24.03	23.13	24.50
		50	0	22.87	23.02	22.09	23.50
	DFT-s-OFDM 16QAM	1	1	22.65	22.77	22.34	23.50
	DFT-s-OFDM 64QAM	1	1	21.49	21.34	21.18	22.00
	DFT-s-OFDM 256QAM	1	1	19.55	19.41	19.15	20.00
	CP-OFDM QPSK	1	1	22.27	22.31	22.13	23.00
	CP-OFDM 16QAM	1	1	22.32	22.33	21.97	22.50
	CP-OFDM 64QAM	1	1	20.33	20.21	19.78	21.00
	CP-OFDM 256QAM	1	1	17.40	17.43	17.15	18.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376000/1880	380500/1902.5	
15MHz	DFT-s-OFDM BPSK	1	1	23.89	23.74	23.35	24.50
		1	77	23.67	23.71	23.44	24.50
		36	18	23.86	23.82	23.26	24.50
		75	0	23.12	23.32	23.29	24.00
	DFT-s-OFDM QPSK	1	1	23.66	23.89	23.35	24.50
		1	77	23.88	23.47	23.45	24.50
		36	18	23.59	23.83	23.33	24.50
		75	0	22.99	22.82	22.25	23.50
	DFT-s-OFDM 16QAM	1	1	22.87	22.85	22.40	23.50
	DFT-s-OFDM 64QAM	1	1	21.49	21.52	21.30	22.00
	DFT-s-OFDM 256QAM	1	1	19.63	19.21	19.07	20.00
	CP-OFDM QPSK	1	1	22.15	22.33	22.09	23.00
	CP-OFDM 16QAM	1	1	22.40	22.19	21.75	22.50
	CP-OFDM 64QAM	1	1	20.41	19.95	19.72	21.00
	CP-OFDM 256QAM	1	1	17.60	17.31	17.21	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	23.85	23.66	23.49	24.50
		1	104	23.65	23.59	23.70	24.50
		50	25	23.64	23.82	23.22	24.50
		100	0	23.30	23.30	23.13	24.00
	DFT-s-OFDM QPSK	1	1	23.90	23.69	23.29	24.50
		1	104	23.68	23.41	23.35	24.50
		50	25	23.85	23.91	23.03	24.50
		100	0	22.95	22.90	22.17	23.50
	DFT-s-OFDM 16QAM	1	1	22.69	22.73	22.44	23.50
	DFT-s-OFDM 64QAM	1	1	21.53	21.44	21.30	22.00
	DFT-s-OFDM 256QAM	1	1	19.39	19.51	19.03	20.00
	CP-OFDM QPSK	1	1	22.45	22.23	21.99	23.00
	CP-OFDM 16QAM	1	1	22.36	22.07	21.75	22.50
	CP-OFDM 64QAM	1	1	20.13	20.27	19.66	21.00
	CP-OFDM 256QAM	1	1	17.56	17.55	17.23	18.00
n2							
Sensor on				Maximum Output Power (dBm)			Tune-up

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376000/1880	381500/1907.5	
5MHz	DFT-s-OFDM BPSK	1	1	19.26	19.23	19.36	20.50
		1	23	19.44	19.34	19.65	20.50
		12	6	19.33	19.37	19.17	20.50
		25	0	18.87	18.87	18.76	20.50
	DFT-s-OFDM QPSK	1	1	19.63	19.28	19.22	20.50
		1	23	19.41	19.04	19.30	20.50
		12	6	19.54	19.74	18.82	20.50
		25	0	19.60	19.33	18.92	20.50
	DFT-s-OFDM 16QAM	1	1	19.44	19.36	19.33	20.50
	DFT-s-OFDM 64QAM	1	1	19.11	19.71	18.85	20.50
	DFT-s-OFDM 256QAM	1	1	19.15	18.97	18.79	20.50
	CP-OFDM QPSK	1	1	19.38	19.37	19.26	20.50
	CP-OFDM 16QAM	1	1	19.16	19.24	19.47	20.50
	CP-OFDM 64QAM	1	1	19.37	19.27	19.29	20.50
	CP-OFDM 256QAM	1	1	17.33	17.42	16.86	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	19.56	19.37	19.10	20.50
		1	50	19.40	19.22	19.55	20.50
		25	12	19.31	19.41	18.81	20.50
		50	0	19.05	18.97	18.96	20.50
	DFT-s-OFDM QPSK	1	1	19.61	19.54	18.92	20.50
		1	50	19.51	19.24	19.16	20.50
		25	12	19.44	19.62	18.66	20.50
		50	0	19.60	19.21	19.28	20.50
	DFT-s-OFDM 16QAM	1	1	19.32	19.32	19.33	20.50
	DFT-s-OFDM 64QAM	1	1	19.35	19.63	18.85	20.50
	DFT-s-OFDM 256QAM	1	1	19.13	18.93	18.88	20.50
	CP-OFDM QPSK	1	1	19.42	19.31	19.38	20.50
	CP-OFDM 16QAM	1	1	19.52	19.38	19.59	20.50
	CP-OFDM 64QAM	1	1	19.57	19.37	18.97	20.50
	CP-OFDM 256QAM	1	1	17.49	17.28	17.02	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376000/1880	380500/1902.5	

15MHz	DFT-s-OFDM BPSK	1	1	19.50	19.35	19.10	20.50
		1	77	19.26	19.48	19.61	20.50
		36	18	19.17	19.59	19.07	20.50
		75	0	18.83	19.21	18.72	20.50
	DFT-s-OFDM QPSK	1	1	19.69	19.50	19.20	20.50
		1	77	19.37	19.18	18.98	20.50
		36	18	19.64	19.70	18.64	20.50
		75	0	19.50	19.13	19.14	20.50
	DFT-s-OFDM 16QAM	1	1	19.18	19.36	19.25	20.50
	DFT-s-OFDM 64QAM	1	1	19.29	19.75	18.83	20.50
	DFT-s-OFDM 256QAM	1	1	19.21	18.85	18.74	20.50
	CP-OFDM QPSK	1	1	19.58	19.47	19.44	20.50
	CP-OFDM 16QAM	1	1	19.44	19.30	19.41	20.50
CP-OFDM 64QAM	1	1	19.39	19.67	19.01	20.50	
CP-OFDM 256QAM	1	1	17.19	17.20	17.14	18.00	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	19.44	19.37	19.08	20.50
		1	104	19.24	19.30	19.33	20.50
		50	25	19.41	19.67	18.91	20.50
		100	0	19.03	18.95	18.88	20.50
	DFT-s-OFDM QPSK	1	1	19.57	19.44	18.96	20.50
		1	104	19.55	19.18	19.14	20.50
		50	25	19.50	19.62	18.84	20.50
		100	0	19.52	19.47	19.36	20.50
	DFT-s-OFDM 16QAM	1	1	19.22	19.26	19.31	20.50
	DFT-s-OFDM 64QAM	1	1	19.41	19.77	18.99	20.50
	DFT-s-OFDM 256QAM	1	1	19.09	18.93	18.74	20.50
	CP-OFDM QPSK	1	1	19.54	19.59	19.32	20.50
	CP-OFDM 16QAM	1	1	19.42	19.32	19.55	20.50
	CP-OFDM 64QAM	1	1	19.33	19.55	19.13	20.50
	CP-OFDM 256QAM	1	1	17.41	17.20	17.18	18.00
n5							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				165300/826.5	167300/836.5	169300/846.5	

5MHz	DFT-s-OFDM BPSK	1	1	22.66	22.92	23.02	24.00
		1	23	22.33	22.35	22.49	24.00
		12	6	22.76	22.77	22.91	24.00
		25	0	22.37	22.32	22.38	23.50
	DFT-s-OFDM QPSK	1	1	22.76	22.87	23.10	24.00
		1	23	22.34	22.35	22.54	24.00
		12	6	22.77	22.87	23.00	24.00
		25	0	21.93	21.98	22.19	23.00
	DFT-s-OFDM 16QAM	1	1	21.62	21.75	21.92	23.00
	DFT-s-OFDM 64QAM	1	1	20.42	20.41	20.82	21.50
	DFT-s-OFDM 256QAM	1	1	18.33	18.59	18.70	19.50
	CP-OFDM QPSK	1	1	21.07	21.29	21.45	22.50
	CP-OFDM 16QAM	1	1	21.13	21.29	21.55	22.00
	CP-OFDM 64QAM	1	1	18.97	19.10	19.15	20.50
	CP-OFDM 256QAM	1	1	16.35	16.56	16.66	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				165800/829	167300/836.5	168800/844	
10MHz	DFT-s-OFDM BPSK	1	1	22.74	22.82	22.66	24.00
		1	50	22.31	22.37	22.61	24.00
		25	12	22.92	22.95	23.09	24.00
		50	0	22.27	22.18	22.52	23.50
	DFT-s-OFDM QPSK	1	1	22.72	22.99	22.68	24.00
		1	50	22.46	22.63	22.58	24.00
		25	12	22.69	22.87	23.02	24.00
		50	0	21.79	22.06	22.21	23.00
	DFT-s-OFDM 16QAM	1	1	21.78	22.01	21.80	23.00
	DFT-s-OFDM 64QAM	1	1	20.18	20.57	20.72	21.50
	DFT-s-OFDM 256QAM	1	1	18.39	18.43	18.46	19.50
	CP-OFDM QPSK	1	1	21.11	21.49	21.63	22.50
	CP-OFDM 16QAM	1	1	20.99	21.29	21.19	22.00
	CP-OFDM 64QAM	1	1	18.61	19.20	19.07	20.50
	CP-OFDM 256QAM	1	1	16.47	16.62	16.70	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				166300/831.5	167300/836.5	168300/841.5	
15MHz	DFT-s-OFDM BPSK	1	1	22.80	22.98	22.74	24.00
		1	77	22.37	22.35	22.55	24.00

		36	18	22.74	22.97	22.85	24.00
		75	0	22.51	22.28	22.58	23.50
	DFT-s-OFDM QPSK	1	1	22.68	22.93	22.80	24.00
		1	77	22.48	22.61	22.64	24.00
		36	18	22.53	22.99	22.76	24.00
		75	0	22.01	21.78	21.93	23.00
	DFT-s-OFDM 16QAM	1	1	21.72	21.99	22.00	23.00
	DFT-s-OFDM 64QAM	1	1	20.52	20.53	20.82	21.50
	DFT-s-OFDM 256QAM	1	1	18.23	18.49	18.46	19.50
	CP-OFDM QPSK	1	1	21.01	21.37	21.69	22.50
	CP-OFDM 16QAM	1	1	21.23	21.21	21.61	22.00
	CP-OFDM 64QAM	1	1	19.07	19.02	19.27	20.50
	CP-OFDM 256QAM	1	1	16.39	16.66	16.66	17.50
	Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)		
166800/834					167300/836.5	167800/839	
20MHz	DFT-s-OFDM BPSK	1	1	22.68	22.98	22.90	24.00
		1	104	22.41	22.53	22.59	24.00
		50	25	22.86	22.73	22.93	24.00
		100	0	22.41	22.52	22.50	23.50
	DFT-s-OFDM QPSK	1	1	22.58	22.97	23.08	24.00
		1	104	22.40	22.41	22.54	24.00
		50	25	22.65	22.71	22.80	24.00
		100	0	21.95	21.86	22.05	23.00
	DFT-s-OFDM 16QAM	1	1	21.68	21.95	21.98	23.00
	DFT-s-OFDM 64QAM	1	1	20.36	20.41	20.72	21.50
	DFT-s-OFDM 256QAM	1	1	18.19	18.59	18.50	19.50
	CP-OFDM QPSK	1	1	21.23	21.27	21.45	22.50
	CP-OFDM 16QAM	1	1	21.25	21.25	21.39	22.00
	CP-OFDM 64QAM	1	1	18.87	19.22	19.35	20.50
	CP-OFDM 256QAM	1	1	16.39	16.68	16.68	17.50
n5							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				165300/826.5	167300/836.5	169300/846.5	
5MHz	DFT-s-OFDM BPSK	1	1	20.68	20.96	20.80	21.50
		1	23	20.35	20.45	20.09	21.50

		12	6	20.72	20.73	21.01	21.50
		25	0	20.39	20.44	20.28	21.50
	DFT-s-OFDM QPSK	1	1	20.44	20.75	21.00	21.50
		1	23	20.06	20.07	20.40	21.50
		12	6	20.47	20.91	20.64	21.50
		25	0	20.53	20.51	20.56	21.50
	DFT-s-OFDM 16QAM	1	1	20.29	20.53	20.70	21.50
	DFT-s-OFDM 64QAM	1	1	20.25	20.55	20.76	21.50
	DFT-s-OFDM 256QAM	1	1	18.91	18.79	18.96	19.50
	CP-OFDM QPSK	1	1	20.85	20.51	20.72	21.50
	CP-OFDM 16QAM	1	1	20.77	20.71	20.98	21.50
	CP-OFDM 64QAM	1	1	19.25	19.29	19.38	20.50
	CP-OFDM 256QAM	1	1	16.55	16.48	16.62	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				165800/829	167300/836.5	168800/844	
10MHz	DFT-s-OFDM BPSK	1	1	20.52	20.82	20.86	21.50
		1	50	20.33	20.31	20.47	21.50
		25	12	20.70	20.63	20.71	21.50
		50	0	20.39	20.52	20.52	21.50
	DFT-s-OFDM QPSK	1	1	20.60	20.75	20.96	21.50
		1	50	20.30	20.17	20.34	21.50
		25	12	20.65	20.65	20.60	21.50
		50	0	20.63	20.57	20.60	21.50
	DFT-s-OFDM 16QAM	1	1	20.39	20.69	20.62	21.50
	DFT-s-OFDM 64QAM	1	1	20.49	20.57	20.68	21.50
	DFT-s-OFDM 256QAM	1	1	18.59	18.87	18.92	19.50
	CP-OFDM QPSK	1	1	20.69	20.71	20.78	21.50
	CP-OFDM 16QAM	1	1	20.73	20.49	20.62	21.50
	CP-OFDM 64QAM	1	1	19.11	19.43	19.40	20.50
	CP-OFDM 256QAM	1	1	16.47	16.54	16.70	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				166300/831.5	167300/836.5	168300/841.5	
15MHz	DFT-s-OFDM BPSK	1	1	20.42	20.96	20.84	21.50
		1	77	20.09	20.55	20.43	21.50
		36	18	20.86	20.81	20.99	21.50
		75	0	20.35	20.26	20.34	21.50

	DFT-s-OFDM QPSK	1	1	20.54	20.87	20.92	21.50
		1	77	20.38	20.31	20.28	21.50
		36	18	20.47	20.47	20.88	21.50
		75	0	20.79	20.47	20.86	21.50
	DFT-s-OFDM 16QAM	1	1	20.23	20.79	20.74	21.50
	DFT-s-OFDM 64QAM	1	1	20.47	20.65	20.54	21.50
	DFT-s-OFDM 256QAM	1	1	18.83	18.75	18.74	19.50
	CP-OFDM QPSK	1	1	20.89	20.51	20.78	21.50
	CP-OFDM 16QAM	1	1	20.55	20.65	20.66	21.50
	CP-OFDM 64QAM	1	1	19.01	19.23	19.42	20.50
	CP-OFDM 256QAM	1	1	16.53	16.44	16.86	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				166800/834	167300/836.5	167800/839	
20MHz	DFT-s-OFDM BPSK	1	1	20.68	20.78	20.90	21.50
		1	104	20.33	20.55	20.55	21.50
		50	25	20.80	20.77	20.77	21.50
		100	0	20.29	20.56	20.38	21.50
	DFT-s-OFDM QPSK	1	1	20.54	20.87	20.90	21.50
		1	104	20.32	20.19	20.50	21.50
		50	25	20.59	20.57	20.56	21.50
		100	0	20.57	20.61	20.72	21.50
	DFT-s-OFDM 16QAM	1	1	20.55	20.75	20.56	21.50
	DFT-s-OFDM 64QAM	1	1	20.51	20.59	20.48	21.50
	DFT-s-OFDM 256QAM	1	1	18.59	18.75	18.88	19.50
	CP-OFDM QPSK	1	1	20.59	20.57	20.84	21.50
	CP-OFDM 16QAM	1	1	20.67	20.69	20.68	21.50
	CP-OFDM 64QAM	1	1	19.27	19.41	19.30	20.50
	CP-OFDM 256QAM	1	1	16.63	16.52	16.58	17.50

n26							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				163300/816.5	163800/819	164300/821.5	
5MHz	DFT-s-OFDM BPSK	1	1	22.57	22.45	22.49	24.00
		1	23	22.64	22.56	22.48	24.00
		12	6	22.58	22.70	22.56	24.00

		25	0	22.22	22.34	22.10	23.50
	DFT-s-OFDM QPSK	1	1	22.47	22.39	22.59	24.00
		1	23	22.74	22.62	22.78	24.00
		12	6	22.76	22.56	22.66	24.00
		25	0	21.75	21.85	21.63	23.00
		DFT-s-OFDM 16QAM	1	1	21.59	21.45	21.63
	DFT-s-OFDM 64QAM	1	1	20.14	20.20	20.28	21.50
	DFT-s-OFDM 256QAM	1	1	18.02	17.94	18.02	19.50
	CP-OFDM QPSK	1	1	20.84	21.06	21.02	22.50
	CP-OFDM 16QAM	1	1	20.90	20.92	20.94	22.00
	CP-OFDM 64QAM	1	1	18.65	18.91	18.63	20.50
	CP-OFDM 256QAM	1	1	16.20	16.06	16.06	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	163800/819	/	
10MHz	DFT-s-OFDM BPSK	1	1	/	22.37	/	24.00
		1	50	/	22.46	/	24.00
		25	12	/	22.78	/	24.00
		50	0	/	22.30	/	23.50
	DFT-s-OFDM QPSK	1	1	/	22.67	/	24.00
		1	50	/	22.78	/	24.00
		25	12	/	22.42	/	24.00
		50	0	/	21.85	/	23.00
	DFT-s-OFDM 16QAM	1	1	/	21.33	/	23.00
	DFT-s-OFDM 64QAM	1	1	/	20.28	/	21.50
	DFT-s-OFDM 256QAM	1	1	/	17.88	/	19.50
	CP-OFDM QPSK	1	1	/	20.88	/	22.50
	CP-OFDM 16QAM	1	1	/	21.04	/	22.00
	CP-OFDM 64QAM	1	1	/	18.79	/	20.50
	CP-OFDM 256QAM	1	1	/	16.14	/	17.50
n26							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				165300/826.5	167300/836.5	169300/846.5	
5MHz	DFT-s-OFDM BPSK	1	1	22.52	22.70	22.82	24.00
		1	23	22.43	22.42	22.54	24.00
		12	6	22.56	22.72	22.68	24.00
		25	0	22.17	22.31	21.71	23.50
	DFT-s-OFDM	1	1	22.72	22.79	22.90	24.00

	QPSK	1	23	22.29	22.43	22.40	24.00
		12	6	22.67	22.64	22.74	24.00
		25	0	21.79	21.68	21.75	23.00
	DFT-s-OFDM 16QAM	1	1	21.70	21.88	21.76	23.00
	DFT-s-OFDM 64QAM	1	1	20.22	20.36	20.52	21.50
	DFT-s-OFDM 256QAM	1	1	18.16	18.38	17.94	19.50
	CP-OFDM QPSK	1	1	21.38	21.36	21.36	22.50
	CP-OFDM 16QAM	1	1	21.16	20.90	21.24	22.00
	CP-OFDM 64QAM	1	1	18.85	18.99	19.01	20.50
	CP-OFDM 256QAM	1	1	16.22	16.32	16.48	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				165800/829	167300/836.5	168800/844	
10MHz	DFT-s-OFDM BPSK	1	1	22.42	22.80	22.70	24.00
		1	50	22.39	22.34	22.30	24.00
		25	12	22.40	22.66	22.58	24.00
		50	0	22.23	22.25	21.83	23.50
	DFT-s-OFDM QPSK	1	1	22.74	22.87	22.46	24.00
		1	50	22.13	22.43	22.54	24.00
		25	12	22.39	22.70	22.44	24.00
		50	0	21.77	21.50	21.99	23.00
	DFT-s-OFDM 16QAM	1	1	21.40	21.72	21.74	23.00
	DFT-s-OFDM 64QAM	1	1	20.04	20.38	20.52	21.50
	DFT-s-OFDM 256QAM	1	1	18.16	18.46	18.32	19.50
	CP-OFDM QPSK	1	1	21.20	21.26	21.38	22.50
	CP-OFDM 16QAM	1	1	21.20	21.00	20.94	22.00
	CP-OFDM 64QAM	1	1	18.91	18.97	18.85	20.50
	CP-OFDM 256QAM	1	1	16.38	16.26	16.52	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				166300/831.5	167300/836.5	168300/841.5	
15MHz	DFT-s-OFDM BPSK	1	1	22.50	22.60	22.84	24.00
		1	77	22.15	22.08	22.40	24.00
		36	18	22.60	22.74	22.58	24.00
		75	0	22.25	22.17	21.69	23.50
	DFT-s-OFDM QPSK	1	1	22.62	22.93	22.84	24.00
		1	77	22.19	22.19	22.58	24.00
		36	18	22.75	22.74	22.72	24.00
		75	0	21.85	21.84	21.67	23.00

	DFT-s-OFDM 16QAM	1	1	21.84	21.88	21.48	23.00
	DFT-s-OFDM 64QAM	1	1	20.14	20.24	20.46	21.50
	DFT-s-OFDM 256QAM	1	1	18.06	18.22	17.84	19.50
	CP-OFDM QPSK	1	1	21.26	21.20	21.44	22.50
	CP-OFDM 16QAM	1	1	21.28	21.20	21.22	22.00
	CP-OFDM 64QAM	1	1	18.73	18.97	18.93	20.50
	CP-OFDM 256QAM	1	1	16.36	16.48	16.54	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				166800/834	167300/836.5	167800/839	
20MHz	DFT-s-OFDM BPSK	1	1	22.52	22.66	22.66	24.00
		1	104	22.27	22.44	22.62	24.00
		50	25	22.66	22.70	22.60	24.00
		100	0	22.39	22.33	21.69	23.50
	DFT-s-OFDM QPSK	1	1	22.70	22.83	22.78	24.00
		1	104	22.43	22.41	22.54	24.00
		50	25	22.55	22.56	22.76	24.00
		100	0	21.91	21.72	21.87	23.00
	DFT-s-OFDM 16QAM	1	1	21.68	21.80	21.70	23.00
	DFT-s-OFDM 64QAM	1	1	20.42	20.34	20.40	21.50
	DFT-s-OFDM 256QAM	1	1	18.10	18.34	17.96	19.50
	CP-OFDM QPSK	1	1	21.48	21.38	21.34	22.50
	CP-OFDM 16QAM	1	1	21.02	21.08	21.06	22.00
	CP-OFDM 64QAM	1	1	18.77	18.93	18.95	20.50
CP-OFDM 256QAM	1	1	16.36	16.40	16.22	17.50	
n26							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				163300/816.5	163800/819	164300/821.5	
5MHz	DFT-s-OFDM BPSK	1	1	20.50	21.00	20.98	21.50
		1	23	20.31	20.77	20.71	21.50
		12	6	20.48	20.73	20.87	21.50
		25	0	20.25	20.38	20.18	21.50
	DFT-s-OFDM QPSK	1	1	20.26	20.85	20.74	21.50
		1	23	20.16	20.17	20.70	21.50
		12	6	20.33	20.63	20.92	21.50
		25	0	20.49	20.27	20.64	21.50
	DFT-s-OFDM 16QAM	1	1	20.43	20.65	21.02	21.50

	DFT-s-OFDM 64QAM	1	1	20.21	20.61	20.66	21.50
	DFT-s-OFDM 256QAM	1	1	18.77	18.89	19.14	19.50
	CP-OFDM QPSK	1	1	20.67	20.69	20.84	21.50
	CP-OFDM 16QAM	1	1	20.23	20.59	20.40	21.50
	CP-OFDM 64QAM	1	1	19.19	19.33	19.14	20.50
	CP-OFDM 256QAM	1	1	16.71	16.50	16.70	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	163800/819	/	
10MHz	DFT-s-OFDM BPSK	1	1	/	20.74	/	21.50
		1	50	/	20.59	/	21.50
		25	12	/	21.13	/	21.50
		50	0	/	20.10	/	21.50
	DFT-s-OFDM QPSK	1	1	/	20.71	/	21.50
		1	50	/	20.42	/	21.50
		25	12	/	20.86	/	21.50
		50	0	/	20.86	/	21.50
	DFT-s-OFDM 16QAM	1	1	/	21.04	/	21.50
	DFT-s-OFDM 64QAM	1	1	/	20.64	/	21.50
	DFT-s-OFDM 256QAM	1	1	/	18.82	/	19.50
	CP-OFDM QPSK	1	1	/	20.86	/	21.50
	CP-OFDM 16QAM	1	1	/	20.38	/	21.50
	CP-OFDM 64QAM	1	1	/	18.98	/	20.50
CP-OFDM 256QAM	1	1	/	16.72	/	17.50	
n26							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				165300/826.5	167300/836.5	169300/846.5	
5MHz	DFT-s-OFDM BPSK	1	1	20.80	20.74	20.46	21.50
		1	23	21.32	21.40	21.44	21.50
		12	6	20.62	20.78	20.80	21.50
		25	0	20.84	20.96	20.86	21.50
	DFT-s-OFDM QPSK	1	1	20.71	20.77	20.51	21.50
		1	23	20.68	20.78	20.76	21.50
		12	6	20.99	20.73	20.75	21.50
		25	0	20.99	20.87	20.69	21.50
	DFT-s-OFDM 16QAM	1	1	20.95	20.71	21.07	21.50
	DFT-s-OFDM 64QAM	1	1	20.72	20.72	20.76	21.50

	DFT-s-OFDM 256QAM	1	1	19.29	19.25	19.31	19.50
	CP-OFDM QPSK	1	1	20.66	20.62	20.50	21.50
	CP-OFDM 16QAM	1	1	20.73	20.75	20.63	21.50
	CP-OFDM 64QAM	1	1	20.03	20.09	20.23	20.50
	CP-OFDM 256QAM	1	1	17.11	17.28	17.14	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				165800/829	167300/836.5	168800/844	
10MHz	DFT-s-OFDM BPSK	1	1	20.62	20.76	20.62	21.50
		1	50	21.22	21.32	21.36	21.50
		25	12	20.84	20.88	20.66	21.50
		50	0	20.76	21.06	20.98	21.50
	DFT-s-OFDM QPSK	1	1	20.59	20.65	20.77	21.50
		1	50	20.72	20.64	20.54	21.50
		25	12	20.89	20.67	20.83	21.50
		50	0	20.75	20.65	20.99	21.50
	DFT-s-OFDM 16QAM	1	1	20.91	20.89	20.95	21.50
	DFT-s-OFDM 64QAM	1	1	20.80	20.94	20.78	21.50
	DFT-s-OFDM 256QAM	1	1	19.41	19.21	19.05	19.50
	CP-OFDM QPSK	1	1	20.86	20.78	20.38	21.50
	CP-OFDM 16QAM	1	1	20.77	20.71	20.61	21.50
	CP-OFDM 64QAM	1	1	20.13	20.07	20.19	20.50
	CP-OFDM 256QAM	1	1	17.24	17.14	17.36	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				166300/831.5	167300/836.5	168300/841.5	
15MHz	DFT-s-OFDM BPSK	1	1	20.66	20.52	20.46	21.50
		1	77	21.36	21.26	21.24	21.50
		36	18	20.70	20.68	20.78	21.50
		75	0	20.70	20.84	20.98	21.50
	DFT-s-OFDM QPSK	1	1	20.65	20.71	20.73	21.50
		1	77	20.68	20.70	20.60	21.50
		36	18	21.09	20.75	20.59	21.50
		75	0	21.05	21.01	20.65	21.50
	DFT-s-OFDM 16QAM	1	1	21.11	20.95	20.89	21.50
	DFT-s-OFDM 64QAM	1	1	20.58	20.68	20.70	21.50
	DFT-s-OFDM 256QAM	1	1	19.31	19.01	19.25	19.50
	CP-OFDM QPSK	1	1	20.68	20.66	20.60	21.50
	CP-OFDM 16QAM	1	1	20.71	20.59	20.79	21.50

	CP-OFDM 64QAM	1	1	20.23	20.17	20.23	20.50
	CP-OFDM 256QAM	1	1	17.38	17.42	17.38	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				166800/834	167300/836.5	167800/839	
20MHz	DFT-s-OFDM BPSK	1	1	20.78	20.60	20.48	21.50
		1	104	21.38	21.30	21.32	21.50
		50	25	20.68	20.70	20.78	21.50
		100	0	20.82	20.90	20.92	21.50
	DFT-s-OFDM QPSK	1	1	20.61	20.65	20.61	21.50
		1	104	20.66	20.68	20.72	21.50
		50	25	20.93	20.75	20.71	21.50
		100	0	20.87	20.83	20.77	21.50
	DFT-s-OFDM 16QAM	1	1	20.93	20.81	20.91	21.50
	DFT-s-OFDM 64QAM	1	1	20.70	20.74	20.72	21.50
	DFT-s-OFDM 256QAM	1	1	19.29	19.11	19.15	19.50
	CP-OFDM QPSK	1	1	20.74	20.62	20.56	21.50
	CP-OFDM 16QAM	1	1	20.71	20.61	20.61	21.50
	CP-OFDM 64QAM	1	1	20.11	20.11	20.29	20.50
	CP-OFDM 256QAM	1	1	17.40	17.32	17.20	17.50
n41							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				500202/2501.01	5185.98/2592.99	537000/2685	
10MHz	DFT-s-OFDM BPSK	1	1	22.25	22.53	22.15	24.00
		1	22	22.54	22.78	22.70	24.00
		12	6	22.45	22.63	22.37	24.00
		24	0	22.19	22.15	22.23	23.50
	DFT-s-OFDM QPSK	1	1	22.30	22.32	22.24	24.00
		1	22	22.38	22.48	22.60	24.00
		12	6	22.69	22.77	22.33	24.00
		24	0	21.72	21.64	21.56	23.00
	DFT-s-OFDM 16QAM	1	1	21.19	21.27	21.27	23.00
	DFT-s-OFDM 64QAM	1	1	20.08	19.88	19.86	21.50
	DFT-s-OFDM 256QAM	1	1	18.11	18.35	18.23	19.50
	CP-OFDM QPSK	1	1	21.13	20.69	21.25	22.50
	CP-OFDM 16QAM	1	1	20.14	20.62	20.26	22.00
	CP-OFDM 64QAM	1	1	18.57	18.77	18.85	20.50
	CP-OFDM 256QAM	1	1	16.27	16.31	16.33	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				500700/2503.5	518598/2592.99	536496/2682.48	
15MHz	DFT-s-OFDM BPSK	1	1	22.45	22.41	22.45	24.00
		1	36	22.66	22.72	22.58	24.00
		18	9	22.73	22.77	22.63	24.00
		36	0	22.41	22.23	22.03	23.50
	DFT-s-OFDM QPSK	1	1	22.52	22.34	22.30	24.00
		1	36	22.40	22.60	22.38	24.00
		18	9	22.77	22.71	22.47	24.00
		36	0	21.58	21.80	21.82	23.00
	DFT-s-OFDM 16QAM	1	1	21.09	21.19	21.43	23.00
	DFT-s-OFDM 64QAM	1	1	20.06	19.80	19.70	21.50
	DFT-s-OFDM 256QAM	1	1	18.31	18.09	18.27	19.50
	CP-OFDM QPSK	1	1	20.91	20.97	20.99	22.50
	CP-OFDM 16QAM	1	1	20.28	20.44	20.50	22.00
	CP-OFDM 64QAM	1	1	18.79	18.59	18.59	20.50
CP-OFDM 256QAM	1	1	16.41	16.45	16.39	17.50	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	22.29	22.37	22.45	24.00
		1	49	22.54	22.46	22.60	24.00
		25	12	22.55	22.55	22.71	24.00
		50	0	22.27	22.11	22.19	23.50
	DFT-s-OFDM QPSK	1	1	22.42	22.28	22.24	24.00
		1	49	22.48	22.72	22.70	24.00
		25	12	22.63	22.47	22.67	24.00
		50	0	21.78	21.90	21.84	23.00
	DFT-s-OFDM 16QAM	1	1	21.43	21.13	21.23	23.00
	DFT-s-OFDM 64QAM	1	1	20.00	19.84	19.98	21.50
	DFT-s-OFDM 256QAM	1	1	18.09	18.27	18.13	19.50
	CP-OFDM QPSK	1	1	21.05	21.13	21.17	22.50
	CP-OFDM 16QAM	1	1	20.62	20.54	20.62	22.00
	CP-OFDM 64QAM	1	1	18.79	18.87	18.77	20.50
CP-OFDM 256QAM	1	1	16.41	16.11	16.17	17.50	
n41							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				500202/2501.01	5185.98/2592.99	537000/2685	

10MHz	DFT-s-OFDM BPSK	1	1	19.06	19.48	19.50	20.00
		1	22	18.95	19.35	19.41	20.00
		12	6	19.02	19.33	19.55	20.00
		24	0	18.77	18.84	18.64	20.00
	DFT-s-OFDM QPSK	1	1	18.72	19.49	19.44	20.00
		1	22	18.64	18.81	19.32	20.00
		12	6	19.05	19.13	19.52	20.00
		24	0	19.13	18.83	19.36	20.00
	DFT-s-OFDM 16QAM	1	1	18.89	19.19	19.60	20.00
	DFT-s-OFDM 64QAM	1	1	18.79	19.31	19.14	20.00
	DFT-s-OFDM 256QAM	1	1	18.75	19.01	19.14	19.50
	CP-OFDM QPSK	1	1	19.17	19.19	19.44	20.00
	CP-OFDM 16QAM	1	1	18.85	19.23	18.94	20.00
	CP-OFDM 64QAM	1	1	19.48	19.68	19.51	20.00
	CP-OFDM 256QAM	1	1	16.61	16.52	16.80	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				500700/2503.5	518598/2592.99	536496/2682.48	
15MHz	DFT-s-OFDM BPSK	1	1	18.88	19.68	19.70	20.00
		1	36	18.69	19.37	19.49	20.00
		18	9	18.98	19.33	19.45	20.00
		36	0	18.63	18.92	18.74	20.00
	DFT-s-OFDM QPSK	1	1	18.88	19.23	19.28	20.00
		1	36	18.90	18.67	19.20	20.00
		18	9	19.01	19.37	19.42	20.00
		36	0	19.07	18.73	19.16	20.00
	DFT-s-OFDM 16QAM	1	1	19.17	19.17	19.40	20.00
	DFT-s-OFDM 64QAM	1	1	18.81	19.31	19.30	20.00
	DFT-s-OFDM 256QAM	1	1	18.63	18.83	19.34	19.50
	CP-OFDM QPSK	1	1	19.37	19.37	19.58	20.00
	CP-OFDM 16QAM	1	1	18.75	19.07	19.00	20.00
	CP-OFDM 64QAM	1	1	19.64	19.48	19.61	20.00
	CP-OFDM 256QAM	1	1	16.57	16.72	16.60	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	19.06	19.68	19.66	20.00
		1	49	18.89	19.51	19.37	20.00
		25	12	19.12	19.41	19.57	20.00
		50	0	18.93	19.10	18.70	20.00

	DFT-s-OFDM QPSK	1	1	18.92	19.29	19.36	20.00
		1	49	18.82	18.65	19.22	20.00
		25	12	18.99	19.33	19.36	20.00
		50	0	19.13	18.97	19.34	20.00
	DFT-s-OFDM 16QAM	1	1	19.11	19.33	19.48	20.00
	DFT-s-OFDM 64QAM	1	1	18.89	19.21	19.12	20.00
	DFT-s-OFDM 256QAM	1	1	18.95	18.83	19.14	19.50
	CP-OFDM QPSK	1	1	19.29	19.35	19.34	20.00
	CP-OFDM 16QAM	1	1	18.91	19.21	18.92	20.00
	CP-OFDM 64QAM	1	1	19.44	19.72	19.59	20.00
	CP-OFDM 256QAM	1	1	16.59	16.60	16.68	17.50
n77							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455.01	633334/3500.01	636334/3545.01	
10MHz	DFT-s-OFDM BPSK	1	1	22.33	22.25	22.11	24.00
		1	49	22.40	22.30	22.56	24.00
		25	12	22.39	22.51	22.33	24.00
		50	0	22.01	22.01	21.93	23.50
	DFT-s-OFDM QPSK	1	1	22.18	22.22	22.18	24.00
		1	49	22.43	22.43	22.33	24.00
		25	12	22.34	22.48	22.38	24.00
		50	0	21.62	21.44	21.66	23.00
	DFT-s-OFDM 16QAM	1	1	21.19	21.37	21.31	23.00
	DFT-s-OFDM 64QAM	1	1	19.92	19.82	19.84	21.50
	DFT-s-OFDM 256QAM	1	1	18.01	17.97	18.13	19.50
	CP-OFDM QPSK	1	1	20.93	20.87	20.83	22.50
	CP-OFDM 16QAM	1	1	20.35	20.43	20.31	22.00
	CP-OFDM 64QAM	1	1	18.53	18.59	18.63	20.50
	CP-OFDM 256QAM	1	1	16.22	16.20	16.16	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633334/3500.01	636166/3542.49	
15MHz	DFT-s-OFDM BPSK	1	1	22.41	22.19	22.17	24.00
		1	49	22.56	22.48	22.22	24.00
		25	12	22.27	22.25	22.53	24.00
		50	0	22.17	21.83	22.01	23.50
	DFT-s-OFDM QPSK	1	1	22.04	22.36	22.16	24.00
		1	49	22.23	22.43	22.13	24.00

		25	12	22.42	22.26	22.56	24.00
		50	0	21.46	21.52	21.52	23.00
	DFT-s-OFDM 16QAM	1	1	21.17	21.21	21.39	23.00
	DFT-s-OFDM 64QAM	1	1	19.94	19.64	19.72	21.50
	DFT-s-OFDM 256QAM	1	1	18.03	18.03	18.05	19.50
	CP-OFDM QPSK	1	1	20.77	20.99	20.63	22.50
	CP-OFDM 16QAM	1	1	20.11	20.43	20.13	22.00
	CP-OFDM 64QAM	1	1	18.45	18.65	18.75	20.50
	CP-OFDM 256QAM	1	1	16.30	16.12	15.98	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630668/3460.02	633334/3500.01	636000/3540	
20MHz	DFT-s-OFDM BPSK	1	1	22.35	22.27	22.31	24.00
		1	49	22.58	22.52	22.32	24.00
		25	12	22.35	22.51	22.41	24.00
		50	0	21.91	21.99	21.97	23.50
	DFT-s-OFDM QPSK	1	1	22.20	22.26	22.24	24.00
		1	49	22.47	22.41	22.43	24.00
		25	12	22.28	22.63	22.34	24.00
		50	0	21.44	21.50	21.52	23.00
	DFT-s-OFDM 16QAM	1	1	21.29	21.29	21.41	23.00
	DFT-s-OFDM 64QAM	1	1	19.92	19.98	19.88	21.50
	DFT-s-OFDM 256QAM	1	1	17.99	17.95	17.99	19.50
	CP-OFDM QPSK	1	1	20.69	20.69	20.81	22.50
	CP-OFDM 16QAM	1	1	20.31	20.31	20.31	22.00
	CP-OFDM 64QAM	1	1	18.55	18.63	18.71	20.50
	CP-OFDM 256QAM	1	1	16.20	16.26	16.00	17.50
n77							
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				647000/3705	656000/3840	665000/3975	
10MHz	DFT-s-OFDM BPSK	1	1	22.10	22.16	22.12	24.00
		1	49	22.42	22.56	22.54	24.00
		25	12	22.43	22.51	22.25	24.00
		50	0	22.14	21.94	21.98	23.50
	DFT-s-OFDM QPSK	1	1	22.29	22.19	22.19	24.00
		1	49	22.38	22.44	22.44	24.00
		25	12	22.36	22.40	22.52	24.00
		50	0	21.61	21.39	21.37	23.00

	DFT-s-OFDM 16QAM	1	1	21.18	21.28	21.12	23.00
	DFT-s-OFDM 64QAM	1	1	19.84	19.94	19.88	21.50
	DFT-s-OFDM 256QAM	1	1	18.03	18.17	18.13	19.50
	CP-OFDM QPSK	1	1	20.86	20.72	20.70	22.50
	CP-OFDM 16QAM	1	1	20.33	20.29	20.39	22.00
	CP-OFDM 64QAM	1	1	18.69	18.55	18.67	20.50
	CP-OFDM 256QAM	1	1	16.21	16.11	16.17	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				647168/3707.52	656000/3840	664832/3972.48	
15MHz	DFT-s-OFDM BPSK	1	1	22.04	22.06	22.22	24.00
		1	49	22.42	22.54	22.46	24.00
		25	12	22.27	22.31	22.45	24.00
		50	0	22.14	22.00	22.16	23.50
	DFT-s-OFDM QPSK	1	1	22.07	22.11	22.29	24.00
		1	49	22.52	22.52	22.48	24.00
		25	12	22.38	22.34	22.54	24.00
		50	0	21.55	21.45	21.47	23.00
	DFT-s-OFDM 16QAM	1	1	21.16	21.30	21.24	23.00
	DFT-s-OFDM 64QAM	1	1	19.70	19.78	19.72	21.50
	DFT-s-OFDM 256QAM	1	1	18.01	17.89	18.01	19.50
	CP-OFDM QPSK	1	1	20.66	20.70	20.70	22.50
	CP-OFDM 16QAM	1	1	20.41	20.25	20.27	22.00
	CP-OFDM 64QAM	1	1	18.57	18.71	18.65	20.50
	CP-OFDM 256QAM	1	1	16.15	16.05	16.11	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				647334/3710.01	656000/3840	664666/3969.99	
20MHz	DFT-s-OFDM BPSK	1	1	22.04	22.06	22.08	24.00
		1	49	22.40	22.36	22.26	24.00
		25	12	22.55	22.37	22.31	24.00
		50	0	21.96	22.20	21.96	23.50
	DFT-s-OFDM QPSK	1	1	22.37	22.25	22.07	24.00
		1	49	22.58	22.46	22.38	24.00
		25	12	22.50	22.36	22.20	24.00
		50	0	21.39	21.67	21.61	23.00
	DFT-s-OFDM 16QAM	1	1	21.42	21.04	21.04	23.00
	DFT-s-OFDM 64QAM	1	1	19.64	19.92	19.70	21.50

	DFT-s-OFDM 256QAM	1	1	18.19	17.95	17.87	19.50
	CP-OFDM QPSK	1	1	20.72	21.00	20.90	22.50
	CP-OFDM 16QAM	1	1	20.23	20.17	20.09	22.00
	CP-OFDM 64QAM	1	1	18.51	18.63	18.61	20.50
	CP-OFDM 256QAM	1	1	16.17	16.25	16.15	17.50
n77							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455.01	633334/3500.01	636334/3545.01	
10MHz	DFT-s-OFDM BPSK	1	1	19.42	19.48	19.56	20.00
		1	49	19.15	19.25	19.31	20.00
		25	12	19.56	19.39	19.43	20.00
		50	0	19.01	19.18	18.98	20.00
	DFT-s-OFDM QPSK	1	1	19.32	19.67	19.60	20.00
		1	49	18.96	18.95	19.28	20.00
		25	12	19.19	19.39	19.32	20.00
		50	0	19.35	19.29	19.44	20.00
	DFT-s-OFDM 16QAM	1	1	19.37	19.59	19.20	20.00
	DFT-s-OFDM 64QAM	1	1	19.13	19.41	19.32	20.00
	DFT-s-OFDM 256QAM	1	1	17.41	17.53	17.60	18.00
	CP-OFDM QPSK	1	1	19.25	19.27	19.44	20.00
	CP-OFDM 16QAM	1	1	19.31	19.55	19.38	20.00
	CP-OFDM 64QAM	1	1	17.99	18.23	18.02	19.00
CP-OFDM 256QAM	1	1	15.47	15.20	15.24	16.00	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633334/3500.01	636166/3542.49	
15MHz	DFT-s-OFDM BPSK	1	1	19.40	19.36	19.72	20.00
		1	49	19.23	19.21	19.09	20.00
		25	12	19.50	19.29	19.45	20.00
		50	0	19.07	19.26	19.00	20.00
	DFT-s-OFDM QPSK	1	1	19.06	19.51	19.72	20.00
		1	49	18.84	18.79	19.24	20.00
		25	12	19.45	19.31	19.32	20.00
		50	0	19.21	19.29	19.58	20.00
	DFT-s-OFDM 16QAM	1	1	19.19	19.53	19.28	20.00
	DFT-s-OFDM 64QAM	1	1	19.03	19.33	19.16	20.00
	DFT-s-OFDM 256QAM	1	1	17.33	17.65	17.62	18.00

	CP-OFDM QPSK	1	1	19.27	19.43	19.62	20.00
	CP-OFDM 16QAM	1	1	19.57	19.23	19.54	20.00
	CP-OFDM 64QAM	1	1	18.17	18.05	17.84	19.00
	CP-OFDM 256QAM	1	1	15.47	15.38	15.46	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630668/3460.02	633334/3500.01	636000/3540	
20MHz	DFT-s-OFDM BPSK	1	1	19.52	19.48	19.72	20.00
		1	49	19.17	19.39	19.21	20.00
		25	12	19.66	19.43	19.63	20.00
		50	0	18.89	19.34	19.14	20.00
	DFT-s-OFDM QPSK	1	1	19.12	19.63	19.68	20.00
		1	49	19.16	19.05	19.20	20.00
		25	12	19.41	19.27	19.16	20.00
		50	0	19.17	19.37	19.34	20.00
	DFT-s-OFDM 16QAM	1	1	19.19	19.41	19.32	20.00
	DFT-s-OFDM 64QAM	1	1	19.09	19.25	19.28	20.00
	DFT-s-OFDM 256QAM	1	1	17.37	17.55	17.62	18.00
	CP-OFDM QPSK	1	1	19.29	19.37	19.42	20.00
	CP-OFDM 16QAM	1	1	19.43	19.57	19.54	20.00
	CP-OFDM 64QAM	1	1	18.11	18.27	17.90	19.00
CP-OFDM 256QAM	1	1	15.45	15.18	15.32	16.00	
n77							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				647000/3705	656000/3840	665000/3975	
10MHz	DFT-s-OFDM BPSK	1	1	19.48	19.40	19.78	20.00
		1	49	19.33	19.47	19.33	20.00
		25	12	19.82	19.49	19.59	20.00
		50	0	19.01	19.40	19.14	20.00
	DFT-s-OFDM QPSK	1	1	19.24	19.67	19.66	20.00
		1	49	19.26	19.19	19.30	20.00
		25	12	19.53	19.27	19.10	20.00
		50	0	19.27	19.41	19.30	20.00
	DFT-s-OFDM 16QAM	1	1	19.13	19.51	19.24	20.00
	DFT-s-OFDM 64QAM	1	1	19.15	19.37	19.34	20.00
	DFT-s-OFDM 256QAM	1	1	17.37	17.47	17.76	18.00
	CP-OFDM QPSK	1	1	19.31	19.51	19.58	20.00
	CP-OFDM 16QAM	1	1	19.45	19.53	19.68	20.00

	CP-OFDM 64QAM	1	1	18.03	18.41	18.04	19.00
	CP-OFDM 256QAM	1	1	15.37	15.30	15.24	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				647168/3707.52	656000/3840	664832/3972.48	
15MHz	DFT-s-OFDM BPSK	1	1	19.34	19.36	19.90	20.00
		1	49	19.37	19.45	19.07	20.00
		25	12	19.78	19.35	19.49	20.00
		50	0	18.71	19.32	19.08	20.00
	DFT-s-OFDM QPSK	1	1	19.30	19.57	19.52	20.00
		1	49	19.10	19.27	19.20	20.00
		25	12	19.35	19.25	19.04	20.00
		50	0	19.03	19.53	19.54	20.00
	DFT-s-OFDM 16QAM	1	1	19.37	19.27	19.18	20.00
	DFT-s-OFDM 64QAM	1	1	19.13	19.17	19.14	20.00
	DFT-s-OFDM 256QAM	1	1	17.37	17.77	17.70	18.00
	CP-OFDM QPSK	1	1	19.47	19.19	19.42	20.00
	CP-OFDM 16QAM	1	1	19.55	19.47	19.42	20.00
	CP-OFDM 64QAM	1	1	18.13	18.15	17.84	19.00
	CP-OFDM 256QAM	1	1	15.53	15.14	15.42	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				647334/3710.01	656000/3840	664666/3969.99	
20MHz	DFT-s-OFDM BPSK	1	1	19.60	19.56	19.74	20.00
		1	49	19.35	19.43	19.33	20.00
		25	12	19.58	19.61	19.51	20.00
		50	0	19.07	19.28	19.28	20.00
	DFT-s-OFDM QPSK	1	1	19.28	19.51	19.68	20.00
		1	49	19.10	19.07	19.24	20.00
		25	12	19.31	19.15	19.33	20.00
		50	0	19.13	19.33	19.46	20.00
	DFT-s-OFDM 16QAM	1	1	19.27	19.57	19.28	20.00
	DFT-s-OFDM 64QAM	1	1	19.15	19.31	19.42	20.00
	DFT-s-OFDM 256QAM	1	1	17.55	17.43	17.54	18.00
	CP-OFDM QPSK	1	1	19.23	19.45	19.38	20.00
	CP-OFDM 16QAM	1	1	19.59	19.59	19.62	20.00
	CP-OFDM 64QAM	1	1	18.21	18.45	18.06	19.00
	CP-OFDM 256QAM	1	1	15.39	15.22	15.42	16.00
n78							
Sensor off				Maximum Output Power (dBm)			Tune-up

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455	633334/3500.01	636332/3544.98	
10MHz	DFT-s-OFDM BPSK	1	1	22.34	22.48	22.20	24.00
		1	49	22.60	22.70	22.72	24.00
		25	12	22.72	22.62	22.96	24.00
		50	0	22.56	22.60	22.34	23.50
	DFT-s-OFDM QPSK	1	1	22.40	22.62	22.60	24.00
		1	49	22.61	22.63	22.67	24.00
		25	12	22.77	22.79	22.57	24.00
		50	0	21.75	21.85	21.91	23.00
	DFT-s-OFDM 16QAM	1	1	21.17	21.27	21.27	23.00
	DFT-s-OFDM 64QAM	1	1	19.72	19.62	19.62	21.50
	DFT-s-OFDM 256QAM	1	1	18.21	18.29	18.25	19.50
	CP-OFDM QPSK	1	1	20.73	20.65	20.81	22.50
	CP-OFDM 16QAM	1	1	20.48	20.54	20.46	22.00
	CP-OFDM 64QAM	1	1	18.54	18.68	18.74	20.00
	CP-OFDM 256QAM	1	1	16.07	16.13	16.03	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633334/3500.01	636166/3542.49	
15MHz	DFT-s-OFDM BPSK	1	1	22.32	22.46	22.28	24.00
		1	49	22.88	22.60	22.76	24.00
		25	12	22.64	22.76	22.94	24.00
		50	0	22.34	22.52	22.36	23.50
	DFT-s-OFDM QPSK	1	1	22.58	22.44	22.34	24.00
		1	49	22.81	22.71	22.55	24.00
		25	12	22.67	22.61	22.79	24.00
		50	0	21.89	21.87	21.81	23.00
	DFT-s-OFDM 16QAM	1	1	21.19	21.29	21.27	23.00
	DFT-s-OFDM 64QAM	1	1	19.62	19.78	19.56	21.50
	DFT-s-OFDM 256QAM	1	1	18.17	17.97	18.19	19.50
	CP-OFDM QPSK	1	1	20.71	20.75	20.83	22.50
	CP-OFDM 16QAM	1	1	20.72	20.70	20.74	22.00
	CP-OFDM 64QAM	1	1	18.56	18.68	18.72	20.00
	CP-OFDM 256QAM	1	1	16.27	16.19	16.23	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633334/3500.01	/	
20MHz	DFT-s-OFDM BPSK	1	1	/	22.36	/	24.00
		1	49	/	22.70	/	24.00

		25	12	/	22.76	/	24.00
		50	0	/	22.42	/	23.50
	DFT-s-OFDM QPSK	1	1	/	22.42	/	24.00
		1	49	/	22.63	/	24.00
		25	12	/	22.71	/	24.00
		50	0	/	21.91	/	23.00
	DFT-s-OFDM 16QAM	1	1	/	21.21	/	23.00
	DFT-s-OFDM 64QAM	1	1	/	19.68	/	21.50
	DFT-s-OFDM 256QAM	1	1	/	18.07	/	19.50
	CP-OFDM QPSK	1	1	/	20.81	/	22.50
	CP-OFDM 16QAM	1	1	/	20.58	/	22.00
	CP-OFDM 64QAM	1	1	/	18.56	/	20.00
	CP-OFDM 256QAM	1	1	/	16.21	/	17.50
	n78						
Sensor off				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				647000/3705	650000/3750	653000/3795	
10MHz	DFT-s-OFDM BPSK	1	1	22.41	22.39	22.49	24.00
		1	49	22.89	22.77	22.81	24.00
		25	12	22.73	22.83	22.65	24.00
		50	0	22.69	22.77	22.77	23.50
	DFT-s-OFDM QPSK	1	1	22.48	22.50	22.36	24.00
		1	49	22.89	22.93	22.75	24.00
		25	12	22.65	22.63	22.87	24.00
		50	0	21.76	21.86	21.94	23.00
	DFT-s-OFDM 16QAM	1	1	21.47	21.45	21.39	23.00
	DFT-s-OFDM 64QAM	1	1	19.80	19.74	19.76	21.50
	DFT-s-OFDM 256QAM	1	1	18.14	18.10	18.10	19.50
	CP-OFDM QPSK	1	1	20.66	20.78	20.82	22.50
	CP-OFDM 16QAM	1	1	20.25	20.09	20.25	22.00
	CP-OFDM 64QAM	1	1	18.52	18.40	18.54	20.00
CP-OFDM 256QAM	1	1	16.17	16.17	16.17	17.50	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				647168/3707.52	650000/3750	652832/3792.48	
15MHz	DFT-s-OFDM BPSK	1	1	22.29	22.37	22.45	24.00
		1	49	22.61	22.79	22.89	24.00
		25	12	22.63	22.65	22.71	24.00
		50	0	22.75	22.95	22.93	23.50

	DFT-s-OFDM QPSK	1	1	22.42	22.26	22.42	24.00
		1	49	22.81	22.79	22.91	24.00
		25	12	22.69	22.87	22.95	24.00
		50	0	21.74	21.94	21.96	23.00
	DFT-s-OFDM 16QAM	1	1	21.22	21.10	21.18	23.00
	DFT-s-OFDM 64QAM	1	1	19.92	19.86	19.66	21.50
	DFT-s-OFDM 256QAM	1	1	17.94	18.02	17.88	19.50
	CP-OFDM QPSK	1	1	20.52	20.66	20.62	22.50
	CP-OFDM 16QAM	1	1	20.33	20.09	20.09	22.00
		CP-OFDM 64QAM	1	1	18.62	18.64	18.32
	CP-OFDM 256QAM	1	1	15.99	16.01	15.97	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				647334/3710.01	650000/3750	652666/3789.99	
20MHz	DFT-s-OFDM BPSK	1	1	22.49	22.49	22.25	24.00
		1	49	22.85	22.73	22.85	24.00
		25	12	22.83	22.75	22.83	24.00
		50	0	22.71	22.77	22.75	23.50
	DFT-s-OFDM QPSK	1	1	22.44	22.30	22.46	24.00
		1	49	22.93	22.83	22.71	24.00
		25	12	22.71	22.63	22.81	24.00
		50	0	21.82	21.86	21.78	23.00
	DFT-s-OFDM 16QAM	1	1	21.02	21.10	21.22	23.00
	DFT-s-OFDM 64QAM	1	1	19.60	19.84	19.66	21.50
	DFT-s-OFDM 256QAM	1	1	18.08	18.10	18.00	19.50
	CP-OFDM QPSK	1	1	20.78	20.84	20.82	22.50
	CP-OFDM 16QAM	1	1	20.13	20.17	20.25	22.00
	CP-OFDM 64QAM	1	1	18.48	18.38	18.58	20.00
	CP-OFDM 256QAM	1	1	15.95	15.97	15.91	17.50
n78							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455	633334/3500.01	636332/3544.98	
10MHz	DFT-s-OFDM BPSK	1	1	19.24	19.06	18.96	20.00
		1	49	19.31	19.25	19.03	20.00
		25	12	19.58	19.42	19.38	20.00
		50	0	19.21	19.29	19.57	20.00
	DFT-s-OFDM QPSK	1	1	19.14	19.22	19.24	20.00
		1	49	18.92	18.90	18.90	20.00

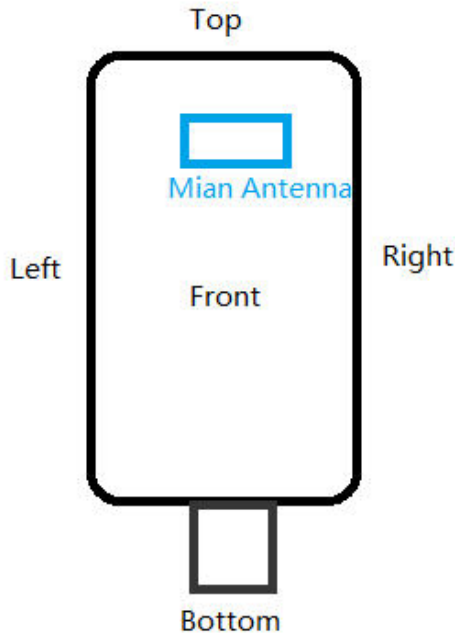
		25	12	19.39	19.31	19.43	20.00
		50	0	19.21	18.83	18.89	20.00
	DFT-s-OFDM 16QAM	1	1	19.29	19.21	19.07	20.00
	DFT-s-OFDM 64QAM	1	1	18.95	18.69	18.93	20.00
	DFT-s-OFDM 256QAM	1	1	17.33	17.19	17.25	18.00
	CP-OFDM QPSK	1	1	19.19	19.15	19.07	20.00
	CP-OFDM 16QAM	1	1	19.31	19.55	19.23	20.00
	CP-OFDM 64QAM	1	1	18.09	17.87	17.93	19.00
	CP-OFDM 256QAM	1	1	15.39	15.35	15.25	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633334/3500.01	636166/3542.49	
15MHz	DFT-s-OFDM BPSK	1	1	19.04	19.22	19.28	20.00
		1	49	19.25	19.13	19.21	20.00
		25	12	19.44	19.56	19.42	20.00
		50	0	19.31	19.43	19.57	20.00
	DFT-s-OFDM QPSK	1	1	19.10	19.04	19.02	20.00
		1	49	19.02	18.86	19.04	20.00
		25	12	19.39	19.43	19.45	20.00
		50	0	18.91	18.95	19.03	20.00
	DFT-s-OFDM 16QAM	1	1	19.25	19.33	19.21	20.00
	DFT-s-OFDM 64QAM	1	1	18.85	18.79	18.87	20.00
	DFT-s-OFDM 256QAM	1	1	17.31	17.37	17.37	18.00
	CP-OFDM QPSK	1	1	18.95	19.03	19.25	20.00
	CP-OFDM 16QAM	1	1	19.25	19.27	19.33	20.00
	CP-OFDM 64QAM	1	1	18.03	17.97	18.05	19.00
	CP-OFDM 256QAM	1	1	15.35	15.13	15.05	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633334/3500.01	/	
20MHz	DFT-s-OFDM BPSK	1	1	/	19.12	/	20.00
		1	49	/	19.21	/	20.00
		25	12	/	19.44	/	20.00
		50	0	/	19.39	/	20.00
	DFT-s-OFDM QPSK	1	1	/	19.06	/	20.00
		1	49	/	18.90	/	20.00
		25	12	/	19.39	/	20.00
		50	0	/	18.99	/	20.00
	DFT-s-OFDM 16QAM	1	1	/	19.23	/	20.00

	DFT-s-OFDM 64QAM	1	1	/	18.85	/	20.00
	DFT-s-OFDM 256QAM	1	1	/	17.31	/	18.00
	CP-OFDM QPSK	1	1	/	19.07	/	20.00
	CP-OFDM 16QAM	1	1	/	19.35	/	20.00
	CP-OFDM 64QAM	1	1	/	17.89	/	19.00
	CP-OFDM 256QAM	1	1	/	15.17	/	16.00
n78							
Sensor on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				647000/3705	650000/3750	653000/3795	
10MHz	DFT-s-OFDM BPSK	1	1	19.30	19.38	19.70	20.00
		1	49	19.33	19.15	19.05	20.00
		25	12	19.16	19.35	19.13	20.00
		50	0	19.11	19.20	19.28	20.00
	DFT-s-OFDM QPSK	1	1	19.06	19.53	19.46	20.00
		1	49	19.08	18.91	18.84	20.00
		25	12	19.29	18.79	19.00	20.00
		50	0	18.77	19.13	19.48	20.00
	DFT-s-OFDM 16QAM	1	1	19.19	19.45	19.28	20.00
	DFT-s-OFDM 64QAM	1	1	19.11	19.11	19.22	20.00
	DFT-s-OFDM 256QAM	1	1	17.59	17.07	17.32	18.00
	CP-OFDM QPSK	1	1	19.33	19.31	19.44	20.00
	CP-OFDM 16QAM	1	1	19.39	19.47	19.40	20.00
	CP-OFDM 64QAM	1	1	18.27	18.25	17.74	19.00
CP-OFDM 256QAM	1	1	15.15	15.14	15.16	16.00	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				647168/3707.52	650000/3750	652832/3792.48	
15MHz	DFT-s-OFDM BPSK	1	1	19.44	19.36	19.46	20.00
		1	49	19.29	19.07	19.13	20.00
		25	12	19.26	19.27	19.33	20.00
		50	0	19.05	19.36	19.18	20.00
	DFT-s-OFDM QPSK	1	1	18.98	19.37	19.32	20.00
		1	49	18.98	18.71	18.80	20.00
		25	12	19.07	19.05	18.88	20.00
		50	0	18.97	19.17	19.34	20.00
	DFT-s-OFDM 16QAM	1	1	19.05	19.39	19.16	20.00
	DFT-s-OFDM 64QAM	1	1	18.87	19.07	19.10	20.00

	DFT-s-OFDM 256QAM	1	1	17.63	17.13	17.08	18.00
	CP-OFDM QPSK	1	1	19.35	19.43	19.24	20.00
	CP-OFDM 16QAM	1	1	19.23	19.39	19.12	20.00
	CP-OFDM 64QAM	1	1	18.29	18.43	17.88	19.00
	CP-OFDM 256QAM	1	1	15.09	14.94	15.08	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				647334/3710.01	650000/3750	652666/3789.99	
20MHz	DFT-s-OFDM BPSK	1	1	19.32	19.20	19.60	20.00
		1	49	19.27	19.21	19.23	20.00
		25	12	19.40	19.47	19.11	20.00
		50	0	19.07	19.30	19.14	20.00
	DFT-s-OFDM QPSK	1	1	19.24	19.41	19.42	20.00
		1	49	19.08	18.83	19.06	20.00
		25	12	19.37	18.87	19.33	20.00
		50	0	18.89	19.29	19.42	20.00
	DFT-s-OFDM 16QAM	1	1	19.21	19.47	19.30	20.00
	DFT-s-OFDM 64QAM	1	1	19.17	18.97	19.36	20.00
	DFT-s-OFDM 256QAM	1	1	17.45	17.35	17.12	18.00
	CP-OFDM QPSK	1	1	19.21	19.33	19.46	20.00
	CP-OFDM 16QAM	1	1	19.35	19.45	19.20	20.00
	CP-OFDM 64QAM	1	1	18.35	18.35	18.00	19.00
	CP-OFDM 256QAM	1	1	15.25	15.14	15.38	16.00

10 Measured and Reported (Scaled) SAR Results

10.1 EUT Antenna Locations



Overall (Length x Width): 106 mm x 39 mm

Overall Diagonal: 112 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

Hotspot mode, Positions for SAR Tests

Mode	Back Side	Front side	Left Edge	Right Edge	Top Edge	Bottom Edge
Main-Antenna	Yes	Yes	Yes	Yes	Yes	N/A

Note:

1. Per FCC KDB 447498 D01, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

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

b) ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.

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

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

10.2 Measured SAR Results

Note:

1. The value with blue color is the maximum SAR Value of each test band.

1. 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).

Body SAR

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.
LTE Band 2	Back Side	5	QPSK	Sensor on	1	0	18900/1880	21.00	20.20	0.730	0.021	1.20	0.878	/
		5	QPSK	Sensor on	1	0	18700/1860	21.00	19.90	0.825	-0.170	1.29	1.063	/
		5	QPSK	Sensor on	1	0	19100/1900	21.00	19.96	0.703	0.035	1.27	0.893	/
		5	QPSK	Sensor on	50%	0	18700/1860	20.00	18.93	0.659	0.033	1.28	0.843	/
		5	QPSK	Sensor on	50%	25	18900/1880	20.00	18.89	0.586	0.031	1.29	0.757	/
		5	QPSK	Sensor on	50%	25	19100/1900	20.00	18.62	0.479	0.110	1.37	0.658	/
	Front Side	5	QPSK	Sensor on	1	0	18900/1880	21.00	20.20	0.986	0.038	1.20	1.185	/
		5	QPSK	Sensor on	1	0	18700/1860	21.00	19.90	1.010	-0.034	1.29	1.301	/
		5	QPSK	Sensor on	1	0	19100/1900	21.00	19.96	0.861	0.022	1.27	1.094	/
		5	QPSK	Sensor on	50%	0	18700/1860	20.00	18.93	0.778	0.015	1.28	0.995	/
		5	QPSK	Sensor on	50%	25	18900/1880	20.00	18.89	0.674	0.036	1.29	0.870	/
		5	QPSK	Sensor on	50%	25	19100/1900	20.00	18.62	0.580	0.089	1.37	0.797	/
		5	QPSK	Sensor on	100%	0	18900/1880	20.00	19.01	0.698	0.060	1.26	0.877	/
		5	QPSK	Sensor on	100%	0	18700/1860	20.00	18.98	0.740	0.070	1.26	0.936	/
		5	QPSK	Sensor on	100%	0	19100/1900	20.00	18.07	0.622	0.046	1.56	0.970	/
	Front Side Repeat	5	QPSK	Sensor on	1	0	18700/1860	21.00	19.90	1.120	0.019	1.29	1.443	12
	Left Edge	5	QPSK	Sensor on	1	0	18900/1880	21.00	20.20	0.405	0.028	1.20	0.487	/
		5	QPSK	Sensor on	50%	0	18700/1860	20.00	18.93	0.358	0.026	1.28	0.458	/
	Right Edge	5	QPSK	Sensor on	1	0	18900/1880	21.00	20.20	0.173	-0.180	1.20	0.208	/
		5	QPSK	Sensor on	50%	0	18700/1860	20.00	18.93	0.143	0.024	1.28	0.183	/
	Top Edge	5	QPSK	Sensor on	1	0	18900/1880	21.00	20.20	0.370	0.045	1.20	0.445	/
		5	QPSK	Sensor on	50%	0	18700/1860	20.00	18.93	0.347	0.080	1.28	0.444	/
	Bottom Edge	5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 7	Back Side	5	QPSK	Sensor on	1	50	20850/2510	20.50	19.96	1.050	0.011	1.13	1.189	/
		5	QPSK	Sensor on	1	50	21100/2535	20.50	19.92	1.060	-0.010	1.14	1.211	/
		5	QPSK	Sensor on	1	50	21350/2560	20.50	19.82	0.998	0.058	1.17	1.167	/
		5	QPSK	Sensor on	50%	0	20850/2510	19.50	18.93	0.801	-0.090	1.14	0.913	/
		5	QPSK	Sensor on	50%	0	21100/2535	19.50	18.89	0.815	0.060	1.15	0.938	/
		5	QPSK	Sensor on	50%	25	21350/2560	19.50	18.82	0.725	0.013	1.17	0.848	/
	Front Side	5	QPSK	Sensor on	1	50	20850/2510	20.50	19.96	1.340	-0.029	1.13	1.517	13

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		5	QPSK	Sensor on	1	50	21100/2535	20.50	19.92	1.290	0.010	1.14	1.474	/
		5	QPSK	Sensor on	1	50	21350/2560	20.50	19.82	1.270	0.034	1.17	1.485	/
		5	QPSK	Sensor on	50%	0	20850/2510	19.50	18.93	1.070	0.020	1.14	1.220	/
		5	QPSK	Sensor on	50%	0	21100/2535	19.50	18.89	1.030	0.074	1.15	1.185	/
		5	QPSK	Sensor on	50%	25	21350/2560	19.50	18.82	1.010	-0.085	1.17	1.181	/
		5	QPSK	Sensor on	100%	0	20850/2510	19.50	18.83	1.090	0.048	1.17	1.272	/
		5	QPSK	Sensor on	100%	0	21100/2535	19.50	18.82	0.996	0.070	1.17	1.165	/
		5	QPSK	Sensor on	100%	0	21350/2560	19.50	18.75	0.992	0.060	1.19	1.179	/
	Front Side Repeat	5	QPSK	Sensor on	1	50	20850/2510	20.50	19.96	1.300	0.010	1.13	1.472	/
	Left Edge	5	QPSK	Sensor on	1	50	20850/2510	20.50	19.96	0.552	0.090	1.13	0.625	/
		5	QPSK	Sensor on	50%	0	20850/2510	19.50	18.93	0.443	0.030	1.14	0.505	/
	Right Edge	5	QPSK	Sensor on	1	50	20850/2510	20.50	19.96	0.574	-0.050	1.13	0.650	/
		5	QPSK	Sensor on	50%	0	20850/2510	19.50	18.93	0.519	0.051	1.14	0.592	/
	Top Edge	5	QPSK	Sensor on	1	50	20850/2510	20.50	19.96	0.731	0.068	1.13	0.828	/
		5	QPSK	Sensor on	50%	0	20850/2510	19.50	18.93	0.647	0.039	1.14	0.738	/
	Bottom Edge	5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 12	Back Side	5	QPSK	Sensor on	1	49	23060/704	24.00	23.34	0.775	0.015	1.16	0.902	/
		5	QPSK	Sensor on	1	25	23095/707.5	24.00	23.29	0.598	0.100	1.18	0.704	/
		5	QPSK	Sensor on	1	25	23130/711	24.00	23.27	0.611	0.100	1.18	0.723	/
		5	QPSK	Sensor on	50%	13	23130/711	23.00	22.28	0.792	0.030	1.18	0.935	14
		5	QPSK	Sensor on	50%	25	23060/704	23.00	22.27	0.658	-0.100	1.18	0.778	/
		5	QPSK	Sensor on	50%	25	23095/707.5	23.00	22.25	0.666	-0.140	1.19	0.792	/
		5	QPSK	Sensor on	100%	0	23060/704	23.00	22.38	0.665	-0.050	1.15	0.767	/
	Front Side	5	QPSK	Sensor on	1	49	23060/704	24.00	23.34	0.631	0.059	1.16	0.735	/
		5	QPSK	Sensor on	50%	13	23130/711	23.00	22.28	0.640	-0.026	1.18	0.755	/
	Left Edge	5	QPSK	Sensor on	1	49	23060/704	24.00	23.34	0.332	0.041	1.16	0.386	/
		5	QPSK	Sensor on	50%	13	23130/711	23.00	22.28	0.306	0.069	1.18	0.361	/
	Right Edge	5	QPSK	Sensor on	1	49	23060/704	24.00	23.34	0.382	0.018	1.16	0.445	/
		5	QPSK	Sensor on	50%	13	23130/711	23.00	22.28	0.406	0.035	1.18	0.479	/
	Top Edge	5	QPSK	Sensor on	1	49	23060/704	24.00	23.34	0.152	0.015	1.16	0.177	/
		5	QPSK	Sensor on	50%	13	23130/711	23.00	22.28	0.148	-0.080	1.18	0.175	/
	Bottom Edge	5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 13	Back Side	5	QPSK	Sensor on	1	25	23230/782	22.00	21.55	0.569	0.046	1.11	0.631	/
		5	QPSK	Sensor on	50%	25	23230/782	21.00	20.58	0.629	0.190	1.10	0.693	/
	Front Side	5	QPSK	Sensor on	1	25	23230/782	22.00	21.55	0.794	0.010	1.11	0.881	15
		5	QPSK	Sensor on	50%	25	23230/782	21.00	20.58	0.745	-0.024	1.10	0.821	/
	Left Edge	5	QPSK	Sensor on	1	25	23230/782	22.00	21.55	0.342	0.033	1.11	0.379	/
		5	QPSK	Sensor on	50%	25	23230/782	21.00	20.58	0.321	0.028	1.10	0.354	/
	Right Edge	5	QPSK	Sensor on	1	25	23230/782	22.00	21.55	0.231	0.017	1.11	0.256	/
		5	QPSK	Sensor on	50%	25	23230/782	21.00	20.58	0.260	0.076	1.10	0.286	/

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	Top Edge	5	QPSK	Sensor on	1	25	23230/782	22.00	21.55	0.099	0.041	1.11	0.110	/
		5	QPSK	Sensor on	50%	25	23230/782	21.00	20.58	0.105	0.086	1.10	0.116	/
	Bottom Edge	5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 14	Back Side	5	QPSK	Sensor on	1	25	23330/793	22.00	21.51	0.531	0.063	1.12	0.594	/
		5	QPSK	Sensor on	50%	0	23330/793	21.00	20.49	0.388	0.027	1.12	0.436	/
	Front Side	5	QPSK	Sensor on	1	25	23330/793	22.00	21.51	0.702	0.110	1.12	0.786	16
		5	QPSK	Sensor on	50%	0	23330/793	21.00	20.49	0.632	-0.012	1.12	0.711	/
	Left Edge	5	QPSK	Sensor on	1	25	23330/793	22.00	21.51	0.371	0.019	1.12	0.415	/
		5	QPSK	Sensor on	50%	0	23330/793	21.00	20.49	0.284	0.051	1.12	0.319	/
	Right Edge	5	QPSK	Sensor on	1	25	23330/793	22.00	21.51	0.295	0.026	1.12	0.330	/
		5	QPSK	Sensor on	50%	0	23330/793	21.00	20.49	0.254	0.039	1.12	0.286	/
	Top Edge	5	QPSK	Sensor on	1	25	23330/793	22.00	21.51	0.120	0.075	1.12	0.134	/
		5	QPSK	Sensor on	50%	0	23330/793	21.00	20.49	0.079	0.020	1.12	0.089	/
	Bottom Edge	5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 26	Back Side	5	QPSK	Sensor on	1	25	26740/819	24.50	23.91	0.758	-0.028	1.15	0.868	/
		5	QPSK	Sensor on	1	0	26865/831.5	24.50	23.44	0.672	0.010	1.28	0.858	/
		5	QPSK	Sensor on	1	0	26965/841.5	24.50	23.29	0.662	0.028	1.32	0.875	/
		5	QPSK	Sensor on	50%	13	26740/819	23.50	22.94	0.679	0.072	1.14	0.772	/
	Front Side	5	QPSK	Sensor on	1	25	26740/819	24.50	23.91	0.767	-0.033	1.15	0.879	17
		5	QPSK	Sensor on	1	0	26865/831.5	24.50	23.44	0.651	0.060	1.28	0.831	/
		5	QPSK	Sensor on	1	0	26965/841.5	24.50	23.29	0.648	-0.070	1.32	0.856	/
		5	QPSK	Sensor on	50%	13	26740/819	23.50	22.94	0.637	0.090	1.14	0.725	/
		5	QPSK	Sensor on	100%	0	26740/819	23.50	23.06	0.613	0.033	1.11	0.678	/
	Left Edge	5	QPSK	Sensor on	1	25	26740/819	24.50	23.91	0.238	0.018	1.15	0.273	/
		5	QPSK	Sensor on	50%	13	26740/819	23.50	22.94	0.186	0.032	1.14	0.212	/
	Right Edge	5	QPSK	Sensor on	1	25	26740/819	24.50	23.91	0.318	0.011	1.15	0.364	/
		5	QPSK	Sensor on	50%	13	26740/819	23.50	22.94	0.362	0.054	1.14	0.412	/
	Top Edge	5	QPSK	Sensor on	1	25	26740/819	24.50	23.91	0.103	0.038	1.15	0.118	/
		5	QPSK	Sensor on	50%	13	26740/819	23.50	22.94	0.089	0.024	1.14	0.101	/
	Bottom Edge	5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 30	Back Side	5	QPSK	Sensor on	1	25	27710/2310	21.00	20.34	1.060	0.027	1.16	1.234	/
		5	QPSK	Sensor on	50%	0	27710/2310	20.00	19.35	0.816	0.060	1.16	0.948	/
	Front Side	5	QPSK	Sensor on	1	25	27710/2310	21.00	20.34	1.180	0.030	1.16	1.374	18
		5	QPSK	Sensor on	50%	0	27710/2310	20.00	19.35	0.979	0.018	1.16	1.137	/
	Front Side Repeat	5	QPSK	Sensor on	1	25	27710/2310	21.00	20.34	1.130	0.022	1.16	1.315	/
	Left Edge	5	QPSK	Sensor on	1	25	27710/2310	21.00	20.34	0.367	0.011	1.16	0.427	/
		5	QPSK	Sensor on	50%	0	27710/2310	20.00	19.35	0.326	0.041	1.16	0.379	/
	Right Edge	5	QPSK	Sensor on	1	25	27710/2310	21.00	20.34	0.372	0.032	1.16	0.433	/
		5	QPSK	Sensor on	50%	0	27710/2310	20.00	19.35	0.378	-0.080	1.16	0.439	/

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	Top Edge	5	QPSK	Sensor on	1	25	27710/2310	21.00	20.34	0.386	0.016	1.16	0.449	/
		5	QPSK	Sensor on	50%	0	27710/2310	20.00	19.35	0.319	0.022	1.16	0.371	/
	Bottom Edge	5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 41	Back Side	5	QPSK	Sensor on	1	50	39750/2506	20.50	20.07	0.983	0.130	1.10	1.085	/
		5	QPSK	Sensor on	1	50	40620/2593	20.50	19.98	0.847	0.057	1.13	0.955	/
		5	QPSK	Sensor on	1	0	41490/2680	20.50	19.80	0.788	0.011	1.17	0.926	/
		5	QPSK	Sensor on	50%	25	39750/2506	19.50	19.25	0.712	-0.034	1.06	0.754	/
	Front Side	5	QPSK	Sensor on	1	50	39750/2506	20.50	20.07	1.330	0.160	1.10	1.468	19
		5	QPSK	Sensor on	1	50	40620/2593	20.50	19.98	1.070	0.048	1.13	1.206	/
		5	QPSK	Sensor on	1	0	41490/2680	20.50	19.80	0.765	0.074	1.17	0.899	/
		5	QPSK	Sensor on	50%	25	39750/2506	19.50	19.25	1.010	0.090	1.06	1.070	/
		5	QPSK	Sensor on	50%	25	40620/2593	19.50	19.04	0.914	0.061	1.11	1.016	/
		5	QPSK	Sensor on	50%	25	41490/2680	19.50	18.98	0.685	0.022	1.13	0.772	/
		5	QPSK	Sensor on	100%	0	39750/2506	19.50	19.34	0.911	0.059	1.04	0.945	/
		5	QPSK	Sensor on	100%	0	40620/2593	19.50	19.14	0.938	-0.082	1.09	1.019	/
		5	QPSK	Sensor on	100%	0	41490/2680	19.50	19.12	0.739	0.067	1.09	0.807	/
	Left Edge	5	QPSK	Sensor on	1	50	39750/2506	20.50	20.07	0.340	0.032	1.10	0.375	/
		5	QPSK	Sensor on	50%	25	39750/2506	19.50	19.25	0.284	0.040	1.06	0.301	/
	Right Edge	5	QPSK	Sensor on	1	50	39750/2506	20.50	20.07	0.484	0.076	1.10	0.534	/
		5	QPSK	Sensor on	50%	25	39750/2506	19.50	19.25	0.332	0.039	1.06	0.352	/
	Top Edge	5	QPSK	Sensor on	1	50	39750/2506	20.50	20.07	0.545	-0.030	1.10	0.602	/
		5	QPSK	Sensor on	50%	25	39750/2506	19.50	19.25	0.347	0.013	1.06	0.368	/
	Bottom Edge	5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 42	Back Side	5	QPSK	Sensor on	1	0	42590/3500	21.50	20.82	0.617	0.061	1.17	0.722	20
		5	QPSK	Sensor on	50%	0	42590/3500	20.50	19.49	0.548	0.020	1.26	0.691	/
	Front Side	5	QPSK	Sensor on	1	0	42590/3500	21.50	20.82	0.604	-0.045	1.17	0.706	/
		5	QPSK	Sensor on	50%	0	42590/3500	20.50	19.49	0.468	0.028	1.26	0.591	/
	Left Edge	5	QPSK	Sensor on	1	0	42590/3500	21.50	20.82	0.199	0.011	1.17	0.233	/
		5	QPSK	Sensor on	50%	0	42590/3500	20.50	19.49	0.175	0.040	1.26	0.221	/
	Right Edge	5	QPSK	Sensor on	1	0	42590/3500	21.50	20.82	0.491	0.089	1.17	0.574	/
		5	QPSK	Sensor on	50%	0	42590/3500	20.50	19.49	0.394	0.017	1.26	0.497	/
	Top Edge	5	QPSK	Sensor on	1	0	42590/3500	21.50	20.82	0.174	0.048	1.17	0.203	/
		5	QPSK	Sensor on	50%	0	42590/3500	20.50	19.49	0.158	-0.040	1.26	0.199	/
	Bottom Edge	5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE Band 66	Back Side	5	QPSK	Sensor on	1	0	132322/1745	20.50	19.63	1.090	0.170	1.22	1.332	/
		5	QPSK	Sensor on	1	0	132072/1720	20.50	19.51	1.190	0.010	1.26	1.495	21
		5	QPSK	Sensor on	1	99	132572/1770	20.50	19.54	0.874	0.024	1.25	1.090	/
		5	QPSK	Sensor on	50%	25	132322/1745	19.50	18.65	0.980	-0.090	1.22	1.192	/
		5	QPSK	Sensor on	50%	50	132072/1720	19.50	18.57	1.060	0.048	1.24	1.313	/
		5	QPSK	Sensor on	50%	0	132572/1770	19.50	18.57	0.765	0.039	1.24	0.948	/

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		5	QPSK	Sensor on	100%	0	132322/1745	19.50	18.77	0.918	0.091	1.18	1.086	/
		5	QPSK	Sensor on	100%	0	132072/1720	19.50	18.21	0.898	0.070	1.35	1.209	/
		5	QPSK	Sensor on	100%	0	132572/1770	19.50	18.23	0.850	0.027	1.34	1.139	/
	Back Side Repeat	5	QPSK	Sensor on	1	0	132072/1720	20.50	19.51	1.060	0.013	1.26	1.331	/
	Front Side	5	QPSK	Sensor on	1	0	132322/1745	20.50	19.63	0.958	0.088	1.22	1.170	/
		5	QPSK	Sensor on	1	0	132072/1720	20.50	19.51	0.979	0.059	1.26	1.230	/
		5	QPSK	Sensor on	1	99	132572/1770	20.50	19.54	0.841	0.071	1.25	1.049	/
		5	QPSK	Sensor on	50%	25	132322/1745	19.50	18.65	0.904	0.039	1.22	1.099	/
		5	QPSK	Sensor on	50%	50	132072/1720	19.50	18.57	0.862	-0.070	1.24	1.068	/
		5	QPSK	Sensor on	50%	0	132572/1770	19.50	18.57	0.817	0.045	1.24	1.012	/
	Left Edge	5	QPSK	Sensor on	1	0	132322/1745	20.50	19.63	0.569	0.013	1.22	0.695	/
		5	QPSK	Sensor on	50%	25	132322/1745	19.50	18.65	0.472	0.090	1.22	0.574	/
	Right Edge	5	QPSK	Sensor on	1	0	132322/1745	20.50	19.63	0.267	0.058	1.22	0.326	/
		5	QPSK	Sensor on	50%	25	132322/1745	19.50	18.65	0.182	0.055	1.22	0.221	/
	Top Edge	5	QPSK	Sensor on	1	0	132322/1745	20.50	19.63	0.615	0.026	1.22	0.751	/
		5	QPSK	Sensor on	50%	25	132322/1745	19.50	18.65	0.464	-0.010	1.22	0.564	/
	Bottom Edge	5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		5	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

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.
n2	Back Side	5	DFT-s-OFDM QPSK	Sensor on	1	1	372000/1860	20.50	19.57	1.150	0.140	1.24	1.425	/
		5	DFT-s-OFDM QPSK	Sensor on	1	1	376000/1880	20.50	19.44	0.862	0.140	1.28	1.100	/
		5	DFT-s-OFDM QPSK	Sensor on	1	104	380000/1900	20.50	19.14	0.831	0.049	1.37	1.137	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	25	376000/1880	20.50	19.62	1.010	-0.046	1.22	1.237	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	25	372000/1860	20.50	19.50	1.070	0.070	1.26	1.347	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	25	380000/1900	20.50	18.84	0.848	0.047	1.47	1.243	/
	Front Side	5	DFT-s-OFDM QPSK	Sensor on	1	1	372000/1860	20.50	19.57	1.020	0.095	1.24	1.264	/
		5	DFT-s-OFDM QPSK	Sensor on	1	1	376000/1880	20.50	19.44	0.824	0.040	1.28	1.052	/
		5	DFT-s-OFDM QPSK	Sensor on	1	104	380000/1900	20.50	19.14	0.798	0.025	1.37	1.091	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	25	376000/1880	20.50	19.62	1.170	0.181	1.22	1.433	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	25	372000/1860	20.50	19.50	0.931	0.016	1.26	1.172	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	25	380000/1900	20.50	18.84	0.831	0.190	1.47	1.218	/
		5	DFT-s-OFDM QPSK	Sensor on	100%	0	372000/1860	20.50	19.52	0.952	0.140	1.25	1.193	/
		5	DFT-s-OFDM QPSK	Sensor on	100%	0	376000/1880	20.50	19.47	0.801	0.058	1.27	1.015	/
		5	DFT-s-OFDM QPSK	Sensor on	100%	0	380000/1900	20.50	19.36	0.881	0.074	1.30	1.145	/
	Front Side Repeat	5	DFT-s-OFDM QPSK	Sensor on	50%	25	376000/1880	20.50	19.62	1.220	0.030	1.22	1.494	22
	Left Edge	5	DFT-s-OFDM QPSK	Sensor on	1	1	372000/1860	20.50	19.57	0.193	0.170	1.24	0.239	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	25	376000/1880	20.50	19.62	0.184	0.029	1.22	0.225	/
	Right Edge	5	DFT-s-OFDM QPSK	Sensor on	1	1	372000/1860	20.50	19.57	0.461	0.077	1.24	0.571	/

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		5	DFT-s-OFDM QPSK	Sensor on	50%	25	376000/1880	20.50	19.62	0.608	-0.053	1.22	0.745	/	
	Top Edge	5	DFT-s-OFDM QPSK	Sensor on	1	1	372000/1860	20.50	19.57	0.342	0.061	1.24	0.424	/	
		5	DFT-s-OFDM QPSK	Sensor on	50%	25	376000/1880	20.50	19.62	0.310	0.018	1.22	0.380	/	
	Bottom Edge	5	DFT-s-OFDM QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
		5	DFT-s-OFDM QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
n26	Back Side	5	DFT-s-OFDM QPSK	Sensor on	1	104	167800/839	21.50	20.72	0.352	0.044	1.20	0.421	/	
		5	DFT-s-OFDM QPSK	Sensor on	50%	25	166800/834	21.50	20.93	0.434	0.010	1.14	0.495	/	
	Front Side	5	DFT-s-OFDM QPSK	Sensor on	1	104	167800/839	21.50	20.72	0.580	-0.080	1.20	0.694	/	
		5	DFT-s-OFDM QPSK	Sensor on	50%	25	166800/834	21.50	20.93	0.563	0.047	1.14	0.642	/	
		5	DFT-s-OFDM QPSK	Sensor on	1	1	163800/819	21.50	20.71	0.506	0.016	1.20	0.607	/	
		5	DFT-s-OFDM QPSK	Sensor on	50%	25	163800/819	21.50	20.86	0.461	0.028	1.16	0.534	/	
	Left Edge	5	DFT-s-OFDM QPSK	Sensor on	1	104	167800/839	21.50	20.72	0.327	-0.049	1.20	0.391	/	
		5	DFT-s-OFDM QPSK	Sensor on	50%	25	166800/834	21.50	20.93	0.435	0.023	1.14	0.496	/	
	Right Edge	5	DFT-s-OFDM QPSK	Sensor on	1	104	167800/839	21.50	20.72	0.189	0.027	1.20	0.226	/	
		5	DFT-s-OFDM QPSK	Sensor on	50%	25	166800/834	21.50	20.93	0.210	0.020	1.14	0.239	/	
	Top Edge	5	DFT-s-OFDM QPSK	Sensor on	1	104	167800/839	21.50	20.72	0.114	-0.130	1.20	0.136	/	
		5	DFT-s-OFDM QPSK	Sensor on	50%	25	166800/834	21.50	20.93	0.126	0.016	1.14	0.144	/	
	Bottom Edge	5	DFT-s-OFDM QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
		5	DFT-s-OFDM QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
	n41	Back Side	5	DFT-s-OFDM QPSK	Sensor on	1	1	535998/2679.99	20.00	19.36	1.270	-0.159	1.16	1.472	/
			5	DFT-s-OFDM QPSK	Sensor on	1	1	501204/2506.2	20.00	18.92	1.150	-0.068	1.28	1.475	/
			5	DFT-s-OFDM QPSK	Sensor on	1	1	518598/2592.99	20.00	19.29	1.060	0.031	1.18	1.248	/
			5	DFT-s-OFDM QPSK	Sensor on	50%	12	535998/2679.99	20.00	19.36	0.896	0.046	1.16	1.038	/
			5	DFT-s-OFDM QPSK	Sensor on	50%	12	501204/2506.2	20.00	18.99	1.150	0.028	1.26	1.451	/
			5	DFT-s-OFDM QPSK	Sensor on	50%	12	518598/2592.99	20.00	19.33	1.230	0.012	1.17	1.435	/
Front Side		5	DFT-s-OFDM QPSK	Sensor on	1	1	535998/2679.99	20.00	19.36	1.170	0.066	1.16	1.356	/	
		5	DFT-s-OFDM QPSK	Sensor on	1	1	501204/2506.2	20.00	18.92	1.040	0.090	1.28	1.334	/	
		5	DFT-s-OFDM QPSK	Sensor on	1	1	518598/2592.99	20.00	19.29	1.080	-0.049	1.18	1.272	/	
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	535998/2679.99	20.00	19.36	0.957	0.091	1.16	1.109	/	
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	501204/2506.2	20.00	18.99	1.090	0.022	1.26	1.375	/	
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	518598/2592.99	20.00	19.33	1.340	0.030	1.17	1.564	23	
		5	DFT-s-OFDM QPSK	Sensor on	100%	0	535998/2679.99	20.00	19.34	1.260	0.013	1.16	1.467	/	
		5	DFT-s-OFDM QPSK	Sensor on	100%	0	501204/2506.2	20.00	19.13	1.270	0.028	1.22	1.552	/	
		5	DFT-s-OFDM QPSK	Sensor on	100%	0	518598/2592.99	20.00	18.97	1.230	0.039	1.27	1.559	/	
Front Side Repeat		5	DFT-s-OFDM QPSK	Sensor on	50%	12	518598/2592.99	20.00	19.33	1.260	0.070	1.17	1.470	/	
Left Edge		5	DFT-s-OFDM QPSK	Sensor on	1	1	535998/2679.99	20.00	19.36	0.185	-0.060	1.16	0.214	/	
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	535998/2679.99	20.00	19.36	0.143	0.018	1.16	0.166	/	
Right Edge		5	DFT-s-OFDM QPSK	Sensor on	1	1	535998/2679.99	20.00	19.36	0.314	0.036	1.16	0.364	/	
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	535998/2679.99	20.00	19.36	0.224	0.170	1.16	0.260	/	
Top Edge		5	DFT-s-OFDM QPSK	Sensor on	1	1	535998/2679.99	20.00	19.36	1.050	0.110	1.16	1.217	/	
		5	DFT-s-OFDM QPSK	Sensor on	1	1	501204/2506.2	20.00	18.92	0.684	0.042	1.28	0.877	/	
		5	DFT-s-OFDM QPSK	Sensor on	1	1	518598/2592.99	20.00	19.29	0.807	0.074	1.18	0.950	/	

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		5	DFT-s-OFDM QPSK	Sensor on	50%	12	535998/2679.99	20.00	19.36	1.130	0.079	1.16	1.309	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	501204/2506.2	20.00	18.99	0.776	0.017	1.26	0.979	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	518598/2592.99	20.00	19.33	1.030	-0.037	1.17	1.202	/
		5	DFT-s-OFDM QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
	Bottom Edge	5	DFT-s-OFDM QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		5	DFT-s-OFDM QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
n77	Back Side	5	DFT-s-OFDM QPSK	Sensor on	1	1	664666/3969.99	20.00	19.68	0.813	0.026	1.08	0.875	/
		5	DFT-s-OFDM QPSK	Sensor on	1	1	647334/3710.01	20.00	19.28	0.945	-0.031	1.18	1.115	/
		5	DFT-s-OFDM QPSK	Sensor on	1	1	656000/3840	20.00	19.51	0.873	-0.014	1.12	0.977	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	647334/3710.01	20.00	19.31	0.955	0.018	1.17	1.119	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	656000/3840	20.00	19.15	0.962	0.026	1.22	1.170	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	664666/3969.99	20.00	19.33	0.772	0.060	1.17	0.901	/
	Front Side	5	DFT-s-OFDM QPSK	Sensor on	1	1	664666/3969.99	20.00	19.68	0.757	0.068	1.08	0.815	/
		5	DFT-s-OFDM QPSK	Sensor on	1	1	647334/3710.01	20.00	19.28	0.732	-0.022	1.18	0.864	/
		5	DFT-s-OFDM QPSK	Sensor on	1	1	656000/3840	20.00	19.51	0.798	0.054	1.12	0.893	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	647334/3710.01	20.00	19.31	0.804	0.035	1.17	0.942	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	656000/3840	20.00	19.15	0.852	0.060	1.22	1.036	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	664666/3969.99	20.00	19.33	0.787	0.078	1.17	0.918	/
	Left Edge	5	DFT-s-OFDM QPSK	Sensor on	1	1	664666/3969.99	20.00	19.68	0.233	0.043	1.08	0.251	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	664666/3969.99	20.00	19.33	0.283	-0.046	1.17	0.330	/
	Right Edge	5	DFT-s-OFDM QPSK	Sensor on	1	1	664666/3969.99	20.00	19.68	1.280	0.060	1.08	1.378	/
		5	DFT-s-OFDM QPSK	Sensor on	1	1	647334/3710.01	20.00	19.28	1.170	0.190	1.18	1.381	/
		5	DFT-s-OFDM QPSK	Sensor on	1	1	656000/3840	20.00	19.51	1.040	0.018	1.12	1.164	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	647334/3710.01	20.00	19.31	1.180	0.063	1.17	1.383	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	656000/3840	20.00	19.15	1.040	0.045	1.22	1.265	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	664666/3969.99	20.00	19.33	1.340	0.066	1.17	1.564	/
		5	DFT-s-OFDM QPSK	Sensor on	100%	0	664666/3969.99	20.00	19.46	1.320	0.023	1.13	1.495	/
		5	DFT-s-OFDM QPSK	Sensor on	100%	0	647334/3710.01	20.00	19.13	1.100	0.075	1.22	1.344	/
		5	DFT-s-OFDM QPSK	Sensor on	100%	0	656000/3840	20.00	19.33	1.280	0.060	1.17	1.494	/
		5	DFT-s-OFDM QPSK	Sensor on	1	1	636000/3540	20.00	19.68	0.793	0.058	1.08	0.854	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	630668/3460.02	20.00	19.41	0.755	0.079	1.15	0.865	/
	Right Edge Repeat	5	DFT-s-OFDM QPSK	Sensor on	50%	12	664666/3969.99	20.00	19.33	1.350	0.026	1.17	1.575	24
	Right Edge SIM2	5	DFT-s-OFDM QPSK	Sensor on	50%	12	664666/3969.99	20.00	19.33	1.290	0.036	1.17	1.505	/
	Top Edge	5	DFT-s-OFDM QPSK	Sensor on	1	1	664666/3969.99	20.00	19.68	0.275	0.150	1.08	0.296	/
		5	DFT-s-OFDM QPSK	Sensor on	50%	12	664666/3969.99	20.00	19.33	0.372	0.014	1.17	0.434	/
	Bottom Edge	5	DFT-s-OFDM QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		5	DFT-s-OFDM QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
	Right Edge	5	CP-OFDM QPSK	Full Power	1	1	656000/3840	20.00	19.45	1.080	0.062	1.14	1.226	/

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

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.
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LTE Band 2	Back Side	16	QPSK	Sensor off	1	0	19100/1900	24.00	23.13	0.117	0.038	1.22	0.143	/
	Front Side	13	QPSK	Sensor off	1	0	19100/1900	24.00	23.13	0.561	-0.024	1.22	0.685	/
	Left Edge	10	QPSK	Sensor off	1	0	19100/1900	24.00	23.13	0.433	0.160	1.22	0.529	/
	Right Edge	10	QPSK	Sensor off	1	0	19100/1900	24.00	23.13	0.172	0.029	1.22	0.210	/
	Top Edge	24	QPSK	Sensor off	1	0	19100/1900	24.00	23.13	0.094	0.033	1.22	0.115	/
	Front Side	13	QPSK	Sensor off	50%	0	18700/1860	23.00	22.03	0.474	-0.015	1.25	0.593	/
LTE Band 7	Back Side	16	QPSK	Sensor off	1	99	20850/2510	24.00	23.61	0.827	0.081	1.09	0.905	/
	Front Side	13	QPSK	Sensor off	1	99	20850/2510	24.00	23.61	0.995	-0.024	1.09	1.089	/
	Left Edge	10	QPSK	Sensor off	1	99	20850/2510	24.00	23.61	0.466	0.025	1.09	0.510	/
	Right Edge	10	QPSK	Sensor off	1	99	20850/2510	24.00	23.61	0.529	0.035	1.09	0.579	/
	Top Edge	24	QPSK	Sensor off	1	99	20850/2510	24.00	23.61	0.343	0.026	1.09	0.375	/
	Front Side	10	QPSK	Sensor off	50%	25	20850/2510	23.00	22.43	0.864	-0.090	1.14	0.985	/
LTE Band 13	Back Side	16	QPSK	Sensor off	1	0	23230/782	24.00	23.48	0.272	0.029	1.13	0.307	/
	Front Side	13	QPSK	Sensor off	1	0	23230/782	24.00	23.48	0.349	0.023	1.13	0.393	/
	Left Edge	10	QPSK	Sensor off	1	0	23230/782	24.00	23.48	0.255	0.190	1.13	0.287	/
	Right Edge	10	QPSK	Sensor off	1	0	23230/782	24.00	23.48	0.212	-0.160	1.13	0.239	/
	Top Edge	24	QPSK	Sensor off	1	0	23230/782	24.00	23.48	0.011	0.032	1.13	0.012	/
	Front Side	13	QPSK	Sensor off	50%	25	23230/782	23.00	22.42	0.365	0.094	1.14	0.417	/
LTE Band 14	Back Side	16	QPSK	Sensor off	1	0	23330/793	24.00	23.39	0.235	0.020	1.15	0.270	/
	Front Side	13	QPSK	Sensor off	1	0	23330/793	24.00	23.39	0.459	-0.040	1.15	0.528	/
	Left Edge	10	QPSK	Sensor off	1	0	23330/793	24.00	23.39	0.325	0.046	1.15	0.374	/
	Right Edge	10	QPSK	Sensor off	1	0	23330/793	24.00	23.39	0.233	0.053	1.15	0.268	/
	Top Edge	24	QPSK	Sensor off	1	0	23330/793	24.00	23.39	0.016	0.038	1.15	0.018	/
	Front Side	13	QPSK	Sensor off	50%	25	23330/793	23.00	22.34	0.322	0.023	1.16	0.375	/
LTE Band 30	Back Side	16	QPSK	Sensor off	1	0	27710/2310	24.00	23.05	0.463	0.036	1.24	0.576	/
	Front Side	13	QPSK	Sensor off	1	0	27710/2310	24.00	23.05	0.404	0.010	1.24	0.503	/
	Left Edge	10	QPSK	Sensor off	1	0	27710/2310	24.00	23.05	0.193	0.046	1.24	0.240	/
	Right Edge	10	QPSK	Sensor off	1	0	27710/2310	24.00	23.05	0.286	0.070	1.24	0.356	/
	Top Edge	24	QPSK	Sensor off	1	0	27710/2310	24.00	23.05	0.068	0.039	1.24	0.085	/
	Back Side	16	QPSK	Sensor off	50%	0	27710/2310	23.00	22.08	0.481	0.088	1.24	0.594	/
LTE Band 41	Back Side	16	QPSK	Sensor off	1	99	39750/2506	24.00	23.19	0.225	0.051	1.21	0.271	/
	Front Side	13	QPSK	Sensor off	1	99	39750/2506	24.00	23.19	0.524	0.089	1.21	0.631	/
	Left Edge	10	QPSK	Sensor off	1	99	39750/2506	24.00	23.19	0.115	-0.075	1.21	0.139	/
	Right Edge	10	QPSK	Sensor off	1	99	39750/2506	24.00	23.19	0.147	0.029	1.21	0.177	/
	Top Edge	24	QPSK	Sensor off	1	99	39750/2506	24.00	23.19	0.193	0.048	1.21	0.233	/
	Front Side	13	QPSK	Sensor off	50%	25	39750/2506	23.00	22.37	0.475	0.025	1.16	0.549	/
LTE Band 42	Back Side	16	QPSK	Sensor off	1	0	41690/3410	24.00	23.43	0.211	-0.070	1.14	0.241	/
	Front Side	13	QPSK	Sensor off	1	0	41690/3410	24.00	23.43	0.321	-0.100	1.14	0.366	/
	Left Edge	10	QPSK	Sensor off	1	0	41690/3410	24.00	23.43	0.183	0.045	1.14	0.209	/
	Right Edge	10	QPSK	Sensor off	1	0	41690/3410	24.00	23.43	0.540	0.013	1.14	0.616	/
	Top Edge	24	QPSK	Sensor off	1	0	41690/3410	24.00	23.43	0.037	0.029	1.14	0.042	/
	Right Edge	10	QPSK	Sensor off	50%	25	41690/3410	23.00	22.55	0.409	0.027	1.11	0.454	/
LTE	Back Side	16	QPSK	Sensor off	1	0	132322/1745	24.00	23.69	0.351	0.130	1.07	0.377	/

SAR Test Report
Report No.: EFTA25070330-IE-09-S1V1

Band 66	Front Side	13	QPSK	Sensor off	1	0	132322/1745	24.00	23.69	1.220	-0.065	1.07	1.310	/
	Left Edge	10	QPSK	Sensor off	1	0	132322/1745	24.00	23.69	0.689	0.074	1.07	0.740	/
	Right Edge	10	QPSK	Sensor off	1	0	132322/1745	24.00	23.69	0.242	0.028	1.07	0.260	/
	Top Edge	24	QPSK	Sensor off	1	0	132322/1745	24.00	23.69	0.176	-0.050	1.07	0.189	/
	Front Side	13	QPSK	Sensor off	50%	0	132322/1745	23.00	22.86	1.020	0.037	1.03	1.053	/

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.
n2	Back Side	16	DFT-s-OFDM QPSK	Sensor off	1	1	372000/1860	24.50	23.90	0.516	0.034	1.15	0.592	/
	Front Side	13	DFT-s-OFDM QPSK	Sensor off	1	1	372000/1860	24.50	23.90	0.987	-0.048	1.15	1.133	/
	Left Edge	10	DFT-s-OFDM QPSK	Sensor off	1	1	372000/1860	24.50	23.90	0.548	0.150	1.15	0.629	/
	Right Edge	10	DFT-s-OFDM QPSK	Sensor off	1	1	372000/1860	24.50	23.90	0.256	0.049	1.15	0.294	/
	Top Edge	24	DFT-s-OFDM QPSK	Sensor off	1	1	372000/1860	24.50	23.90	0.139	0.096	1.15	0.160	/
	Front Side	13	DFT-s-OFDM QPSK	Sensor off	50%	25	376000/1880	24.50	23.91	1.180	-0.010	1.15	1.352	/
n26	Back Side	16	DFT-s-OFDM QPSK	Sensor off	1	1	167300/836.5	24.00	22.83	0.436	0.014	1.31	0.571	/
	Front Side	13	DFT-s-OFDM QPSK	Sensor off	1	1	167300/836.5	24.00	22.83	0.635	0.060	1.31	0.831	25
	Left Edge	10	DFT-s-OFDM QPSK	Sensor off	1	1	167300/836.5	24.00	22.83	0.155	0.029	1.31	0.203	/
	Right Edge	10	DFT-s-OFDM QPSK	Sensor off	1	1	167300/836.5	24.00	22.83	0.464	0.021	1.31	0.607	/
	Top Edge	24	DFT-s-OFDM QPSK	Sensor off	1	1	167300/836.5	24.00	22.83	0.026	0.080	1.31	0.034	/
	Right Edge	10	DFT-s-OFDM QPSK	Sensor off	50%	25	167800/839	24.00	22.76	0.415	0.011	1.33	0.552	/
n41	Back Side	16	DFT-s-OFDM QPSK	Sensor off	1	49	518598/2592.99	24.00	22.72	0.412	0.026	1.34	0.553	/
	Front Side	13	DFT-s-OFDM QPSK	Sensor off	1	49	518598/2592.99	24.00	22.72	0.919	-0.051	1.34	1.234	/
	Left Edge	10	DFT-s-OFDM QPSK	Sensor off	1	49	518598/2592.99	24.00	22.72	0.741	-0.140	1.34	0.995	/
	Right Edge	10	DFT-s-OFDM QPSK	Sensor off	1	49	518598/2592.99	24.00	22.72	0.544	0.034	1.34	0.730	/
	Top Edge	24	DFT-s-OFDM QPSK	Sensor off	1	49	518598/2592.99	24.00	22.72	0.493	0.047	1.34	0.662	/
	Left Edge	10	DFT-s-OFDM QPSK	Sensor off	50%	12	535998/2679.99	24.00	22.67	0.440	0.031	1.36	0.598	/
n77	Back Side	16	DFT-s-OFDM QPSK	Sensor off	1	49	647334/3710.01	24.00	22.58	0.274	0.066	1.39	0.380	/
	Front Side	13	DFT-s-OFDM QPSK	Sensor off	1	49	647334/3710.01	24.00	22.58	0.419	-0.090	1.39	0.581	/
	Left Edge	10	DFT-s-OFDM QPSK	Sensor off	1	49	647334/3710.01	24.00	22.58	0.177	0.013	1.39	0.245	/
	Right Edge	10	DFT-s-OFDM QPSK	Sensor off	1	49	647334/3710.01	24.00	22.58	1.050	0.150	1.39	1.456	/
	Top Edge	24	DFT-s-OFDM QPSK	Sensor off	1	49	647334/3710.01	24.00	22.58	0.086	0.024	1.39	0.119	/
	Right Edge	10	DFT-s-OFDM QPSK	Sensor off	50%	12	633334/3500.01	24.00	22.63	1.100	-0.076	1.37	1.508	/

11 Measurement Uncertainty

Per KDB865664 D01:

SAR measurement uncertainty analysis is required in SAR reports only when the highest measured SAR in a frequency band is ≥ 1.5 W/kg for 1-g SAR. The equivalent ratio (1.5/1.6) should be applied to extremity and occupational exposure conditions. The procedures described in IEEE Std 1528-2013 should be applied.

No.	Source	Evaluation Method	Uncertainty Component a_i (%)	Probability Distribution	Coverage Factor k	Weight c_i	Standard Uncertainty u_i (%)	(Equivalent) Degree of Freedom V_{eff} or V_i
1	Measurement repeatability	A	0.5	Normal	1	1	0.5	9
Measuring device								
2	- Probe calibration	B	7	Normal	1	1	7	∞
3	- Axial isotropy of probe	B	4.7	Rectangular	$\sqrt{3}$	$\sqrt{0.5}$	1.9	∞
4	- Spherical isotropy of probe	B	9.4	Rectangular	$\sqrt{3}$	$\sqrt{0.5}$	3.9	∞
5	- Boundary effect	B	1.9	Rectangular	$\sqrt{3}$	1	1.1	∞
6	- Linearity of probe	B	4.7	Rectangular	$\sqrt{3}$	1	2.7	∞
7	- Detection limit	B	1.0	Rectangular	$\sqrt{3}$	1	0.6	∞
8	- Electronic reading	B	1.0	Normal	1	1	1.0	∞
9	- Response time	B	0	Rectangular	$\sqrt{3}$	1	0	∞
10	- Integration time	B	4.32	Rectangular	$\sqrt{3}$	1	2.5	∞
11	- Noise	B	0	Rectangular	$\sqrt{3}$	1	0	∞
12	- Reflection	B	3	Rectangular	$\sqrt{3}$	1	1.73	∞
13	- Mechanical positioning of probe	B	0.4	Rectangular	$\sqrt{3}$	1	0.2	∞
14	- Probe and human body model positioning	B	2.9	Rectangular	$\sqrt{3}$	1	1.7	∞
15	- SAR extrapolation and interpolation	B	3.9	Rectangular	$\sqrt{3}$	1	2.3	∞
Uncertainties related to DUT								
16	- DUT location	A	2.9	Normal	1	1	4.92	71
17	- DUT fixture	A	4.1	Normal	1	1	4.1	5
18	- Output power drift	B	5.0	Rectangular	$\sqrt{3}$	1	2.9	∞
Physical parameters								
18	- Shell of human body model	B	4.0	Rectangular	$\sqrt{3}$	1	2.3	∞
19	- Liquid conductivity (deviation from target value)	B	5.0	Rectangular	$\sqrt{3}$	0.64	1.8	∞
20	- Liquid conductivity (measurement error)	B	0.77	Normal	1	0.64	0.493	9

21	- Liquid dielectric constant (deviation from target value)	B	5.0	Rectangular	$\sqrt{3}$	0.6	1.7	∞
22	- Liquid dielectric constant (measurement error)	B	0.29	Normal	1	0.6	0.174	9
Combined standard uncertainty		$u'_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$					11.36	
Expanded uncertainty (95% confidence interval)		$u_e = 2u_c$		Normal	k=2		22.72	

Therefore, the combined relative standard uncertainty is

$$u'_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$$

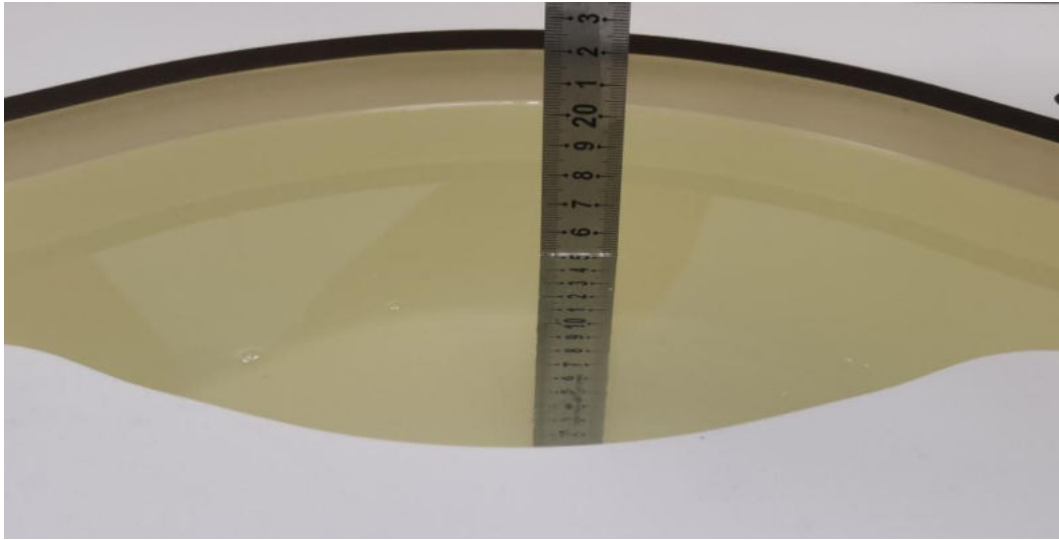
$$= 11.36\%$$

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: 2025/8/18

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

Medium parameters used: $f = 750$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.8$; $\rho = 1000$ 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: SAM1; Type: SAM; Serial: TP-1534

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

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

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

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

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

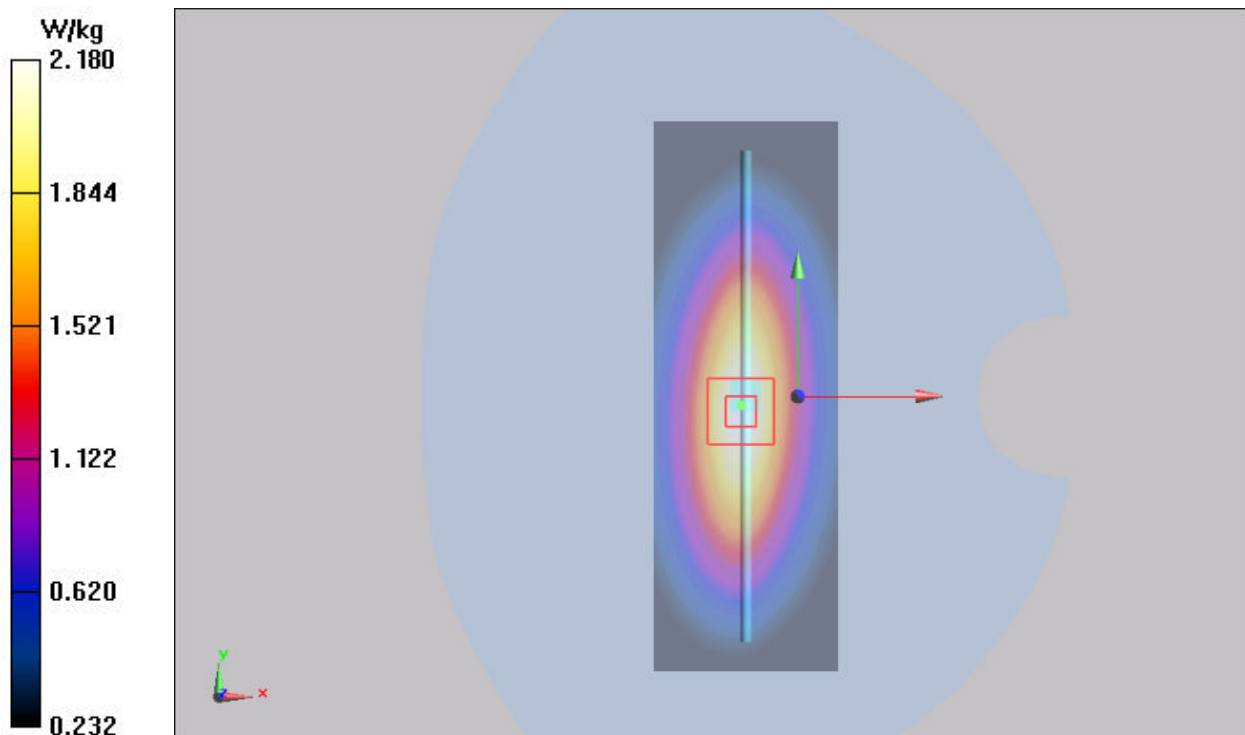
Peak SAR (extrapolated) = 3.10 W/kg

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

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

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

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



Plot 2 System Performance Check at 835 MHz TSL

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

Date: 2025/8/19

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: $22.3 \text{ }^\circ\text{C}$ Liquid Temperature: $21.5 \text{ }^\circ\text{C}$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

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

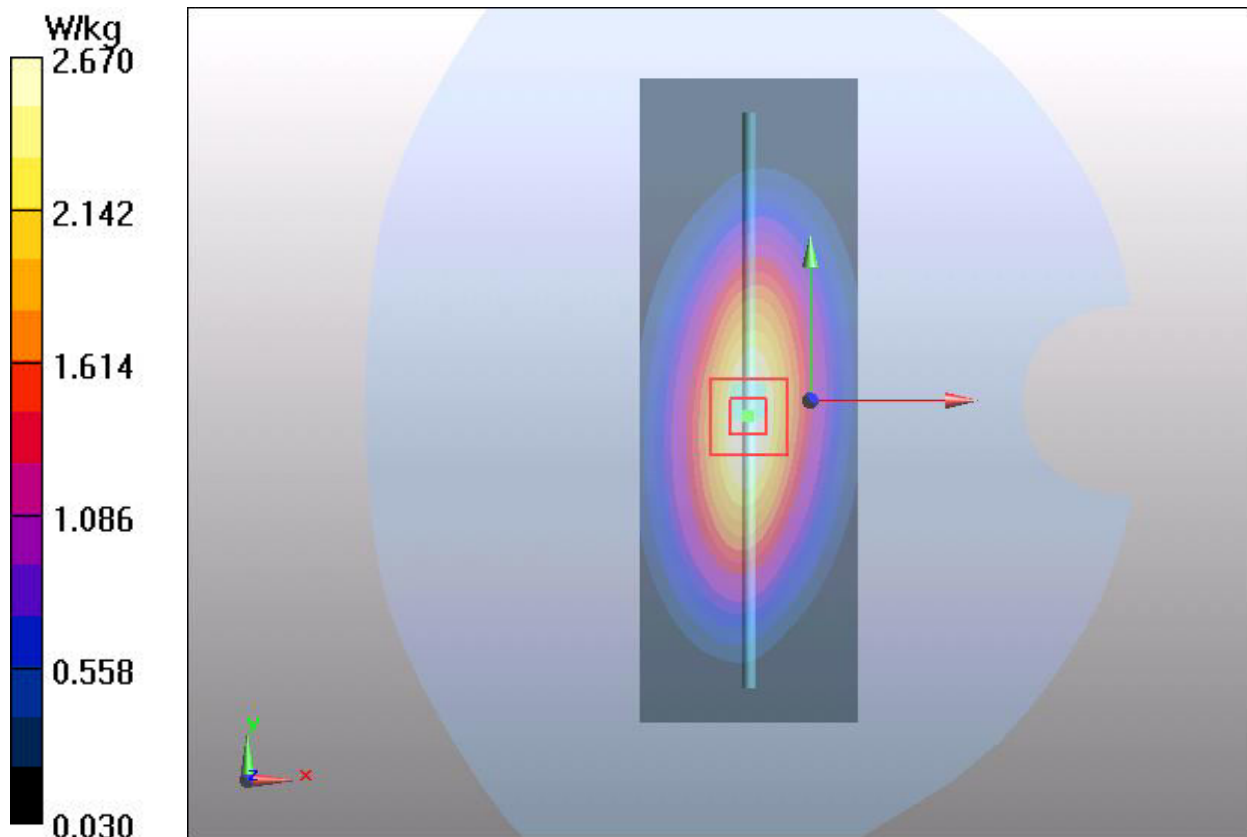
Peak SAR (extrapolated) = 3.94 W/kg

SAR(1 g) = 2.51 W/kg ; SAR(10 g) = 1.54 W/kg

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

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

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



Plot 3System Performance Check at 1750 MHz TSL

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

Date: 2025/8/24

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.35$ 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 (interpolated) = 9.75 W/kg

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

Reference Value = 78.468V/m; Power Drift = 0.100 dB

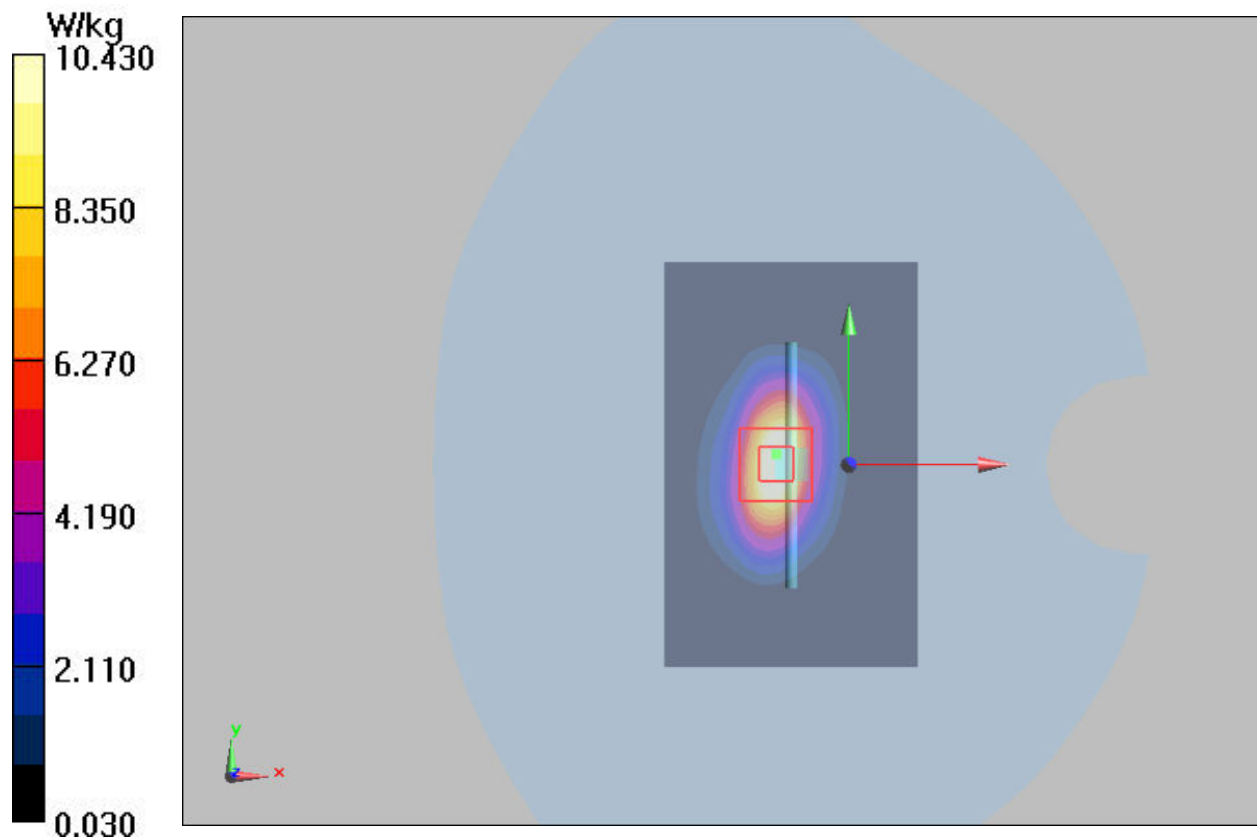
Peak SAR (extrapolated) = 17.51 W/kg

SAR(1 g) = 9.11 W/kg; SAR(10 g) = 4.82 W/kg

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

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

Maximum value of SAR (measured) = 10.43 W/kg



Plot 4 System Performance Check at 1900 MHz TSL**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2**

Date: 2025/8/22

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

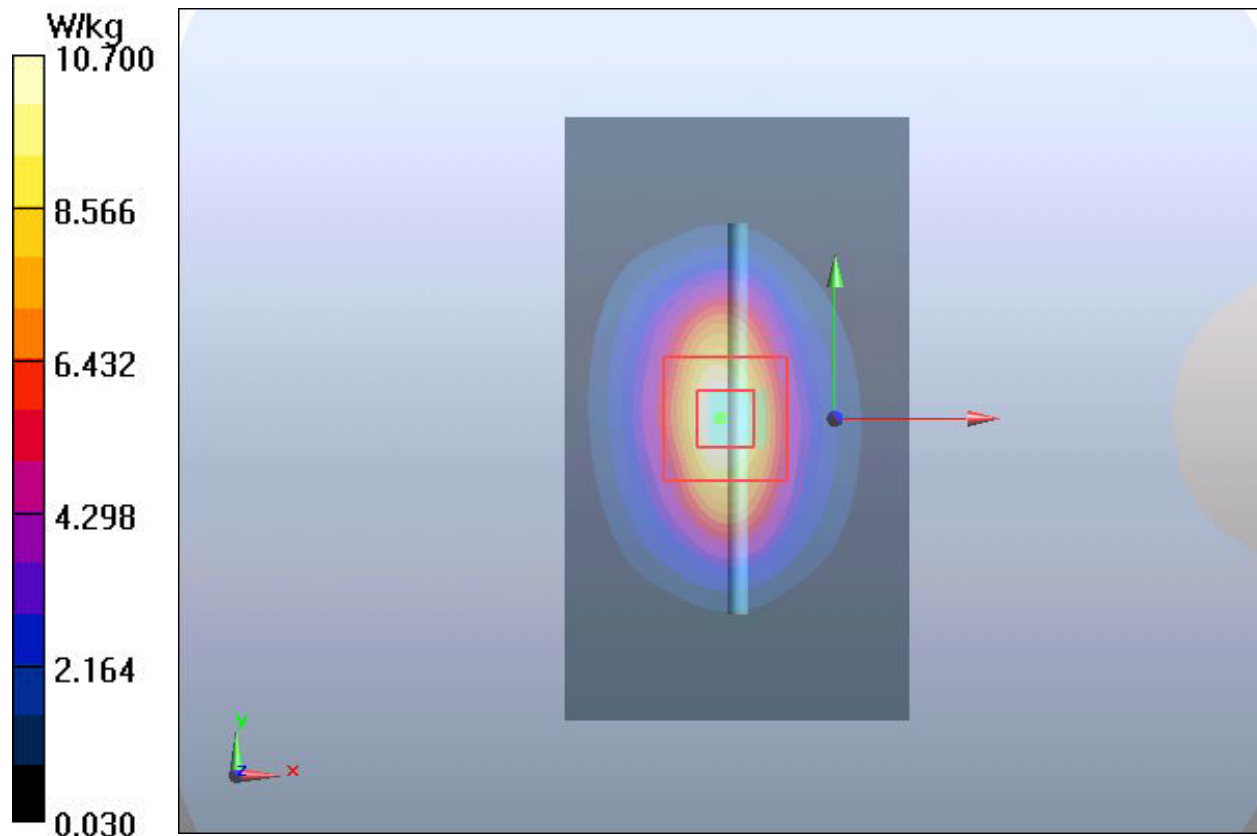
Peak SAR (extrapolated) = 17.84 W/kg

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 5 System Performance Check at 1900 MHz**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2**

Date: 2025/8/23

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.34$ S/m; $\epsilon_r = 40.5$; $\rho = 1000$ 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(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 (interpolated) = 11.21 W/kg

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

Reference Value = 86.253 V/m; Power Drift = 0.017 dB

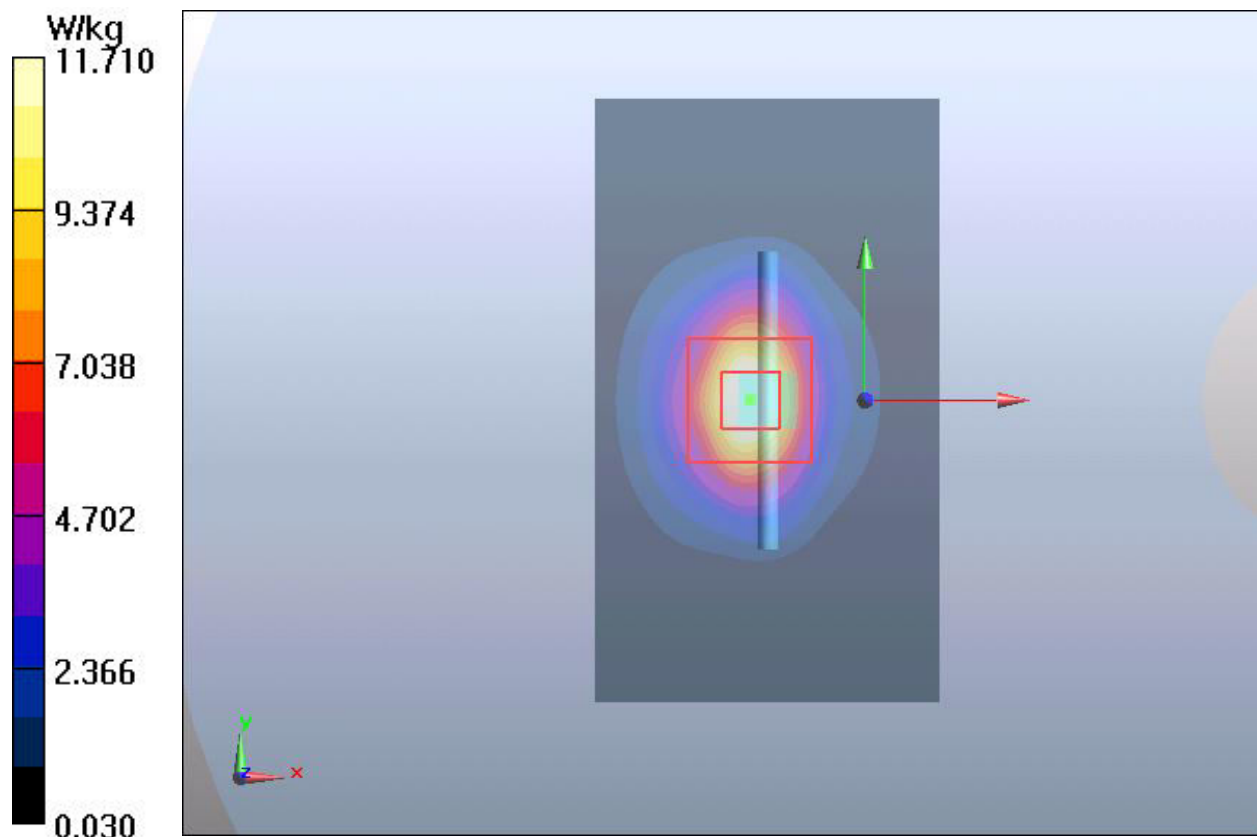
Peak SAR (extrapolated) = 20.05 W/kg

SAR(1 g) = 9.60 W/kg; SAR(10 g) = 4.98 W/kg

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

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

Maximum value of SAR (measured) = 11.71 W/kg



Plot 6 System Performance Check at 2300 MHz TSL

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

Date: 2025/8/26

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

Medium parameters used: $f = 2300$ MHz; $\sigma = 1.64$ 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(7.79, 7.79, 7.79); 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 (6x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 12.96 W/kg

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

Reference Value = 87.215 V/m; Power Drift = 0.029 dB

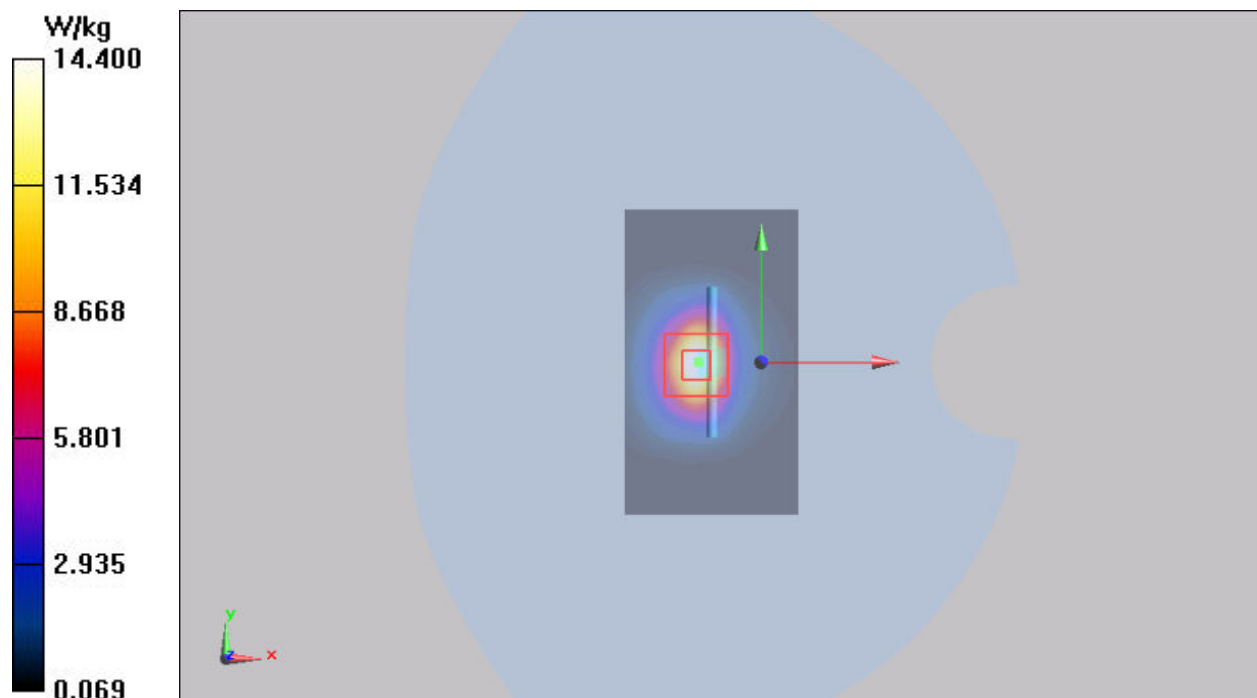
Peak SAR (extrapolated) = 24.83 W/kg

SAR(1 g) = 12.32 W/kg; SAR(10 g) = 5.89 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 53.7%

Maximum value of SAR (measured) = 14.40W/kg



Plot 7 System Performance Check at 2600 MHz TSL

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

Date: 2025/8/25

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

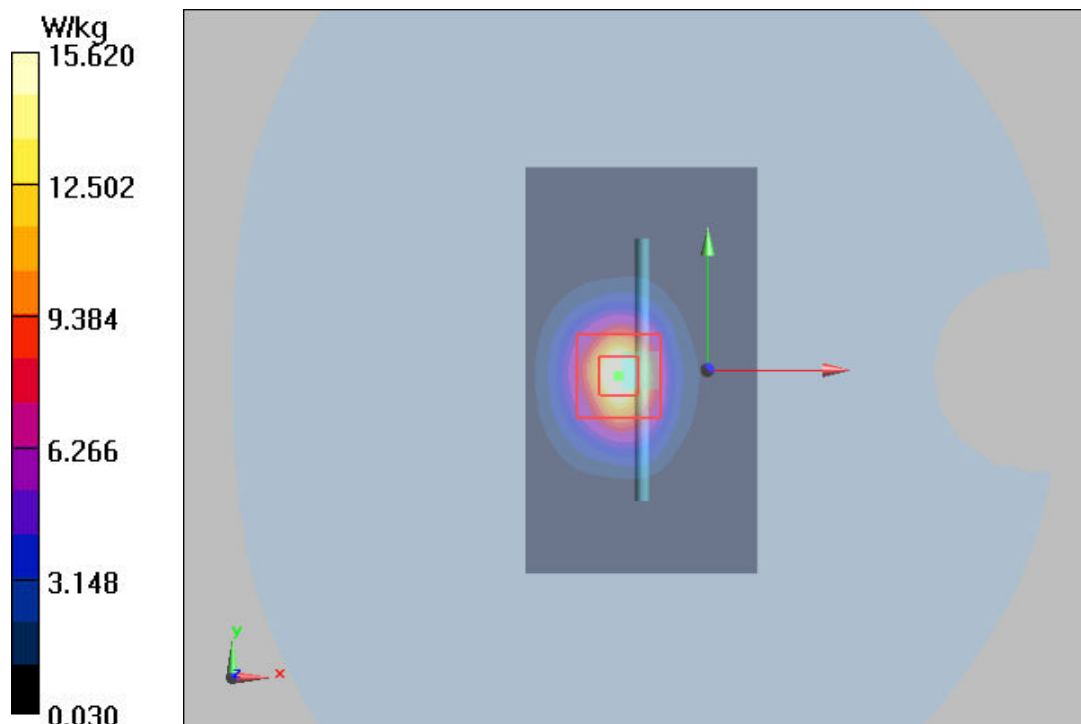
Peak SAR (extrapolated) = 31.85W/kg

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 8 System Performance Check at 2600 MHz TSL

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

Date: 2025/9/1

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.970$ S/m; $\epsilon_r = 39.300$; $\rho = 1000$ 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) = 15.2 W/kg

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

Reference Value = 101.7 V/m; Power Drift = -0.033 dB

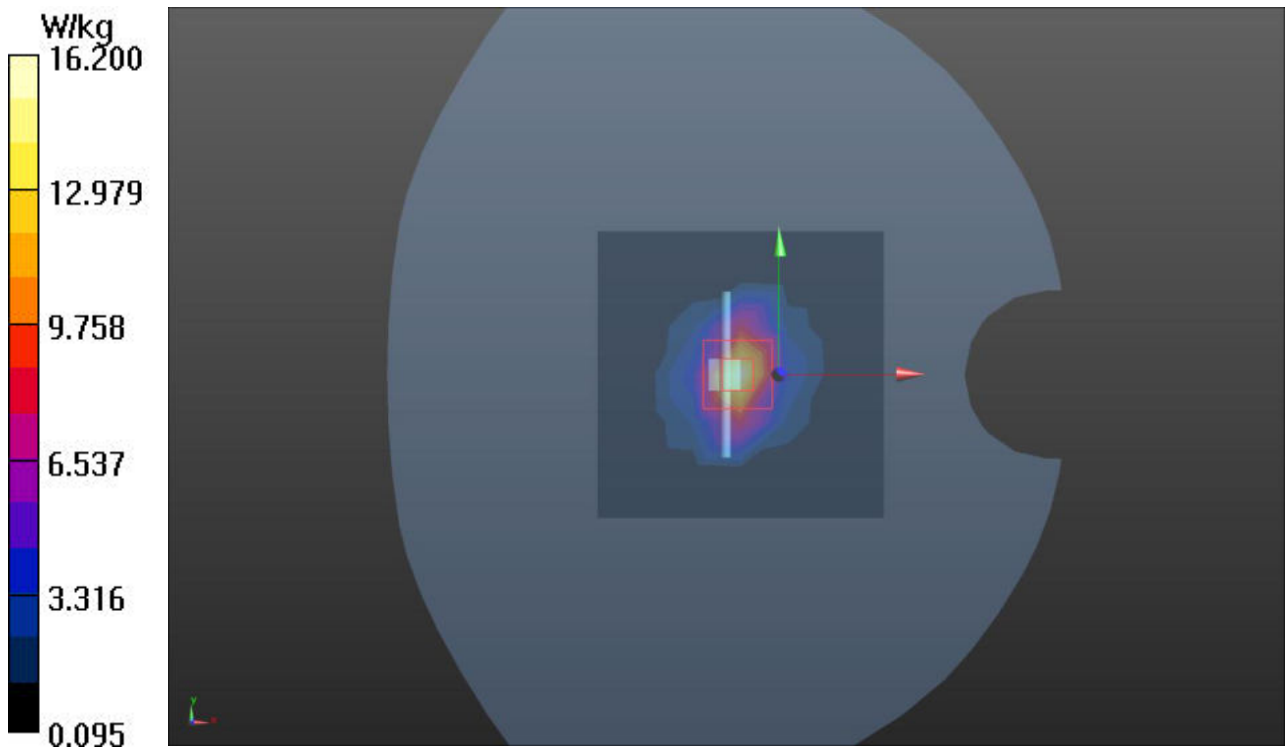
Peak SAR (extrapolated) = 25.8 W/kg

SAR(1 g) = 13.92 W/kg; SAR(10 g) = 6.13 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 44.6%

Maximum value of SAR (measured) = 16.2 W/kg



Plot 9 System Performance Check at 3500 MHz TSL

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: D3500V2

Date: 2025/9/3

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3500$ MHz; $\sigma = 2.89$ S/m; $\epsilon_r = 37.9$; $\rho = 1000$ 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(6.91, 6.91, 6.91); 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) = 9.57 W/kg

d=10mm, Pin=100mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 48.147 V/m; Power Drift = 0.034 dB

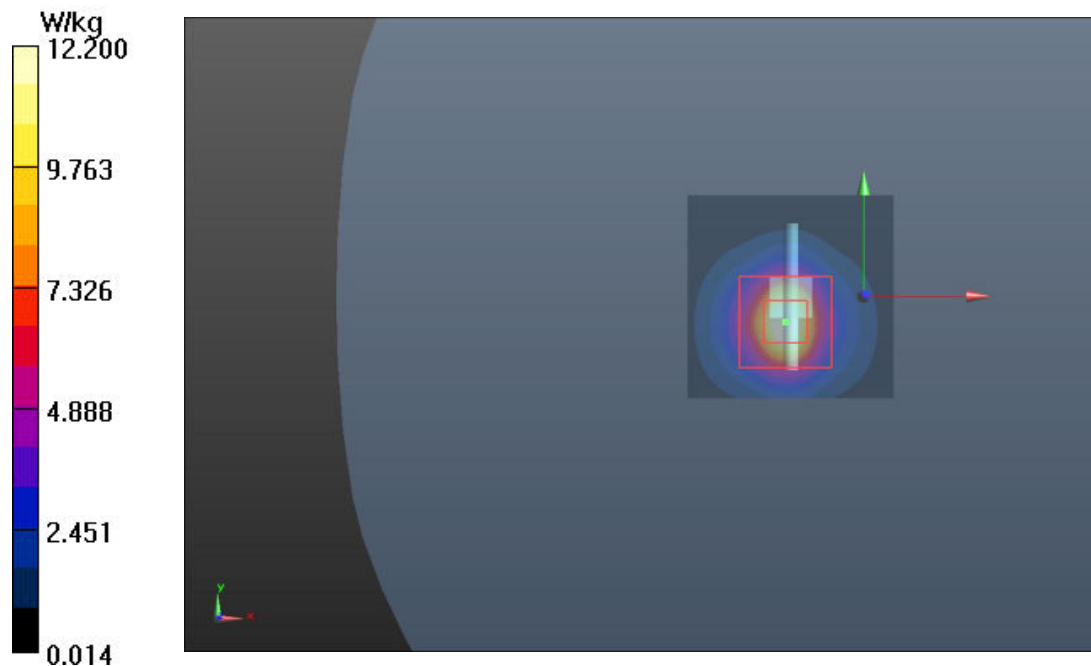
Peak SAR (extrapolated) = 18.13 W/kg

SAR(1 g) = 6.55 W/kg; SAR(10 g) = 2.54 W/kg

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

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

Maximum value of SAR (measured) = 12.20 W/kg



Plot 10 System Performance Check at 3700 MHz TSL

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2

Date: 2025/9/3

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3700$ MHz; $\sigma = 3.03$ S/m; $\epsilon_r = 38.1$; $\rho = 1000$ 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(6.75, 6.75, 6.75); 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) = 10.82 W/kg

d=10mm, Pin=100mW /Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 44.368 V/m; Power Drift = 0.036 dB

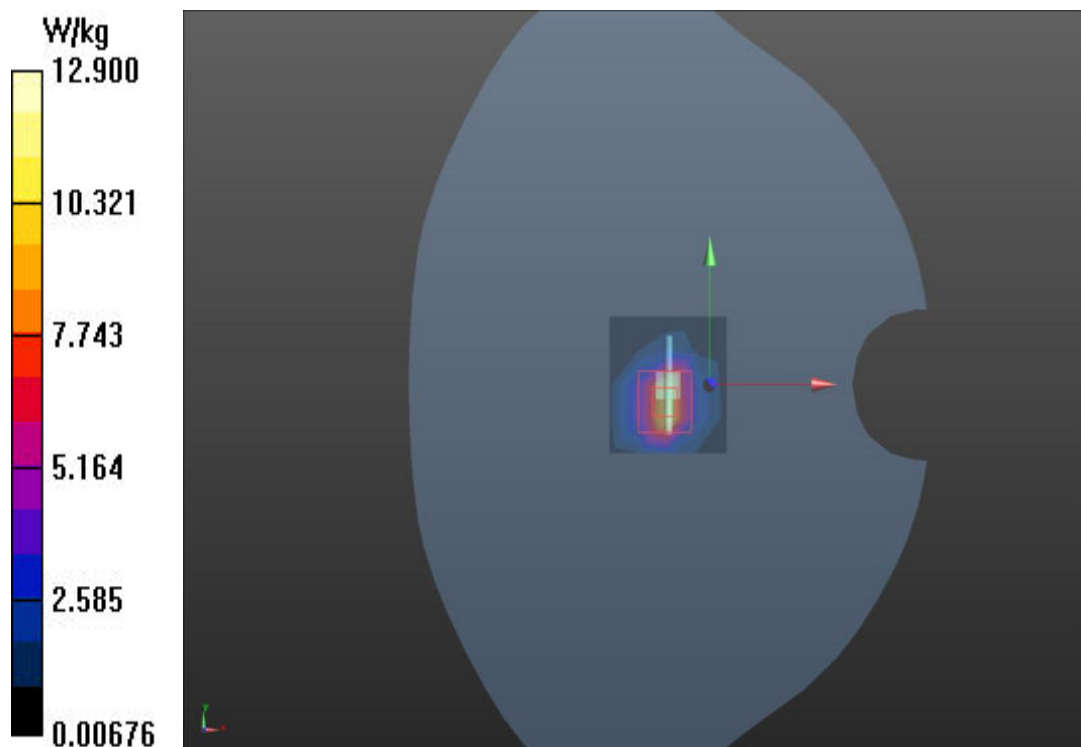
Peak SAR (extrapolated) = 17.15 W/kg

SAR(1 g) = 6.61 W/kg; SAR(10 g) = 2.54 W/kg

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

Ratio of SAR at M2 to SAR at M1= 56.3%

Maximum value of SAR (measured) = 12.900 W/kg



Plot 11 System Performance Check at 3900 MHz TSL

DUT: Dipole 3900 MHz; Type: D3900V2; Serial: D3900V2

Date: 2025/9/3

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3900$ MHz; $\sigma = 3.42$ S/m; $\epsilon_r = 37.9$; $\rho = 1000$ 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(6.65, 6.65, 6.65); 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) = 8.94 W/kg

d=10mm, Pin=100mW /Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 47.545 V/m; Power Drift = 0.17 dB

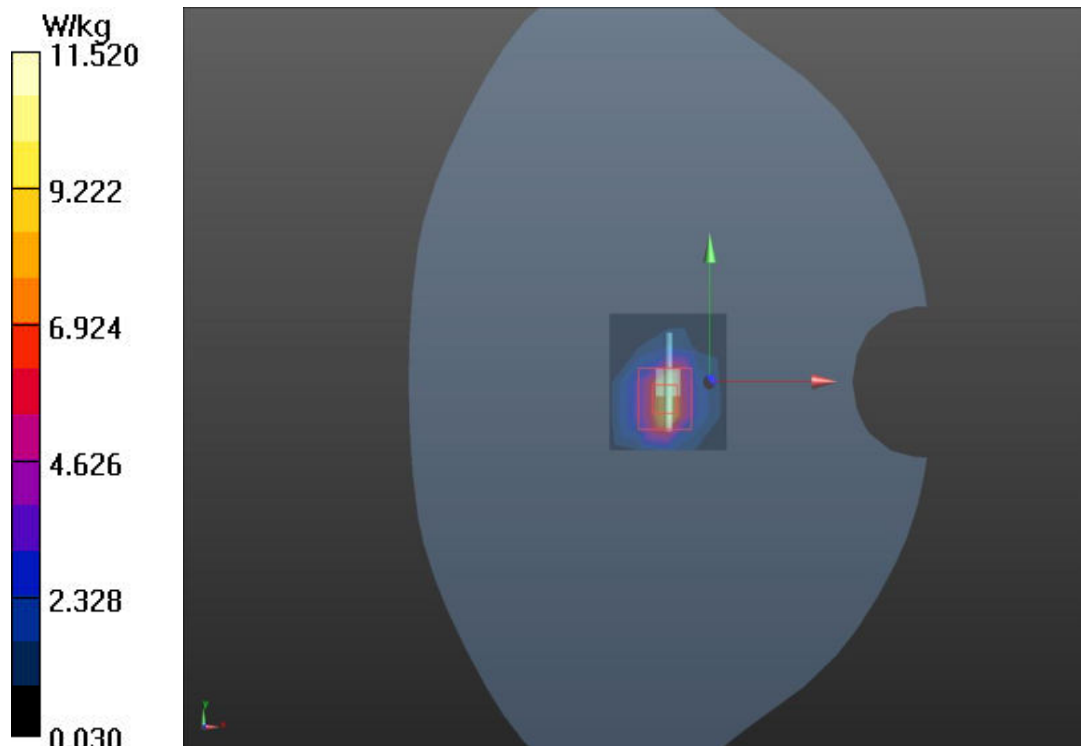
Peak SAR (extrapolated) = 18.22 W/kg

SAR(1 g) = 6.83 W/kg; SAR(10 g) = 2.47 W/kg

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

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

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



ANNEX C: Highest Graph Results

Plot 12 LTE Band 2 1RB Front Side Low (Distance 5mm)

Date: 2025/8/22

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 B2 1RB Front Side 5mm/Low/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.01 W/kg

LTE B2 1RB Front Side 5mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.09 V/m; Power Drift = 0.019 dB

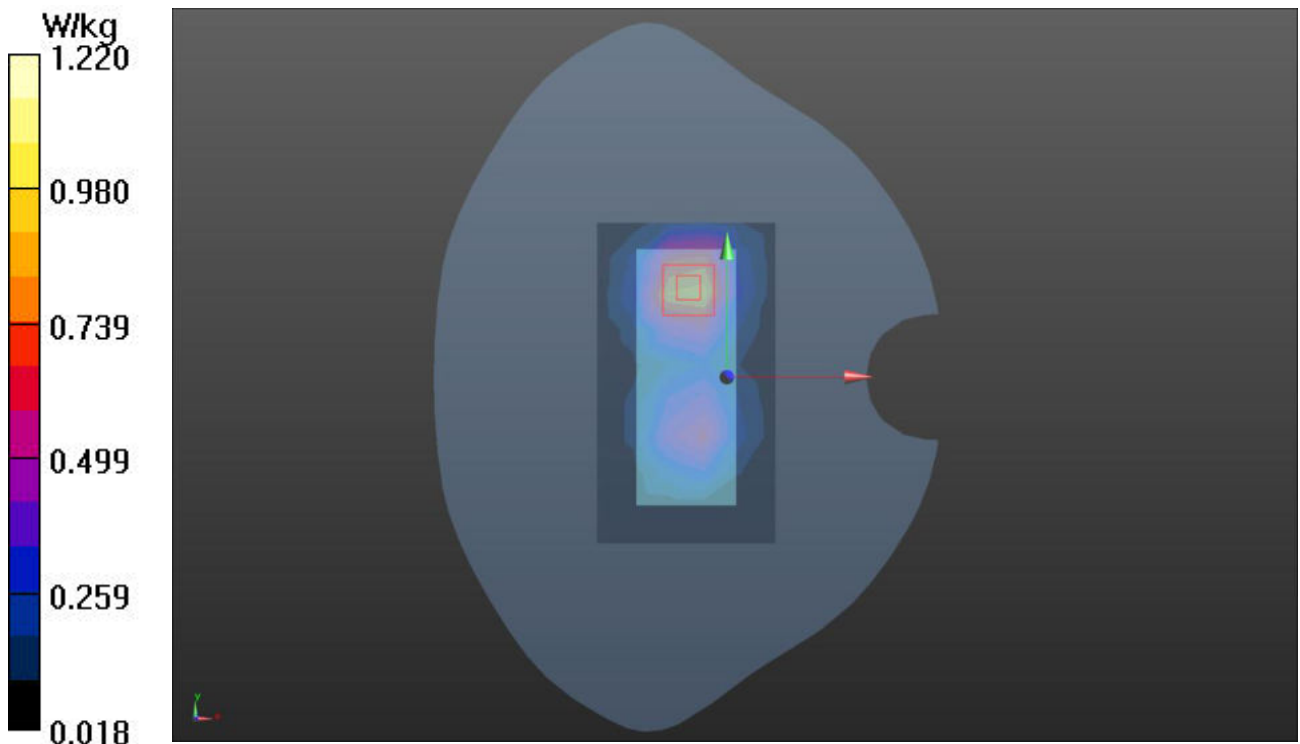
Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.583 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 60.3%

Maximum value of SAR (measured) = 1.22 W/kg



Plot 13 LTE Band 7 1RB Front Side Low (Distance 5mm)

Date: 2025/9/1

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 Front Side 5mm/Low/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 1.33 W/kg

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

Reference Value = 21.40 V/m; Power Drift = -0.029 dB

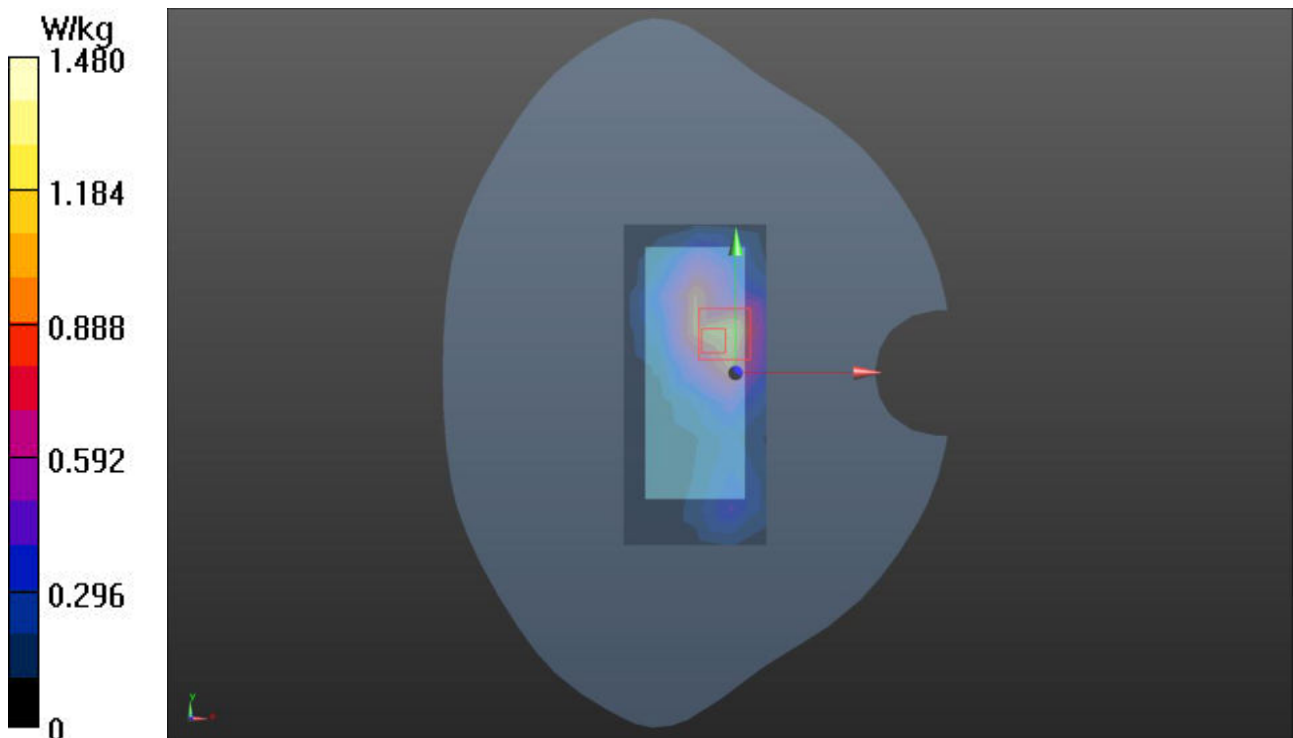
Peak SAR (extrapolated) = 4.85 W/kg

SAR(1 g) = 1.34 W/kg; SAR(10 g) = 0.573 W/kg

Smallest distance from peaks to all points 3 dB below = 13.6 mm

Ratio of SAR at M2 to SAR at M1 = 51%

Maximum value of SAR (measured) = 1.48 W/kg



Plot 14 LTE Band 12 50%RB Back Side High (Distance 5mm)

Date: 2025/8/18

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 Back Side 5mm/High/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.795 W/kg

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

Reference Value = 0 V/m; Power Drift = 0.03 dB

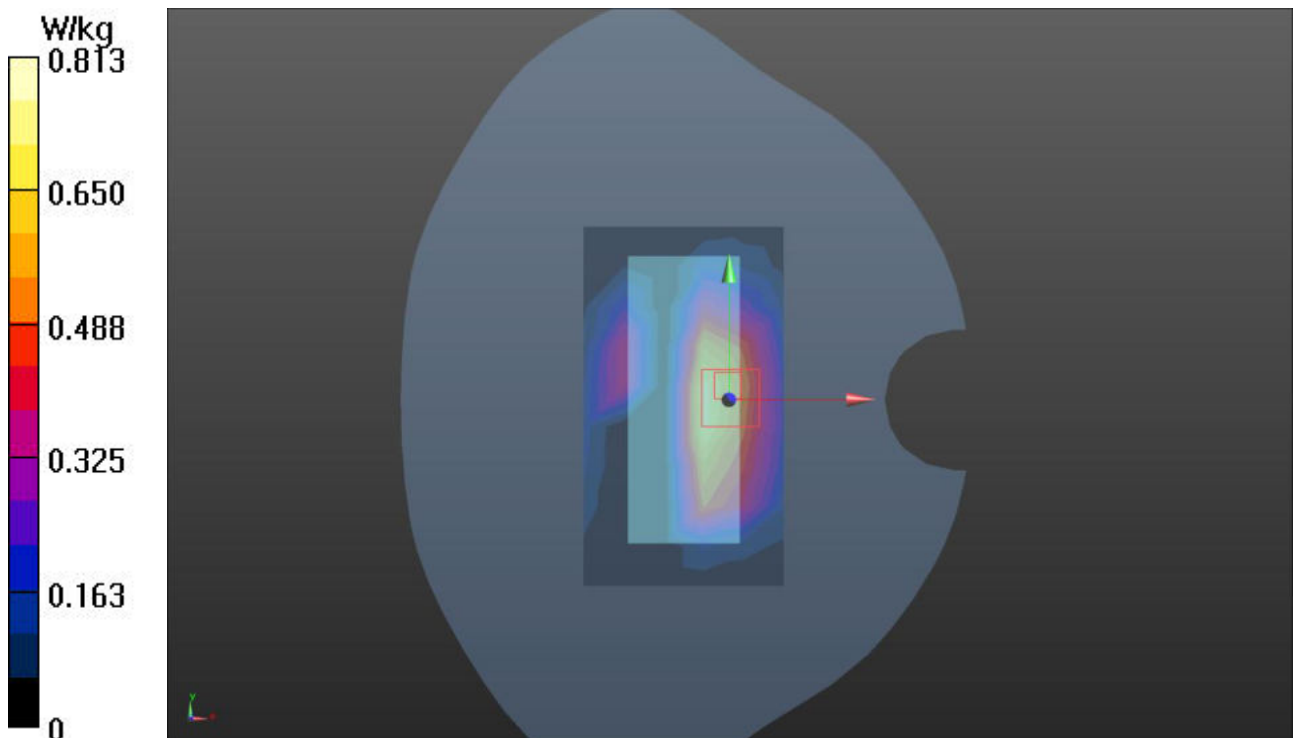
Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.792 W/kg; SAR(10 g) = 0.387 W/kg

Smallest distance from peaks to all points 3 dB below = 13.6 mm

Ratio of SAR at M2 to SAR at M1 = 73.9%

Maximum value of SAR (measured) = 0.813 W/kg



Plot 15 LTE Band 13 1RB Front Side Middle (Distance 5mm)

Date: 2025/8/18

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 Front Side 5mm/Mid/Area Scan (6x10x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.806 W/kg

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

Reference Value = 28.68 V/m; Power Drift = 0.01 dB

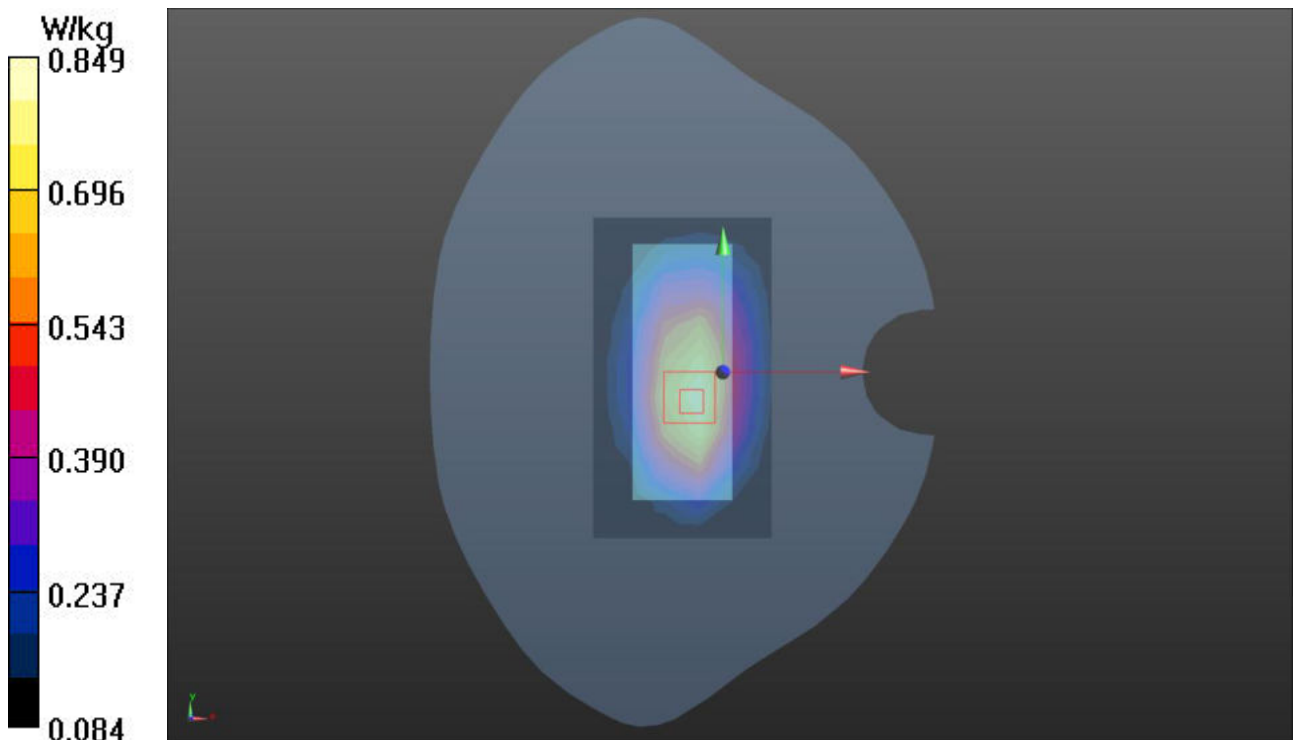
Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.794 W/kg; SAR(10 g) = 0.542 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 71%

Maximum value of SAR (measured) = 0.849 W/kg



Plot 16 LTE Band 14 1RB Front Side Middle (Distance 5mm)

Date: 2025/8/18

Communication System: UID 0, LTE (0); Frequency: 793 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 793 \text{ MHz}$; $\sigma = 0.936 \text{ S/m}$; $\epsilon_r = 42.436$; $\rho = 1000 \text{ kg/m}^3$

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 B14 1RB Front Side 5mm/Mid/Area Scan (6x10x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.705 W/kg

LTE B14 1RB Front Side 5mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.65 V/m ; Power Drift = 0.11 dB

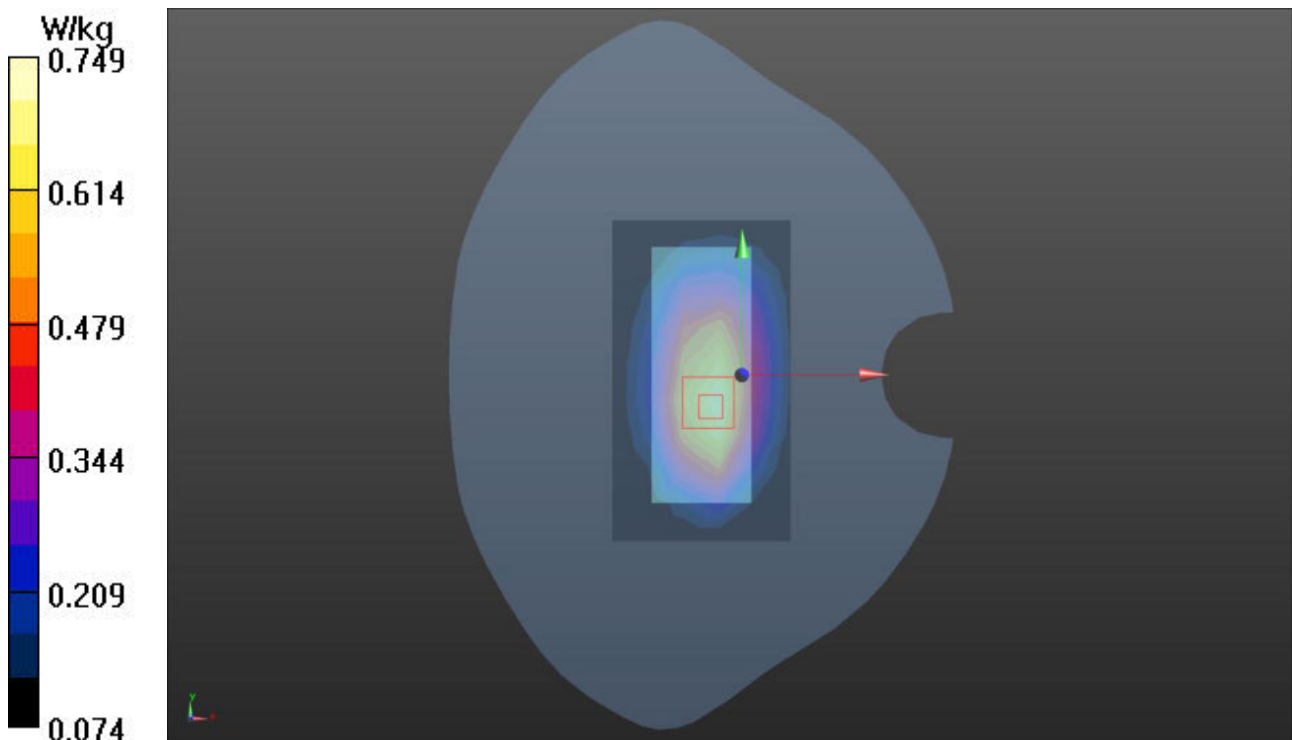
Peak SAR (extrapolated) = 0.997 W/kg

SAR(1 g) = 0.702 W/kg ; SAR(10 g) = 0.479 W/kg

Smallest distance from peaks to all points 3 dB below = 14.9 mm

Ratio of SAR at M2 to SAR at M1 = 71.1%

Maximum value of SAR (measured) = 0.749 W/kg



Plot 17 LTE Band 26 1RB Front Side Middle (Distance 5mm)

Date: 2025/8/19

Communication System: UID 0, LTE (0); Frequency: 819 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 819$ MHz; $\sigma = 0.943$ S/m; $\epsilon_r = 42.401$; $\rho = 1000$ 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 Front Side 5mm/Mid/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.796 W/kg

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

Reference Value = 28.16 V/m; Power Drift = -0.033 dB

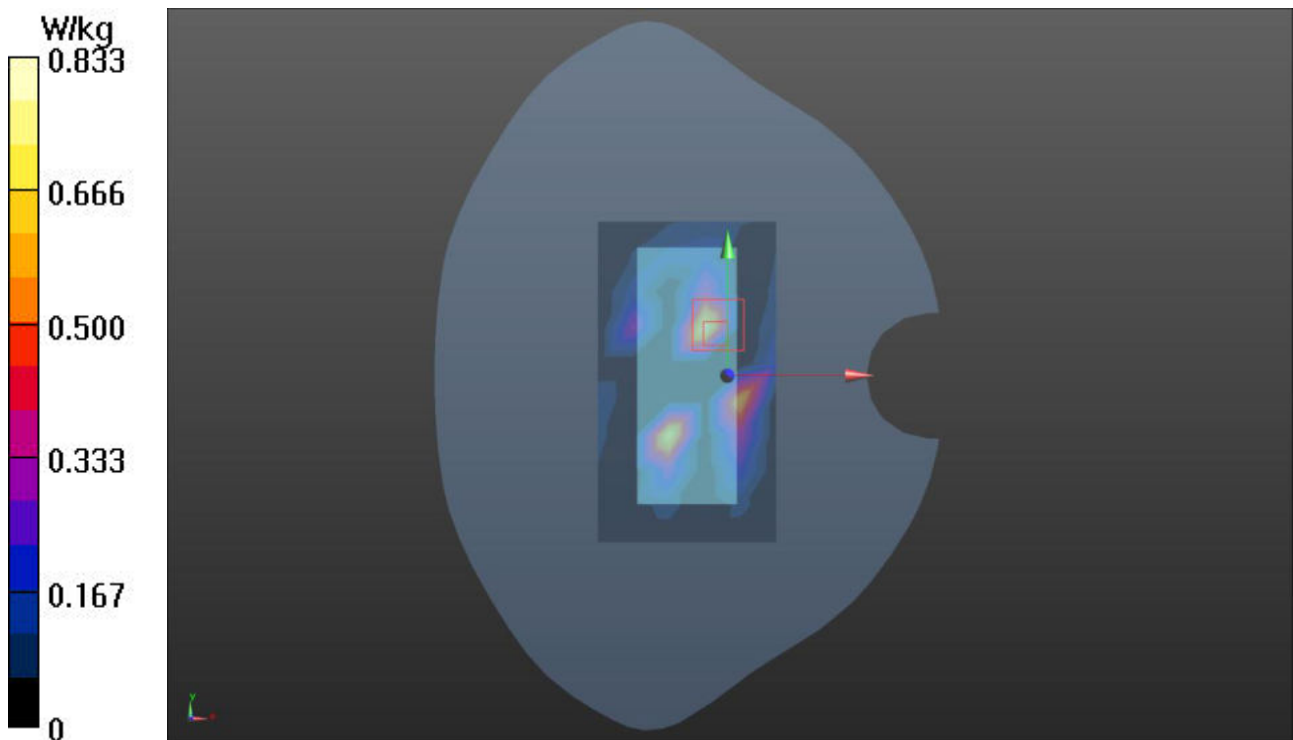
Peak SAR (extrapolated) = 2.25 W/kg

SAR(1 g) = 0.767 W/kg; SAR(10 g) = 0.263 W/kg

Smallest distance from peaks to all points 3 dB below = 13.2 mm

Ratio of SAR at M2 to SAR at M1 = 75.4%

Maximum value of SAR (measured) = 0.833 W/kg



Plot 18 LTE Band 30 1RB Front Side Middle (Distance 5mm)

Date: 2025/8/26

Communication System: UID 0, LTE (0); Frequency: 2310 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2310$ MHz; $\sigma = 1.681$ S/m; $\epsilon_r = 38.992$; $\rho = 1000$ kg/m³

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

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

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

Electronics: DAE4 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 B30 1RB Front Side 5mm/Mid/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 1.22 W/kg

LTE B30 1RB Front Side 5mm/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.78 V/m; Power Drift = 0.03 dB

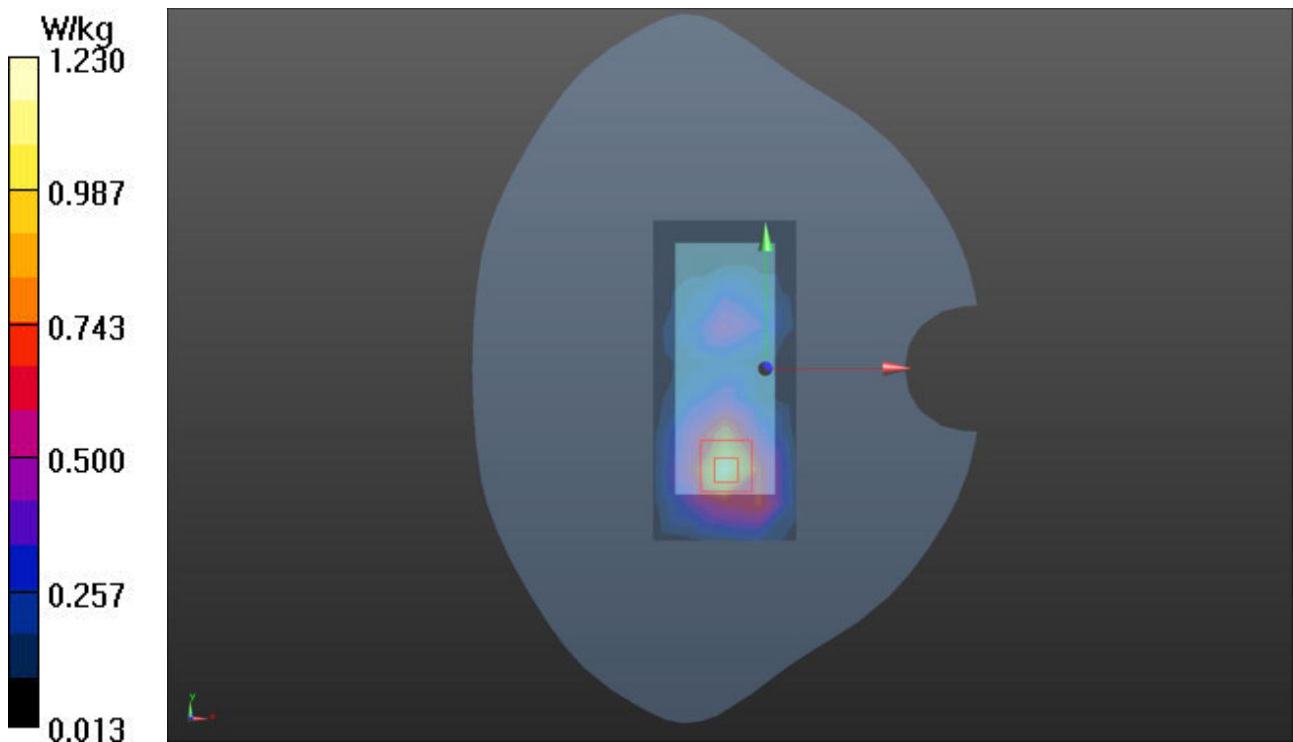
Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.639 W/kg

Smallest distance from peaks to all points 3 dB below = 13.2 mm

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

Maximum value of SAR (measured) = 1.23 W/kg



Plot 19 LTE Band 41 1RB Front Side Low (Distance 5mm)

Date: 2025/8/25

Communication System: UID 0, LTE (0); Frequency: 2506 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated): $f = 2506$ MHz; $\sigma = 1.901$ S/m; $\epsilon_r = 38.266$; $\rho = 1000$ 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 1RB Front Side 5mm/Low/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.47 W/kg

LTE B41 1RB Front Side 5mm/Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.633 V/m; Power Drift = 0.16 dB

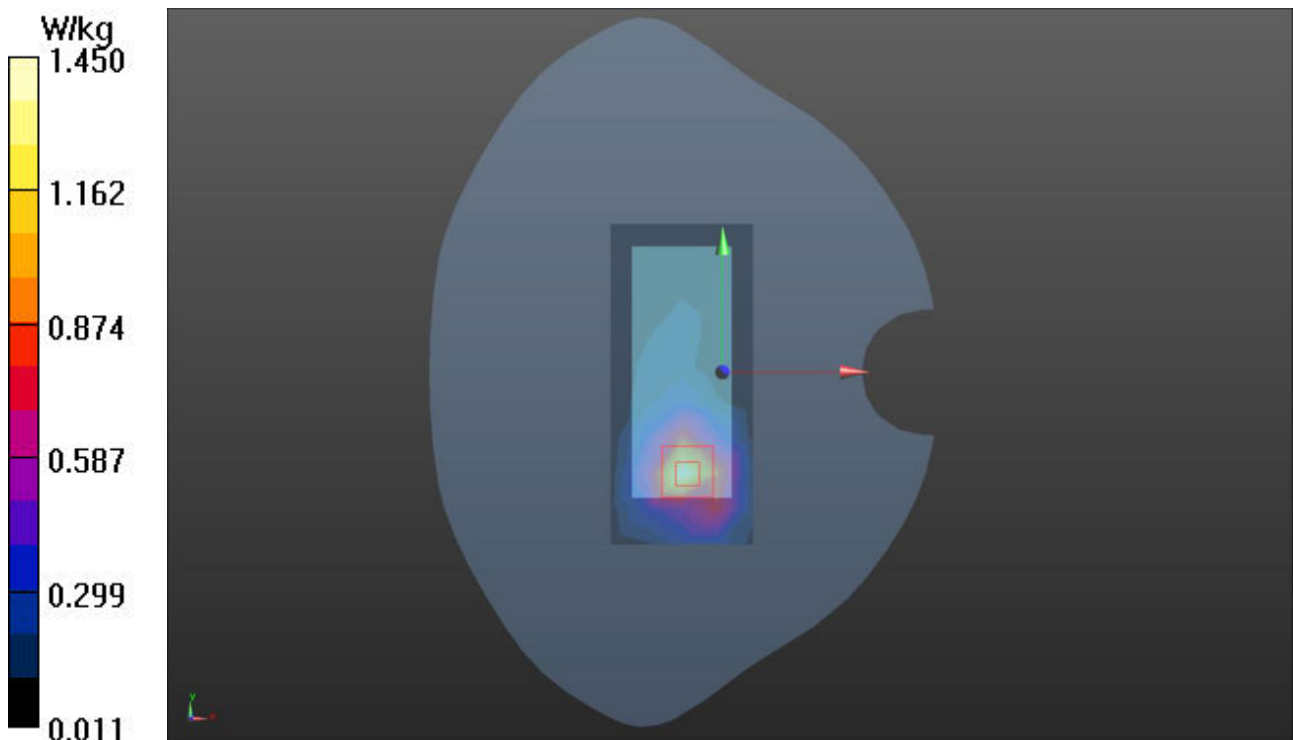
Peak SAR (extrapolated) = 2.50 W/kg

SAR(1 g) = 1.33 W/kg; SAR(10 g) = 0.673 W/kg

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

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

Maximum value of SAR (measured) = 1.45 W/kg



Plot 20 LTE Band 42 1RB Back Side High (Distance 5mm)

Date: 2025/9/3

Communication System: UID 0, LTE (0); Frequency: 3500 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 3500$ MHz; $\sigma = 2.693$ S/m; $\epsilon_r = 39.875$; $\rho = 1000$ 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(6.91, 6.91, 6.91); 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 B42 1RB Back Side 5mm/Mid/Area Scan (9x15x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.679 W/kg

LTE B42 1RB Back Side 5mm/Mid/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.847 V/m; Power Drift = 0.061 dB

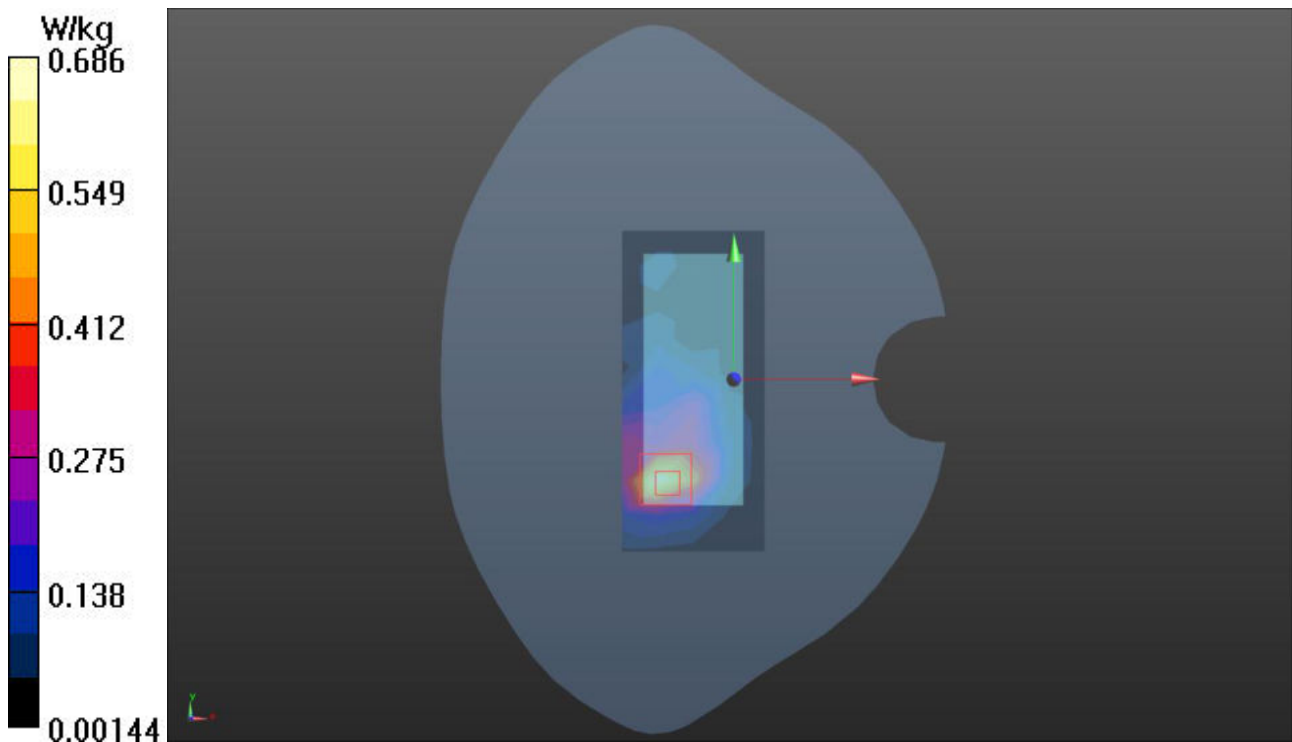
Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.617 W/kg; SAR(10 g) = 0.265 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 44.6%

Maximum value of SAR (measured) = 0.686 W/kg



Plot 21 LTE Band 66 1RB Back Side Low (Distance 5mm)

Date: 2025/8/24

Communication System: UID 0, LTE (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.265$ S/m; $\epsilon_r = 38.975$; $\rho = 1000$ 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 Back Side 5mm/Low/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.11 W/kg

LTE B66 1RB Back Side 5mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.58 V/m; Power Drift = 0.01 dB

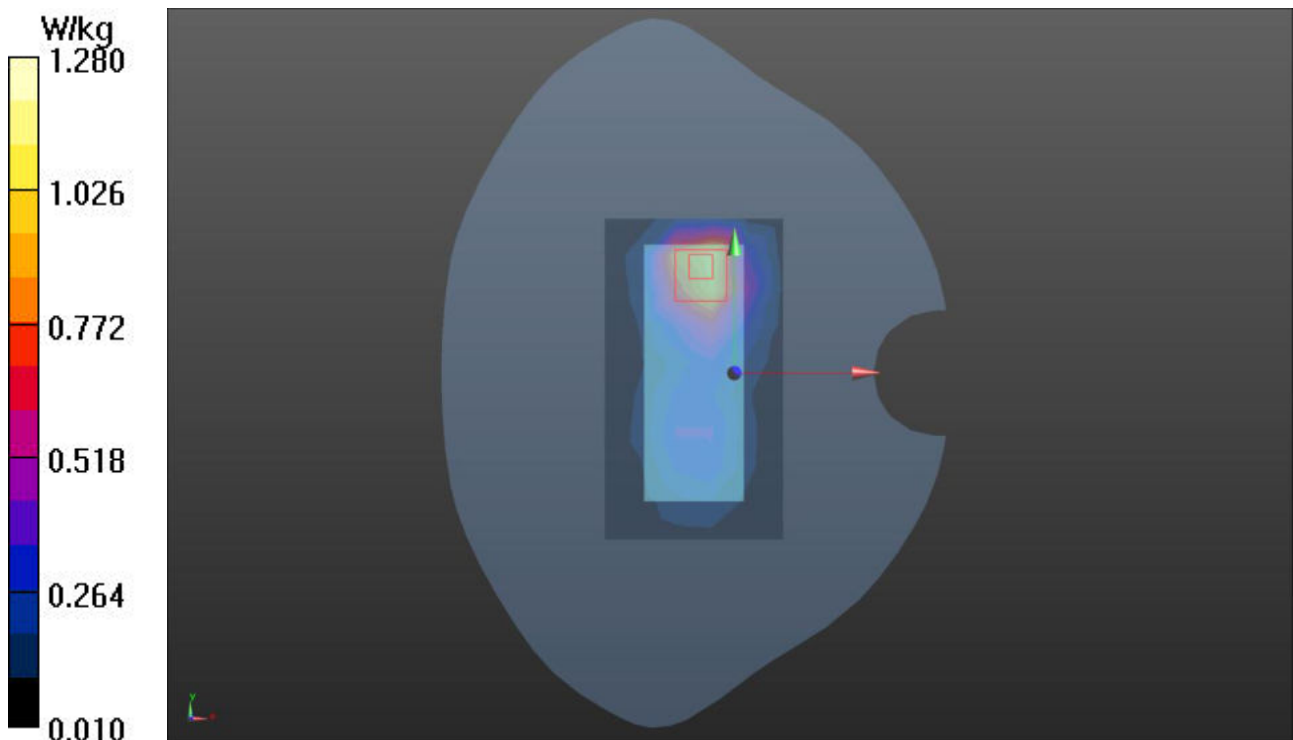
Peak SAR (extrapolated) = 2.26 W/kg

SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.659 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.5%

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



Plot 22 NR n2 50%RB Front Side Middle (Distance 5mm)

Date: 2025/8/23

Communication System: UID 0, 5G NR (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)

NR n2 50%RB Front Side 5mm/Mid/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.23 W/kg

NR n2 50%RB Front Side 5mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.00 V/m; Power Drift = 0.03 dB

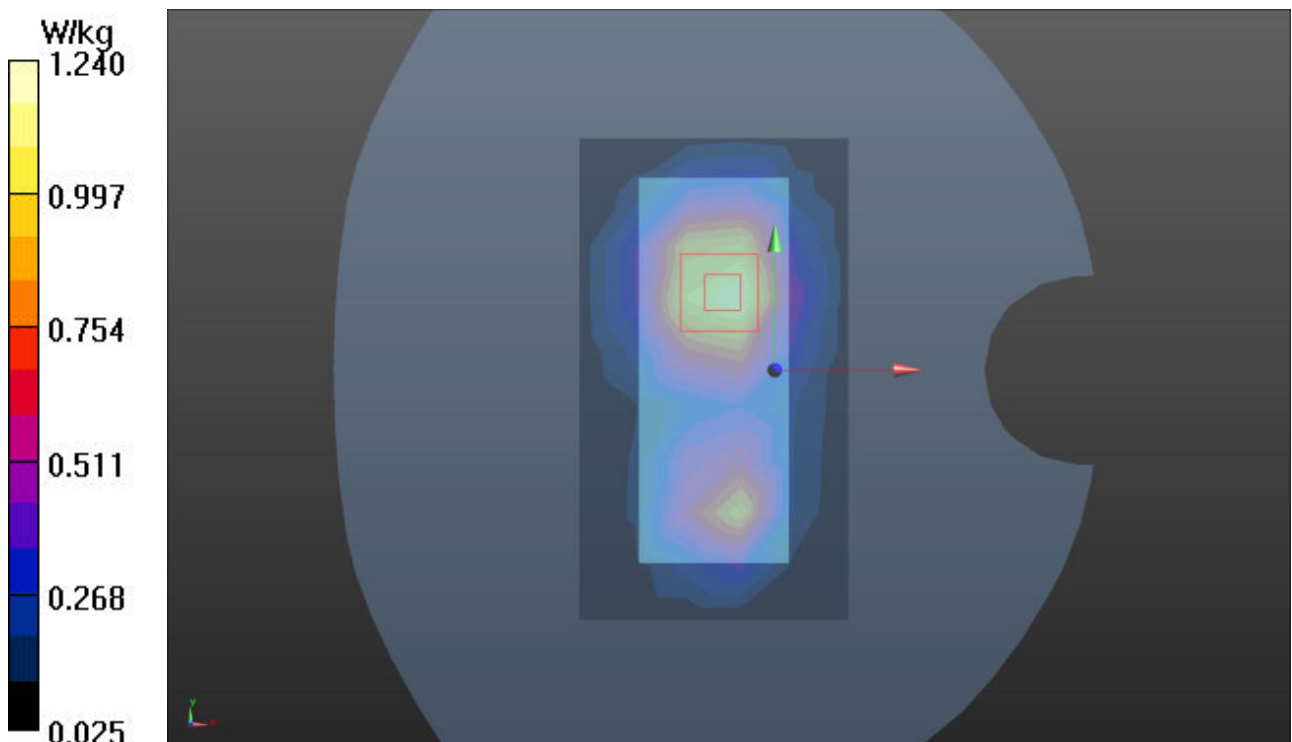
Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.695 W/kg

Smallest distance from peaks to all points 3 dB below = 16.5 mm

Ratio of SAR at M2 to SAR at M1 = 62.7%

Maximum value of SAR (measured) = 1.24 W/kg



Plot 23 NR n41 50%RB Front Side Middle (Distance 5mm)

Date: 2025/9/1

Communication System: UID 0, 5G NR (0); Frequency: 2592.99 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2592.99$ MHz; $\sigma = 2.002$ S/m; $\epsilon_r = 37.935$; $\rho = 1000$ 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)

NR n41 50%RB Front Side 5mm/Mid/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 1.39 W/kg

NR n41 50%RB Front Side 5mm/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.65 V/m; Power Drift = 0.03 dB

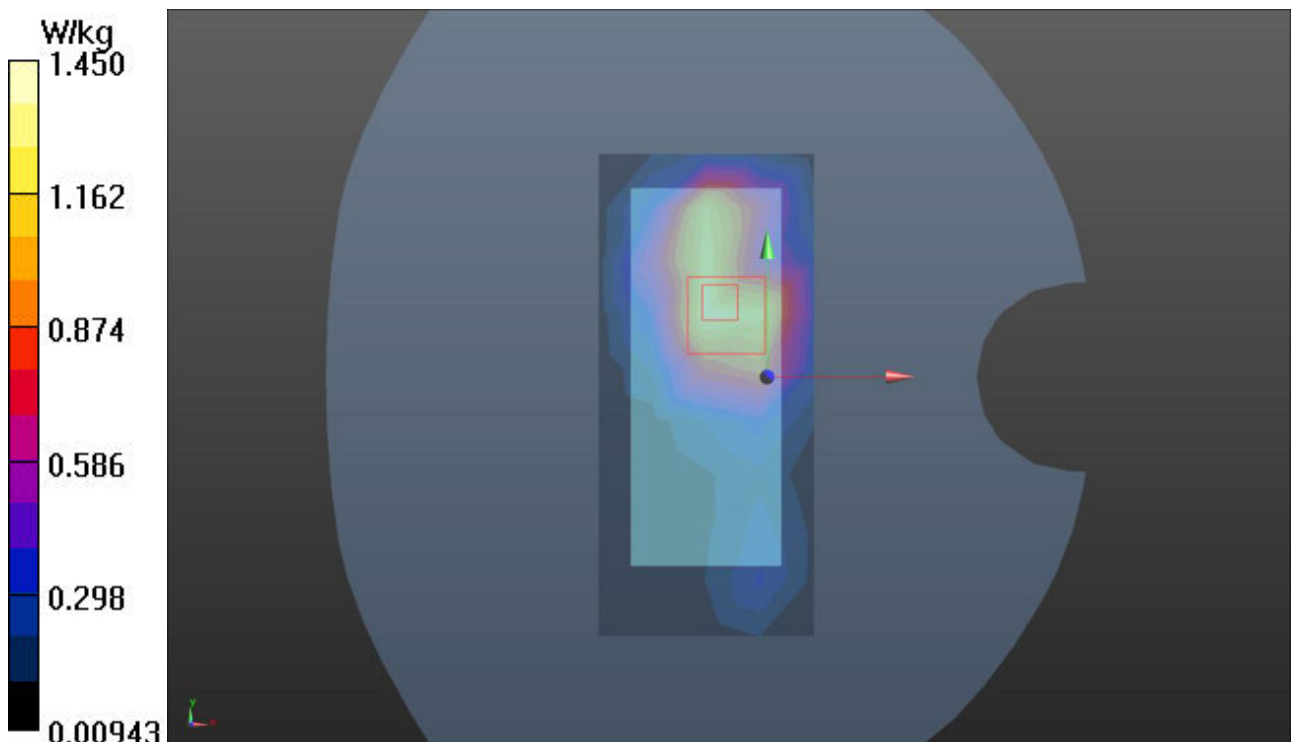
Peak SAR (extrapolated) = 2.69 W/kg

SAR(1 g) = 1.34 W/kg; SAR(10 g) = 0.710 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 49.3%

Maximum value of SAR (measured) = 1.45 W/kg



Plot 24 NR n78 50%RB Right Edge High (Distance 5mm)

Date: 2025/9/3

Communication System: UID 0, 5G NR (0); Frequency: 3789.99 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3790$ MHz; $\sigma = 3.013$ S/m; $\epsilon_r = 39.132$; $\rho = 1000$ 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(6.75, 6.75, 6.75); 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)

NR n78 50%RB Right Edge 5mm/High/Area Scan (9x15x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.42 W/kg

NR n78 50%RB Right Edge 5mm/High/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.602 V/m; Power Drift = 0.026 dB

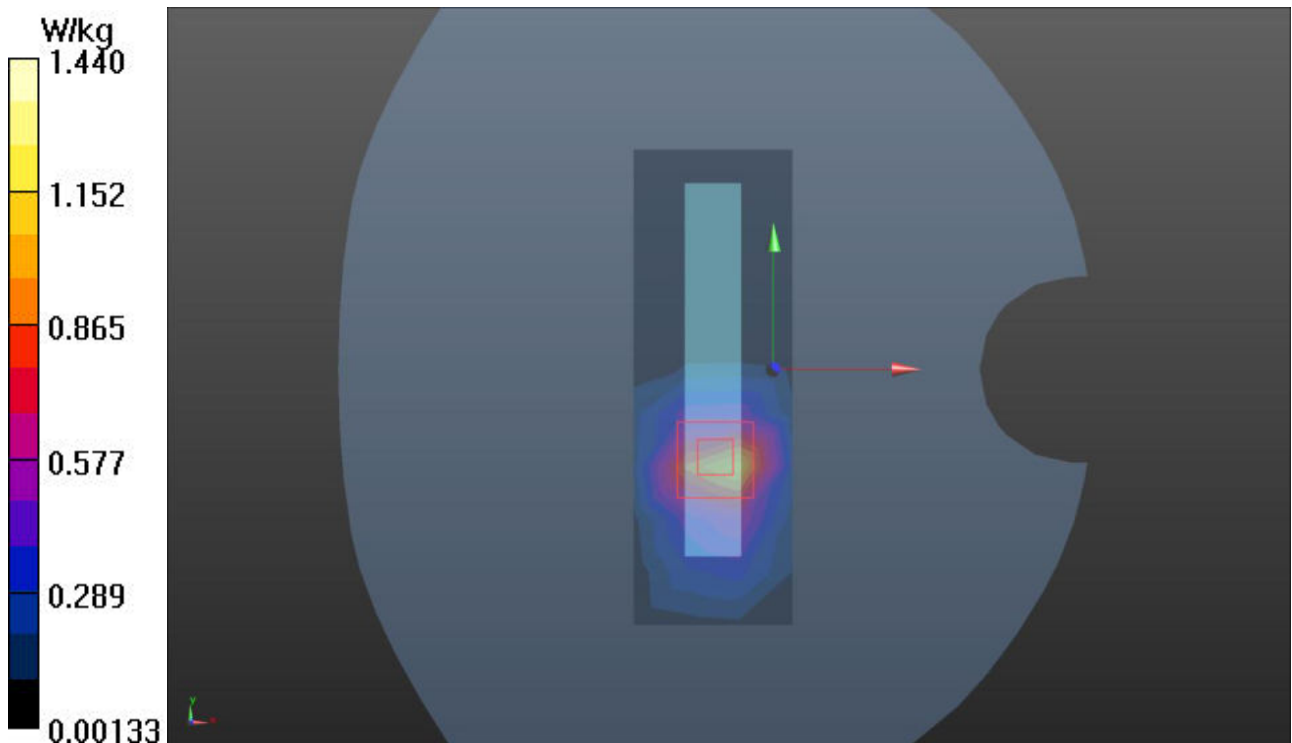
Peak SAR (extrapolated) = 3.49 W/kg

SAR(1 g) = 1.35 W/kg; SAR(10 g) = 0.541 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 39.8%

Maximum value of SAR (measured) = 1.44 W/kg



Plot 25 NR n26 1RB Front Side High (Distance 13mm)

Date: 2025/8/19

Communication System: UID 0, 5G NR (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.948$ S/m; $\epsilon_r = 42.275$; $\rho = 1000$ 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)

NR n26 1RB Front Side 13mm/High/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.652 W/kg

NR n26 1RB Front Side 13mm/High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.91 V/m; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 0.866 W/kg

SAR(1 g) = 0.635 W/kg; SAR(10 g) = 0.446 W/kg

Smallest distance from peaks to all points 3 dB below = 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 72.9%

Maximum value of SAR (measured) = 0.678 W/kg

