





SAR TEST REPORT

Applicant MeiG Smart Technology Co., Ltd

FCC ID 2APJ4-MT504

Product 4G Mobile WiFi

Brand MEIGLink

MT504;

Model

MT5XX (XX can be 05-19, 61-64)

Report No. R2209A0873-S1V2

Issue Date February 14, 2023

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 is capable of demonstrating compliance with the requirements as documented in this report.

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Version	Revision description	Issue Date
Rev.0	Initial issue of report.	February 3, 2023
Rev.1	Update information.	February 9, 2023
Rev.2	Update data in Page 74.	February 14, 2023

Note: This revised report (Report No.: R2209A0873-S1V2) supersedes and replaces the previously issued report (Report No.: R2209A0873-S1V1). Please discard or destroy the previously issued report and dispose of it accordingly.



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 **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)

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)

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

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.

Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

City: Shanghai

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1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C		
Relative humidity	Min. = 30%, Max. = 70%		
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

	Highest Reported SAR (W/kg)					
Mode	1g SAR Body-worn (Separation 15mm)	1g SAR Hotspot (Separation 10mm)				
WCDMA Band II	0.408	0.957				
WCDMA Band IV	0.662	0.966				
WCDMA Band V	0.657	0.598				
LTE FDD 2	0.798	0.961				
LTE FDD 4	0.546	1.214				
LTE FDD 5	0.925	1.074				
LTE FDD 7	0.871	1.325				
LTE TDD 38	0.527	1.244				
LTE TDD 40	0.334	0.737				
LTE TDD 41	0.642	0.760				
LTE TDD 66	0.490	1.178				
Wi-Fi (2.4G)	0.267	0.267				

Date of Testing: November 11, 2022 ~ November 25, 2022

Date of Sample Received: October 10, 2022

Note:

- 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.
- All indications of Pass/Fail in this report are opinions expressed by 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.

Table 2: Highest Simultaneous Transmission SAR

Exposure Configuration	1g SAR Body-worn (Separation 15mm)	1g SAR Hotspot (Separation 10mm)		
Highest Simultaneous Transmission SAR (W/kg)	1.192	1.515		

Note: The detail for simultaneous transmission consideration is described in chapter 10.3.



3 Description of Equipment Under Test

Client Information

Applicant MeiG Smart Technology Co., Ltd				
Applicant address	2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street,			
Applicant address	Bao'an District, Shenzhen, China.			
Manufacturer	MeiG Smart Technology Co., Ltd			
Manufacturar address	2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street,			
Manufacturer address	Bao'an District, Shenzhen, China.			

General Technologies

Application Purpose	Original Grant					
EUT Stage	Identical Prototype					
Model	MT504; MT5XX (XX can be 05-19, 61-64)					
IMEI	364630067884725					
Hardware Version	MT562_MB_V1.00_B_PCB					
Software Version	MT562_EQ001_5F3270E_221129_T18					
Antenna Type	PIFA Antenna					
Device Class	В					
Wi-Fi Hotspot	Wi-Fi 2.4G					
	WCDMA Band II/IV/V: 3					
Power Class	LTE FDD 2/4/5/7/66: 3					
	LTE TDD 38/40/41: 3					
	WCDMA Band II/IV/V: all up bits					
Power Level	LTE FDD 2/4/5/7/66: max power					
	LTE TDD 38/40/41: max power					
	EUT Accessory					
Adapter	Manufacturer: Dongguan Sunun Power Co., Ltd					
лиария	Model: SA68-050100U					
Battery	Manufacturer: Shenzhen Aerospace Electronic Co.,Ltd.					
Battory	Model: /					
	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD					
USB Cable 1	Model: USB A/M TO MICRO USB 5P/M Black PVC(Data+charging)					
	55cm Cable, Shielded					
	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD					
USB Cable 2	Model: USB A/M TO MICRO USB 5P/M Black PVC(charging)					
	55cm Cable, Shielded					
	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD					
USB Cable 3	Model: USB A/M TO MICRO USB 5P/M Black PVC(Date+charging)					
	20cm Cable, Shielded					
USB Cable 4	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD					
	Model: USB A/M TO MICRO USB 5P/M Black PVC(charging)					



	20cm Cable, Shielded			
	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD			
USB Cable 5	Model: USB Type C to Micro USB(connetct MIFI) (Date+charging,OTG)			
	55cm Cable, Shielded			
	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD			
USB Cable 6	Model: USB Type C to Micro USB(connect MIFI) (Date+charging,OTG)			
	100cm Cable, Shielded			
	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD			
USB Cable 7	Model: USB Type A to Micro USB(connect MIFI) (Date+charging)			
	100cm Cable, Shielded			
	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD			
USB Cable 8	Model: USB Type C to Micro USB(connect MIFI) (Date+charging)			
	20cm Cable, Shielded			

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

2. MT504 and MT5XX (XX can be 05-19, 61-64) differ only in model number and the other is the same. The internal name of the XX range will be changed differently due to the consideration of different customer needs later. MT504 were tested in this report.



Wireless Technology and Frequency Range

Wireless Technology		Modulation	Operating mode	Tx (MHz)			
	Band II			1850 ~ 1910			
WCDMA	Band IV	QPSK	HSDPA UE Category:8 HSUPA UE Category:8	1710 ~ 1755			
	Band V		ricol / Col Odlegory.o	824 ~ 849			
	FDD 2			1850 ~ 1910			
	FDD 4			1710 ~ 1755			
	FDD 5			824 ~ 849			
	FDD 7		Category 6	2500 ~ 2570			
	TDD 38	QPSK, 16QAM		2570 ~ 2620			
LTE	TDD 40 Subset 1			2305 ~ 2315			
	TDD 40 Subset 2			2350 ~ 2360			
	TDD 41			2496 ~ 2690			
	FDD 66			1710 ~ 1780			
	Does this device support Carrier Aggregation (CA) □Yes ⊠No						
	Does this device support SV-LTE (1xRTT-LTE)? □Yes ⊠No						
	2.4G	DSSS, OFDM	802.11b/g/n HT20	2412 ~ 2462			
Wi-Fi	2.46	OFDM	802.11n HT40	2422 ~ 2452			
	Does this device support MIMO □Yes⊠No						

Radio equipment in band 40 is only allowed to operate from 2305 MHz to 2315 MHz for Subset 1; 2350 MHz to 2360 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:

Reference Standards

KDB 248227 D01 802.11Wi-Fi SAR v02r02

KDB 447498 D01 General RF Exposure Guidance v06

KDB 648474 D04 Handset SAR v01r03

KDB 690783 D01 SAR Listings on Grants v01r03

KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04

KDB 865664 D02 RF Exposure Reporting v01r02

KDB 941225 D01 3G SAR Procedures v03r01

KDB 941225 D05 SAR for LTE Devices v02r05

KDB 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02

KDB 941225 D06 Hotspot Mode v02r01



5 Operational Conditions during Test

5.1 Test Positions

5.1.1 Body Worn Configuration

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

Per FCC KDB Publication 648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.



5.2 Measurement Variability

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

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

- 1) When the original highest measured SAR is \geq 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was preformed 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 \geq 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 \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

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

5.3 Test Configuration

5.3.1 WCDMA Test Configuration

5.3.1.1 3G SAR Test Reduction Procedure

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

5.3.1.2 Body-worn Accessory SAR

SAR for body-worn accessory configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the EUT with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the EUT, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC

5.3.1.3 Release 5 HSDPA Test Configuration

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

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

Table 3: Subtests for WCDMA Release 5 HSDPA

Sub-set	$eta_{ m c}$	β_{d}	β _d (SF)	β_c/β_d	β _{hs} (note 1, note 2)	CM(dB) (note 3)	MPR(dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0



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2	12/15	15/15	64	12/15	24/15	1.0	0.0	
2	(note 4)	(note 4)	64	(note 4)	24/15	1.0	0.0	
3	15/15	8/15	64	15/8	30/15	1.5	0.5	
4	15/15	4/15	64	15/4	30/15	1.5	0.5	

Note 1: Δ_{ACK} , Δ_{NACK} and Δ_{COI} = 8 \Leftrightarrow A_{hs} = β_{hs}/β_c =30/15 \Leftrightarrow β_{hs} =30/15 $*\beta_c$

Note 2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.

Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TFC1, TF1) to β_c =11/15 and β_d =15/15.

5.3.1.4 Release 6 HSUPA Test Configuration

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

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

Table 4: Sub-Test 5 Setup for Release 6 HSUPA

Sub-	P	P	β_{d}	0.10	$\beta_{hs}^{(1)}$	O	P	β_{ed}	$eta_{\sf ed}$	CM (2)	MPR	AG ⁽⁴⁾	E-TFCI
set	β _c	β_d	(SF)	β_c/β_d	Phs	$eta_{ ext{ec}}$	$eta_{\sf ed}$	(SF)	(codes)	(dB)	(dB)	Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}47/15 \\ \beta_{ed2}47/15$	//	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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

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

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

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

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

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



Table 5: HSUPA UE Category

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCHTTI (ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
0	2	8	2	4	2798	4.4500
2	2	4	10	4	14484	1.4592
3	2	4	10	4	14484	1.4592
	2	8	2	2	5772	2.9185
4	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6	4	8	2	2 SF2 & 2	11484	5.76
(No DPDCH)	4	4	10	SF4	20000	2.00
7	4	8	2	2 SF2 & 2 SF4	22996	?
(No DPDCH)	4	4	10		20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4.

UE Categories 1 to 6 supports QPSK only. UE Category 7 supports QPSK and 16QAM. (TS25.306-7.3.0)

5.3.1.5 HSPA and DC-HSDPA Test Configuration

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

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

- 1) The HSPA procedures are applied to configure 3GPP Rel. 6 HSPA devices in the required sub-test mode(s) to determine SAR test exclusion.
- 2) SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.
- 3) Regardless of whether a PBA is required, the following information must be verified and included in the SAR report for devices supporting HSPA or DC-HSDPA:
- a) The output power measurement results and applicable release version(s) of 3GPP TS 34.121. Power measurement difficulties due to test equipment setup or availability must be resolved between the grantee and its test lab.
- b) The power measurement results are in agreement with the individual device implementation and specifications. When Enhanced MPR (E-MPR) applies, the normal MPR targets may be modified



according to the Cubic Metric (CM) measured by the device, which must be taken into consideration. c) The UE category, operating parameters, such as the β and Δ values used to configure the device for testing, power setback procedures described in 3GPP TS 34.121 for the power measurements, and HSPA channel conditions (active and stable) for the entire duration of the measurement according to the required E-TFCI and AG index values.

4) When SAR measurement is required, the test configurations, procedures and power measurement results must be clearly described to confirm that the required test parameters are used, including E-TFCI and AG index stability and output power conditions.

Table 6: HS-DSCH UE Category

HS-DSCH category	Maximum number of HS-DSCH codes received	Minimum inter-TTI interval	Maximum number of bits of an HS- DSCH transport block received within an HS-DSCH TTI NOTE 1	Total number of soft channel bits	Supported modulations without MIMO operation or dual cell operation	Supported modulatio ns with MIMO operation and without dual cell operation	Supported modulatio ns with dual cell operation									
Category 1	5	3	7298	19200												
Category 2	5	3	7298	28800												
Category 3	5	2	7298	28800	1											
Category 4	5	2	7298	38400												
Category 5	5	1	7298	57600	00016 400444											
Category 6		1			QPSK, 16QAM	1000										
Category 7		1	14411	115200		Not										
Category 8	10	1	14411	134400	1.	applicable										
Category 9	15	an HS-DSCH TTI NOTE 1 5 3 7298 19200 5 3 7298 28800 5 2 7298 28800 5 2 7298 38400 5 2 7298 38400 5 1 7298 57600 5 1 7298 67200 10 1 14411 115200	172800	7	(MIMO not											
Category 10			1	supported)												
Category 11																
Category 12	5		QPSK		Not											
Category 13	15 15	15	15	15	1	35280	259200	QPSK,		applicable						
Category 14		1	42192	259200	16QAM, 64QAM		(dual cell operation									
Category 15	15	1	23370	345600	ODCK 40	20414	not									
Category 16	15	1	27952	345600	QPSK, 16	QAM.	supported)									
Category 17	15	1	35280	259200	QPSK, 16QAM, 64QAM		Supportou									
NOTE 2			23370	345600		QPSK, 16QAM										
Category 18	15	1	42192	259200	QPSK, 16QAM, 64QAM											
NOTE 3	15	15	15		27952	345600		QPSK, 16QAM								
Category 19									1	35280	518400	ODEK 1001	1 610111			
Category 20	15	1 42192 51			QPSK, 16QAI	vi, 64QAM										
Category 21	15 15	15 15	15 15	15 15	15 15	15 15	15 15	15 15	15 15	15	1 -	23370	345600			QPSK,
Category 22										1	27952	345600			16QAM	
Category 23	15	1	35280	518400	104 AT	1.4	QPSK,									
Category 24	77.11		1	42192	518400			16QAM, 64QAM								

5.3.2 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 > ½ 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 > ½ 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.



🔅 eurofins



5.3.3 Additional Requirements for TDD LTE Specification

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

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

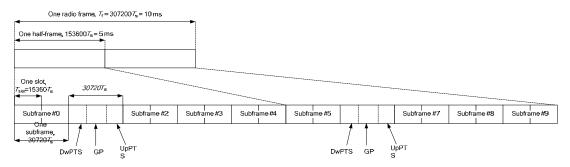


Figure 1: Frame structure type 2

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

	Normal	cyclic prefix in	downlink	Extend	ed cyclic prefix	in downlink
Special		UpF	PTS		Up	PTS
subframe	DwPTS	Normal	Extended	DwPTS	Normal	Extended
configuration	DWI 10	cyclic prefix	cyclic prefix	DWI 10	cyclic prefix	cyclic prefix in
		in uplink	in uplink		in uplink	uplink
0	$6592 \cdot T_{\rm s}$			$7680 \cdot T_{\rm s}$		
1	$19760 \cdot T_{\rm s}$			$20480 \cdot T_{\rm s}$	$2192 \cdot T_{\rm s}$	2560 · T _s
2	$21952 \cdot T_{\rm s}$	$2192 \cdot T_{\rm s}$	$2560 \cdot T_{\rm s}$	$23040 \cdot T_{\rm s}$	2192 · 1 _s	2300 · 1 _s
3	$24144 \cdot T_{\rm s}$			$25600 \cdot T_{\rm s}$		
4	$26336 \cdot T_{\rm s}$			$7680 \cdot T_{\rm s}$		
5	$6592 \cdot T_{\rm s}$			$20480 \cdot T_{\rm s}$	$4384 \cdot T_{\rm s}$	5120 ⋅ <i>T</i> _s
6	$19760 \cdot T_{\rm s}$			$23040 \cdot T_{\rm s}$	4364 · 1 _s	3120 · 1 _s
7	$21952 \cdot T_{\rm s}$	$4384 \cdot T_{\rm s}$	$5120 \cdot T_{\rm s}$	$12800 \cdot T_{\rm s}$		
8	$24144 \cdot T_{\rm s}$			-	-	-
9	$13168 \cdot T_{\rm s}$			-		-



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Table 8: Uplink-Downlink Configurations

Uplink-downlink	Downlink-to-Uplink	Subframe number											
configuration	Switch-point periodicity	0	1	2	3	4	5	6	7	8	9		
0	5 ms	D	S	J	U	U	D	S	J	U	U		
1	5 ms	D	S	כ	U	D	ם	S	כ	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	J	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:

Duty cycle = (30720Ts*Ups + Uplink Component*Specials)/(307200Ts)

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

Uplink Component = 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.

Duty cycle = [(30720Ts*Ups) + UpPTS *Specials]/(307200Ts)

And we can get different Duty cycles under different configurations:

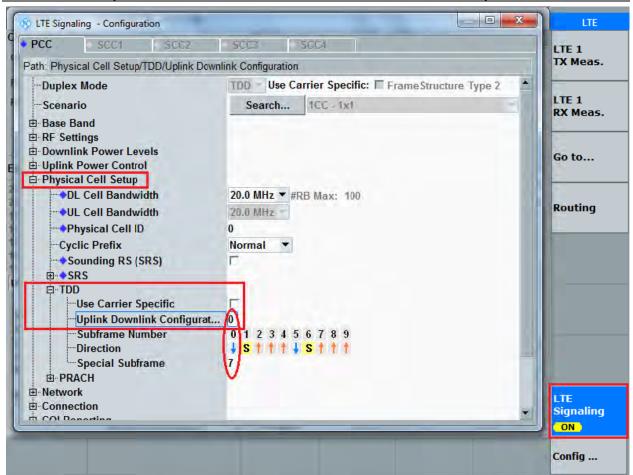
					Configuration of special subframe													
Uplink- downlink	Su	bframe numi	ber	N	ormal cyclic pi	efix in downlin	ık	Ext	tended cyclic p	orefix in downli	nk							
configuration					clic prefix plink	Extended c	yclic prefix plink		clic prefix plink		yclic prefix plink							
	D	S	U	configuration 0~4	configuration 5~9	configuration 0~4	configuration 5~9	configuration 0~3	configuration 4~7	configuration 0~3	configuration 4~7							
	2	2	6	61.43%	62.85%	61.67%	63.33%	61.43%	62.85%	61.67%	63.33%							
- 0	2	- 4	0															
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



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5.3.4 Wi-Fi Test Configuration

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions. An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements. For 2.4 GHz DSSS, either the initial test position or DSSS procedure is applied to reduce the number of SAR tests; These are mutually exclusive. For OFDM, an initial test position is only applicable to next to the ear, UMPC mini-tablet and hotspot mode configurations, which is tested using the initial test configuration to facilitate test reduction. For other exposure conditions with a fixed test position, SAR test reduction is determined using only the initial test configuration.

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

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

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

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



5.3.5 Proximity sensor Configuration

Due to the operating configurations and exposure conditions required by the device, the proximity sensor is used to indicate when the device 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 of Antenna 1 to ensure SAR compliance. 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.

The following tables summarize the key power reduction information for proximity sensor. The test procedures be applied to determine proximity sensor triggering distances, and sensor coverage for normal and tilt positions. To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

Band Test Position Sensor Trigger Distance Range (DUT to Phantom) Power Reduction Amount(dB) Power Level Reduction Amount(dB) Back Side 0mm≤Distance≤19mm 4 Sensor on 19mm 19mm <distance< td=""> 0 Sensor off 19mm<distance< td=""> 0 Sensor off 10mm<distance< td=""> 0 Sensor off 10mm<distance≤10mm< td=""> 4 Sensor off 18mm<distance≤10mm< td=""> 4 Sensor off 19mm<distance≤19mm< td=""> 4 Sensor off 19mm<distance≤10mm< td=""> 4 Sensor off 10mm<distance≤10mm< td=""> 4 Sensor off<th></th><th></th><th>Main Antenna</th><th></th><th></th></distance≤10mm<></distance≤10mm<></distance≤10mm<></distance≤10mm<></distance≤10mm<></distance≤10mm<></distance≤19mm<></distance≤10mm<></distance≤10mm<></distance<></distance<></distance<></distance<></distance<></distance<></distance<></distance<>			Main Antenna		
Back Side			Sensor Trigger	Power	
Back Side	Band	Test Position	Distance Range	Reduction	Power Level
Back Side 19mm <distance 0<="" td="" =""><td></td><td></td><td>(DUT to Phantom)</td><td>Amount(dB)</td><td></td></distance>			(DUT to Phantom)	Amount(dB)	
Front Side		Back Sido	0mm≤Distance≤19mm	4	Sensor on
WCDMA B2 Left Edge		Dack Side	19mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
WCDMA B2 Left Edge		Front Sido	0mm≤Distance≤10mm	4	Sensor on
NCDMA B2		FIORE Side	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
Right Edge	MCDMA B2	Loff Edgo	0mm≤Distance≤10mm	4	Sensor on
Top Edge	WCDIVIA 62	Len Euge	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
Top Edge		Right Edge	1	0	Sensor off
Bottom Edge		Ton Edge	0mm≤Distance≤18mm	4	Sensor on
Back Side		rop ⊑age	18mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
Back Side		Bottom Edge	1	0	Sensor off
Front Side		Daals Cida	0mm≤Distance≤19mm	4	Sensor on
WCDMA B4 Left Edge		back Side	19mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
WCDMA B4 Left Edge 10mm <distance< th=""> 0 Sensor off Right Edge / 00 Sensor off Right Edge / 00 Sensor off Top Edge / 00mm≤Distance≤18mm 4 Sensor on Bottom Edge / 00 Sensor off Back Side / 00mm≤Distance≤19mm 4 Sensor on 19mm<distance< td=""> 00 Sensor off WCDMA B5 Front Side 00mm≤Distance≤10mm 4 Sensor on Left Edge 00mm≤Distance≤10mm 4 Sensor on Left Edge 00mm≤Distance≤10mm 4 Sensor on</distance<></distance<>		Front Cido	0mm≤Distance≤10mm	4	Sensor on
WCDMA B4 Left Edge 10mm <distance< th=""> 0 Sensor off Right Edge / 0 Sensor off Top Edge 0mm≤Distance≤18mm 4 Sensor on 18mm<distance< td=""> 0 Sensor off Bottom Edge / 0 Sensor off Back Side 0mm≤Distance≤19mm 4 Sensor on 19mm<distance< td=""> 0 Sensor off 0mm≤Distance≤10mm 4 Sensor off 10mm<distance< td=""> 0 Sensor off 0mm≤Distance≤10mm 4 Sensor off 0mm≤Distance≤10mm 4 Sensor off</distance<></distance<></distance<></distance<>		Front Side	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
Right Edge		Loff Edgo	0mm≤Distance≤10mm	4	Sensor on
Top Edge	WCDIVIA 64	Len Euge	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
Top Edge 18mm <distance< th=""> 0 Sensor off Bottom Edge / 0 Sensor off Back Side 0mm≤Distance≤19mm 4 Sensor on 19mm<distance< td=""> 0 Sensor off 0mm≤Distance≤10mm 4 Sensor on 10mm<distance< td=""> 0 Sensor off 0mm≤Distance≤10mm 4 Sensor off 0mm≤Distance≤10mm 4 Sensor on</distance<></distance<></distance<>		Right Edge	1	0	Sensor off
Bottom Edge		Ton Edge	0mm≤Distance≤18mm	4	Sensor on
Back Side		rop ⊑uge	18mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
Back Side		Bottom Edge	1	0	Sensor off
19mm <distance< td=""><td></td><td>Pook Sido</td><td>0mm≤Distance≤19mm</td><td>4</td><td>Sensor on</td></distance<>		Pook Sido	0mm≤Distance≤19mm	4	Sensor on
WCDMA B5 Front Side 10mm <distance< th=""> 0 Sensor off Left Edge 0mm≤Distance≤10mm 4 Sensor on</distance<>		Dauk Side	19mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
10mm <distance 0="" 4="" off="" omm≤distance≤10mm="" on<="" sensor="" td=""><td></td><td>Front Side</td><td>0mm≤Distance≤10mm</td><td>4</td><td>Sensor on</td></distance>		Front Side	0mm≤Distance≤10mm	4	Sensor on
Left Edge	AACDINIA D2	FIUIT SIDE	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
10mm <distance 0="" off<="" sensor="" td=""><td></td><td>Loff Edge</td><td>0mm≤Distance≤10mm</td><td>4</td><td>Sensor on</td></distance>		Loff Edge	0mm≤Distance≤10mm	4	Sensor on
		Len Eage	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off

TA Technology (Shanghai) Co., Ltd.

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SAR Test Repo	ort		Repo	ort No.: R2209A0873-			
	Right Edge	1	0	Sensor off			
	Ton Edge	0mm≤Distance≤18mm	4	Sensor on			
	Top Edge	18mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off			
	Bottom Edge	1	0	Sensor off			
	Dook Cido	0mm≤Distance≤19mm	4.5	Sensor on			
	Back Side	19mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off			
	Front Side	0mm≤Distance≤10mm	4.5	Sensor on			
	Fiont Side	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off			
LTE B2	Loft Edgo	0mm≤Distance≤10mm	4.5	Sensor on			
LIE BZ	Left Edge	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off			
	Right Edge	1	0	Sensor off			
	Tan Edga	0mm≤Distance≤18mm	4.5	Sensor on			
	Top Edge	18mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off			
	Bottom Edge	1	0	Sensor off			
	De als Cida	0mm≤Distance≤19mm	2.5	Sensor on			
	Back Side	19mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off			
	Frank Cida	0mm≤Distance≤10mm	2.5	Sensor on			
	Front Side	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off			
175.54	1 - # 5 -1	0mm≤Distance≤10mm	2.5	Sensor on			
LTE B4	Left Edge	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off			
	Right Edge	1	0	Sensor off			
	T E-l	0mm≤Distance≤18mm	2.5	Sensor on			
	Top Edge	18mm <distance< td=""><td>0</td><td colspan="4">Sensor off</td></distance<>	0	Sensor off			
	Bottom Edge	1	0	Sensor off			
	De als Cida	0mm≤Distance≤19mm	2.5	Sensor on			
	Back Side	19mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off			
	Frank Cida	0mm≤Distance≤10mm	2.5	Sensor on			
	Front Side	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off			
LTC DC	Laft Educ	0mm≤Distance≤10mm	2.5	Sensor on			
LTE B5	Left Edge	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off			
	Right Edge	1	0	Sensor off			
	Tan Edua	0mm≤Distance≤18mm	2.5	Sensor on			
	Top Edge	18mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off			
	Bottom Edge	1	0	Sensor off			
	Doals Old-	0mm≤Distance≤19mm	2	Sensor on			
	Back Side	19mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off			
	Front Cid-	0mm≤Distance≤10mm	2	Sensor on			
	Front Side	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off			
LTE B7	64 = J	0mm≤Distance≤10mm	2	Sensor on			
	Left Edge	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off			
	Right Edge	1	0	Sensor off			
İ		0mm≤Distance≤18mm	2	Sensor on			
l l	Top Edge	onnin-Biotanioo-Tonnin					



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SAR Test Repo	ort		Repo	ort No.: R2209A0873-
	Bottom Edge	1	0	Sensor off
	Back Side	0mm≤Distance≤19mm	2.5	Sensor on
	Dack Side	19mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
	Front Side	0mm≤Distance≤10mm	2.5	Sensor on
	Front Side	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
LTE B38	Laft Educ	0mm≤Distance≤10mm	2.5	Sensor on
LIE D30	Left Edge	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
	Right Edge	1	0	Sensor off
	Ton Edge	0mm≤Distance≤18mm	2.5	Sensor on
	Top Edge	18mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
	Bottom Edge	1	0	Sensor off
	Dook Cido	0mm≤Distance≤19mm	2.5	Sensor on
	Back Side	19mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
	Frank Cida	0mm≤Distance≤10mm	2.5	Sensor on
	Front Side	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
LTE B40	1 - # 5 -1	0mm≤Distance≤10mm	2.5	Sensor on
Subset 1	Left Edge	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
	Right Edge	1	0	Sensor off
	T	0mm≤Distance≤18mm	2.5	Sensor on
	Top Edge	18mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
	Bottom Edge	1	0	Sensor off
	D 1 0:1	0mm≤Distance≤19mm	2.5	Sensor on
	Back Side	19mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
	F+ 0:- -	0mm≤Distance≤10mm	2.5	Sensor on
	Front Side	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
LTE B40		0mm≤Distance≤10mm	2.5	Sensor on
Subset 2	Left Edge	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
	Right Edge	1	0	Sensor off
	T E-l	0mm≤Distance≤18mm	2.5	Sensor on
	Top Edge	18mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
	Bottom Edge	1	0	Sensor off
	D1- 0:-1-	0mm≤Distance≤19mm	2.5	Sensor on
	Back Side	19mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
	E 10:1	0mm≤Distance≤10mm	2.5	Sensor on
	Front Side	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
LTE D44	1 - # 5 -1	0mm≤Distance≤10mm	2.5	Sensor on
LTE B41	Left Edge	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
	Right Edge	1	0	Sensor off
	Ton Calina	0mm≤Distance≤18mm	2.5	Sensor on
	Top Edge	18mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
	Bottom Edge	1	0	Sensor off
	t	i		
LTE B66	Back Side	0mm≤Distance≤19mm	4.5	Sensor on

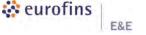


Front Cido	0mm≤Distance≤10mm	4.5	Sensor on
Front Side	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
Loft Edgo	0mm≤Distance≤10mm	4.5	Sensor on
Leit Eage	10mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
Right Edge	1	0	Sensor off
Top Edge	0mm≤Distance≤18mm	4.5	Sensor on
Top Edge	18mm <distance< td=""><td>0</td><td>Sensor off</td></distance<>	0	Sensor off
Bottom Edge	1	0	Sensor off
	Top Edge	Front Side 10mm <distance 0mm≤distance≤10mm="" 10mm<distance="" 18mm<="" 18mm<distance="" edge="" right="" td="" top=""><td>Front Side 10mm<distance< th=""> 0 Left Edge 0mm≤Distance≤10mm 4.5 10mm<distance< td=""> 0 Right Edge / 0 Top Edge 0mm≤Distance≤18mm 4.5 18mm<distance< td=""> 0</distance<></distance<></distance<></td></distance>	Front Side 10mm <distance< th=""> 0 Left Edge 0mm≤Distance≤10mm 4.5 10mm<distance< td=""> 0 Right Edge / 0 Top Edge 0mm≤Distance≤18mm 4.5 18mm<distance< td=""> 0</distance<></distance<></distance<>

Note:

To ensure all production units are compliant, the smallest separation distance determined by the sensor triggering and sensor coverage for normal and tit positions for all usage conditions and applicable sides, minus 1 mm, must be used as the test separation distance for additional SAR testing of each higher power stage.

For the other sides or other frequency bands of the device, SAR is still tested at the Level with sensor off.



5.3.6 Procedures for determining proximity sensor triggering distances

The device was tested by the test lab to determine the proximity sensor triggering distances for the backside, top side and bottom edge of the device. To ensure all production units are compliant, the smallest separation distance determined by the sensor triggering minus 1 mm, must be used as the test separation distance for SAR testing.

The Proximity sensor triggering distance measurement method are as below:



Picture: Proximity Sensor Triggering Distances Assessmect(Back/Front Side)

Picture: Proximity Sensor Triggering Distances Assessmect(Top Edge)

Table: Summary of Trigger Distances:

rabioi Gaiiiiia		distance-	Trigger o	distance-	Trigger o	distance-	Trigger distance		
	Back	Side	Front	Side	Left	Edge	Top	Edge	
Band(MHz)	Moving toward Phantom	Moving away from Phantom	Moving toward Phantom	Moving away from Phantom	Moving toward Phantom	Moving away from Phantom	Moving toward Phantom	Moving away from Phantom	
WCDMA B2	19	19	10	10	10	10	18	18	
WCDMA B4	19	19	10	10	10	10	18	18	
WCDMA B5	19	19	10	10	10	10	18	18	
LTE B2	19	19	10	10	10	10	18	18	
LTE B4	19	19	10	10	10	10	18	18	
LTE B5	19	19	10	10	10	10	18	18	
LTE B7	19	19	10	10	10	10	18	18	
LTE B38	19	19	10	10	10	10	18	18	
LTE B40 Subset 1	19	19	10	10	10	10	18	18	
LTE B40 Subset 2	19	19	10	10	10	10	18	18	
LTE B41	19	19	10	10	10	10	18	18	
LTE B66	19	19	10	10	10	10	18	18	

Conclusion: It can be ensured that the proximity sensor can be valid triggered for the body exposure condition (WCDMA Band 2/4/5, LTE Band 2/4/5/7/38/40 Subset 1/Subset 2/41/66 with Main Antenna)



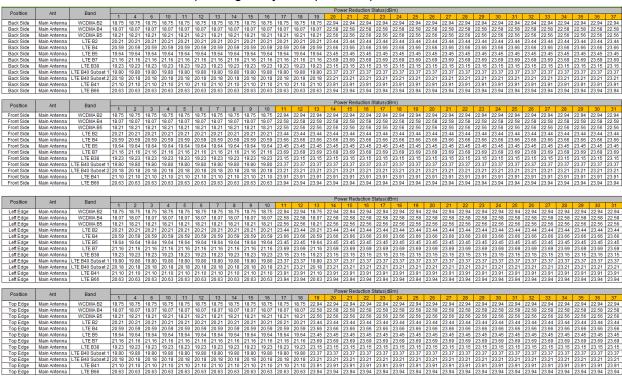
The detailed conducted power measurement data to determine the triggering distances is as below:

Table: Power Reduction Status (Moving toward phantom)

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 | D. | wer Reduct | ion Status | dDm) | |
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---|
| Position | Ant | Band | 27 | 36
 | 35 | 34 | 33 | 32 | 24
 | 30 | 29 | 28 | 07 0 | 0.5
 | 24 | | 22 21 | 20 | 40 | 18
 | 17 | 16 | 45 | 1 44 | 40
 | 1 40 | 144 | 40 | 0 | 4
 | 1 |
| Back Side | Main Antenna | WCDMA B2 | 40.75 |
 | | | | | 00.04
 | | 22.94 2 | | 27 2 |
 | | 22.94 22 | | | 19 | 18.75
 | | | 15 | 18.75 | 13
 | 12 | 11 | 18.75 | 40.75 |
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 | |
| Back Side | Main Antenna | WCDMA B4 | 18.07 |
 | | 22.58 | | |
 | | | 2.58 2 | | 8 22.58
 | | | .58 22.5 | | | 18.07
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 | | | | | 18.07
 | |
Back Side	Main Antenna	WCDMA B5	18.21	
 | | 22.56 | | |
 | | | | 22.56 22.5 |
 | | | .56 22.5 | | |
 | | 18.21 | | 18.21 | 18.21
 | 18.21 | | | |
 | 18.21 |
Back Side	Main Antenna	LTE B2	20.21	
 | | 23.44 | | |
 | | 23.44 2 | | |
 | | | .44 23.4 | | |
 | 20.21 | | 20.21 | 20.21 |
 | 20.21 | | | |
 | 20.21 |
Back Side	Main Antenna	LTE B4	20.59	
 | | | | |
 | | | | 23.66 23.6 |
 | | | .66 23.6 | | |
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 | 20.59 | | | |
 | 20.59 |
| Back Side | Main Antenna | LTE B5 | 19.64 |
 | | 23.45 | | | 23.45
 | | 23.45 2 | | | 15 23.45
 | | | .45 23.4 | | | 19.64
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 | 19.64 |
Back Side	Main Antenna	LTE B7	21.16	
 | | 23.69 | | |
 | | | | 23.69 23.0 |
 | | | .69 23.6 | | |
 | 21.16 | | | | 21.16
 | | | | |
 | 21.16 |
Back Side	Main Antenna	LTE B38	19.23
 | | | | |
 | | 23.15 2 | | |
 | | 23.15 23 | | | | 19.23
 | | | 19.23 | | 19.23
 | | | | | 19.23
 | |
| Back Side | Main Antenna | LTE B40 Subset | | 19.80
 | | 23.15 | | |
 | | | 3.15 2 | | 15 23.15
 | | 23.15 23 | | | |
 | 19.23 | | 19.23 | |
 | 19.23 | | | 19.23 |
 | 19.23 |
| Back Side | Main Antenna | LTE B40 Subset 2 | |
 | | 23.37 | | |
 | | 23.37 2 | | | 37 23.37
 | | | | | |
 | | | | |
 | | | 19.80 | |
 | |
Back Side	Main Antenna	LTE B41		
 | | 23.91 | | |
 | | 23.91 2 | | |
 | | 23.91 23 | | | |
 | | | | |
 | | | 21.10 | |
 | |
| Back Side | Main Antenna | LTE B66 | 20.63 | 20.63
 | 23.94 | 23.94 | 23.94 | 23.94 | 23.94
 | 23.94 | 23.94 2 | 3.94 2 | 23.94 23.9 | 94 23.94
 | 23.94 | 23.94 23 | .94 23.9 | 23.94 | 20.63 | 20.63
 | 20.63 | 20.63 | 20.63 | 20.63 | 20.63
 | 20.63 | 20.63 | 20.63 | 20.63 | 20.63
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Position	Ant	Band		
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 | | wer Reduct | | | |
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| | | | 31 | 30
 | 29 | | 27 | 26 | 25
 | 24 | | | | 19
 | | | 16 15 | | 13 | 12
 | 11 | 10 | 9 | 8 | 7
 | 6 | 5 | 4 | 3 | 2
 | 1 |
Front Side	Main Antenna	WCDMA B2	18.75	
 | | | | |
 | | 22.94 2 | | |
 | | 22.94 22 | | | |
 | | | 18.75 | |
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 | 18.75 |
Front Side	Main Antenna	WCDMA B4	18.07	
 | 22.58 | | | |
 | | 22.58 2 | | |
 | | | .58 22.5 | | |
 | | 18.07 | | 18.07 |
 | 18.07 | | | 18.07 |
 | 18.07 |
| Front Side | Main Antenna | WCDMA B5 | 18.21 | 18.21
 | 22.56 | 22.56 | 22.56 | 22.56 | 22.56
 | 22.56 | 22.56 2 | 2.56 2 | 22.56 22.5 | 6 22.56
 | 22.56 | 22.56 22 | .56 22.5 | 22.56 | 22.56 | 18.21
 | 18.21 | 18.21 | 18.21 | 18.21 | 18.21
 | 18.21 | 18.21 | 18.21 | 18.21 | 18.21
 | 18.21 |
| Front Side | Main Antenna | LTE B2 | 20.21 | 20.21
 | 23.44 | 23.44 | 23.44 | 23.44 | 23.44
 | 23.44 | 23.44 2 | 3.44 2 | 23.44 23.4 | 14 23.44
 | 23.44 | 23.44 23 | .44 23.4 | 23.44 | 23.44 | 20.21
 | 20.21 | 20.21 | 20.21 | 20.21 | 20.21
 | 20.21 | 20.21 | 20.21 | 20.21 | 20.21
 | 20.21 |
| Front Side | Main Antenna | LTE B4 | 20.59 | 20.59
 | 23.66 | 23.66 | | |
 | | 23.66 2 | 3.66 2 | 23.66 23.6 | 66 23.66
 | 23.66 | 23.66 23 | .66 23.6 | 23.66 | |
 | | | 20.59 | 20.59 | 20.59
 | 20.59 | 20.59 | 20.59 | 20.59 | 20.59
 | 20.59 |
| Front Side | Main Antenna | LTE B5 | 19.64 | 19.64
 | 23.45 | 23.45 | 23.45 | 23.45 | 23.45
 | 23.45 | 23.45 2 | 3.45 2 | 23.45 23.4 | 15 23.45
 | 23.45 | 23.45 23 | .45 23.4 | 23.45 | 23.45 | 19.64
 | 19.64 | 19.64 | 19.64 | 19.64 | 19.64
 | 19.64 | 19.64 | 19.64 | 19.64 | 19.64
 | 19.64 |
| Front Side | Main Antenna | LTE B7 | 21.16 | 21.16
 | 23.69 | 23.69 | 23.69 | 23.69 | 23.69
 | 23.69 | 23.69 2 | 3.69 2 | 23.69 23.0 | 9 23.69
 | 23.69 | 23.69 23 | .69 23.69 | 23.69 | 23.69 | 21.16
 | 21.16 | 21.16 | 21.16 | 21.16 | 21.16
 | 21.16 | 21.16 | 21.16 | 21.16 | 21.16
 | 21.16 |
| Front Side | Main Antenna | LTE B38 | 19.23 | 19.23
 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15
 | 23.15 | 23.15 2 | 3.15 2 | 23.15 23.1 | 15 23.15
 | 23.15 | 23.15 23 | .15 23.1 | 23.15 | 23.15 | 19.23
 | 19.23 | 19.23 | 19.23 | 19.23 | 19.23
 | 19.23 | 19.23 | 19.23 | 19.23 | 19.23
 | 19.23 |
| Front Side | Main Antenna | LTE B40 Subset | 1 19.80 | 19.80
 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15
 | 23.15 | 23.15 2 | 3.15 2 | 23.15 23.1 | 15 23.15
 | | 23.15 23 | .15 23.1 | 23.15 | 23.15 | 19.80
 | 19.80 | 19.23 | 19.23 | 19.23 | 19.23
 | 19.23 | 19.23 | 19.23 | 19.23 | 19.23
 | 19.23 |
| Front Side | Main Antenna | LTE B40 Subset 2 | 20.18 | 20.18
 | 23.37 | 23.37 | 23.37 | 23.37 | 23.37
 | 23.37 | 23.37 2 | 3.37 2 | 23.37 23.3 | 37 23.37
 | 23.37 | 23.37 23 | .37 23.3 | 7 23.37 | 23.37 | 20.18
 | 20.18 | 19.80 | 19.80 | 19.80 | 19.80
 | 19.80 | 19.80 | 19.80 | 19.80 | 19.80
 | 19.80 |
Front Side	Main Antenna	LTE B41		
 | | 23.91 | | |
 | | 23.91 2 | | |
 | | 23.91 23 | | | |
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 | | | 21.10 | |
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Front Side	Main Antenna	LTE B66		
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| | | LIE BOO | 20.03 | 20.63
 | 23.94 | 23.94 | 23.94 | 23.94 | 23.94
 | 25.94 | 25.94 2 | 3.94 2 | 23.94 23.9 | 34 23.94
 | 23.94 | 23.94 23 | .94 23.9 | 23.94 | 23.94 | 20.63
 | 20.63 | 20.63 | 20.63 | 20.63 | 20.63
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| | mani/ancima | LIEBOO | 20.63 | 20.63
 | 23.94 | 23.94 | 23.94 | 23.94 | 23.94
 | 23.94 | 25.94 2 | 3.94 2 | 23.94 23.9 | 14 23.94
 | 23.94 | 23.94 23 | .94 23.9 | 1 23.94 | 23.94 | 20.63
 | 20.63 | 20.63 | 20.63 | 20.63 | 20.63
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 | 23.94 | 1 23.94 | 23.94 | 23.94 | 23.94
 | 23.94 | 23.84 2 | 3.94 2 | 23.94 23.9 | 94 23.94
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 | 20.63 | 20.63 | 20.63 | 20.63 | 20.63
 | 20.63 | 20.63 | 20.63 | 20.63 | 20.63
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| Position | | | 20.63 | 20.63
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 | 23.94 | 23.94 2 | 3.94 2 | 23.94 23.9 | 34 23.94
 | | er Reduction | on Status(c | Bm) | 23.94 | 20.63
 | 20.63 | | 20.63 | 20.63 | 20.63
 | 20.63 | 20.63 | 20.63 | 20.63 |
 | 20.63 |
| Position | Ant | Band | 31 | 30
 | 29 | 28 | 27 | 26 | 25
 | 24 | 23 2 | 22 2 | 21 20 | 19
 | Pow
18 | ver Reductio | on Status(c | Bm) | 13 | 12
 | 11 | 10 | 9 | 8 | 7
 | 6 | 5 | 4 | 3 | 2
 | 1 |
| Left Edge | | Band | 31
18.75 | 30
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| | Ant | Band | 31
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Main Antenna | Band | 31
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| Left Edge
Left Edge
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Left Edge | Ant Main Antenna Main Antenna Main Antenna Main Antenna Main Antenna | Band WCDMA B2 WCDMA B4 WCDMA B5 LTE B2 | 31
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23.44 2 | 26
 2.94 22
 2.58 23
 2.56 24
 3.44 23 | 25
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2.56 2:
3.44 2:
 | 24
2.94 22
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3.44 23 | 23 2
2.94 22
2.58 22
2.56 22
3.44 23 | 94 22
.58 22
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23.66 2 | 26
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3.44 2:
3.66 2: | 25
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2.56 2:
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2.56 22.56 | 19
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20.59 | 5
18.75
18.07
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20.59 | 4
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20.59 | 3
18.75
18.07
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20.21
20.59 | 2
18.75
18.07
18.21
20.21
20.59
 | 1
18.75
18.07
18.21
20.21
20.59 |
| Left Edge | Ant Main Antenna | Band WCDMA B2
WCDMA B4
WCDMA B5
LTE B2
LTE B4
LTE B4 | 31
18.75
18.07
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19.64 | 30
18.75 :
18.07 :
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19.64 : | 29
22.94
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 | 28
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23.44
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23.45 | 27
22.94 2
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23.45 2 | 26
2.94 2
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3.44 2
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3.44 2:
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 | 24
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3.45 23 | 23 2
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3.44 23
3.66 23
3.45 23 | 94 22
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56 22
44 23
66 23
45 23 | 21 20
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1.44 23.44
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1.45 23.45 | 19
1 22.94
3 22.58
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4 23.44
6 23.66
6 23.45
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| Left Edge | Ant Main Antenna | ## Band ## WCDMA B2 WCDMA B4 WCDMA B4 LTE B2 LTE B4 LTE B7 LTE B3 ## LTE B40 Subset 2 LTE B41 LTE B66 LTE B66 B66 ## Band ## WCDMA B2 | 31 18.75 18.07 18.21 20.21 20.59 21.16 21.16 21.16 21.10 22.18 22.18 22.18 22.18 23.18 2 | 30
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Table: Power Reduction Status (Moving away from phantom)



5.3.7 Procedures for determining device tilt angle influences to proximity sensor triggering

The DUT was positioned directly below the flat phantom at the minimum measured trigger distance with Bottom Edge and Top Edge parallel to the base of the flat phantom for each band.

The EUT was rotated about Bottom Edge and Top Edge for angles up to +/- 45°. If the output power increased during the rotation the DUT was moved 1mm toward the phantom and the rotation repeated. This procedure was repeated until the power remained reduced for all angles up to +/- 45°. The proximity sensor triggering tilt angle measurement methods are as below:

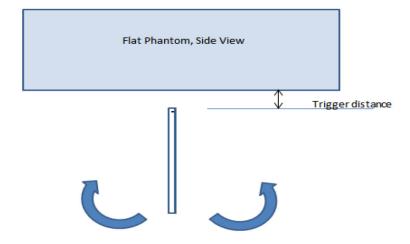




Table: Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering (Bottom/Top edge)

Band(MHz)		Minimum trigger distance at which power				Power	r Red	uctio	n Sta	itus			
	Position	reduction was maintained over ±45°	-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
WCDMA B2	Top edge	18mm	on	on	on	on	on	on	on	on	on	on	on
WCDMA B4	Top edge	18mm	on	on	on	on	on	on	on	on	on	on	on
WCDMA B5	Top edge	18mm	on	on	on	on	on	on	on	on	on	on	on
LTE B2	Top edge	18mm	on	on	on	on	on	on	on	on	on	on	on
LTE B4	Top edge	18mm	on	on	on	on	on	on	on	on	on	on	on
LTE B5	Top edge	18mm	on	on	on	on	on	on	on	on	on	on	on
LTE B7	Top edge	18mm	on	on	on	on	on	on	on	on	on	on	on
LTE B38	Top edge	18mm	on	on	on	on	on	on	on	on	on	on	on
LTE B40 Subset 1	Top edge	18mm	on	on	on	on	on	on	on	on	on	on	on
LTE B40 Subset 2	Top edge	18mm	on	on	on	on	on	on	on	on	on	on	on
LTE B41	Top edge	18mm	on	on	on	on	on	on	on	on	on	on	on
LTE B66	Top edge	18mm	on	on	on	on	on	on	on	on	on	on	on

Conclusion: It can be ensured that the proximity sensor can be valid triggered for the DUT tilt coverage exposure condition.

5.3.8 SAR Detection Mechanism Specification

This device support the sensor detection mechanism, the main purpose is to minimize triggering associated with power reduction scenarios and provide enhanced user experience.

More details information followings:

Main Antenna						Powe	r Reduction L	evel Amount (dB)				
Power Reduction Scenario	Power Level	Sensor Mode	WCDMA B2	WCDMA B4	WCDMA B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B38	LTE B40	LTE B41	LTE B66
Full power	Full power	Full power	23.00	23.00	23.00	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
Standalone	DSI1	Sensor off	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Standalone	DSI2	Sensor on	4.00	4.00	4.00	4.50	2.50	2.50	2.00	2.50	2.50	2.50	4.50

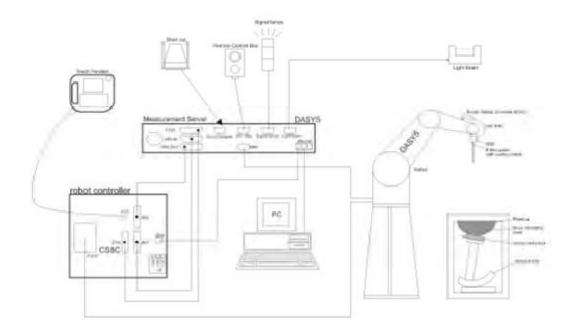




6 SAR Measurements System Configuration

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.

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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 10 μ W/g to > 100 mW/g Linearity: Range \pm 0.2dB (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 \pm 0.25dB. 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 bellow 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: $\Delta t = \text{Exposure time (30 seconds)}$,

C = Heat capacity of tissue (brain or muscle),

 ΔT = Temperature increase due to RF exposure.

Or

SAR=IEI²σ/ρ

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	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm			
probe sensors) to phantom surface					
Maximum probe angle from probe axis to					
phantom surface normal at the	30° ± 1°	20° ± 1°			
measurement location					
	≤ 2 GHz: ≤ 15 mm	3 – 4 GHz: ≤ 12 mm			
	2 – 3 GHz: ≤ 12 mm	4 – 6 GHz: ≤ 10 mm			
	When the x or y dimens	sion of the test device, in			
Maximum area scan spatial resolution:	the measurement plar	ne orientation, is smaller			
ΔxArea, ΔyArea	than the above, the m	neasurement resolution			
	must be ≤ the correspo	nding x or y dimension of			
	the test device with at	least one measurement			
	point on the test device.				



Zoom Scan

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

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

			≤3GHz	> 3 GHz	
Maximum zaam	Maximum zoom scan spatial resolution:△x _{zoom} △y _{zoom}			3 – 4GHz: ≤5mm*	
Maximum 200m scan spatial resolution.△x _{zoom} △y _{zoom}			2 – 3GHz: ≤5mm*	4 – 6GHz: ≤4mm*	
Massissess				3 – 4GHz: ≤4mm	
Maximum zoom scan	Uı	niform grid: $\triangle z_{zoom}(n)$	≤5mm	4 – 5GHz: ≤3mm	
				5 – 6GHz: ≤2mm	
spatial	Graded grid	$\triangle z_{zoom}(1)$: between 1 st two		3 – 4GHz: ≤3mm	
resolution,		0	points closest to phantom	≤4mm	4 – 5GHz: ≤2.5mm
normal to		surface		5 – 6GHz: ≤2mm	
phantom		$\triangle z_{zoom}(n>1)$: between	24 F. A.	- (- 1)	
surface		subsequent points	≤1.5•△z _{zoom} (n-1)		
Minimum				3 – 4GHz: ≥28mm	
zoom scan		X, y, z	≥30mm	4 – 5GHz: ≥25mm	
volume				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.

Volume Scan Procedures

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

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.

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



7 Main Test Equipment

Name of Equipment	pment Manufacturer Type/Model Serial Number			Last Cal.	Cal. Due Date
Network Analyzer	Agilent	E5071B	MY42404014	2022-05-14	2023-05-13
Dielectric Probe Kit	SPEAG	DAK-12	1171	2022-10-29	2023-10-28
Power Meter	Agilent	E4417A	GB41291714	2022-05-14	2023-05-13
Power Sensor	Agilent	N8481H	MY50350004	2022-05-14	2023-05-13
Power Sensor	Agilent	E9327A	US40441622	2022-05-14	2023-05-13
Power Sensor	Agilent	NRP18S	101955	2022-05-14	2023-05-13
Signal Generator	Agilent	N5181A	MY50140143	2022-05-14	2023-05-13
Dual Directional Coupler	UCL	UCL-DDC0 56G-S	20010600118	1	/
Amplifier	INDEXSAR	TPA-005060 G01	13030502	2022-05-14	2023-05-13
Wireless Communication Tester	Anritsu	MT8820C	6201342015	2021-12-12	2022-12-11
Wireless Communication Tester	Agilent	E5515C	MY48360988	2021-12-12	2022-12-11
Wireless Communication Tester	R&S	CMW 500	146734	2022-05-14	2023-05-13
E-field Probe	SPEAG	EX3DV4	3677	3677 2022-07-08	
DAE	SPEAG	DAE4	1317	2022-06-13	2023-06-12
Validation Kit 835MHz	SPEAG	D835V2	4d020	2020-08-28	2023-08-27
Validation Kit 1750MHz	SPEAG	D1750V2	1033	2020-02-25	2023-02-24
Validation Kit 1900MHz	SPEAG	D1900V2	5d060	2020-08-27	2023-08-26
Validation Kit 2300MHz	SPEAG	D2300V2	1131	2022-09-09	2025-09-08
Validation Kit 2450MHz	SPEAG	D2450V2	786	2020-08-27	2023-08-26
Validation Kit 2600MHz	SPEAG	D2600V2	1025	2021-04-23	2024-04-22
Software for Tissue	Agilent	85070	1	1	1
Temperature Probe	Tianjin jinming	JM222	381	2022-05-14	2023-05-13
Twin SAM Phantom	SPEAG	SAM1	1666	1	/
Hygrothermograph	Anymetr	HTC - 1	TY2020A003	2022-05-14	2023-05-13
TX90 XL	SPEAG	Staubli TX90 XL	/	1	1
Software for Test	SPEAG	DASY52	52.10.4.1527	1	1



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	σ(s/m)
835	41.5	0.90
1750	40.1	1.37
1900	40.0	1.40
2300	39.5	1.67
2450	39.2	1.80
2600	39.0	1.96

Measurements results

Frequency (MHz)	Temp			Dielectric neters		Dielectric neters	Limit (Within ±5%)	
	Test Date	°C	٤r	σ(s/m)	٤r	σ(s/m)	Dev	Dev
			C _r		c r		ε _r (%)	σ(%)
835	2022/11/11	21.5	41.4	0.87	41.5	0.90	-0.24	-3.33
1750	2022/11/23	21.5	40.2	1.33	40.1	1.37	0.25	-2.92
1900	2022/11/22	21.5	40.2	1.41	40.0	1.40	0.50	0.71
2300	2022/11/24	21.5	40.1	1.65	39.5	1.67	1.52	-1.20
2450	2022/11/24	21.5	38.7	1.82	39.2	1.80	-1.28	1.11
2600	2022/11/25	21.5	38.2	2.01	39.0	1.96	-2.05	2.55
	2022/11/26	21.5	38.4	2.03	39.0	1.96	-1.54	3.57

Note: The depth of tissue-equivalent liquid in a phantom must be \geq 15.0 cm for SAR measurements \leq 3 GHz and \geq 10.0 cm for measurements > 3 GHz.



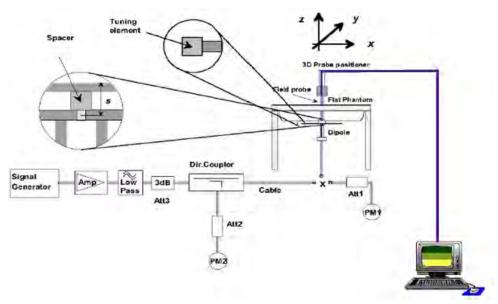
eurofins 🔅

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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



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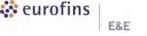
Justification for Extended SAR Dipole Calibrations

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:

Dinala		Date of	Return Loss	Δ%		Impeda	ince (Ω)	
Dipole		Measurement	(dB)	Δ %	Real	ΔΩ	Imaginary	ΔΩ
Dir I - D005\/0	l l a a al	8/28/2020	26.2	/	54.8	1	1.73	/
Dipole D835V2 SN: 4d020	Head Liquid	8/27/2021	26.5	1.1	55.2	0.4	1.74	0.01
014. 40020	Liquid	8/26/2022	27.2	2.6	55.5	0.3	1.74	0
D: D4750\/0		2/25/2020	38.3	/	48.8	1	-0.06	/
Dipole D1750V2 SN: 1033	Head Liquid	2/24/2021	40.0	4.4	49.9	1.1	-0.06	0
314. 1033	Liquid	2/23/2022	40.6	1.5	51.1	1.2	-0.05	0.01
Dir I - D4000\/0		8/27/2020	23.3	/	52.5	1	6.58	/
Dipole D1900V2 SN: 5d060	Head Liquid	8/26/2021	23.0	-1.3	51.9	-0.6	6.54	-0.04
014. 00000	Liquid	8/25/2022	22.2	-3.5	51.2	-0.7	6.53	-0.01
Dir I - D0450\/0	l l a a al	8/27/2020	27.1	0.7	53.8	-0.7	1.43	-0.01
Dipole D2450V2 SN: 786	Head Liquid	8/26/2021	27.4	1.1	53.4	-0.4	1.43	0
SIN. 700	Liquid	8/25/2022	22.9	/	50.1	1	-7.19	/
Dipole D2600V2	Head	4/23/2021	22.4	-2.2	50.7	0.6	-7.23	-0.04
SN: 1025	Liquid	4/22/2022	27.5	1	48.2	1	3.80	1

System Check Results

Frequency (MHz)	Test Date	Temp ℃	250mW Measured SAR _{1g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
835	2022/11/11	21.5	2.43	9.72	9.65	0.73	1
1750	2022/11/23	21.5	8.96	35.84	35.90	-0.17	2
1900	2022/11/22	21.5	9.88	39.52	39.50	0.05	3
2300	2022/11/24	21.5	12.37	49.48	50.10	-1.24	4
2450	2022/11/24	21.5	13.71	54.84	52.30	4.86	5
2600	2022/11/25	21.5	13.90	55.60	56.10	-0.89	6
2600	2022/11/26	21.5	13.80	55.20	56.10	-1.60	7
Note: Target	Values used de	erive fron	n the calibration	n certificate Dat	a Storage and	Evaluation.	



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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.

Erogueneu		Drobo	Drobo	PERM C		COND	CW	Validation		
Frequency [MHz]	Date	Probe SN	Probe Type	Probe 0	Cal Point		COND (Σ)	Sensitivity	Probe	Probe
[IVII IZ]		314	туре			(LI)	(2)	Sensitivity	Linearity	Isotropy
835	2022/7/8	3677	EX3DV4	835	Head	41.5	0.90	PASS	PASS	PASS
1750	2022/7/8	3677	EX3DV4	1750	Head	40.1	1.37	PASS	PASS	PASS
1900	2022/7/8	3677	EX3DV4	1900	Head	40.0	1.40	PASS	PASS	PASS
2300	2022/7/8	3677	EX3DV4	2300	Head	39.5	1.67	PASS	PASS	PASS
2450	2022/7/8	3677	EX3DV4	2450	Head	39.2	1.80	PASS	PASS	PASS
2600	2022/7/8	3677	EX3DV4	2600	Head	39.0	1.96	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.

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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 WCDMA Mode

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

		WCDMA I	Band II				
		Maximum Output Power (dBm)					
Main Ant-S	Sensor off	Char	nnel/Frequency(I	MHz)	Tuna un		
		9262/1852.4	9400/1880	9538/1907.6	Tune-up		
RMC	12.2k	22.32	22.30	22.32	23.00		
AMR	12.2k	22.42	22.32	22.16	23.00		
	Subtest 1	21.70	21.78	21.82	22.50		
HSDPA	Subtest 2	21.96	21.78	21.92	22.50		
ПОПРА	Subtest 3	21.48	21.32	21.24	22.00		
	Subtest 4	21.44	21.28	21.42	22.00		
	Subtest 1	21.88	21.72	21.98	22.50		
	Subtest 2	20.90	20.90	20.80	21.50		
HSUPA	Subtest 3	21.20	21.24	21.16	22.00		
	Subtest 4	20.82	20.68	20.66	21.50		
	Subtest 5	21.98	21.92	21.74	22.50		
	Subtest 1	21.86	21.84	21.72	22.50		
	Subtest 2	21.72	21.66	21.90	22.50		
DC-HSDPA	Subtest 3	21.42	21.16	21.46	22.00		
	Subtest 4	21.32	21.42	21.16	22.00		

WCDMA Band II							
		N	/laximum Output	t Power (dBm)			
Main Ant-S	Sensor on	Char	nnel/Frequency(I	MHz)	Tung up		
			9400/1880	9538/1907.6	Tune-up		
RMC	12.2k	17.62	17.93	18.04	19.00		
AMR	12.2k	17.68	18.05	18.16	19.00		
	Subtest 1	17.16	17.27	17.58	18.50		
HSDPA	Subtest 2	17.08	17.39	17.70	18.50		
ПЭДРА	Subtest 3	16.68	16.85	17.02	18.00		
	Subtest 4	16.48	16.77	16.94	18.00		



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	Subtest 1	17.22	17.27	17.50	18.50		
	Subtest 2	16.08	16.55	16.44	17.50		
HSUPA	Subtest 3	16.66	16.81	17.10	18.00		
	Subtest 4	16.26	16.57	16.38	17.50		
	Subtest 5	17.00	17.55	17.68	18.50		
	Subtest 1	17.12	17.29	17.48	18.50		
DC-HSDPA	Subtest 2	17.12	17.49	17.66	18.50		
DC-HODPA	Subtest 3	16.72	16.91	17.16	18.00		
	Subtest 4	16.56	17.05	17.10	18.00		

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

		WCDMA	Band IV				
		Maximum Output Power (dBm)					
Main Ant-S	Main Ant-Sensor off		nnel/Frequency(M	1Hz)	T		
		1312/1712.4	1413/1732.6	1513/1752.6	Tune-up		
RMC	12.2k	22.17	22.23	22.25	23.00		
AMR	12.2k	22.13	22.09	22.17	23.00		
	Subtest 1	21.59	21.73	21.69	22.50		
ПСБВУ	Subtest 2	21.69	21.65	21.63	22.50		
HSDPA	Subtest 3	21.27	21.13	21.17	22.00		
	Subtest 4	21.31	21.23	21.37	22.00		
	Subtest 1	21.59	21.81	21.75	22.50		
	Subtest 2	20.79	20.67	20.73	21.50		
HSUPA	Subtest 3	21.27	21.09	21.27	22.00		
	Subtest 4	20.67	20.65	20.65	21.50		
	Subtest 5	21.55	21.69	21.77	22.50		
	Subtest 1	21.57	21.79	21.63	22.50		
DC-HSDPA	Subtest 2	21.67	21.85	21.73	22.50		
DC-HODFA	Subtest 3	21.31	21.11	21.15	22.00		
	Subtest 4	21.29	21.29	21.25	22.00		

	WORMS THE							
WCDMA Band IV								
			Maximum Output	Power (dBm)				
Main Ant-S	Sensor on	Cha	nnel/Frequency(M	1Hz)	Tung un			
		1312/1712.4	1413/1732.6	1513/1752.6	Tune-up			
RMC	12.2k	17.51	17.70	17.47	19.00			
AMR	12.2k	17.43	17.60	17.57	19.00			
	Subtest 1	17.17	17.34	16.85	18.50			
HSDPA	Subtest 2	16.93	17.24	16.81	18.50			
	Subtest 3	16.57	16.80	16.57	18.00			



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				rtoport rton rt	
	Subtest 4	16.65	16.78	16.31	18.00
	Subtest 1	17.09	17.28	16.83	18.50
	Subtest 2	15.93	16.22	16.09	17.50
HSUPA	Subtest 3	16.47	16.78	16.59	18.00
	Subtest 4	16.07	16.30	16.01	17.50
	Subtest 5	17.17	17.04	16.93	18.50
	Subtest 1	16.89	17.32	16.83	18.50
DC-HSDPA	Subtest 2	16.87	17.16	17.13	18.50
DC-HSDPA	Subtest 3	16.57	16.76	16.59	18.00
	Subtest 4	16.65	16.86	16.39	18.00

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

		WCDMA B	and V			
		Maximum Output Power (dBm)				
Main Ant-Sensor off		Chai	nnel/Frequency(N	ИHz)	Tuna un	
		4132/826.4	4183/836.6	4233/846.6	Tune-up	
RMC	12.2k	21.95	22.00	22.01	23.00	
AMR	12.2k	22.05	21.92	21.93	23.00	
	Subtest 1	21.39	21.42	21.67	22.50	
HSDPA	Subtest 2	21.31	21.50	21.35	22.50	
ПЭДРА	Subtest 3	21.07	20.88	20.99	22.00	
	Subtest 4	20.93	21.12	21.01	22.00	
	Subtest 1	21.35	21.38	21.53	22.50	
	Subtest 2	20.45	20.62	20.63	21.50	
HSUPA	Subtest 3	20.89	21.08	21.01	22.00	
	Subtest 4	20.41	20.64	20.67	21.50	
	Subtest 5	21.59	21.48	21.67	22.50	
	Subtest 1	21.47	21.66	21.45	22.50	
DC-HSDPA	Subtest 2	21.51	21.52	21.49	22.50	
DC-HODFA	Subtest 3	21.09	21.00	20.87	22.00	
	Subtest 4	20.91	21.10	21.15	22.00	

WCDMA Band V						
		ı	Maximum Output	Power (dBm)		
Main Ant-Sensor on		Cha	Channel/Frequency(MHz)			
		4132/826.4	4183/836.6	4233/846.6	Tune-up	
RMC	12.2k	17.96	17.80	17.76	19.00	
AMR	12.2k	18.12	17.86	17.86	19.00	
HSDPA	Subtest 1	17.36	17.14	17.32	18.50	
	Subtest 2	17.36	17.44	17.28	18.50	



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Orat Toot Hopo			Report Non Region Core			
	Subtest 3	17.04	16.76	16.72	18.00	
	Subtest 4	16.88	16.76	16.68	18.00	
	Subtest 1	17.34	17.34	17.20	18.50	
	Subtest 2	16.58	16.44	16.32	17.50	
HSUPA	Subtest 3	16.92	16.86	16.86	18.00	
	Subtest 4	16.42	16.34	16.30	17.50	
	Subtest 5	17.50	17.18	17.30	18.50	
	Subtest 1	17.40	17.26	17.20	18.50	
DC-HSDPA	Subtest 2	17.44	17.14	17.22	18.50	
	Subtest 3	16.96	16.72	16.64	18.00	
	Subtest 4	16.80	16.80	16.92	18.00	

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9.2 LTE Mode

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

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

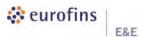
Modulation	Cha	Channel bandwidth / Transmission bandwidth (N_{RB})								
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz				
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1			
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1			
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2			

			L	TE Band2			
\$	Sensor off-Mai	n Ant		Maximu	ım Output Powe	r (dBm)	
Dondusidth	Modulation	RB	offset	Char	nnel/Frequency(MHz)	Tune-up
Bandwidth	Modulation	allocation	Oliset	18607/1850.7	18900/1880	19193/1909.3	
		1	0	22.53	22.88	22.80	23.50
		1	2	22.57	22.84	22.76	23.50
		1	5	22.49	23.00	22.76	23.50
	QPSK	3	0	22.64	22.61	22.61	23.50
		3	2	22.54	22.59	22.76	23.50
		3	3	22.54	22.61	22.60	23.50
1.4MHz		6	0	21.57	21.75	21.61	22.50
1.4111112		1	0	22.24	21.24	21.42	22.50
		1	2	22.10	21.27	21.31	22.50
		1	5	22.16	21.27	21.19	22.50
	16QAM	3	0	21.70	21.84	21.91	22.50
		3	2	21.76	21.72	21.80	22.50
		3	3	21.67	21.72	21.72	22.50
		6	0	20.77	20.78	20.93	21.50
Bandwidth	Modulation	RB	offset	Char	nnel/Frequency(MHz)	Tune-up
Danawiatii	Wodalation	allocation	Oliset	18615/1851.5	18900/1880	19185/1908.5	типс-ир
		1	0	22.50	22.83	22.77	23.50
		1	7	22.53	22.83	22.76	23.50
		1	14	22.46	22.98	22.72	23.50
	QPSK	8	0	21.69	21.64	21.67	22.50
3MHz		8	4	21.62	21.61	21.80	22.50
OIII 12		8	7	21.58	21.66	21.63	22.50
		15	0	21.56	21.71	21.57	22.50
		1	0	22.23	21.19	21.37	22.50
	16QAM	1	7	22.09	21.24	21.29	22.50
		1	14	22.13	21.24	21.16	22.50
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SAR Test Report Report No.: R2209A0873-S1V2 0 20.76 20.92 20.98 8 21.50 4 8 20.80 20.77 20.84 21.50 20.72 20.78 8 7 20.75 21.50 20.74 15 0 20.76 20.88 21.50 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 18625/1852.5 18900/1880 19175/1907.5 1 0 22.47 22.81 22.73 23.50 1 22.79 22.73 13 22.51 23.50 1 24 22.43 22.93 22.68 23.50 **QPSK** 12 0 21.66 21.59 21.63 22.50 12 21.75 6 21.60 21.57 22.50 12 13 21.56 21.64 21.59 22.50 25 0 21.56 21.70 21.55 22.50 5MHz 1 0 22.23 21.15 21.34 22.50 1 22.09 21.22 21.26 22.50 13 24 21.22 21.12 22.10 22.50 12 0 20.74 20.95 16QAM 20.88 21.50 12 6 20.77 20.72 20.80 21.50 12 13 20.69 20.70 20.74 21.50 0 20.74 20.70 25 20.83 21.50 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 18650/1855 18900/1880 19150/1905 1 0 22.49 22.82 22.76 23.50 1 25 22.54 22.84 22.77 23.50 1 49 22.45 22.97 22.71 23.50 **QPSK** 25 0 21.69 21.64 21.67 22.50 25 13 21.63 21.62 21.79 22.50 25 25 21.58 21.68 21.64 22.50 0 21.59 50 21.60 21.72 22.50 10MHz 1 0 22.27 21.18 21.36 22.50 1 25 21.26 21.29 22.13 22.50 1 49 22.13 21.24 21.15 22.50 25 0 20.77 20.93 20.99 21.50 16QAM 25 13 20.79 20.76 20.83 21.50 25 25 20.72 20.75 20.78 21.50 0 20.77 20.75 50 20.87 21.50 Channel/Frequency(MHz) RB **Bandwidth** Modulation offset Tune-up 18675/1857.5 allocation 18900/1880 19125/1902.5 0 22.78 22.74 22.48 23.50 1 22.74 23.50 38 22.52 22.83 15MHz **QPSK** 1 74 22.42 22.92 22.67 23.50 36 0 21.67 21.60 21.64 22.50 36 18 21.60 21.57 21.75 22.50



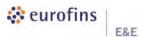
Report No.: R2209A0873-S1V2 **SAR Test Report** 39 36 21.55 21.65 21.60 22.50 75 0 21.58 21.68 21.54 22.50 0 22.25 21.16 21.34 22.50 1 1 38 22.11 21.23 21.27 22.50 1 74 22.11 21.20 21.12 22.50 36 0 20.74 20.91 20.96 21.50 16QAM 36 18 20.76 20.71 20.79 21.50 20.70 20.71 20.75 36 39 21.50 75 0 20.74 20.70 20.83 21.50 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 18700/1860 18900/1880 19100/1900 1 0 22.45 22.74 22.71 23.50 1 50 22.51 22.79 22.72 23.50 1 99 22.40 22.91 22.64 23.50 **QPSK** 50 0 21.64 21.55 21.60 22.50 50 25 22.50 21.58 21.53 21.72 50 50 21.60 21.56 22.50 21.52 100 0 21.50 21.55 21.63 22.50 20MHz 1 0 22.22 21.12 21.29 22.50 21.23 22.50 1 50 22.08 21.21 99 22.08 21.17 21.10 22.50 1 20.71 20.87 20.93 21.50 16QAM 50 0 50 25 20.73 20.69 20.76 21.50 50 50 20.67 20.66 20.71 21.50 100 0 20.72 20.66 20.80 21.50

			L	TE Band2			
(Sensor on-Mai	n Ant		Maximu			
Pandwidth	Modulation	RB	offset	Channel/Frequency(MHz)			Tune-up
Bandwidth	Modulation	allocation		18607/1850.7	18900/1880	19193/1909.3	
		1	0	18.59	18.45	18.92	19.00
		1	2	18.21	18.22	18.30	19.00
		1	5	18.53	18.47	18.46	19.00
	QPSK	3	0	18.25	17.99	18.22	19.00
		3	2	17.94	18.21	17.85	19.00
		3	3	18.04	17.77	18.22	19.00
1.4MHz		6	0	17.19	17.48	17.31	18.00
		1	0	17.52	17.60	17.68	18.00
		1	2	17.50	17.44	17.22	18.00
	16OAM	1	5	17.71	17.94	17.78	18.00
	16QAM	3	0	17.43	17.09	17.27	18.00
		3	2	17.19	17.62	16.81	18.00
		3	3	17.24	17.55	17.21	18.00



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Bandwidth Modulation RB allocation Offset allocation 16.44 16.63 16.36 Channel/Frequency(MHz) 18615/1851.5 18900/1880 19185/1908.5 1	17.00 Tune-up 19.00 19.00 19.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00 17.00
Bandwidth Modulation allocation 18615/1851.5 18900/1880 19185/1908.5	19.00 19.00 19.00 18.00 18.00 18.00 18.00 18.00 18.00 17.00
Allocation 18615/1851.5 18900/1880 19185/1908.5	19.00 19.00 19.00 18.00 18.00 18.00 18.00 18.00 18.00 17.00
April	19.00 19.00 18.00 18.00 18.00 18.00 18.00 18.00 17.00
Apsk 1	19.00 18.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00
Application	18.00 18.00 18.00 18.00 18.00 18.00 17.00
Bandwidth September Sept	18.00 18.00 18.00 18.00 18.00 18.00 17.00
B	18.00 18.00 18.00 18.00 18.00 17.00
15	18.00 18.00 18.00 18.00 17.00
1	18.00 18.00 18.00 17.00
1	18.00 18.00 17.00 17.00
1	18.00 17.00 17.00
Bandwidth 8 0 16.54 16.22 16.39	17.00 17.00
8 4 16.30 16.75 15.93	17.00
Bandwidth Modulation RB allocation RB T 16.34 16.67 16.39	
To To To To To To To To	17.00
Bandwidth RB allocation Offset allocation Channel/Frequency(MHz) 1 0 18.58 18.47 18.91 1 13 18.17 18.21 18.31 1 24 18.53 18.47 18.46 QPSK 12 0 17.32 17.06 17.31	
Modulation allocation offset 18625/1852.5 18900/1880 19175/1907.5 1	17.00
1	Tung up
1 13 18.17 18.21 18.31 1 24 18.53 18.47 18.46 QPSK 12 0 17.32 17.06 17.31	Tune-up
1 24 18.53 18.47 18.46 QPSK 12 0 17.32 17.06 17.31	19.00
QPSK 12 0 17.32 17.06 17.31	19.00
	19.00
12 6 17.04 17.27 16.92	18.00
	18.00
12 13 17.12 16.86 17.28	18.00
5MHz 25 0 17.19 17.51 17.32	18.00
1 0 17.52 17.58 17.68	18.00
1 13 17.50 17.42 17.23	18.00
1 24 17.70 17.96 17.77	18.00
16QAM 12 0 16.52 16.18 16.36	17.00
12 6 16.27 16.70 15.89	17.00
12 13 16.31 16.62 16.30	17.00
25 0 16.45 16.63 16.34	17.00
Randwidth Modulation RB Channel/Frequency(MHz)	Tuna
Bandwidth Modulation offset 18650/1855 18900/1880 19150/1905	Tune-up
1 0 18.60 18.48 18.94	19.00
1 25 18.20 18.26 18.35	19.00
1 49 18.55 18.51 18.49	19.00
QPSK 25 0 17.35 17.11 17.35	18.00
10MHz 25 13 17.07 17.32 16.96	18.00
25 25 17.14 16.90 17.33	
50 0 17.23 17.53 17.36	18.00
16QAM 1 0 17.54 17.61 17.70	18.00 18.00



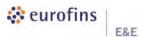
SAR Test Report Report No.: R2209A0873-S1V2 25 17.53 17.46 17.26 18.00 1 49 17.73 17.98 17.80 18.00 17.00 25 0 16.55 16.23 16.40 25 13 16.29 16.74 15.92 17.00 25 25 16.34 16.67 16.34 17.00 50 0 16.48 16.68 16.38 17.00 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 18675/1857.5 19125/1902.5 18900/1880 1 0 18.59 18.44 18.92 19.00 1 38 18.18 18.25 18.32 19.00 1 74 18.46 18.45 19.00 18.52 0 17.32 **QPSK** 36 17.33 17.07 18.00 36 18 17.04 17.27 16.92 18.00 36 39 17.11 16.87 17.29 18.00 75 0 17.21 17.49 17.31 18.00 15MHz 0 17.59 17.68 18.00 17.49 1 38 17.51 17.43 17.24 18.00 74 17.94 17.77 1 17.70 18.00 16QAM 36 0 16.52 16.21 16.37 17.00 36 18 16.26 16.69 15.88 17.00 16.32 16.31 17.00 36 39 16.63 75 16.45 16.63 16.34 17.00 0 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 18700/1860 18900/1880 19100/1900 1 0 18.56 18.40 18.89 19.00 1 50 18.17 18.21 18.30 19.00 1 99 18.50 18.45 18.42 19.00 **QPSK** 50 0 17.30 17.02 17.28 18.00 50 25 17.02 17.23 16.89 18.00 50 50 17.08 16.82 17.25 18.00 100 0 17.18 17.44 17.27 18.00 20MHz 1 0 17.55 17.63 18.00 17.60 1 50 17.47 17.41 17.20 18.00 1 99 17.68 17.91 17.75 18.00 16.34 50 0 16.49 16.17 17.00 16QAM 15.85 17.00 50 25 16.23 16.67 16.27 17.00 50 50 16.29 16.58 100 16.31 17.00 0 16.43 16.59



SAR Test Report

LTE Band4									
9	Sensor off-Mai	n Ant			ım Output Powe	 r (dBm)			
	JOHOOF OH-MAI	RB			nnel/Frequency(I	,	Tune-up		
Bandwidth	Modulation	allocation	offset	19957/1710.7	20175/1732.5	20393/1754.3	rune up		
		1	0	23.21	22.86	22.91	23.50		
		1	2	23.19	22.80	22.76	23.50		
		1	5	22.95	22.79	22.66	23.50		
	QPSK	3	0	22.71	22.66	22.64	23.50		
		3	2	22.59	22.63	22.65	23.50		
		3	3	22.59	22.65	22.78	23.50		
1.4MHz		6	0	21.80	21.77	21.77	22.50		
1.4111712		1	0	21.84	21.85	21.63	22.50		
		1	2	21.88	21.95	21.53	22.50		
		1	5	21.83	21.74	21.75	22.50		
	16QAM	3	0	21.76	21.77	21.76	22.50		
		3	2	21.81	21.82	21.77	22.50		
		3	3	21.71	21.71	21.81	22.50		
		6	0	20.82	20.86	20.96	21.50		
Bandwidth	Modulation	RB	offset	Char	nnel/Frequency(MHz)		Tune-up		
Danuwidin	Modulation	allocation	Uliset	19965/1711.5	20175/1732.5	20385/1753.5	Turie-up		
		1	0	23.23	22.90	22.94	23.50		
		1	7	23.17	22.83	22.80	23.50		
		1	14	22.98	22.84	22.70	23.50		
	QPSK	8	0	21.81	21.78	21.77	22.50		
		8	4	21.71	21.73	21.77	22.50		
		8	7	21.69	21.76	21.88	22.50		
3MHz		15	0	21.80	21.81	21.80	22.50		
ЭМП		1	0	21.84	21.87	21.66	22.50		
		1	7	21.88	21.95	21.57	22.50		
		1	14	21.85	21.78	21.78	22.50		
	16QAM	8	0	20.87	20.90	20.88	21.50		
		8	4	20.92	20.95	20.89	21.50		
		8	7	20.81	20.83	20.94	21.50		
		15	0	20.85	20.90	20.99	21.50		
Bandwidth	Modulation	RB	offset	Char	nnel/Frequency(I	MHz)	Tune-up		
Danawiatii	Modulation	allocation	Oliset	19975/1712.5	20175/1732.5	20375/1752.5	Turie-up		
		1	0	23.20	22.88	22.90	23.50		
		1	13	23.15	22.79	22.77	23.50		
		1	24	22.95	22.79	22.66	23.50		
5MHz	QPSK	12	0	21.78	21.73	21.73	22.50		
		12	6	21.69	21.69	21.72	22.50		
		12	13	21.67	21.74	21.84	22.50		
		25	0	21.80	21.80	21.78	22.50		

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SAR Test Report Report No.: R2209A0873-S1V2 0 21.84 21.83 21.63 22.50 1 13 21.88 21.93 21.54 22.50 21.74 1 24 21.82 21.76 22.50 0 16QAM 12 20.85 20.86 20.85 21.50 12 6 20.89 20.90 20.85 21.50 20.78 20.90 12 13 20.78 21.50 25 0 20.83 20.86 20.94 21.50 Channel/Frequency(MHz) RB **Bandwidth** Modulation offset Tune-up allocation 20000/1715 20175/1732.5 20350/1750 1 0 23.22 22.89 22.93 23.50 1 25 23.18 22.84 22.81 23.50 1 49 22.97 22.83 22.69 23.50 **QPSK** 25 0 21.81 21.78 21.77 22.50 25 13 21.72 21.74 21.76 22.50 21.69 21.78 21.89 22.50 25 25 50 0 21.84 21.82 21.82 22.50 10MHz 1 0 21.65 22.50 21.88 21.86 1 25 21.92 21.97 21.57 22.50 1 49 21.85 21.78 21.77 22.50 16QAM 25 0 20.88 20.91 20.89 21.50 25 13 20.91 20.94 20.88 21.50 20.94 25 25 20.81 20.83 21.50 50 0 20.86 20.91 20.98 21.50 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 20025/1717.5 20175/1732.5 20325/1747.5 1 0 23.21 22.85 22.91 23.50 1 38 23.16 22.83 22.78 23.50 1 74 22.94 22.78 22.65 23.50 **QPSK** 36 21.74 21.74 0 21.79 22.50 36 18 21.69 21.69 21.72 22.50 21.75 36 39 21.66 21.85 22.50 75 0 21.78 21.77 22.50 21.82 15MHz 1 0 21.86 21.84 21.63 22.50 1 38 21.90 21.94 21.55 22.50 21.74 1 74 21.83 21.74 22.50 16QAM 36 0 20.85 20.89 20.86 21.50 20.84 36 18 20.88 20.89 21.50 20.79 20.79 36 39 20.91 21.50 75 0 20.83 20.86 20.94 21.50 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 20050/1720 20175/1732.5 20300/1745 1 0 23.18 22.81 22.88 23.50 20MHz **QPSK** 1 50 23.15 22.79 22.76 23.50



SAR Test Report Report No.: R2209A0873-S1V2 1 99 22.92 22.77 22.62 23.50 50 0 21.69 21.70 22.50 21.76 50 25 21.67 21.65 21.69 22.50 50 50 21.63 22.50 21.70 21.81 100 0 21.79 21.73 21.73 22.50 0 21.58 1 21.83 21.80 22.50 1 50 21.87 21.92 21.51 22.50 1 21.72 99 21.80 21.71 22.50 0 16QAM 50 20.82 20.85 20.83 21.50 25 50 20.85 20.87 20.81 21.50 50 50 20.76 20.74 20.87 21.50 0 100 20.81 20.82 20.91 21.50

			L	TE Band4			
	Sensor on-Mai	n Ant		Maximu	ım Output Powe	r (dBm)	
Dan alveidele	Madulatian	RB	-664	Char	nnel/Frequency(I	MHz)	Tune-up
Bandwidth	Modulation	allocation	offset	19957/1710.7	20175/1732.5	20393/1754.3	
		1	0	20.31	19.73	19.79	21.00
		1	2	19.66	19.85	19.62	21.00
		1	5	20.88	20.39	20.37	21.00
	QPSK	3	0	20.07	19.78	19.66	21.00
		3	2	19.90	20.16	19.79	21.00
		3	3	20.33	20.84	20.12	21.00
1.4MHz		6	0	19.23	19.41	18.98	20.00
1.4101712		1	0	19.82	19.10	19.20	20.00
		1	2	19.13	19.37	19.09	20.00
		1	5	19.54	19.78	19.74	20.00
	16QAM	3	0	18.88	18.69	18.68	20.00
		3	2	18.78	19.09	18.81	20.00
		3	3	19.19	19.84	19.13	20.00
		6	0	18.11	18.38	18.01	19.00
Bandwidth	Modulation	RB	offset		nnel/Frequency(I	MHz)	Tune-un
Banawiath	Woddiation	allocation	Oliset	19965/1711.5	20175/1732.5	20385/1753.5	Tune-up
		1	0	20.33	19.77	19.82	21.00
		1	7	19.64	19.88	19.66	21.00
		1	14	20.91	20.44	20.41	21.00
	QPSK	8	0	19.17	18.90	18.79	20.00
3MHz		8	4	19.02	19.26	18.91	20.00
JIVII IZ		8	7	19.43	19.95	19.22	20.00
		15	0	19.23	19.45	19.01	20.00
		1	0	19.82	19.12	19.23	20.00
	16QAM	1	7	19.13	19.37	19.13	20.00
		1	14	19.36	19.80	19.77	20.00



SAR Test Report Report No.: R2209A0873-S1V2 0 17.99 17.82 17.80 8 19.00 4 8 17.89 18.22 17.93 19.00 8 7 18.29 18.96 18.26 19.00 15 0 18.14 18.42 18.04 19.00 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 19975/1712.5 20175/1732.5 20375/1752.5 1 0 20.30 19.75 19.78 21.00 1 13 19.62 19.84 19.63 21.00 1 24 20.88 20.39 20.37 21.00 **QPSK** 12 0 19.14 18.85 18.75 20.00 12 6 19.22 18.86 19.00 20.00 12 13 19.41 19.93 19.18 20.00 25 0 19.23 19.44 18.99 20.00 5MHz 1 0 19.82 19.08 19.20 20.00 1 19.35 19.10 20.00 13 19.13 24 19.33 19.80 19.73 20.00 12 0 17.97 17.78 17.77 19.00 16QAM 12 6 17.86 18.17 17.89 19.00 12 13 18.26 18.91 18.22 19.00 17.99 25 0 18.12 18.38 19.00 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 20000/1715 20175/1732.5 20350/1750 1 0 20.32 19.76 19.81 21.00 1 25 19.65 19.89 19.67 21.00 1 49 20.90 20.43 20.40 21.00 **QPSK** 25 0 19.17 18.90 18.79 20.00 25 13 19.03 19.27 18.90 20.00 25 25 19.43 19.97 19.23 20.00 0 19.27 19.03 50 19.46 20.00 10MHz 1 0 19.86 19.11 19.22 20.00 1 25 19.17 19.39 19.13 20.00 1 49 19.82 19.76 20.00 19.36 25 0 17.83 17.81 16QAM 18.00 19.00 25 13 17.88 18.21 17.92 19.00 25 25 18.29 18.96 18.26 19.00 0 18.43 18.03 50 18.15 19.00 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up 20025/1717.5 allocation 20175/1732.5 20325/1747.5 0 20.31 19.72 19.79 21.00 1 38 19.63 19.88 19.64 21.00 15MHz **QPSK** 1 74 20.87 20.38 20.36 21.00 36 0 18.86 18.76 20.00 19.15 36 18 19.00 19.22 18.86 20.00



Report No.: R2209A0873-S1V2 **SAR Test Report** 39 36 19.40 19.94 19.19 20.00 75 0 19.25 19.42 18.98 20.00 1 0 19.84 20.00 19.09 19.20 1 38 19.15 19.36 19.11 20.00 1 74 19.73 19.34 19.78 20.00 36 0 17.97 17.81 17.78 19.00 16QAM 36 18 17.85 18.16 17.88 19.00 18.27 18.23 36 39 18.92 19.00 75 0 18.12 18.38 17.99 19.00 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 20050/1720 20175/1732.5 20300/1745 1 0 20.28 19.68 19.76 21.00 1 50 19.62 19.84 19.62 21.00 1 99 20.85 20.37 20.33 21.00 **QPSK** 50 0 19.12 18.81 18.72 20.00 50 25 19.18 20.00 18.98 18.83 50 50 19.15 20.00 19.57 19.89 100 0 18.94 20.00 19.22 19.37 20MHz 0 1 19.81 19.05 19.15 20.00 50 1 19.12 19.34 19.07 20.00 99 19.31 19.71 20.00 1 19.75 17.94 17.77 17.75 19.00 16QAM 50 0 50 17.85 25 17.82 18.14 19.00 50 50 18.24 18.87 18.19 19.00 100 0 17.96 19.00 18.10 18.34

			L	TE Band5			
	Sensor off-Mai	n Ant		Maximu			
Bandwidth	th Modulation	RB effect	Char	Channel/Frequency(MHz)			
Danawiatii	Wodulation	allocation	offset	20407/824.7	20525/836.5	20643/848.3	
		1	0	22.67	22.67	23.07	23.50
		1	2	22.65	22.67	22.96	23.50
		1	5	22.66	22.76	23.02	23.50
	QPSK	3	0	22.56	22.53	22.53	23.50
		3	2	22.53	22.55	22.44	23.50
		3	3	22.68	22.58	22.47	23.50
1.4MHz		6	0	21.70	21.62	21.59	22.50
		1	0	22.13	22.23	21.71	22.50
		1	2	22.20	22.19	21.60	22.50
	16QAM	1	5	22.21	22.15	21.71	22.50
	TOQAM	3	0	21.58	21.55	22.13	22.50
		3	2	21.51	21.98	21.81	22.50
		3	3	21.54	21.67	21.82	22.50



SAR Test Report Report No.: R2209A0873-S1V2

BandwidthModulationRB allocationoffset102	Channel/Frequency(MHz) 825.5 20525/836.5 2063	20.78 21.50 Tune-up
BandwidthModulationallocationoffset102	825.5 20525/836.5 2063	Tune-un
allocation 2041 1 0 2		
		35/847.5 Tune up
1 7 2	69 22.71 2	23.10 23.50
	63 22.70 2	23.00 23.50
1 14 2	69 22.81 2	23.06 23.50
QPSK 8 0 2	66 21.65 2	21.66 22.50
8 4 2	65 21.65 2	21.56 22.50
8 7 2	78 21.69 2	21.57 22.50
3MHz 15 0 2	70 21.66 2	21.62 22.50
1 0 2	13 22.25 2	21.74 22.50
1 7 2	20 22.19 2	21.64 22.50
1 14 2	23 22.19 2	21.74 22.50
16QAM 8 0 2	69 20.68 2	21.25 21.50
8 4 2	62 21.11 2	20.93 21.50
8 7 2	64 20.79 2	20.95 21.50
15 0 2	73 21.14 2	20.81 21.50
RB effect	Channel/Frequency(MHz)	Tung up
Bandwidth Modulation allocation offset 2042	826.5 20525/836.5 2062	25/846.5 Tune-up
1 0 2	66 22.69 2	23.06 23.50
1 13 2	61 22.66 2	22.97 23.50
1 24 2	66 22.76 2	23.02 23.50
QPSK 12 0 2	63 21.60 2	21.62 22.50
12 6 2	63 21.61 2	21.51 22.50
12 13 2	76 21.67 2	21.53 22.50
25 0 2	70 21.65 2	21.60 22.50
5MHz 1 0 2	13 22.21 2	21.71 22.50
1 13 2	20 22.17 2	21.61 22.50
1 24 2	20 22.17 2	21.70 22.50
16QAM 12 0 2	67 20.64 2	21.22 21.50
12 6 2	59 21.06 2	20.89 21.50
12 13 2	61 20.74 2	20.91 21.50
25 0 2	71 21.10 2	20.76 21.50
RB effect	Channel/Frequency(MHz)	_
Bandwidth Modulation allocation offset 204	0/829 20525/836.5 206	Tune-up
1 0 2	64 22.62 2	23.04 23.50
1 25 2	61 22.66 2	22.96 23.50
1 49 2	63 22.74 2	22.98 23.50
QPSK 25 0 2	61 21.56 2	21.59 22.50
10MHz 25 13 2	61 21.57 2	21.48 22.50
25 25 2	72 21.63 2	21.50 22.50
50 0 2	69 21.58 2	21.55 22.50
		21.66 22.50



Report No.: R2209A0873-S1V2 **SAR Test Report** 25 22.19 22.16 21.58 22.50 1 49 22.12 22.18 21.68 22.50 20.64 25 0 20.63 21.20 21.50 25 13 20.55 21.03 20.85 21.50 25 25 20.59 20.70 20.88 21.50 50 0 20.69 21.06 20.73 21.50

			L	TE Band5			
	Sensor on-Mai	n Ant		Maximu	ım Output Powe	r (dBm)	
Dan alvedalde	N4ll - 4:	RB	- 66 4	Char	nnel/Frequency(I	MHz)	Tune-up
Bandwidth	Modulation	allocation	offset	20407/824.7	20525/836.5	20643/848.3	
		1	0	19.01	19.30	19.69	21.00
		1	2	19.68	19.47	19.89	21.00
		1	5	19.78	19.56	19.49	21.00
	QPSK	3	0	19.34	19.44	19.65	21.00
		3	2	19.60	19.51	19.78	21.00
		3	3	19.74	19.55	19.74	21.00
1.4MHz		6	0	18.61	18.58	18.77	20.00
1.4111172		1	0	18.15	18.51	18.81	20.00
		1	2	18.83	18.75	19.06	20.00
		1	5	18.98	18.76	18.62	20.00
	16QAM	3	0	18.30	18.40	18.56	20.00
		3	2	18.58	18.43	18.69	20.00
		3	3	18.74	18.56	18.64	20.00
		6	0	17.58	17.57	17.72	19.00
Pandwidth	Modulation	RB	offoot	Char	nnel/Frequency(I	MHz)	- Tune-up
Bandwidth	Modulation	allocation	offset	20415/825.5	20525/836.5	20635/847.5	
		1	0	19.02	19.33	19.71	21.00
		1	7	19.67	19.51	19.94	21.00
		1	14	19.80	19.60	19.52	21.00
	QPSK	8	0	18.44	18.56	18.78	20.00
		8	4	18.73	18.62	18.89	20.00
		8	7	18.84	18.68	18.85	20.00
3MHz		15	0	18.65	18.63	18.82	20.00
SIVITZ		1	0	18.19	18.52	18.83	20.00
		1	7	18.87	18.77	19.10	20.00
		1	14	19.00	18.80	18.64	20.00
	16QAM	8	0	17.42	17.54	17.69	19.00
		8	4	17.68	17.55	17.80	19.00
		8	7	17.84	17.68	17.77	19.00
		15	0	17.62	17.62	17.74	19.00

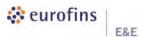


SAR Test Report Report No.: R2209A0873-S1V2

5 1 1 1 1 1 1	MILE	RB	CC 1	Char	nnel/Frequency(I	MHz)	_
Bandwidth	Modulation	allocation	offset	20425/826.5	20525/836.5	20625/846.5	Tune-up
		1	0	19.27	19.25	19.66	21.00
		1	13	19.64	19.46	19.89	21.00
	QPSK	1	24	19.75	19.54	19.45	21.00
		12	0	18.39	18.47	18.71	20.00
		12	6	18.68	18.53	18.82	20.00
		12	13	18.78	18.60	18.77	20.00
5MHz		25	0	18.60	18.54	18.73	20.00
ЭМП		1	0	18.14	18.46	18.76	20.00
		1	13	18.82	18.72	19.04	20.00
		1	24	18.95	18.73	18.59	20.00
	16QAM	12	0	17.36	17.48	17.63	19.00
		12	6	17.62	17.48	17.73	19.00
		12	13	17.79	17.59	17.70	19.00
		25	0	17.57	17.53	17.67	19.00
			·	17.07	17.00	11.01	10.00
Pandwidth	Modulation	RB			nnel/Frequency(I		
Bandwidth	Modulation		offset				Tune-up
Bandwidth	Modulation	RB		Char	nnel/Frequency(I	MHz)	
Bandwidth	Modulation	RB allocation	offset	Char 20450/829	nnel/Frequency(I 20525/836.5	MHz) 20600/844	Tune-up
Bandwidth	Modulation	RB allocation	offset 0	Char 20450/829 19.18	nnel/Frequency(I 20525/836.5 19.25	MHz) 20600/844 19.66	Tune-up 21.00
Bandwidth	Modulation QPSK	RB allocation 1 1	offset 0 25	Char 20450/829 19.18 19.64	nnel/Frequency(I 20525/836.5 19.25 19.46	MHz) 20600/844 19.66 19.89	Tune-up 21.00 21.00
Bandwidth		RB allocation 1 1 1	offset 0 25 49	Char 20450/829 19.18 19.64 19.85	19.46 19.84	MHz) 20600/844 19.66 19.89 19.45	Tune-up 21.00 21.00 21.00
Bandwidth		RB allocation 1 1 1 25	offset 0 25 49 0	Char 20450/829 19.18 19.64 19.85 18.39	19.46 19.84 18.47	MHz) 20600/844 19.66 19.89 19.45 18.71	Tune-up 21.00 21.00 21.00 20.00
		RB allocation 1 1 1 25 25	offset 0 25 49 0 13	Char 20450/829 19.18 19.64 19.85 18.39 18.68	19.46 19.84 18.47 18.53	MHz) 20600/844 19.66 19.89 19.45 18.71 18.82	Tune-up 21.00 21.00 21.00 20.00 20.00
Bandwidth 10MHz		RB allocation 1 1 1 25 25 25	offset 0 25 49 0 13 25	Char 20450/829 19.18 19.64 19.85 18.39 18.68 18.78	19.25 19.46 19.84 18.47 18.53 18.69	MHz) 20600/844 19.66 19.89 19.45 18.71 18.82 18.77	Tune-up 21.00 21.00 21.00 20.00 20.00 20.00
		RB allocation 1 1 1 25 25 25 50	offset 0 25 49 0 13 25 0	Char 20450/829 19.18 19.64 19.85 18.39 18.68 18.78	19.46 19.46 19.47 18.53 18.69 18.54	MHz) 20600/844 19.66 19.89 19.45 18.71 18.82 18.77 18.73	Tune-up 21.00 21.00 21.00 20.00 20.00 20.00 20.00
		RB allocation 1 1 1 25 25 25 50 1	offset 0 25 49 0 13 25 0	Char 20450/829 19.18 19.64 19.85 18.39 18.68 18.78 18.60 18.14	19.25 19.46 19.84 18.47 18.53 18.69 18.46	MHz) 20600/844 19.66 19.89 19.45 18.71 18.82 18.77 18.73 18.76	Tune-up 21.00 21.00 21.00 20.00 20.00 20.00 20.00 20.00
		RB allocation 1 1 1 25 25 25 50 1	offset 0 25 49 0 13 25 0 0 25	Char 20450/829 19.18 19.64 19.85 18.39 18.68 18.78 18.60 18.14 18.82	19.25 19.46 19.84 18.47 18.53 18.69 18.46 18.72	MHz) 20600/844 19.66 19.89 19.45 18.71 18.82 18.77 18.73 18.76 19.04	21.00 21.00 21.00 20.00 20.00 20.00 20.00 20.00 20.00
	QPSK	RB allocation 1 1 1 1 25 25 25 50 1 1 1	offset 0 25 49 0 13 25 0 0 25 49	Char 20450/829 19.18 19.64 19.85 18.39 18.68 18.78 18.60 18.14 18.82 18.95	19.25 19.25 19.46 19.84 18.47 18.53 18.69 18.54 18.46 18.72 18.73	MHz) 20600/844 19.66 19.89 19.45 18.71 18.82 18.77 18.73 18.76 19.04 18.59	Tune-up 21.00 21.00 21.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00
	QPSK	RB allocation 1 1 1 25 25 25 50 1 1 1 25	offset 0 25 49 0 13 25 0 0 25 49 0	Char 20450/829 19.18 19.64 19.85 18.39 18.68 18.78 18.60 18.14 18.82 18.95 17.36	19.25 19.46 19.84 18.47 18.53 18.69 18.46 18.72 18.73 17.48	MHz) 20600/844 19.66 19.89 19.45 18.71 18.82 18.77 18.73 18.76 19.04 18.59 17.63	Tune-up 21.00 21.00 21.00 20.00 20.00 20.00 20.00 20.00 20.00 19.00

LTE Band7									
Sensor off-Main Ant				Maximu	ım Output Powe	r (dBm)			
Pandwidth	Modulation	RB	offoot	Char	nnel/Frequency(l	MHz)	Tune-up		
Bandwidth	Modulation	allocation	offset	20775/2502.5	21100/2535	21425/2567.5			
		1	0	22.72	22.90	22.78	23.50		
		1	13	22.62	22.91	22.91	23.50		
5MHz	QPSK	1	24	22.77	22.95	22.95	23.50		
		12	0	21.72	21.66	22.22	22.50		
		12	6	21.98	21.96	21.75	22.50		

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SAR Test Report Report No.: R2209A0873-S1V2 12 13 21.71 22.18 22.07 22.50 25 0 22.01 22.09 21.80 22.50 1 0 21.60 21.73 21.64 22.50 1 13 22.05 22.28 21.78 22.50 1 24 21.73 21.96 21.85 22.50 12 20.76 21.20 21.24 16QAM 0 21.50 12 6 21.17 21.26 20.92 21.50 12 13 21.25 21.27 21.19 21.50 25 0 21.16 21.23 20.92 21.50 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 20800/2505 21400/2565 21100/2535 1 0 22.74 22.91 22.81 23.50 1 25 22.65 22.96 22.95 23.50 1 49 22.79 22.99 22.98 23.50 **QPSK** 25 21.75 21.71 22.26 22.50 0 25 13 22.01 22.01 21.79 22.50 25 25 21.73 22.22 22.12 22.50 50 0 22.05 22.11 21.84 22.50 10MHz 1 0 21.64 21.76 21.66 22.50 22.32 1 25 22.09 21.81 22.50 1 49 21.76 21.98 21.88 22.50 20.79 21.25 21.28 16QAM 25 0 21.50 25 13 21.19 21.30 20.95 21.50 25 25 21.28 21.32 21.23 21.50 0 21.28 50 21.19 20.96 21.50 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 20825/2507.5 21100/2535 21375/2562.5 0 22.73 22.87 22.79 1 23.50 1 22.95 22.92 38 22.63 23.50 1 74 22.76 22.94 22.94 23.50 22.23 **QPSK** 36 0 21.73 21.67 22.50 21.96 36 18 21.98 21.75 22.50 36 39 21.70 22.19 22.08 22.50 75 0 22.03 22.07 21.79 22.50 15MHz 1 0 21.62 21.74 21.64 22.50 1 22.29 38 22.07 21.79 22.50 1 74 21.74 21.94 21.85 22.50 21.25 16QAM 36 0 20.76 21.23 21.50 36 18 21.16 21.25 20.91 21.50 36 39 21.26 21.28 21.20 21.50 75 0 21.16 21.23 20.92 21.50

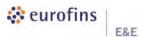


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Donalusi déla	Modulation	RB	offoot	Char	nnel/Frequency(I	MHz)	Tungun
Bandwidth	Modulation	allocation	offset	20850/2510	21100/2535	21350/2560	Tune-up
		1	0	22.70	22.83	22.76	23.50
		1	50	22.62	22.91	22.90	23.50
		1	99	22.74	22.93	22.91	23.50
	QPSK	50	0	21.70	21.62	22.19	22.50
		50	25	21.96	21.92	21.72	22.50
		50	50	21.67	22.14	22.04	22.50
20MHz		100	0	22.00	22.02	21.75	22.50
ZUIVIFIZ		1	0	21.59	21.70	21.59	22.50
		1	50	22.04	22.27	21.75	22.50
		1	99	21.71	21.91	21.83	22.50
	16QAM	50	0	20.73	21.19	21.22	21.50
		50	25	21.13	21.23	20.88	21.50
		50	50	21.23	21.23	21.16	21.50
		100	0	21.14	21.19	20.89	21.50

			L	TE Band7			
	Sensor on-Mai	n Ant		Maximu	ım Output Powe	r (dBm)	
Bandwidth	Modulation	RB	offset	Char	nnel/Frequency(I	MHz)	Tune-up
Balluwiutii	Wodulation	allocation	Ullset	20775/2502.5	21100/2535	21425/2567.5	
		1	0	20.16	20.86	20.90	21.50
		1	13	20.53	20.73	20.56	21.50
		1	24	21.31	21.19	20.90	21.50
	QPSK	12	0	19.37	20.00	19.91	20.50
		12	6	19.62	19.93	19.80	20.50
		12	13	20.25	20.23	19.96	20.50
5MHz		25	0	19.78	20.14	19.93	20.50
ЭМПТ		1	0	19.83	19.57	19.52	20.50
		1	13	19.81	20.10	19.97	20.50
		1	24	19.85	19.74	20.02	20.50
	16QAM	12	0	18.38	19.04	18.93	19.50
		12	6	18.67	19.01	18.86	19.50
		12	13	19.27	19.33	19.00	19.50
		25	0	18.82	19.17	18.95	19.50
Bandwidth	Modulation	RB	offset	Char	nnel/Frequency(l	MHz)	Tune-up
Ballawiatii	Woddiation	allocation	Oliset	20800/2505	21100/2535	21400/2565	Turie-up
		1	0	20.18	20.87	20.93	21.50
		1	25	20.56	20.78	20.60	21.50
10MHz	QPSK	1	49	21.33	21.23	20.93	21.50
		25	0	19.40	20.05	19.95	20.50
		25	13	19.65	19.98	19.84	20.50

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SAR Test Report Report No.: R2209A0873-S1V2 25 25 20.27 20.27 20.01 20.50 50 0 19.82 20.16 19.97 20.50 1 0 19.85 19.60 19.54 20.50 1 25 19.84 20.14 20.00 20.50 1 49 19.88 19.76 20.05 20.50 25 19.09 18.97 16QAM 0 18.41 19.50 25 13 18.69 19.05 18.89 19.50 25 25 19.30 19.38 19.04 19.50 50 0 18.85 19.22 18.99 19.50 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 21375/2562.5 20825/2507.5 21100/2535 1 0 20.17 20.83 20.91 21.50 1 38 20.54 20.77 20.57 21.50 1 74 21.30 21.18 20.89 21.50 **QPSK** 19.38 20.01 19.92 20.50 36 0 36 18 19.62 19.93 19.80 20.50 36 39 20.24 20.24 19.97 20.50 75 0 19.80 20.12 19.92 20.50 15MHz 1 0 19.80 19.58 19.52 20.50 1 38 19.82 20.11 19.98 20.50 20.02 1 74 19.85 19.72 20.50 18.94 16QAM 36 0 18.38 19.07 19.50 36 18 18.66 19.00 18.85 19.50 36 39 19.28 19.34 19.01 19.50 75 0 18.82 19.17 18.95 19.50 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 20850/2510 21100/2535 21350/2560 20.14 20.79 20.88 1 0 21.50 1 20.53 20.55 50 20.73 21.50 21.50 1 99 21.28 21.17 20.86 50 **QPSK** 0 19.35 19.96 19.88 20.50 50 25 19.89 19.77 20.50 19.60 50 50 20.19 19.93 20.50 20.21 100 0 19.77 20.07 19.88 20.50 20MHz 1 0 19.54 19.47 20.50 19.68 1 19.94 50 19.78 20.09 20.50 1 99 19.83 19.69 20.00 20.50 16QAM 50 0 18.35 19.03 18.91 19.50 50 25 18.63 18.98 18.82 19.50 50 50 19.25 19.29 18.97 19.50 100 0 18.80 19.13 18.92 19.50



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			Ľ	TE Band38			
	Sensor off-Mai	n Ant			ım Output Powe	r (dBm)	
		RB			nnel/Frequency(l	,	Tune-up
Bandwidth	Modulation	allocation	offset	37775/2572.5	38000/2595	38225/2617.5	•
		1	0	23.06	23.08	23.07	23.50
		1	13	23.01	23.20	23.05	23.50
		1	24	23.09	23.00	23.07	23.50
	QPSK	12	0	21.83	21.90	21.78	22.50
		12	6	21.85	21.85	21.89	22.50
		12	13	21.88	22.03	21.77	22.50
58411-		25	0	21.90	21.94	21.80	22.50
5MHz		1	0	21.27	21.56	21.17	22.50
		1	13	21.30	21.56	21.22	22.50
		1	24	21.36	21.69	21.15	22.50
	16QAM	12	0	20.85	20.88	20.79	21.50
		12	6	20.86	20.88	20.86	21.50
		12	13	20.91	20.98	20.92	21.50
		25	0	20.78	20.97	20.81	21.50
Bandwidth	Modulation	RB	offset	Char	Channel/Frequency(MHz)		
Bandwidth	Modulation	allocation	onset	37800/2575	38000/2595	38200/2615	Tune-up
		1	0	23.08	23.09	23.10	23.50
		1	25	23.04	23.25	23.09	23.50
		1	49	23.11	23.04	23.10	23.50
	QPSK	25	0	21.86	21.95	21.82	22.50
		25	13	21.88	21.90	21.93	22.50
		25	25	21.90	22.07	21.82	22.50
10MHz		50	0	21.94	21.96	21.84	22.50
TOWNIZ		1	0	21.31	21.59	21.19	22.50
		1	25	21.34	21.60	21.25	22.50
		1	49	21.39	21.71	21.18	22.50
	16QAM	25	0	20.88	20.93	20.83	21.50
		25	13	20.88	20.92	20.89	21.50
		25	25	20.94	21.03	20.96	21.50
		50	0	20.81	21.02	20.85	21.50
Bandwidth	Modulation	RB	offset		nnel/Frequency(Tune-up
	Moderation	allocation		37825/2577.5	38000/2595	38175/2612.5	
		1	0	23.07	23.05	23.08	23.50
		1	38	23.02	23.24	23.06	23.50
15MHz	QPSK	1	74	23.08	22.99	23.06	23.50
15MHz	Δ. Ο.	36	0	21.84	21.91	21.79	22.50
		36	18	21.85	21.85	21.89	22.50
		36	39	21.87	22.04	21.78	22.50

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Report No.: R2209A0873-S1V2 **SAR Test Report** 75 0 21.92 21.92 21.79 22.50 1 0 21.29 21.57 21.17 22.50 1 38 21.32 21.57 21.23 22.50 1 74 21.37 21.67 21.15 22.50 0 36 20.85 20.91 20.80 21.50 16QAM 20.85 20.87 20.85 21.50 36 18 36 39 20.92 20.99 20.93 21.50 75 0 20.78 20.97 20.81 21.50 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 37850/2580 38000/2595 38150/2610 0 23.04 23.01 23.05 23.50 1 1 50 23.04 23.01 23.20 23.50 1 99 23.06 22.98 23.03 23.50 **QPSK** 50 0 21.81 21.86 21.75 22.50 50 25 21.83 21.81 21.86 22.50 50 50 21.74 22.50 21.84 21.99 100 0 21.87 21.75 22.50 21.89 20MHz 1 21.53 21.12 0 21.26 22.50 50 1 21.29 21.55 21.19 22.50 1 99 21.64 21.13 22.50 21.34 0 20.82 20.77 21.50 16QAM 50 20.87 50 25 20.82 20.85 20.82 21.50 50 50 20.89 20.94 20.89 21.50 100 0 20.76 20.93 20.78 21.50

	LTE Band38											
	Sensor on-Mai	n Ant		Maximu	ım Output Powe	er (dBm)						
Bandwidth	Modulation	RB	offset	Char	nnel/Frequency(MHz)	Tune-up					
Danawiatii	Wodulation	allocation	onset	37775/2572.5	38000/2595	38225/2617.5						
		1	0	20.22	20.10	20.14	21.00					
		1	13	20.07	19.93	19.99	21.00					
	QPSK	1	24	20.75	20.68	20.63	21.00					
		12	0	19.30	19.05	19.13	20.00					
		12	6	19.44	19.20	19.26	20.00					
		12	13	19.88	19.61	19.64	20.00					
5MHz		25	0	19.56	19.36	19.40	20.00					
SIVITZ		1	0	19.59	19.33	19.48	20.00					
		1	13	19.57	19.31	19.46	20.00					
		1	24	19.56	19.33	19.67	20.00					
	16QAM	12	0	18.33	18.11	18.32	19.00					
		12	6	18.46	18.28	18.47	19.00					
		12	13	18.86	18.71	18.85	19.00					
		25	0	18.55	18.42	18.58	19.00					



SAR	R Test Report				Re	port No.: R2209A087	/3-S1V2
Dondusidáb	Modulation	RB	offset	Char	nnel/Frequency(I	MHz)	Tuna un
Bandwidth	Modulation	allocation	onset	37800/2575	38000/2595	38200/2615	Tune-up
		1	0	20.24	20.11	20.17	21.00
		1	25	20.10	19.98	20.03	21.00
		1	49	20.77	20.72	20.66	21.00
	QPSK	25	0	19.33	19.10	19.17	20.00
		25	13	19.47	19.25	19.30	20.00
		25	25	19.90	19.65	19.69	20.00
40MU-		50	0	19.60	19.38	19.44	20.00
10MHz		1	0	19.61	19.36	19.50	20.00
		1	25	19.60	19.35	19.49	20.00
		1	49	19.59	19.35	19.70	20.00
	16QAM	25	0	18.36	18.16	18.36	19.00
		25	13	18.48	18.32	18.50	19.00
		25	25	18.89	18.76	18.89	19.00
		50	0	18.58	18.47	18.62	19.00
Bandwidth	Modulation	RB	offset	Char	nnel/Frequency(I	MHz)	Tung up
Bandwidth	iviodulation	allocation	onset	37825/2577.5	38000/2595	38175/2612.5	Tune-up
		1	0	20.23	20.07	20.15	21.00
		1	38	20.08	19.97	20.00	21.00
	QPSK	1	74	20.74	20.67	20.62	21.00
		36	0	19.31	19.06	19.14	20.00
		36	18	19.44	19.20	19.26	20.00
		36	39	19.87	19.62	19.65	20.00
15MHz		75	0	19.58	19.34	19.39	20.00
ISMITZ		1	0	19.56	19.34	19.48	20.00
		1	38	19.58	19.32	19.47	20.00
		1	74	19.56	19.31	19.67	20.00
	16QAM	36	0	18.33	18.14	18.33	19.00
		36	18	18.45	18.27	18.46	19.00
		36	39	18.87	18.72	18.86	19.00
		75	0	18.55	18.42	18.58	19.00
Bandwidth	Modulation	RB	offset	Char	nnel/Frequency(I	MHz)	Tune-up
Bandwidth	Modulation	allocation	Ullset	37850/2580	38000/2595	38150/2610	Turie-up
		1	0	20.20	20.03	20.12	21.00
		1	50	20.07	19.93	19.98	21.00
		1	99	20.72	20.66	20.59	21.00
	QPSK	50	0	19.28	19.01	19.10	20.00
20MHz		50	25	19.42	19.16	19.23	20.00
		50	50	19.84	19.57	19.61	20.00
		100	0	19.55	19.29	19.35	20.00
	16QAM	1	0	19.62	19.30	19.43	20.00
	IUQAW	1	50	19.54	19.30	19.43	20.00



Report No.: R2209A0873-S1V2 **SAR Test Report** 1 99 19.54 19.28 19.65 20.00 50 0 18.30 18.30 19.00 18.10 25 50 18.42 18.25 18.43 19.00 50 50 18.84 18.67 18.82 19.00 100 0 18.53 18.38 18.55 19.00

			LTE B	and40 Subset 1			
\$	Sensor off-Mai	n Ant		Maximu	ım Output Powe	r (dBm)	
Danduridth	Modulation	RB	offoot	Char	nnel/Frequency(I	MHz)	Tune-up
Bandwidth	Modulation	allocation	offset	38725/2307.5	38750/2310.0	38775/2312.5	
		1	0	22.97	22.94	22.99	23.50
		1	13	22.82	22.86	22.91	23.50
		1	24	22.77	22.76	22.83	23.50
	QPSK	12	0	21.80	21.81	21.88	22.50
		12	6	21.60	21.60	21.67	22.50
		12	13	21.55	21.56	21.64	22.50
5MHz		25	0	21.66	21.64	21.73	22.50
SIVITZ		1	0	21.59	21.60	21.67	22.50
		1	13	21.35	21.36	21.42	22.50
		1	24	21.34	21.32	21.37	22.50
	16QAM	12	0	20.73	20.76	20.82	21.50
		12	6	20.64	20.63	20.70	21.50
		12	13	20.63	20.64	20.71	21.50
		25	0	20.82	20.82	20.89	21.50
Bandwidth	Modulation	RB	offset	Char	nnel/Frequency(I	MHz)	Tune-up
Danawiatii	Woddiation	allocation	Oliset	1	38750/2310.0	1	Turie-up
		1	0	1	22.90	1	23.50
		1	25	1	22.82	1	23.50
		1	49	1	22.75	1	23.50
	QPSK	25	0	1	21.76	1	22.50
		25	13	1	21.56	1	22.50
		25	25	1	21.51	1	22.50
10MHz		50	0	1	21.59	1	22.50
TOWITE		1	0	1	21.56	1	22.50
		1	25	1	21.34	1	22.50
		1	49	1	21.29	1	22.50
	16QAM	25	0	1	20.72	1	21.50
		25	13	1	20.61	1	21.50
		25	25	1	20.59	1	21.50
		50	0	/	20.78	/	21.50



SAR Test Report Report No.: R2209A0873-S1V2

			LTE B	and40 Subset 1			
5	Sensor off-Mai	n Ant		Maximu	ım Output Powe	r (dBm)	
Dan alvedalde	Madulatian	RB	-664	Char	nnel/Frequency(I	MHz)	Tune-up
Bandwidth	Modulation	allocation	offset	39175/2352.5	39200/2355.0	39225/2357.5	
		1	0	23.04	23.00	23.03	23.50
		1	13	22.98	22.97	22.93	23.50
		1	24	22.89	22.84	22.85	23.50
	QPSK	12	0	21.85	21.81	21.80	22.50
		12	6	21.87	21.82	21.82	22.50
		12	13	21.78	21.75	21.74	22.50
ENALL-		25	0	21.74	21.70	21.72	22.50
5MHz		1	0	21.60	21.58	21.57	22.50
		1	13	21.48	21.45	21.44	22.50
		1	24	21.46	21.42	21.44	22.50
	16QAM	12	0	20.88	20.86	20.83	21.50
		12	6	20.75	20.70	20.71	21.50
		12	13	20.70	20.66	20.65	21.50
		25	0	20.76	20.71	20.71	21.50
Dan duvidéh	Modulation	RB	offset	Char	nnel/Frequency(I	MHz)	Tung up
Bandwidth	iviodulation	allocation	onset	/	39200/2355.0	/	Tune-up
		1	0	1	22.96	1	23.50
		1	25	1	22.93	1	23.50
		1	49	1	22.83	1	23.50
	QPSK	25	0	/	21.76	1	22.50
		25	13	1	21.78	1	22.50
		25	25	1	21.70	1	22.50
10MHz		50	0	/	21.65	/	22.50
IUWIFIZ		1	0	1	21.54	1	22.50
		1	25	1	21.43	1	22.50
		1	49	1	21.39	/	22.50
	16QAM	25	0	/	20.82	/	21.50
		25	13	1	20.68	1	21.50
		25	25	/	20.61	/	21.50
		50	0	1	20.67	/	21.50

LTE Band40 Subset 2											
\$	Sensor on-Mai	n Ant		Maximu	ım Output Powe	r (dBm)					
Bandwidth	Modulation	RB	offset	Char	nnel/Frequency(l	MHz)	Tune-up				
Danawiatii	Modulation	allocation	onset	38725/2307.5	38750/2310.0	38775/2312.5					
		1	0	20.02	20.06	20.03	21.00				
5MHz	5MHz QPSK		13	19.73	19.75	19.75	21.00				
		1	24	20.18	20.19	20.20	21.00				



Report No.: R2209A0873-S1V2 **SAR Test Report** 18.77 12 0 18.81 18.79 20.00 12 6 18.74 20.00 18.78 18.76 12 13 18.86 18.88 18.88 20.00 0 25 18.80 18.84 18.84 20.00 0 1 19.19 19.20 19.21 20.00 1 13 18.98 18.98 18.99 20.00 1 24 19.39 19.41 19.39 20.00 12 0 17.57 17.57 17.57 16QAM 19.00 12 6 17.57 17.58 17.58 19.00 12 13 17.66 17.70 17.68 19.00 25 0 17.58 17.62 17.60 19.00 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 38750/2310.0 / / 1 0 / 19.98 21.00 1 1 25 / 19.70 / 21.00 1 49 20.13 21.00 **QPSK** 25 0 / 18.72 / 20.00 25 / 18.69 / 20.00 13 25 25 / 18.80 / 20.00 50 0 / 18.75 20.00 10MHz 0 / 19.14 / 20.00 1 1 25 / 18.93 / 20.00 1 49 19.34 / 20.00 25 0 / 17.51 / 19.00 16QAM 25 / 17.51 / 19.00 13 25 25 / 17.61 / 19.00 50 0 17.53 1 19.00

			LTE B	and40 Subset 2			
5	Sensor on-Mai	n Ant		Maximu	um Output Powe	r (dBm)	
Bandwidth	Modulation	RB	offset	Char	nnel/Frequency(I	MHz)	Tune-up
Danawiath	Wodulation	allocation	Oliset	39175/2352.5	39200/2355.0	39225/2357.5	
		1	0	20.00	20.05	20.00	21.00
		1	13	19.70	19.70	19.71	21.00
	QPSK	1	24	20.16	20.15	20.17	21.00
		12	0	18.74	18.76	18.75	20.00
		12	6	18.71	18.73	18.72	20.00
5MHz		12	13	18.84	18.84	18.83	20.00
		25	0	18.76	18.82	18.80	20.00
		1	0	19.15	19.17	19.19	20.00
	160 AM	1	13	18.94	18.94	18.96	20.00
	16QAM	1	24	19.36	19.39	19.36	20.00
		12	0	17.54	17.52	17.53	19.00



10MHz

SAR Test Report

17.55 17.54 12 6 17.55 19.00 12 13 17.63 17.65 17.64 19.00 25 0 17.55 17.57 17.56 19.00 Channel/Frequency(MHz) **RB Bandwidth** Modulation offset Tune-up allocation 39200/2355.0 / / 19.79 / 1 0 21.00 1 25 / 19.68 / 21.00 1 49 20.29 21.00 / / **QPSK** 25 0 18.61 20.00 25 13 / 18.72 / 20.00 25 25 / 18.95 / 20.00

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18.77

19.01

18.96

19.52

17.42

17.54

17.77

17.55

50

1

1

1

25

25

25

50

16QAM

0

0

25

49

0

13

25

0

				LTE Bar	nd41				
Se	nsor off-M	ain Ant			Maximum	Output Pov	wer (dBm)		
	Madulat	RB			Channe	el/Frequenc	y(MHz)		Tune-
Bandwidth	Modulat ion	allocation	offset	39675/	40148/	40620/	41093/	41565/	up
	1011	allocation		2498.5	2545.8	2593	2640.3	2687.5	
		1	0	22.96	23.05	23.18	23.02	22.65	23.50
		1	13	22.70	22.71	22.93	22.78	22.54	23.50
		1	24	22.53	22.77	22.93	22.61	22.39	23.50
	QPSK	12	0	21.53	21.72	21.88	21.66	21.33	22.50
		12	6	21.56	21.67	21.78	21.71	21.36	22.50
		12	13	21.51	21.55	21.72	21.64	21.14	22.50
5MHz		25	0	21.46	21.64	21.88	21.78	21.24	22.50
ЭМПС		1	0	21.43	21.43	21.58	21.70	21.19	22.50
		1	13	21.29	21.35	21.48	21.55	21.06	22.50
		1	24	21.15	21.28	21.67	21.65	21.02	22.50
	16QAM	12	0	20.70	20.73	20.80	20.75	20.42	21.50
		12	6	20.58	20.62	20.85	20.66	20.28	21.50
		12	13	20.49	20.72	20.82	20.61	20.23	21.50
		25	0	20.62	20.62	20.91	20.76	20.40	21.50
	Modulet	RB		Channel/Frequency(MHz)					Tuna
Bandwidth	Modulat	allocation	offset	39700/	40160/	40620/	41080/	41540/	Tune-
	ion	allocation		2501	2547	2593	2639	2685	up
10MHz	QPSK	1	0	22.98	23.06	23.21	23.03	22.68	23.50

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20.00

20.00

20.00

20.00

19.00

19.00

19.00

19.00



SAR Test Report Report No.: R2209A0873-S1V2 25 22.73 22.76 22.97 22.83 22.58 23.50 1 49 22.55 22.81 22.96 22.65 22.42 23.50 25 0 21.56 21.77 21.92 21.71 21.37 22.50 25 13 21.59 21.72 21.82 21.76 21.40 22.50 25 25 21.53 21.59 21.77 22.50 21.68 21.19 50 0 21.50 21.66 21.92 21.80 21.28 22.50 1 0 21.47 21.46 21.60 21.73 21.21 22.50 1 25 21.33 21.39 21.51 21.59 21.09 22.50 1 49 21.70 22.50 21.18 21.30 21.67 21.05 25 0 20.73 20.78 20.84 20.80 20.46 21.50 16QAM 25 13 20.60 20.66 20.88 20.70 20.31 21.50 25 25 20.52 20.77 20.86 20.66 20.27 21.50 50 0 20.65 20.67 20.95 20.81 20.44 21.50 Channel/Frequency(MHz) Modulat **RB** Tune-**Bandwidth** 40173/ offset 39725/ 40620/ 41068/ 41515/ ion allocation up 2548.3 2593 2637.8 2682.5 2503.5 1 0 22.97 23.02 23.19 22.99 22.66 23.50 1 38 22.94 22.82 22.71 22.75 22.55 23.50 1 74 22.52 22.76 22.92 22.60 22.38 23.50 **QPSK** 0 36 21.54 21.73 21.89 21.67 21.34 22.50 22.50 36 18 21.56 21.67 21.78 21.71 21.36 36 39 21.50 21.56 21.73 21.15 22.50 21.65 75 0 21.48 21.62 21.87 21.76 21.23 22.50 15MHz 1 0 21.45 21.44 21.58 21.71 21.19 22.50 1 38 22.50 21.31 21.36 21.49 21.56 21.07 1 74 21.16 21.26 21.67 21.63 21.02 22.50 0 16QAM 36 20.70 20.76 20.81 20.78 20.43 21.50 36 18 20.57 20.61 20.84 20.65 20.27 21.50 20.83 36 39 20.50 20.73 20.62 20.24 21.50 75 0 20.62 20.62 20.91 20.76 20.40 21.50 Channel/Frequency(MHz) Modulat **RB** Tune-**Bandwidth** 39750/ 40185/ 40620/ 41055/ 41490/ offset allocation ion up 2506 2549.5 2593 2636.5 2680 1 0 22.94 22.98 23.16 22.95 22.63 23.50 1 50 22.70 22.71 22.92 22.78 22.53 23.50 1 99 22.50 22.75 22.89 22.59 22.35 23.50 QPSK 50 0 21.51 21.68 21.85 21.62 21.30 22.50 50 25 21.75 22.50 21.54 21.63 21.67 21.33 20MHz 50 50 22.50 21.47 21.51 21.69 21.60 21.11 21.71 100 0 21.45 21.57 21.83 21.19 22.50 1 0 21.42 21.40 21.53 21.67 21.14 22.50 16QAM 1 50 21.28 21.34 21.45 21.54 21.03 22.50 1 99 21.13 21.23 21.65 21.60 21.00 22.50



SAR Test Report Report No.: R2209A0873-S1V2

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50	0	20.67	20.72	20.78	20.74	20.40	21.50	
50	25	20.54	20.59	20.81	20.63	20.24	21.50	
50	50	20.47	20.68	20.79	20.57	20.20	21.50	
100	0	20.60	20.58	20.88	20.72	20.37	21.50	

				LTE Bar	nd41				
Se	ensor on-N	/lain Ant			Maximum	Output Pov	wer (dBm)		
		DD			Channe	el/Frequenc	y(MHz)		Tune-
Bandwidth	Modulat	RB	offset	39675/	40148/	40620/	41093/	41565/	up
	ion	allocation		2498.5	2545.8	2593	2640.3	2687.5	
		1	0	19.97	20.36	20.04	20.45	20.55	21.00
		1	13	20.02	20.07	20.04	20.13	19.98	21.00
		1	24	20.25	20.18	20.63	20.49	20.53	21.00
	QPSK	12	0	19.18	19.37	19.16	19.34	19.25	20.00
		12	6	19.38	19.45	19.31	19.39	19.17	20.00
		12	13	19.83	19.81	19.73	19.67	19.36	20.00
5MHz		25	0	19.45	19.56	19.44	19.48	19.32	20.00
SIVIFIZ		1	0	19.55	19.79	19.47	19.62	19.80	20.00
		1	13	19.53	19.67	19.50	19.60	19.29	20.00
		1	24	19.51	19.55	19.44	19.52	19.87	20.00
	16QAM	12	0	18.19	18.41	18.22	18.56	18.31	19.00
		12	6	18.48	18.53	18.40	18.59	18.26	19.00
		12	13	18.92	18.93	18.80	18.84	18.45	19.00
		25	0	18.54	18.70	18.52	18.68	18.38	19.00
	Modulat	RB		Channel/Frequency(MHz)					Tune-
Bandwidth	ion	allocation	offset	39700/	40160/	40620/	41080/	41540/	
	1011	allocation		2501	2547	2593	2639	2685	up
		1	0	19.94	20.34	20.00	20.47	20.56	21.00
		1	25	20.00	20.03	20.01	20.16	20.03	21.00
		1	49	20.22	20.13	20.59	20.51	20.57	21.00
	QPSK	25	0	19.15	19.32	19.12	19.37	19.30	20.00
		25	13	19.36	19.41	19.26	19.42	19.22	20.00
		25	25	19.81	19.79	19.69	19.69	19.40	20.00
10MHz		50	0	19.45	19.55	19.42	19.52	19.34	20.00
TOWIFIZ		1	0	19.52	19.75	19.44	19.64	19.83	20.00
		1	25	19.50	19.65	19.47	19.63	19.33	20.00
		1	49	19.48	19.53	19.40	19.55	19.89	20.00
	16QAM	25	0	18.17	18.37	18.19	18.59	18.36	19.00
		25	13	18.45	18.48	18.36	18.61	18.30	19.00
		25	25	18.89	18.88	18.76	18.87	18.50	19.00
		50	0	18.52	18.66	18.47	18.71	18.43	19.00



SA	R Test Repo	rt					Report No.: F	R2209A0873-S	1V2_	
	Modulat	RB			Channe	el/Frequenc	cy(MHz)		Tune-	
Bandwidth			offset	39725/	40173/	40620/	41068/	41515/		
	ion	allocation		2503.5	2548.3	2593	2637.8	2682.5	up	
		1	0	19.95	20.31	20.01	20.46	20.52	21.00	
		1	38	20.01	20.07	20.02	20.14	20.02	21.00	
		1	74	20.21	20.12	20.58	20.48	20.52	21.00	
	QPSK	36	0	19.16	19.33	19.13	19.35	19.26	20.00	
		36	18	19.36	19.41	19.26	19.39	19.17	20.00	
		36	39	19.80	19.80	19.70	19.66	19.37	20.00	
15MHz		75	0	19.47	19.53	19.41	19.50	19.30	20.00	
ISIVIEZ		1	0	19.49	19.76	19.44	19.59	19.81	20.00	
		1	38	19.51	19.66	19.48	19.61	19.30	20.00	
		1	74	19.48	19.51	19.40	19.52	19.85	20.00	
	16QAM	36	0	18.17	18.40	18.20	18.56	18.34	19.00	
		36	18	18.44	18.47	18.35	18.58	18.25	19.00	
		36	39	18.90	18.89	18.77	18.85	18.46	19.00	
		75	0	18.52	18.66	18.47	18.68	18.38	19.00	
	Modulat	RB			Channel/Frequency(MHz)					
Bandwidth	ion	allocation	offset	39750/2	40185/	40620/	41055/	41490/	Tune-	
	1011	allocation		506	2549.5	2593	2636.5	2680	up	
		1	0	19.92	20.27	19.98	20.43	20.48	21.00	
		1	50	20.00	20.03	20.00	20.13	19.98	21.00	
		1	99	20.19	20.11	20.55	20.46	20.51	21.00	
	QPSK	50	0	19.13	19.28	19.09	19.32	19.21	20.00	
		50	25	19.34	19.37	19.23	19.37	19.13	20.00	
		50	50	19.77	19.75	19.66	19.63	19.32	20.00	
20MU~		100	0	19.44	19.48	19.37	19.47	19.25	20.00	
20MHz		1	0	19.26	19.72	19.39	19.72	19.77	20.00	
		1	50	19.47	19.64	19.44	19.57	19.28	20.00	
		1	99	19.46	19.48	19.38	19.50	19.82	20.00	
	16QAM	50	0	18.14	18.36	18.17	18.53	18.30	19.00	
		50	25	18.41	18.45	18.32	18.55	18.23	19.00	
		50	50	18.87	18.84	18.73	18.82	18.41	19.00	
		100	0	18.50	18.62	18.44	18.66	18.34	19.00	

LTE Band66								
Sensor off-Main Ant				Maximum Output Power (dBm)				
Bandwidth	Modulation	RB	offset	Channel/Frequency(MHz)			Tune-up	
		allocation		131979/1710.7	132322/1745	132665/1779.3		
1.4MHz	QPSK	1	0	22.98	22.90	23.16	23.50	
		1	2	23.01	22.85	23.09	23.50	
		1	5	23.03	22.72	23.08	23.50	
		3	0	22.68	22.65	22.65	23.50	



Report No.: R2209A0873-S1V2 **SAR Test Report** 3 2 22.43 22.68 22.71 23.50 3 3 22.62 22.62 22.71 23.50 6 0 21.59 21.68 21.64 22.50 1 0 21.76 21.95 21.80 22.50 1 2 21.59 21.84 21.68 22.50 1 22.50 5 21.57 21.82 21.76 16QAM 3 0 21.63 21.73 21.76 22.50 2 3 21.61 21.64 21.70 22.50 3 3 21.57 21.69 21.71 22.50 6 0 20.76 20.77 20.74 21.50 **RB** Channel/Frequency(MHz) Modulation offset **Bandwidth** Tune-up allocation 131987/1711.5 132322/1745 132657/1778.5 23.00 1 0 22.94 23.19 23.50 1 22.99 22.88 23.13 23.50 7 14 23.06 22.77 23.50 1 23.12 21.78 21.78 **QPSK** 8 0 21.77 22.50 8 4 21.78 21.83 22.50 21.55 8 7 21.72 21.73 21.81 22.50 15 0 21.59 21.72 21.67 22.50 3MHz 1 0 21.76 21.97 21.83 22.50 22.50 1 7 21.59 21.84 21.72 22.50 1 14 21.59 21.86 21.79 16QAM 8 0 20.74 20.86 20.88 21.50 8 4 20.72 20.77 20.82 21.50 8 7 20.67 20.81 20.84 21.50 15 0 20.79 20.81 20.77 21.50 Channel/Frequency(MHz) **RB Bandwidth** Modulation offset Tune-up allocation 131997/1712.5 132322/1745 132647/1777.5 22.97 22.92 23.15 23.50 1 0 1 13 22.97 22.84 23.10 23.50 1 24 22.72 23.03 23.08 23.50 12 **QPSK** 0 21.75 21.74 22.50 21.72 12 21.53 21.74 21.78 22.50 6 12 13 21.70 21.71 21.77 22.50 25 0 21.59 21.71 21.65 22.50 5MHz 1 0 21.76 21.93 21.80 22.50 1 13 21.59 21.82 21.69 22.50 1 24 21.56 21.84 21.75 22.50 12 0 20.72 20.82 20.85 21.50 16QAM 12 6 20.69 20.72 20.78 21.50 12 13 20.64 20.76 20.80 21.50 25 0 20.77 20.77 20.72 21.50



SAR	Test Report				Re	port No.: R2209A087	3-S1V2_
Dan duvidáh	Modulation	RB	- cc 4	Channel/Frequency(MHz)			T
Bandwidth		allocation	offset	132022/1715	132322/1745	132622/1775	Tune-up
		1	0	22.99	22.93	23.18	23.50
		1	25	23.00	22.89	23.14	23.50
	QPSK	1	49	23.05	22.76	23.11	23.50
		25	0	21.78	21.77	21.78	22.50
		25	13	21.56	21.79	21.82	22.50
		25	25	21.72	21.75	21.82	22.50
10MHz		50	0	21.63	21.73	21.69	22.50
TUIVIEZ		1	0	21.80	21.96	21.82	22.50
		1	25	21.63	21.86	21.72	22.50
		1	49	21.59	21.86	21.78	22.50
	16QAM	25	0	20.75	20.87	20.89	21.50
		25	13	20.71	20.76	20.81	21.50
		25	25	20.67	20.81	20.84	21.50
		50	0	20.80	20.82	20.76	21.50
Bandwidth	Modulation	RB	offcot	Chan	nel/Frequency(MHz)	Tune-up
Bandwidth	iviodulation	allocation	offset	132047/1717.5	132322/1745	132597/1772.5	
		1	0	22.98	22.89	23.16	23.50
	QPSK	1	38	22.98	22.88	23.11	23.50
		1	74	23.02	22.71	23.07	23.50
		36	0	21.76	21.73	21.75	22.50
		36	18	21.53	21.74	21.78	22.50
		36	39	21.69	21.72	21.78	22.50
15MHz		75	0	21.61	21.69	21.64	22.50
1011112	16QAM	1	0	21.78	21.94	21.80	22.50
		1	38	21.61	21.83	21.70	22.50
		1	74	21.57	21.82	21.75	22.50
		36	0	20.72	20.85	20.86	21.50
		36	18	20.68	20.71	20.77	21.50
		36	39	20.65	20.77	20.81	21.50
		75	0	20.77	20.77	20.72	21.50
Bandwidth	Modulation	RB	offset	Channel/Frequency(MHz)		Tune-up	
Danawiani		allocation	Oliset	132072/1720	132322/1745	132572/1770	Turio-up
20MHz	QPSK	1	0	22.95	22.85	23.13	23.50
		1	50	22.97	22.84	23.09	23.50
		1	99	23.00	22.70	23.04	23.50
		50	0	21.73	21.68	21.71	22.50
		50	25	21.51	21.70	21.75	22.50
		50	50	21.66	21.67	21.74	22.50
		100	0	21.58	21.64	21.60	22.50
	16QAM	1	0	21.75	21.90	21.75	22.50
		1	50	21.58	21.81	21.66	22.50



Report No.: R2209A0873-S1V2 **SAR Test Report** 99 21.54 21.79 21.73 22.50 50 0 20.69 20.81 20.83 21.50 25 20.65 20.74 21.50 50 20.69 50 50 20.62 20.72 20.77 21.50

20.75

20.73

20.69

21.50

100

0

LTE Band66								
Sensor on-Main Ant				Maximum Output Power (dBm)				
Bandwidth		RB		Channel/Frequency(MHz)			Tune-up	
	Modulation	allocation	offset	131979/1710.7	132322/1745	132665/1779.3		
		1	0	18.23	17.70	18.83	19.00	
	QPSK	1	2	18.09	17.75	17.72	19.00	
		1	5	18.93	18.84	18.39	19.00	
		3	0	18.11	17.64	18.08	19.00	
		3	2	18.09	17.90	17.75	19.00	
		3	3	18.56	18.39	17.88	19.00	
1.4MHz		6	0	17.38	17.09	17.06	18.00	
1.4111172		1	0	17.32	16.91	17.48	18.00	
		1	2	17.30	17.04	17.82	18.00	
	16QAM	1	5	17.41	17.12	17.23	18.00	
		3	0	17.11	16.59	17.24	18.00	
		3	2	17.20	16.91	16.84	18.00	
		3	3	17.61	17.44	16.99	18.00	
		6	0	16.44	16.13	16.20	17.00	
Bandwidth	Modulation	RB	offset	Channel/Frequency(MHz)			Tune-up	
Ballawiatii		allocation		1319871711.5	132322/1745	132657/1778.5	Tune-up	
	QPSK	1	0	18.25	17.74	18.86	19.00	
		1	7	18.07	17.78	17.76	19.00	
		1	14	18.96	18.89	18.43	19.00	
		8	0	17.21	16.76	17.21	18.00	
		8	4	17.21	17.00	16.87	18.00	
		8	7	17.66	17.50	16.98	18.00	
3MHz		15	0	17.38	17.13	17.09	18.00	
JIVII IZ	16QAM	1	0	17.35	16.93	17.51	18.00	
		1	7	17.33	17.04	17.86	18.00	
		1	14	17.43	17.16	17.26	18.00	
		8	0	16.22	15.72	16.36	17.00	
		8	4	16.31	16.04	15.96	17.00	
		8	7	16.71	16.56	16.12	17.00	
		15	0	16.47	16.17	16.23	17.00	
Bandwidth	Modulation	RB	offset	Channel/Frequency(MHz)			Tune-up	
		allocation		131997/1712.5	132322/1745	132647/1777.5	Tune-up	
5MHz	QPSK	1	0	18.22	17.72	18.82	19.00	



Report No.: R2209A0873-S1V2 **SAR Test Report** 17.74 13 18.05 17.73 19.00 1 24 18.93 18.84 18.39 19.00 12 0 17.18 16.71 17.17 18.00 12 6 17.19 16.96 16.82 18.00 12 13 17.64 17.48 16.94 18.00 25 17.38 17.12 17.07 0 18.00 0 17.32 16.89 17.48 18.00 1 17.30 1 13 17.02 17.83 18.00 1 24 17.40 17.14 17.22 18.00 12 0 16.20 15.68 16.33 17.00 16QAM 12 16.28 15.92 17.00 6 15.99 12 13 16.68 16.51 16.08 17.00 25 0 16.45 16.13 16.18 17.00 RB Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 132022/1715 132322/1745 132622/1775 0 18.24 19.00 17.73 18.85 1 25 17.79 17.77 18.08 19.00 1 49 18.95 18.88 18.42 19.00 **QPSK** 25 0 17.21 16.76 17.21 18.00 17.22 17.01 25 13 16.86 18.00 25 25 17.66 17.52 16.99 18.00 17.42 17.14 18.00 50 0 17.11 10MHz 1 0 17.34 16.92 17.50 18.00 1 25 17.33 17.06 17.86 18.00 1 49 17.16 17.25 17.43 18.00 16QAM 25 0 16.23 15.73 16.37 17.00 25 13 16.30 16.03 15.95 17.00 25 25 16.71 16.56 16.12 17.00 50 16.48 16.18 16.22 17.00 0 **RB** Channel/Frequency(MHz) **Bandwidth** Modulation offset Tune-up allocation 132047/1717.5 132322/1745 132597/1772.5 1 0 18.23 19.00 17.69 18.83 1 17.78 17.74 38 18.06 19.00 1 74 18.92 18.83 18.38 19.00 **QPSK** 0 17.19 16.72 17.18 18.00 36 36 18 17.19 16.96 16.82 18.00 36 39 17.63 17.49 16.95 18.00 15MHz 17.10 75 0 17.40 17.06 18.00 0 17.29 16.90 17.48 18.00 1 38 17.31 17.03 17.84 18.00 16QAM 1 74 17.40 17.12 17.22 18.00 36 0 16.20 15.71 16.34 17.00 36 18 16.27 15.98 15.91 17.00



<u> </u>	i lest Keport				176	port No K2209A007	<u> </u>
		36	39	16.69	16.52	16.09	17.00
		75	0	16.45	16.13	16.18	17.00
Dondwidth	Modulation	RB	offoot	Char	nel/Frequency(MHz)	Tungun
Bandwidth	Modulation	allocation	offset	132072/1720	132322/1745	132572/1770	Tune-up
		1	0	18.20	17.65	18.80	19.00
		1	50	18.05	17.74	17.72	19.00
		1	99	18.90	18.82	18.35	19.00
	QPSK	50	0	17.16	16.67	17.14	18.00
		50	25	17.17	16.92	16.79	18.00
		50	50	17.60	17.44	16.91	18.00
20MHz		100	0	17.37	17.05	17.02	18.00
ZUIVITZ		1	0	17.68	16.86	17.43	18.00
		1	50	17.27	17.01	17.80	18.00
		1	99	17.38	17.09	17.20	18.00
	16QAM	50	0	16.17	15.67	16.31	17.00
		50	25	16.24	15.96	15.88	17.00
		50	50	16.66	16.47	16.05	17.00
		100	0	16.43	16.09	16.15	17.00



Report No.: R2209A0873-S1V2 SAR Test Report

9.3 WLAN Mode

Wi-Fi 2.4G	Channel	Maximum Outp	ut Power (dBm)
Full Power Mode	- /Frequency(MHz)	Tune-up	Meas.
222 444	1/2412	18.00	16.34
802.11b (1M)	6/2437	18.00	17.00
(TIVI)	11/2462	18.00	16.96
000 44	1/2412	15.50	14.36
802.11g (6M)	6/2437	18.00	17.74
(OWI)	11/2462	15.50	14.43
000 44 11700	1/2412	13.00	11.95
802.11n-HT20 (MCS0)	6/2437	18.00	17.27
(IVICSU)	11/2462	15.50	13.07
000 44= 11740	3/2422	12.00	10.97
802.11n-HT40 (MCS0)	6/2437	18.00	16.60
(IVICOU)	9/2452	13.00	11.95



10 Measured and Reported (Scaled) SAR Results

10.1 EUT Antenna Locations

The Detailed Antenna Locations refer to Antenna Locations.

	Overall (Len	gth x Width):	100 mm x 63	mm										
	Ove	erall Diagonal	: 115 mm											
	Distance of the	Antenna to th	e EUT Surfac	ce/Edge										
Antenna Back Side Front Side Left Edge Right Edge Top Edge Bottom Edge														
Main-Antenna	Main-Antenna <25mm <25mm <25mm >25mm													
Wi-Fi Antenna	<25mm	<25mm	<25mm	>25mm	>25mm	>25mm								
	Hotspot M	ode, Position	s for SAR Tes	sts										
Mode	Back Side	Front side	Left Edge	Right Edge	Top Edge	Bottom Edge								
Main-Antenna	Yes	Yes	Yes	Yes	Yes	N/A								
Wi-Fi Antenna	Yes	Yes	Yes	N/A	N/A	N/A								

Note:

- 1. Per KDB 941225 D06, when the overall device length and width are ≥ 9cm*5cm, the test distance is 10mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
- 2. Per FCC KDB 447498 D01, for each exposure position, testing of other requised 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 ≤ 100MHz
- b) \leq 0.6 W/kg or 1.5 W/kg, for1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
- c) ≤ 0.4 W/kg or 1.0 Wkg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.
- 3. When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



10.2 Measured SAR Results

Note:

- 1. The value with blue color is the maximum SAR Value of each test band.
- 2. For WCDMA, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.
- 3. 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≥ 50% limit (1g).

Body-worn SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
WCDMA	Main	Back Side	15	RMC	Sensor on	-	-	9400/1880	19.00	17.93	0.056	0.064	1.28	0.072	1
II	IVIAIII	Front Side	15	RMC	Sensor off	-	-	9400/1880	23.00	22.30	0.347	-0.050	1.17	0.408	8
WCDMA	Main	Back Side	15	RMC	Sensor on	ı	ı	1413/1732.6	19.00	17.70	0.491	0.110	1.35	0.662	9
IV	IVIAIII	Front Side	15	RMC	Sensor off	ı	ı	1413/1732.6	23.00	22.23	0.269	-0.150	1.19	0.321	1
WCDMA	Main	Back Side	15	RMC	Sensor on	ı	-	4183/836.6	19.00	22.00	0.259	0.080	0.50	0.130	1
V	IVIAIII	Front Side	15	RMC	Sensor off	ı	ı	4183/836.6	23.00	22.00	0.522	0.010	1.26	0.657	10
		Back Side	15	QPSK	Sensor on	1	0	19100/1900	19.00	18.89	0.778	-0.030	1.03	0.798	11
LTE	Main	Dack Side	15	QPSK	Sensor on	50%	0	18700/1860	18.00	17.30	0.321	-0.023	1.17	0.377	1
2	IVIAIII	Front Side	15	QPSK	Sensor off	1	99	18900/1880	23.50	22.91	0.433	0.036	1.15	0.496	1
		1 Torit Side	15	QPSK	Sensor off	50%	25	19100/1900	22.50	21.72	0.322	0.090	1.20	0.385	1
		Back Side	15	QPSK	Sensor on	1	99	20050/1720	21.00	20.85	0.496	0.023	1.04	0.513	1
LTE	Main	Back Side	15	QPSK	Sensor on	50%	50	20175/1732.5	20.00	19.89	0.532	0.120	1.03	0.546	12
4	IVIAIII	Front Side	15	QPSK	Sensor off	1	0	20050/1720	23.50	23.18	0.389	0.163	1.08	0.419	1
		Fiorit Side	15	QPSK	Sensor off	50%	50	20300/1745	22.50	21.81	0.307	-0.076	1.17	0.360	1
		Back Side	15	QPSK	Sensor on	1	25	20600/844	21.00	19.89	0.501	0.150	1.29	0.647	1
		Back Side	15	QPSK	Sensor on	50%	13	20600/844	20.00	18.82	0.401	-0.066	1.31	0.526	1
			15	QPSK	Sensor off	1	0	20600/844	23.50	23.04	0.832	0.080	1.11	0.925	13
LTE	Main		15	QPSK	Sensor off	1	0	20450/829	23.50	22.64	0.728	0.036	1.22	0.887	1
5	IVIAIII	Front Side	15	QPSK	Sensor off	1	0	20525/836.5	23.50	22.74	0.739	-0.020	1.19	0.880	/
		FIORE Side	15	QPSK	Sensor off	50%	25	20450/829	22.50	21.72	0.642	0.032	1.20	0.768	1
			15	QPSK	Sensor off	1	0	20600/844	23.50	23.04	0.819	0.010	1.11	0.911	1
			15	QPSK	Sensor off	100%	0	20450/829	22.50	21.69	0.661	0.030	1.21	0.797	1
		_	15	QPSK	Sensor on	1	99	20850/2510	21.50	21.28	0.828	0.099	1.05	0.871	14
LTE	Main	Daak Old	15	QPSK	Sensor on	1	99	21100/2535	21.50	21.17	0.775	0.015	1.08	0.836	/
7	Main Ba	Back Side	15	QPSK	Sensor on	1	0	21350/2560	21.50	20.88	0.749	0.024	1.15	0.864	/
			15	QPSK	Sensor on	50%	50	20850/2510	20.50	20.21	0.615	0.082	1.07	0.657	/



		SAR Test	Repor	ι							Report	NO.: R	2209A00	373-S1V2	
			15	QPSK	Sensor on	100%	0	21100/2535	20.50	20.07	0.647	0.020	1.10	0.714	/
		Back Side Repeat	15	QPSK	Sensor on	1	99	20850/2510	21.50	21.28	0.812	-0.010	1.05	0.854	/
		Front Side	15	QPSK	Sensor off	1	99	21100/2535	23.50	22.93	0.487	0.039	1.14	0.555	1
		From Side	15	QPSK	Sensor off	50%	0	21350/2560	22.50	22.19	0.384	-0.063	1.07	0.412	1
		D1- O:-1-	15	QPSK	Sensor on	1	99	37850/2580	21.00	20.72	0.494	0.053	1.07	0.527	15
LTE	N 4 - i	Back Side	15	QPSK	Sensor on	50%	50	37850/2580	20.00	19.84	0.409	0.094	1.04	0.424	1
38 TDD	Main	Frank Cida	15	QPSK	Sensor off	1	50	38000/2595	23.50	23.20	0.351	0.150	1.07	0.376	1
100		Front Side	15	QPSK	Sensor off	50%	50	38000/2595	22.50	21.99	0.273	0.026	1.12	0.307	1
		D1- O:-1-	15	QPSK	Sensor on	1	49	38750/2310.0	21.00	20.13	0.273	0.020	1.22	0.334	16
LTE		Back Side	15	QPSK	Sensor on	50%	25	38750/2310.0	20.00	18.80	0.212	0.100	1.32	0.279	1
40	Main	Frank Oids	15	QPSK	Sensor off	1	0	38750/2310.0	23.50	22.90	0.211	0.140	1.15	0.242	/
TDD		Front Side	15	QPSK	Sensor off	50%	0	38750/2310.0	22.50	21.76	0.160	0.032	1.19	0.190	1
		Back Side	15	QPSK	Sensor on	1	49	39200/2355.0	21.00	20.29	0.270	-0.018	1.18	0.318	1
		De als Cida	15	QPSK	Sensor on	1	99	40620/2593	21.00	20.55	0.579	-0.028	1.11	0.642	17
LTE	N 4 - i	Back Side	15	QPSK	Sensor on	50%	50	39750/2506	20.00	19.77	0.413	0.051	1.05	0.435	1
41 TDD	Main	Frank Cida	15	QPSK	Sensor off	1	0	40620/2593	23.50	23.16	0.220	0.024	1.08	0.238	1
100		Front Side	15	QPSK	Sensor off	50%	0	40620/2593	22.50	21.85	0.222	-0.038	1.16	0.258	1
		Deals Cists	15	QPSK	Sensor on	1	99	132072/1720	19.00	18.90	0.479	0.180	1.02	0.490	18
LTE	Main	Back Side	15	QPSK	Sensor on	50%	50	132072/1720	18.00	17.60	0.313	0.070	1.10	0.343	1
66	Main	Frant Cide	15	QPSK	Sensor off	1	0	132572/1770	23.50	23.13	0.436	0.045	1.09	0.475	1
		Front Side	15	QPSK	Sensor off	50%	25	132572/1770	22.50	22.50	0.320	0.036	1.00	0.320	1

Band	Antenna	Test Position	Dist. (mm)	Mode	Duty Cycle	Power Reduction	Ch./Freq.	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot
2.4G	Wi-Fi	Back Side	15	802.11b	98.0%	Receiver off	6/2437	18.00	17.00	0.148	0.040	1.28	0.190	/
2.46	VVI-F1	Front Side	15	802.11b	98.0%	Receiver off	6/2437	18.00	17.00	0.208	-0.130	1.28	0.267	19

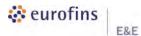


Hotspot SAR

	•	I SAK													
Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	offset	Ch./Freq.	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
		Back Side	10	RMC	Sensor on	1	/	9400/1880	19.00	17.93	0.748	0.110	1.28	0.957	20
		Back Side	10	RMC	Sensor on	1	/	9262/1852.4	19.00	17.62	0.691	0.021	1.37	0.949	1
		Back Side	10	RMC	Sensor on	/	/	9538/1907.6	19.00	18.04	0.480	0.030	1.25	0.599	/
WCDMA	Main	Front Side	10	RMC	Sensor on	/	/	9400/1880	19.00	17.93	0.595	-0.130	1.28	0.761	1
П	Main	Left Edge	10	RMC	Sensor on	/	/	9400/1880	19.00	17.93	0.113	-0.028	1.28	0.145	1
		Right Edge	10	RMC	Sensor off	1	/	9400/1880	23.00	22.30	0.224	0.020	1.17	0.263	1
		Top Edge	10	RMC	Sensor on	/	/	9400/1880	19.00	17.93	0.437	-0.045	1.28	0.559	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Back Side	10	RMC	Sensor on	/	/	1413/1732.6	19.00	17.70	0.689	0.076	1.35	0.929	21
		Back Side	10	RMC	Sensor on	/	/	1312/1712.4	19.00	17.51	0.636	0.017	1.41	0.896	/
		Back Side	10	RMC	Sensor on	1	/	1513/1752.6	19.00	17.47	0.679	-0.040	1.42	0.966	/
		Front Side	10	RMC	Sensor on	/	/	1413/1732.6	19.00	17.70	0.622	-0.029	1.35	0.839	/
		Front Side	10	RMC	Sensor on	/	/	1312/1712.4	19.00	17.51	0.555	0.061	1.41	0.782	/
WCDMA		Front Side	10	RMC	Sensor on	/	/	1513/1752.6	19.00	17.47	0.582	0.020	1.42	0.828	/
IV	Main	Left Edge	10	RMC	Sensor on	/	/	1413/1732.6	19.00	17.70	0.087	0.032	1.35	0.117	/
		Right Edge	10	RMC	Sensor off	/	/	1413/1732.6	23.00	22.23	0.379	-0.150	1.19	0.453	/
		Top Edge	10	RMC	Sensor on	1	/	1413/1732.6	19.00	17.70	0.611	0.010	1.35	0.824	1
		Top Edge	10	RMC	Sensor on	1	/	1312/1712.4	19.00	17.51	0.547	0.045	1.41	0.771	/
		Top Edge	10	RMC	Sensor on	/	/	1513/1752.6	19.00	17.47	0.611	0.060	1.42	0.869	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1
		Back Side	10	RMC	Sensor on	1	/	4183/836.6	19.00	17.80	0.321	0.150	1.32	0.423	/
		Front Side	10	RMC	Sensor on	1	/	4183/836.6	19.00	17.80	0.454	0.021	1.32	0.598	22
WCDMA		Left Edge	10	RMC	Sensor on	1	/	4183/836.6	19.00	22.00	0.268	-0.050	0.50	0.134	1
V	Main	Right Edge	10	RMC	Sensor off	1	/	4183/836.6	23.00	22.00	0.288	0.022	1.26	0.363	/
		Top Edge	10	RMC	Sensor on	1	/	4183/836.6	19.00	17.80	0.061	0.060	1.32	0.080	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1
			10	QPSK	Sensor on	1	0	19100/1900	19.00	18.89	0.937	0.100	1.03	0.961	23
			10	QPSK	Sensor on	1	0	18700/1860	19.00	18.56	0.745	0.022	1.11	0.824	1
		Back Side	10	QPSK	Sensor on	1	99	18900/1880	19.00	18.45	0.720	-0.041	1.14	0.817	1
			10	QPSK	Sensor on	100%	0	18900/1880	18.00	17.44	0.546	-0.030	1.14	0.621	/
LTE 2	Main		10	QPSK	Sensor on	50%	0	18700/1860	18.00	17.30	0.658	-0.078	1.17	0.773	/
		Back Side Repeat	10	QPSK	Sensor on	1	0	18700/1860	19.00	18.56	0.863	-0.024	1.11	0.955	/
		F===4.01.1	10	QPSK	Sensor on	1	0	19100/1900	19.00	18.89	0.464	0.071	1.03	0.476	/
		Front Side	10	QPSK	Sensor on	50%	0	18700/1860	18.00	17.30	0.397	0.050	1.17	0.466	/



		SAR Test Re	port								Report No	JII I (= = 0 0 7	100100		
		Left Edge	10	QPSK	Sensor on	1	0	19100/1900	19.00	18.89	0.115	0.090	1.03	0.118	1
		Leit Eage	10	QPSK	Sensor on	50%	0	18700/1860	18.00	17.30	0.085	0.160	1.17	0.100	1
		5	10	QPSK	Sensor off	1	99	18900/1880	23.50	22.91	0.392	0.032	1.15	0.449	1
		Right Edge	10	QPSK	Sensor off	50%	25	19100/1900	22.50	21.72	0.210	0.020	1.20	0.251	1
			10	QPSK	Sensor on	1	0	19100/1900	19.00	18.89	0.864	0.12	1.03	0.886	/
			10	QPSK	Sensor on	1	0	18700/1860	19.00	18.56	0.765	0.03	1.11	0.847	1
		Top Edge	10	QPSK	Sensor on	1	99	18900/1880	19.00	18.45	0.829	-0.01	1.14	0.941	1
			10	QPSK	Sensor on	50%	0	18700/1860	18.00	17.30	0.410	0.034	1.17	0.482	1
			10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1
			10	QPSK	Sensor on	1	99	20050/1720	21.00	20.85	0.858	0.032	1.04	0.888	1
			10	QPSK	Sensor on	1	99	20175/1732.5	21.00	20.37	0.888	-0.020	1.16	1.027	1
			10	QPSK	Sensor on	1	99	20300/1745	21.00	20.33	1.040	0.061	1.17	1.213	1
			10	QPSK	Sensor on	50%	50	20175/1732.5	20.00	19.89	0.980	0.050	1.03	1.005	1
		Back Side	10	QPSK	Sensor on	50%	50	20050/1720	20.00	19.57	1.100	0.047	1.10	1.214	24
			10	QPSK	Sensor on	50%	50	20300/1745	20.00	19.15	0.853	0.015	1.22	1.037	1
			10	QPSK	Sensor on	100%	0	20175/1732.5	20.00	19.37	0.928	-0.090	1.16	1.073	/
			10	QPSK	Sensor on	100%	0	20050/1720	20.00	19.22	0.870	0.060	1.20	1.041	1
			10	QPSK	Sensor on	100%	0	20300/1745	20.00	18.94	0.835	-0.020	1.28	1.066	1
LTE 4	Main	Back Side Repeat	10	QPSK	Sensor on	50%	50	20050/1720	20.00	19.37	1.040	0.030	1.16	1.202	/
			10	QPSK	Sensor on	1	99	20050/1720	21.00	20.85	0.755	0.080	1.04	0.782	/
		Front Side	10	QPSK	Sensor on	50%	50	20175/1732.5	20.00	19.89	0.580	0.026	1.03	0.595	1
			10	QPSK	Sensor on	1	99	20050/1720	21.00	20.85	0.339	-0.031	1.04	0.351	1
		Left Edge	10	QPSK	Sensor on	50%	50	20175/1732.5	20.00	19.89	0.352	0.099	1.03	0.361	1
			10	QPSK	Sensor off	1	0	20050/1720	23.50	23.18	0.477	0.032	1.08	0.513	/
		Right Edge	10	QPSK	Sensor off	50%	50	20300/1745	22.50	21.81	0.434	0.016	1.17	0.509	1
			10	QPSK	Sensor on	1	99	20050/1720	21.00	20.85	0.646	-0.050	1.04	0.669	1
		Top Edge	10	QPSK	Sensor on	50%	50	20175/1732.5	20.00	19.89	0.610	0.022	1.03	0.626	1
			10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1
			10	QPSK	Sensor on	1	25	20600/844	21.00	19.89	0.501	0.150	1.29	0.647	/
		Back Side	10	QPSK	Sensor on	50%	13	20600/844	20.00	18.82	0.401	-0.066	1.31	0.526	1
			10	QPSK	Sensor on	1	25	20600/844	21.00	19.89	0.830	-0.062	1.29	1.072	25
			10	QPSK	Sensor on	1	49	20450/829	21.00	19.85	0.816	0.032	1.30	1.063	/
LTE 5			10	QPSK	Sensor on	1	49	20525/836.5	21.00	19.84	0.820	0.060	1.31	1.071	/
		Front Side	10	QPSK	Sensor on	100%	0	20600/844	20.00	18.73	0.715	0.081	1.34	0.958	1
			10	QPSK	Sensor on	100%	0	20450/829	20.00	18.60	0.728	0.030	1.38	1.005	/
			10	QPSK	Sensor on	100%	0	20525/836.5	20.00	18.54	0.712	-0.060	1.40	0.997	1
			10	QPSK	Sensor on	50%	13	20600/844	20.00	18.82	0.801	-0.085	1.31	1.051	1
	1	L	l	1		I		l	I	l	ı	1	l	l	



			10	QPSK	Sensor on	50%	25	20450/829	20.00	18.78	0.791	0.020	1.32	1.048	
						0070	20	20430/629	20.00	10.70	0.791	0.020	1.32	1.040	/
			10	QPSK	Sensor on	50%	25	20525/836.5	20.00	18.69	0.786	-0.045	1.35	1.063	/
		Front Side Repeat	10	QPSK	Sensor on	1	49	20525/836.5	21.00	19.84	0.822	0.019	1.31	1.074	/
		1 - 6 5 d	10	QPSK	Sensor on	1	25	20600/844	21.00	19.89	0.363	0.110	1.29	0.469	/
		Left Edge	10	QPSK	Sensor on	50%	13	20600/844	20.00	18.82	0.258	0.012	1.31	0.339	/
		Disuba E dasa	10	QPSK	Sensor off	1	0	20600/844	23.50	23.04	0.275	-0.120	1.11	0.306	/
		Right Edge	10	QPSK	Sensor off	50%	25	20450/829	22.50	21.72	0.211	-0.065	1.20	0.253	/
		Top Edge	10	QPSK	Sensor on	1	25	20600/844	21.00	19.89	0.064	0.15	1.29	0.083	/
		Top Eage	10	QPSK	Sensor on	50%	13	20600/844	20.00	18.82	0.062	0.026	1.31	0.081	/
		Pottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	Sensor on	1	99	20850/2510	21.50	21.28	1.260	0.073	1.05	1.325	26
			10	QPSK	Sensor on	1	99	21100/2535	21.50	21.17	1.220	0.093	1.08	1.316	/
			10	QPSK	Sensor on	1	0	21350/2560	21.50	20.88	1.110	0.090	1.15	1.280	/
			10	QPSK	Sensor on	100%	0	21100/2535	20.50	20.07	0.778	0.030	1.10	0.859	/
		Back Side	10	QPSK	Sensor on	100%	0	20850/2510	20.50	19.77	0.749	-0.010	1.18	0.886	/
			10	QPSK	Sensor on	100%	0	21350/2560	20.50	19.88	0.760	0.090	1.15	0.877	/
			10	QPSK	Sensor on	50%	50	20850/2510	20.50	20.21	0.981	0.080	1.07	1.049	/
			10	QPSK	Sensor on	50%	50	21100/2535	20.50	20.19	0.429	0.051	1.07	0.461	/
			10	QPSK	Sensor on	50%	50	21350/2560	20.50	19.93	0.497	0.066	1.14	0.567	/
		Back Side Repeat	10	QPSK	Sensor on	1	99	20850/2510	21.50	21.28	1.240	-0.020	1.05	1.304	/
		Frank Oids	10	QPSK	Sensor on	1	99	20850/2510	21.50	21.28	0.407	0.026	1.05	0.428	/
LTE 7	Main	Front Side	10	QPSK	Sensor on	50%	50	20850/2510	20.50	20.21	0.422	-0.031	1.07	0.451	/
		1 - 6 5 d	10	QPSK	Sensor on	1	99	20850/2510	21.50	21.28	0.163	0.099	1.05	0.171	/
		Left Edge	10	QPSK	Sensor on	50%	50	20850/2510	20.50	20.21	0.094	0.032	1.07	0.100	/
		Discht Edua	10	QPSK	Sensor off	1	99	21100/2535	23.50	22.93	0.378	0.016	1.14	0.431	/
		Right Edge	10	QPSK	Sensor off	50%	0	21350/2560	22.50	22.19	0.514	-0.050	1.07	0.552	/
			10	QPSK	Sensor on	1	99	20850/2510	21.50	21.28	1.090	0.022	1.05	1.147	/
			10	QPSK	Sensor on	1	99	21100/2535	21.50	21.17	0.780	0.031	1.08	0.842	/
		T Ed	10	QPSK	Sensor on	1	0	21350/2560	21.50	20.88	0.830	-0.07	1.15	0.957	/
		Top Edge	10	QPSK	Sensor on	50%	50	20850/2510	20.50	20.21	0.947	0.06	1.07	1.012	/
			10	QPSK	Sensor on	50%	50	21100/2535	20.50	20.19	0.608	0.091	1.07	0.653	/
			10	QPSK	Sensor on	50%	50	21350/2560	20.50	19.93	0.715	0.022	1.14	0.815	/
		Detter 54	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
1.75.00			10	QPSK	Sensor on	1	99	37850/2580	21.00	20.72	0.938	0.063	1.07	1.000	/
TDD	Main	Back Side	10	QPSK	Sensor on	1	99	38000/2595	21.00	20.66	1.150	0.021	1.08	1.244	27
טטו			10	QPSK	Sensor on	1	99	38150/2610	21.00	20.59	1.040	0.017	1.10	1.143	/

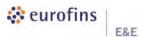


SAR Test Report Report No.: R2209A0873-S1V2 QPSK Sensor on 100% 37850/2580 20.00 19.55 0.993 0.02 1.11 1.101 10 OPSK 100% 0 38000/2595 20.00 19 29 0.957 -0.01 1 18 1 127 1 Sensor on OPSK 100% 1 10 Sensor on 0 38150/2610 20.00 19 35 0.980 0.033 1 16 1 138 10 **QPSK** 50% 37850/2580 20.00 19.84 0.981 0.01 1.04 1.018 / Sensor on 50 10 **QPSK** 50% 50 38000/2595 20.00 19.57 1.010 -0.022 1.10 1.115 / Sensor on 10 QPSK 50% 50 38150/2610 20.00 19.61 1.000 0.03 1.09 1.094 / Sensor on Back Side 10 **QPSK** Sensor on 1 99 38000/2595 21.00 20.66 1.090 0.175 1.08 1.179 Repeat **QPSK** 37850/2580 20.72 / 10 Sensor on 99 21.00 0.371 -0.171.07 0.396 Front Side 10 **QPSK** Sensor on 50% 50 37850/2580 20.00 19.84 0.212 0.04 1.04 0.220 / 10 QPSK -0.021 0.181 / 1 99 37850/2580 21.00 20.72 0.170 1.07 Sensor on Left Edge 1 10 **QPSK** Sensor on 50% 50 37850/2580 20.00 19 84 0.086 0.049 1.04 0.089 10 **QPSK** Sensor off 1 50 38000/2595 23.50 23.20 0.339 0.1 1.07 0.363 / Right Edge 10 **QPSK** Sensor off 50% 50 38000/2595 22.50 21.99 0.256 0.032 1.12 0.288 / 10 OPSK 37850/2580 21 00 20.72 -0.056 1 07 0.830 Sensor on 1 99 0.778 / Top Edge 10 QPSK Sensor on 50% 50 37850/2580 20.00 19.84 0.595 0.055 1.04 0.617 / 10 N/A / Bottom Edge 10 N/A / 10 QPSK 38750/2310.0 21.00 0.042 0.628 Sensor on 1 49 20.13 0.514 1.22 / Back Side QPSK 1 10 50% 25 38750/2310.0 20.00 18.80 -0.096 1.32 0.650 Sensor on 0.493 10 **QPSK** Sensor on 1 49 38750/2310.0 21.00 20.13 0.472 -0.05 1.22 0.577 / Front Side 10 QPSK Sensor on 50% 25 38750/2310.0 20.00 18.80 0.288 0.036 1.32 0.380 1 10 QPSK 1 49 38750/2310.0 20.13 0.042 0.03 1.22 0.051 / Sensor on 21.00 Left Edge OPSK 0.062 1 10 50% 25 38750/2310.0 20.00 18 80 0.047 0.022 1.32 Sensor on LTE 40 Main 10 **QPSK** Sensor off 1 0 38750/2310.0 23.50 22.90 0.444 0.11 1.15 0.510 / TDD Right Edge 10 QPSK 50% 0 38750/2310.0 22.50 21.76 0.369 0.035 1.19 0.438 / Sensor off 10 **QPSK** 49 38750/2310.0 21.00 20.13 0.347 -0.02 1.22 0.424 Sensor on 1 / Top Edge QPSK 10 Sensor on 50% 25 38750/2310.0 20.00 18.80 0.281 0.02 1.32 0.370 / / 10 N/A Bottom Edge 10 N/A / Back Side 10 QPSK Sensor on 50% 25 39200/2355.0 20.00 18.95 0.579 -0.02 1.27 0.737 28 QPSK 10 99 40620/2593 21.00 20.55 0.650 0.064 1.11 0.721 1 Sensor on 1 Back Side 19.77 10 **QPSK** 50% 50 39750/2506 20.00 1.05 0.760 29 Sensor on 0.721 -0.1 10 **QPSK** 99 40620/2593 21.00 20.55 0.397 0.02 1.11 0.440 / Sensor on 1 Front Side 10 **QPSK** Sensor on 50% 50 39750/2506 20.00 19.77 0.202 -0.051.05 0.213 1 LTE 41 QPSK 40620/2593 0.095 Main 10 1 99 21.00 20.55 0.086 -0.04 1.11 / Sensor on TDD Left Edge 10 **QPSK** 50% 1 Sensor on 50 39750/2506 20.00 19.77 0.129 -0.1461.05 0.136 / 10 **QPSK** Sensor off 1 0 40620/2593 23.50 23.16 0.348 0.14 1.08 0.376 Right Edge **QPSK** 50% 0 40620/2593 22.50 / 10 Sensor off 21.85 0.248 0.175 Top Edge 10 QPSK Sensor on 1 99 40620/2593 21.00 20.55 0.486 0.081 1.11 0.539 /



		SAR Test Re	port								report ite	o.: R2209A	10075-0	1 7 2	
			10	QPSK	Sensor on	50%	50	39750/2506	20.00	19.77	0.510	0.04	1.05	0.538	/
		Dettem Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	Sensor on	1	99	132072/1720	19.00	18.90	0.940	0.027	1.02	0.962	/
			10	QPSK	Sensor on	1	99	132322/1745	19.00	18.82	1.130	0.160	1.04	1.178	30
			10	QPSK	Sensor on	1	0	132572/1770	19.00	18.80	1.050	-0.030	1.05	1.099	/
			10	QPSK	Sensor on	100%	0	132072/1720	18.00	17.37	0.910	-0.060	1.16	1.052	/
		Back Side	10	QPSK	Sensor on	100%	0	132322/1745	18.00	17.05	0.890	0.010	1.24	1.108	1
			10	QPSK	Sensor on	100%	0	132572/1770	18.00	17.02	0.876	0.060	1.25	1.098	/
			10	QPSK	Sensor on	50%	50	132072/1720	18.00	17.60	0.901	0.071	1.10	0.988	/
			10	QPSK	Sensor on	50%	50	132322/1745	18.00	17.44	0.932	-0.066	1.14	1.060	/
			10	QPSK	Sensor on	50%	0	132572/1770	18.00	17.14	0.917	0.020	1.22	1.118	/
		Back Side Repeat	10	QPSK	Sensor on	1	99	132322/1745	19.00	18.82	1.020	0.020	1.04	1.063	/
		F 10:1	10	QPSK	Sensor on	1	99	132072/1720	19.00	18.90	0.358	0.130	1.02	0.366	/
LTE 66	Main	Front Side	10	QPSK	Sensor on	50%	50	132072/1720	18.00	17.60	0.221	0.150	1.10	0.242	/
		Front Side	10	QPSK	Sensor on	1	99	132072/1720	19.00	18.90	0.104	0.020	1.02	0.106	/
		Left Edge	10	QPSK	Sensor on	50%	50	132072/1720	18.00	17.60	0.071	-0.010	1.10	0.078	/
		Dialet Educ	10	QPSK	Sensor off	1	0	132572/1770	23.50	23.13	0.353	0.020	1.09	0.384	/
		Right Edge	10	QPSK	Sensor off	50%	25	132572/1770	22.50	22.50	0.361	0.020	1.00	0.361	/
			10	QPSK	Sensor on	1	99	132072/1720	19.00	18.90	1.060	0.05	1.02	1.085	/
			10	QPSK	Sensor on	1	99	132322/1745	19.00	18.82	1.090	0.025	1.04	1.136	/
		Ton Edge	10	QPSK	Sensor on	1	0	132572/1770	19.00	18.80	0.995	0.01	1.05	1.042	/
		Top Edge	10	QPSK	Sensor on	50%	50	132072/1720	18.00	17.60	0.765	0.062	1.10	0.839	/
			10	QPSK	Sensor on	50%	50	132322/1745	18.00	17.44	0.719	-0.03	1.14	0.818	/
			10	QPSK	Sensor on	50%	0	132572/1770	18.00	17.14	0.627	0.028	1.22	0.764	/
		Pottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Duty Cycle	Power Reduction	Ch./Freq.	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
		Back Side	10	802.11b	98.0%	Receiver off	6/2437	18.00	17.00	0.148	0.040	1.28	0.190	/
		Front Side	10	802.11b	98.0%	Receiver off	6/2437	18.00	17.00	0.208	-0.130	1.28	0.267	31
2.4G	Wi-Fi	Left Edge	10	802.11b	98.0%	Receiver off	6/2437	18.00	17.00	0.178	0.030	1.28	0.229	/
2.4G	VVI-F1	Right Edge	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1
		Top Edge	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1
		Bottom Edge	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	/



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

									_		Measured	_		Report
Band	Antenna	Dist.	Test	Mode	Power	RB	offset	Ch./Freq.	Tune-up	Measured	SAR1g		Scaling	SAR1g
		(mm)	Position		Reduction			(MHz)	(dBm)	power (dBm)	(W/Kg)	Drift (dB)	Factor	(W/kg)
		18	Back Side	RMC 12.2K	Sensor off	-	-	9400/1880	23.00	22.30	0.722	-0.140	1.17	0.848
MODMA II	Main	9	Front Side	RMC 12.2K	Sensor off	-	-	9400/1880	23.00	22.30	0.697	-0.026	1.17	0.819
WCDMA II	Main	9	Left Edge	RMC 12.2K	Sensor off	-	-	9400/1880	23.00	22.30	0.095	-0.033	1.17	0.112
		17	Top Edge	RMC 12.2K	Sensor off	-	-	9400/1880	23.00	22.30	0.644	0.020	1.17	0.757
		18	Back Side	RMC 12.2K	Sensor off	-	-	1413/1732.6	23.00	22.23	0.629	0.130	1.19	0.751
MACONAA IVA	Main	9	Front Side	RMC 12.2K	Sensor off	-	-	1413/1732.6	23.00	22.23	0.679	0.022	1.19	0.811
WCDMA IV	Main	9	Left Edge	RMC 12.2K	Sensor off		-	1413/1732.6	23.00	22.23	0.124	0.090	1.19	0.148
		17	Top Edge	RMC 12.2K	Sensor off		-	1413/1732.6	23.00	22.23	0.630	0.070	1.19	0.752
		18	Back Side	RMC 12.2K	Sensor off	-	-	4183/836.6	23.00	22.00	0.455	-0.077	1.26	0.573
MCDMA M	Main	9	Front Side	RMC 12.2K	Sensor off	-	-	4183/836.6	23.00	22.00	0.432	0.065	1.26	0.544
WCDMA V	Main	9	Left Edge	RMC 12.2K	Sensor off	-	-	4183/836.6	23.00	22.00	0.376	-0.070	1.26	0.473
		17	Top Edge	RMC 12.2K	Sensor off	-	-	4183/836.6	23.00	22.00	0.000	0.000	1.26	0.000
		18	Back Side	QPSK	Sensor off	1	99	18900/1880	23.50	22.91	1.060	-0.022	1.15	1.214
		18	Back Side	QPSK	Sensor off	50	25	19100/1900	22.50	21.72	0.844	-0.040	1.20	1.010
		9	Front Side	QPSK	Sensor off	1	99	18900/1880	23.50	22.91	0.736	0.031	1.15	0.843
LTE 2	Main	9	Front Side	QPSK	Sensor off	50	25	19100/1900	22.50	21.72	0.625	-0.010	1.20	0.748
LIEZ	Main	9	Left Edge	QPSK	Sensor off	1	99	18900/1880	23.50	22.91	0.133	0.020	1.15	0.152
		9	Left Edge	QPSK	Sensor off	50	25	19100/1900	22.50	21.72	0.095	-0.060	1.20	0.114
		17	Top Edge	QPSK	Sensor off	1	99	18900/1880	23.50	22.91	0.774	0.120	1.15	0.887
		17	Top Edge	QPSK	Sensor off	50	25	19100/1900	22.50	21.72	0.593	-0.010	1.20	0.710
		18	Back Side	QPSK	Sensor off	1	0	20050/1720	23.50	23.18	0.247	0.023	1.08	0.266
		18	Back Side	QPSK	Sensor off	50	50	20300/1745	22.50	21.81	0.202	0.010	1.17	0.237
		9	Front Side	QPSK	Sensor off	1	0	20050/1720	23.50	23.18	0.804	-0.062	1.08	0.865
LTE 4	Main	9	Front Side	QPSK	Sensor off	50	50	20300/1745	22.50	21.81	0.640	-0.031	1.17	0.750
LIL 4	IVIAIII	9	Left Edge	QPSK	Sensor off	1	0	20050/1720	23.50	23.18	0.067	-0.080	1.08	0.072
		9	Left Edge	QPSK	Sensor off	50	50	20300/1745	22.50	21.81	0.126	0.150	1.17	0.148
		17	Top Edge	QPSK	Sensor off	1	0	20050/1720	23.50	23.18	0.801	0.080	1.08	0.862
		17	Top Edge	QPSK	Sensor off	50	50	20300/1745	22.50	21.81	0.696	0.022	1.17	0.816
		18	Back Side	QPSK	Sensor off	1	0	20600/844	23.50	23.04	0.710	0.040	1.11	0.789
		18	Back Side	QPSK	Sensor off	50	25	20450/829	22.50	21.72	0.548	-0.010	1.20	0.656
		9	Front Side	QPSK	Sensor off	1	0	20600/844	23.50	23.04	1.170	-0.032	1.11	1.301
LTE 5	Main	9	Front Side	QPSK	Sensor off	50	25	20450/829	22.50	21.72	0.868	0.020	1.20	1.039
LILS	iviaili	9	Left Edge	QPSK	Sensor off	1	0	20600/844	23.50	23.04	0.534	0.020	1.11	0.594
		9	Left Edge	QPSK	Sensor off	50	25	20450/829	22.50	21.72	0.183	-0.070	1.20	0.219
		17	Top Edge	QPSK	Sensor off	1	0	20600/844	23.50	23.04	0.000	0.000	1.11	0.000
		17	Top Edge	QPSK	Sensor off	50	25	20450/829	22.50	21.72	0.000	0.000	1.20	0.000
LTE 7	Main	18	Back Side	QPSK	Sensor off	1	99	21100/2535	23.50	22.93	0.788	0.036	1.14	0.899
LIEI	ividIII	18	Back Side	QPSK	Sensor off	50	0	21350/2560	22.50	22.19	0.619	0.038	1.07	0.665



SAR Test Report								Report No.: R2209A0873-S1V2						
		9	Front Side	QPSK	Sensor off	1	99	21100/2535	23.50	22.93	0.836	-0.046	1.14	0.953
		9	Front Side	QPSK	Sensor off	50	0	21350/2560	22.50	22.19	0.675	0.077	1.07	0.725
		9	Left Edge	QPSK	Sensor off	1	99	21100/2535	23.50	22.93	0.256	-0.022	1.14	0.292
		9	Left Edge	QPSK	Sensor off	50	0	21350/2560	22.50	22.19	0.214	0.040	1.07	0.230
		17	Top Edge	QPSK	Sensor off	1	99	21100/2535	23.50	22.93	0.439	0.026	1.14	0.501
		17	Top Edge	QPSK	Sensor off	50	0	21350/2560	22.50	22.19	0.366	-0.031	1.07	0.393
		18	Back Side	QPSK	Sensor off	1	50	38000/2595	23.50	23.20	0.571	0.023	1.07	0.612
		18	Back Side	QPSK	Sensor off	50	50	38000/2595	22.50	21.99	0.454	0.026	1.12	0.511
		9	Front Side	QPSK	Sensor off	1	50	38000/2595	23.50	23.20	0.414	0.065	1.07	0.444
LTE 38	Main	9	Front Side	QPSK	Sensor off	50	50	38000/2595	22.50	21.99	0.327	-0.150	1.12	0.368
LIL 30	Mairi	9	Left Edge	QPSK	Sensor off	1	50	38000/2595	23.50	23.20	0.062	0.042	1.07	0.066
		9	Left Edge	QPSK	Sensor off	50	50	38000/2595	22.50	21.99	0.139	-0.020	1.12	0.156
		17	Top Edge	QPSK	Sensor off	1	50	38000/2595	23.50	23.20	0.288	0.024	1.07	0.309
		17	Top Edge	QPSK	Sensor off	50	50	38000/2595	22.50	21.99	0.234	-0.100	1.12	0.263
	Main	18	Back Side	QPSK	Sensor off	1	0	38750/2310.0	23.50	22.90	0.265	0.130	1.15	0.304
		18	Back Side	QPSK	Sensor off	50	0	38750/2310.0	22.50	21.76	0.213	0.031	1.19	0.253
		9	Front Side	QPSK	Sensor off	1	0	38750/2310.0	23.50	22.90	0.513	0.035	1.15	0.589
LTE 40		9	Front Side	QPSK	Sensor off	50	0	38750/2310.0	22.50	21.76	0.425	0.080	1.19	0.504
LIE 40		9	Left Edge	QPSK	Sensor off	1	0	38750/2310.0	23.50	22.90	0.080	-0.021	1.15	0.092
		9	Left Edge	QPSK	Sensor off	50	0	38750/2310.0	22.50	21.76	0.059	0.049	1.19	0.070
		17	Top Edge	QPSK	Sensor off	1	0	38750/2310.0	23.50	22.90	0.165	0.113	1.15	0.189
		17	Top Edge	QPSK	Sensor off	50	0	38750/2310.0	22.50	21.76	0.117	0.035	1.19	0.139
		18	Back Side	QPSK	Sensor off	1	0	40620/2593	23.50	23.16	0.516	0.041	1.08	0.558
	Main	18	Back Side	QPSK	Sensor off	50	0	40620/2593	22.50	21.85	0.387	0.055	1.16	0.449
		9	Front Side	QPSK	Sensor off	1	0	40620/2593	23.50	23.16	0.442	0.043	1.08	0.478
LTE 41		9	Front Side	QPSK	Sensor off	50	0	40620/2593	22.50	21.85	0.348	0.051	1.16	0.404
L1L41		9	Left Edge	QPSK	Sensor off	1	0	40620/2593	23.50	23.16	0.157	0.120	1.08	0.170
		9	Left Edge	QPSK	Sensor off	50	0	40620/2593	22.50	21.85	0.129	-0.070	1.16	0.150
		17	Top Edge	QPSK	Sensor off	1	0	40620/2593	23.50	23.16	0.296	0.021	1.08	0.320
		17	Top Edge	QPSK	Sensor off	50	0	40620/2593	22.50	21.85	0.240	0.061	1.16	0.279
LTE 66	Main ·	18	Back Side	QPSK	Sensor off	1	0	132572/1770	23.50	23.13	1.070	0.050	1.09	1.165
		18	Back Side	QPSK	Sensor off	50	25	132572/1770	22.50	21.75	0.795	0.010	1.19	0.945
		9	Front Side	QPSK	Sensor off	1	0	132572/1770	23.50	23.13	0.952	0.170	1.09	1.037
		9	Front Side	QPSK	Sensor off	50	25	132572/1770	22.50	21.75	0.666	-0.040	1.19	0.792
L1L 00		9	Left Edge	QPSK	Sensor off	1	0	132572/1770	23.50	23.13	0.145	0.140	1.09	0.158
		9	Left Edge	QPSK	Sensor off	50	25	132572/1770	22.50	21.75	0.116	-0.030	1.19	0.138
		17	Top Edge	QPSK	Sensor off	1	0	132572/1770	23.50	23.13	0.935	0.050	1.09	1.018
		17	Top Edge	QPSK	Sensor off	50	25	132572/1770	22.50	21.75	0.705	0.020	1.19	0.838

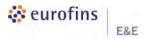


10.3 Simultaneous Transmission Analysis

Simultaneous Transmission Configurations	Body-worn	Hotspot			
WCDMA + Wi-Fi 2.4GHz	Yes	Yes			
LTE + Wi-Fi 2.4GHz	Yes	Yes			

General Note:

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



SAR Test Report

Report No.: R2209A0873-S1V2 The Maximum SAR₁₀ Value for Main-Antenna

	The Maximum CAIVig Value for Main-Antenna												
	SAR _{1g} (W/kg)	WCDMA	WCDMA	WCDMA	LTE	LTE	LTE	LTE	LTE	LTE	LTE	LTE	MAX.
Test Position		Band II	Band IV	Band V	FDD 2	FDD 4	FDD 5	FDD 7	TDD 38	TDD 40	TDD 41	FDD 66	SAR _{1g}
Body	Back Side	0.072	0.662	0.130	0.798	0.546	0.647	0.871	0.527	0.334	0.642	0.490	0.871
worn	Front Side	0.408	0.321	0.657	0.496	0.419	0.925	0.555	0.376	0.242	0.258	0.475	0.925
Hotspot	Back Side	0.957	0.966	0.423	0.961	1.214	0.647	1.325	1.244	0.737	0.760	1.178	1.325
	Front Side	0.761	0.839	0.598	0.476	0.782	1.074	0.451	0.396	0.577	0.440	0.366	1.074
	Left Edge	0.145	0.117	0.134	0.118	0.361	0.469	0.171	0.181	0.062	0.136	0.106	0.469
	Right Edge	0.263	0.453	0.363	0.449	0.513	0.306	0.552	0.363	0.510	0.376	0.384	0.552
	Top Edge	0.559	0.869	0.080	0.941	0.669	0.083	1.147	0.830	0.424	0.539	1.136	1.147
	Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

About Wi-Fi and Main-Antenna

SAR _{1g} (W/kg) Test Position		Main- Antenna	Wi-Fi2.4G	MAX. ΣSAR _{1g}		
Dadwara	Back Side	0.871	0.190	1.061		
Body worn	Front Side	0.925	0.267	1.192		
	Back Side	1.325	0.190	1.515		
	Front Side	1.074	0.267	1.341		
Hatan at	Left Edge	0.469	0.229	0.698		
Hotspot	Right Edge	0.552	NA	0.552		
	Top Edge	1.147	NA	1.147		
	Bottom Edge	N/A	NA	NA		

- 1. The value with blue color is the maximum ΣSAR_{1g} Value.
- 2. MAX. Σ SAR_{1g} =Unlicensed SAR_{MAX} +Licensed SAR_{MAX}
- 3. MAX. Σ SAR_{1g} =1.515W/kg<1.6W/kg, so the Simultaneous transmission SAR with volume scan are not required for Wi-Fi and Main-Antenna.



11 Measurement Uncertainty

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

******END OF REPORT ******



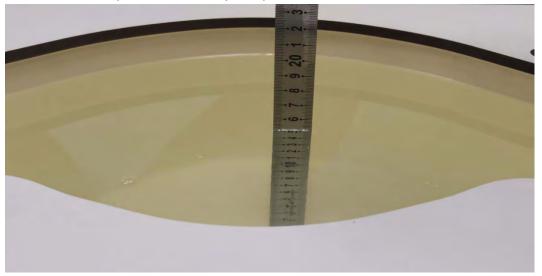
ANNEX A: Test Layout





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

Date: 2022/11/11

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

Medium parameters used: f = 835 MHz; $\sigma = 0.87 \text{ S/m}$; $\varepsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$

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(9.34, 9.34, 9.34); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13 Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

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

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

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

dz=5mm

Reference Value = 54.4 V/m; Power Drift = -0.076 dB

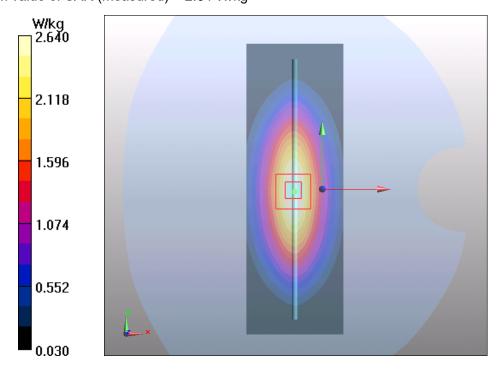
Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.6 W/kg

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

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

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





Plot 2 System Performance Check at 1750 MHz TSL

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

Date: 2022/11/23

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

Medium parameters used: f = 1750 MHz; σ = 1.33 S/m; ϵ_r = 40.2; ρ = 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(8.25, 8.25, 8.25); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13 Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

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

Maximum value of SAR (measured) = 9.78 W/kg

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

dz=5mm

Reference Value = 80 V/m; Power Drift = 0.075 dB

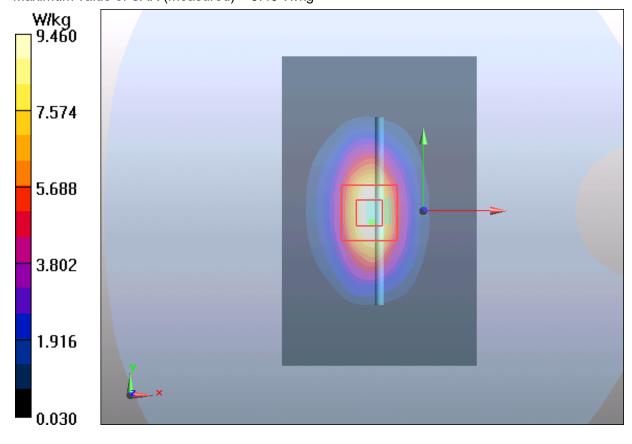
Peak SAR (extrapolated) = 15.5 W/kg

SAR(1 g) = 8.96 W/kg; SAR(10 g) = 4.5 W/kg

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

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

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





Plot 3 System Performance Check at 1900 MHz TSL DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2

Date: 2022/11/22

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

Medium parameters used: f = 1900 MHz; σ = 1.41 S/m; ε_r = 40.2; ρ = 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(7.84, 7.84, 7.84); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13 Phantom: SAM 1; 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) = 11.3 W/kg

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

dz=5mm

Reference Value = 85.5 V/m; Power Drift = 0.028 dB

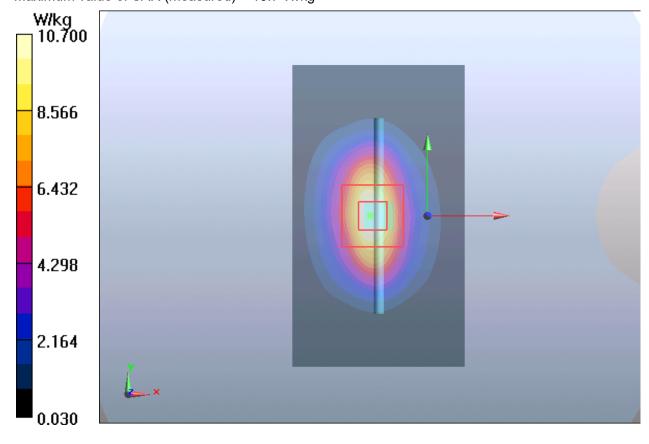
Peak SAR (extrapolated) = 17.8 W/kg

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

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

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

Maximum value of SAR (measured) = 10.7 W/kg





Plot 4 System Performance Check at 2300 MHz TSL

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

Date: 2022/11/24

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

Medium parameters used: f = 2300 MHz; $\sigma = 1.65 \text{ S/m}$; $\varepsilon_r = 40.1$; $\rho = 1000 \text{ kg/m}^3$

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(7.76, 7.76, 7.76); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13 Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

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

Maximum value of SAR (measured) = 16.0 W/kg

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

dz=5mm

Reference Value = 85.188 V/m; Power Drift = 0.09 dB

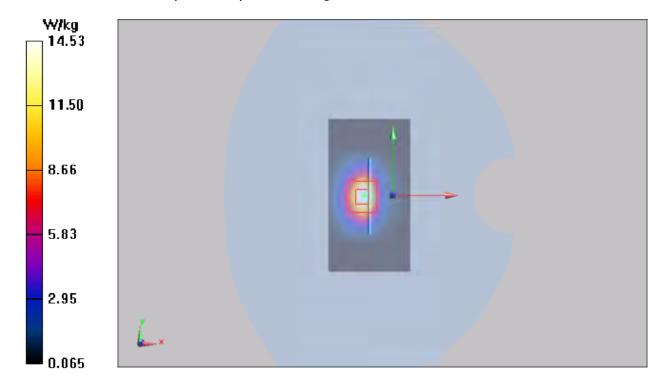
Peak SAR (extrapolated) = 26.4 W/kg

SAR(1 g) = 12.37 W/kg; SAR(10 g) = 5.90 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.8%

Maximum value of SAR (measured) = 14.53 W/kg





Plot 5 System Performance Check at 2450 MHz TSL

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

Date: 2022/11/24

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

Medium parameters used: f = 2450 MHz; $\sigma = 1.82 \text{ S/m}$; $\varepsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

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(7.46, 7.46, 7.46); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13 Phantom: SAM 1; 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) = 18.2 W/kg

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

dz=5mm

Reference Value = 88.8 V/m; Power Drift = 0.075 dB

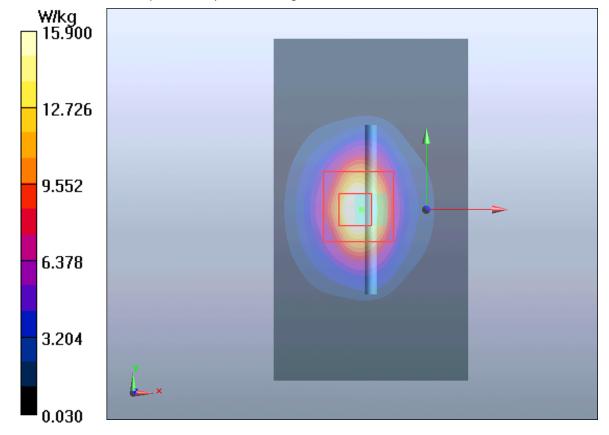
Peak SAR (extrapolated) = 30 W/kg

SAR(1 g) = 13.71 W/kg; SAR(10 g) = 6.22 W/kg

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

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

Maximum value of SAR (measured) = 15.9 W/kg





Plot 6 System Performance Check at 2600 MHz TSL

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

Date: 2022/11/25

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

Medium parameters used: f = 2600 MHz; $\sigma = 2.01 \text{ S/m}$; $\varepsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$

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(7.27, 7.27, 7.27); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13 Phantom: SAM 1; 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) = 17.439 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

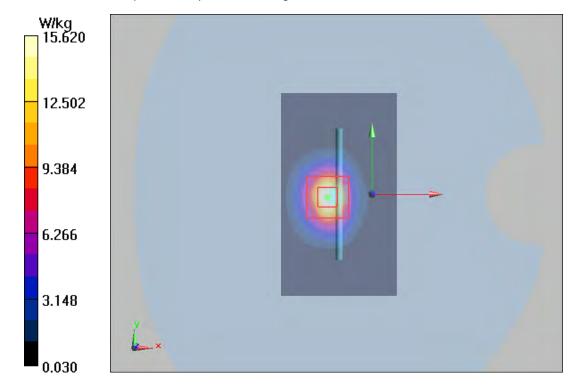
Peak SAR (extrapolated) = 31.858 W/kg

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%

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





Plot 7 System Performance Check at 2600 MHz TSL

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

Date: 2022/11/26

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

Medium parameters used: f = 2600 MHz; $\sigma = 2.03 \text{ S/m}$; $\varepsilon_r = 38.4$; $\rho = 1000 \text{ kg/m}^3$

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(7.27, 7.27, 7.27); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13 Phantom: SAM 1; 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) = 17.439 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

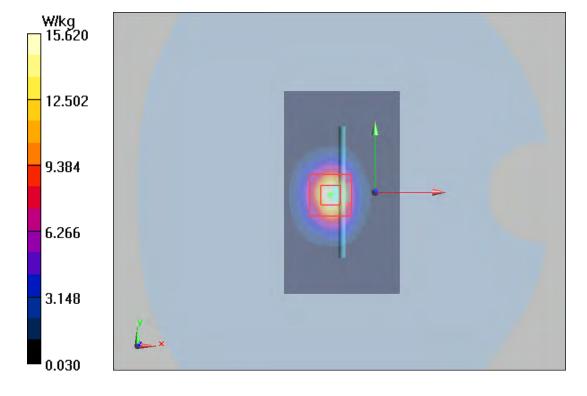
Peak SAR (extrapolated) = 31.858 W/kg

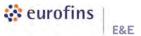
SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.02 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 44%

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





ANNEX C: Highest Graph Results

Plot 8 WCDMA Band II Front Side Middle (Distance 15mm)

Date: 2022/11/22

Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; $\sigma = 1.437$ S/m; $\epsilon_r = 37.208$; $\rho = 1000$ 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(7.84, 7.84, 7.84); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Front Side Middle/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.360 W/kg

Front Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.57 V/m; Power Drift = -0.05 dB

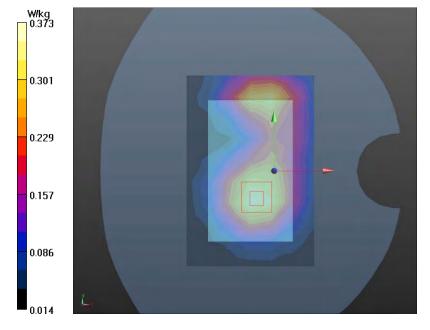
Peak SAR (extrapolated) = 0.531 W/kg

SAR(1 g) = 0.347 W/kg; SAR(10 g) = 0.221 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 65.1%

Maximum value of SAR (measured) = 0.373 W/kg





Plot 9 WCDMA Band IV Back Side Middle (Distance 15mm)

Date: 2022/11/23

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1732.6 MHz; $\sigma = 1.329$ S/m; $\epsilon_r = 37.759$; $\rho = 1000$ 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(8.25, 8.25, 8.25); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Middle/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.511 W/kg

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

Reference Value = 9.212 V/m; Power Drift = 0.11 dB

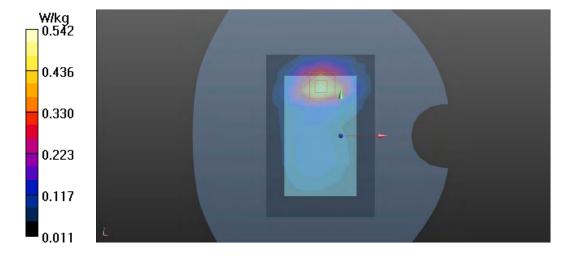
Peak SAR (extrapolated) = 0.834 W/kg

SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.272 W/kg

Smallest distance from peaks to all points 3 dB below = 12.8 mm

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

Maximum value of SAR (measured) = 0.542 W/kg





Plot 10 WCDMA Band V Front Side Middle (Distance 15mm)

Date: 2022/11/11

Communication System: UID 0, WCDMA (0); Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium parameters used: f = 836.6 MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 41.856$; $\rho = 1000$ 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(9.34, 9.34, 9.34); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Front Side Middle/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.533 W/kg

Front Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.23 V/m; Power Drift = 0.01 dB

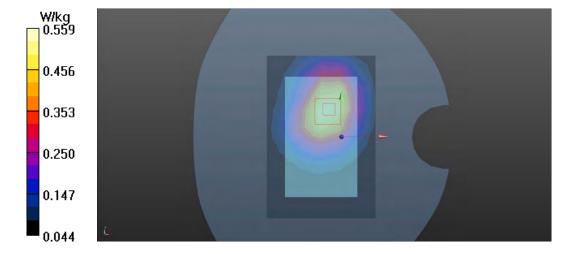
Peak SAR (extrapolated) = 0.728 W/kg

SAR(1 g) = 0.522 W/kg; SAR(10 g) = 0.356 W/kg

Smallest distance from peaks to all points 3 dB below = 13.5 mm

Ratio of SAR at M2 to SAR at M1 = 70.5%

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





Plot 11 LTE Band 2 1RB Back Side High (Distance 15mm)

Date: 2022/11/22

Communication System: UID 0, LTE (0); Frequency: 1900 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; $\sigma = 1.422$ S/m; $\epsilon_r = 38.97$; $\rho = 1000$ 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(7.84, 7.84, 7.84); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side High/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 9.021 V/m; Power Drift = -0.03 dB

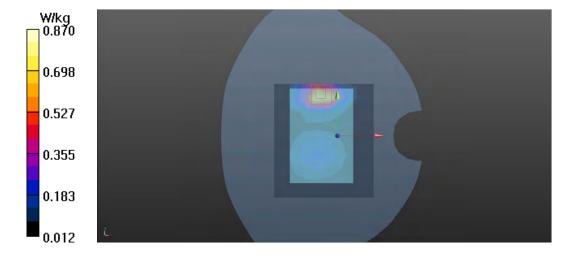
Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.778 W/kg; SAR(10 g) = 0.394 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.3%

Maximum value of SAR (measured) = 0.870 W/kg





Plot 12 LTE Band 4 50%RB Back Side High (Distance 15mm)

Date: 2022/11/23

Communication System: UID 0, LTE (0); Frequency: 1745 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1745 MHz; $\sigma = 1.338$ S/m; $\epsilon_r = 37.717$; $\rho = 1000$ 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(8.25, 8.25, 8.25); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side High/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.545 W/kg

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

Reference Value = 11.20 V/m; Power Drift = 0.12 dB

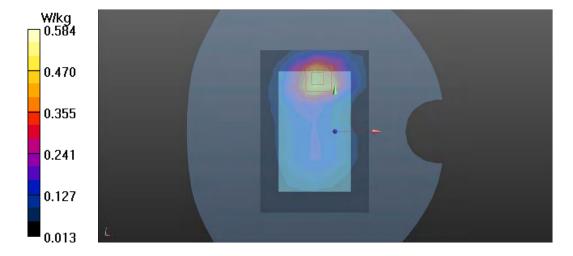
Peak SAR (extrapolated) = 0.909 W/kg

SAR(1 g) = 0.532 W/kg; SAR(10 g) = 0.299 W/kg

Smallest distance from peaks to all points 3 dB below = 14.4 mm

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

Maximum value of SAR (measured) = 0.584 W/kg





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

Date: 2022/11/11

Communication System: UID 0, LTE (0); Frequency: 844 MHz; Duty Cycle: 1:1 Medium parameters used: f = 844 MHz; $\sigma = 0.941$ S/m; $\epsilon_r = 41.837$; $\rho = 1000$ 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(9.34, 9.34, 9.34); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Front Side High/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 25.68 V/m; Power Drift = 0.08 dB

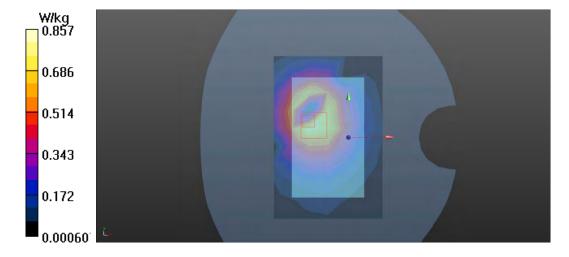
Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.832 W/kg; SAR(10 g) = 0.519 W/kg

Smallest distance from peaks to all points 3 dB below = 12 mm

Ratio of SAR at M2 to SAR at M1 = 72.7%

Maximum value of SAR (measured) = 0.857 W/kg





Plot 14 LTE Band 7 1RB Back Side Low (Distance 15mm)

Date: 2022/11/25

Communication System: UID 0, LTE (0); Frequency: 2510 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2510 MHz; $\sigma = 1.91$ S/m; $\epsilon_r = 37.398$; $\rho = 1000$ 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(7.27, 7.27, 7.27); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Low/Area Scan (10x12x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.837 W/kg

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

Reference Value = 6.725 V/m; Power Drift = 0.099 dB

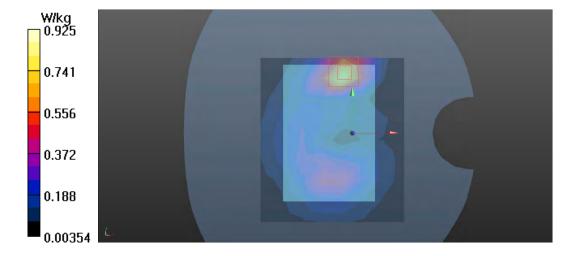
Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.828 W/kg; SAR(10 g) = 0.399 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.2%

Maximum value of SAR (measured) = 0.925 W/kg





Plot 15 LTE Band 38 1RB Back Side Low (Distance 15mm)

Date: 2022/11/25

Communication System: UID 0, LTE (0); Frequency: 2580 MHz;Duty Cycle: 1:1.58 Medium parameters used: f = 2580 MHz; $\sigma = 1.995$ S/m; $\epsilon_r = 37.164$; $\rho = 1000$ 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(7.27, 7.27, 7.27); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Low/Area Scan (9x14x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.697 W/kg

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

Reference Value = 3.936 V/m; Power Drift = 0.053 dB

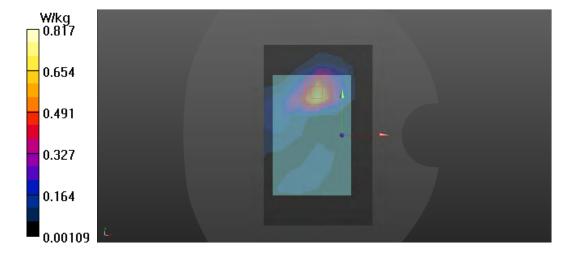
Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.494 W/kg; SAR(10 g) = 0.230 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 48%

Maximum value of SAR (measured) = 0.817 W/kg





Plot 16 LTE Band 40 1RB Back Side Low (Distance 15mm)

Date: 2022/11/24

Communication System: UID 0, LTE (0); Frequency: 2310 MHz;Duty Cycle: 1:1.58 Medium parameters used: f = 2310 MHz; $\sigma = 1.693$ S/m; $\epsilon_r = 38.105$; $\rho = 1000$ 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(7.76, 7.76, 7.76); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Low/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.332 W/kg

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

Reference Value = 10.92 V/m; Power Drift = 0.02 dB

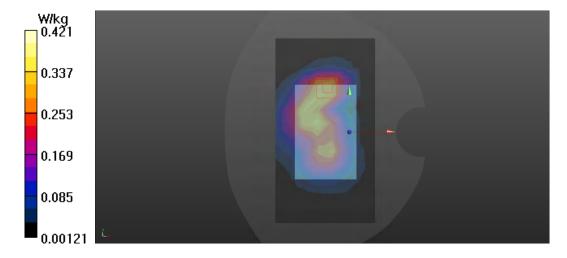
Peak SAR (extrapolated) = 0.510 W/kg

SAR(1 g) = 0.273 W/kg; SAR(10 g) = 0.142 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.4%

Maximum value of SAR (measured) = 0.421 W/kg





Plot 17 LTE Band 41 1RB Back Side Low (Distance 15mm)

Date: 2022/11/25

Communication System: UID 0, LTE (0); Frequency: 2506 MHz;Duty Cycle: 1:1.58 Medium parameters used: f = 2506 MHz; $\sigma = 1.905$ S/m; $\epsilon_r = 37.414$; $\rho = 1000$ 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(7.27, 7.27, 7.27); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Low/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.779 W/kg

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

Reference Value = 7.771 V/m; Power Drift = -0.028 dB

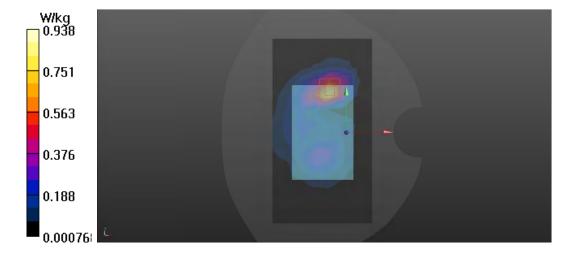
Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.579 W/kg; SAR(10 g) = 0.276 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

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

Maximum value of SAR (measured) = 0.938 W/kg





Plot 18 LTE Band 66 1RB Back Side Middle (Distance 15mm)

Date: 2022/11/23

Communication System: UID 0, LTE (0); Frequency: 1745 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1745 MHz; $\sigma = 1.311$ S/m; $\epsilon_r = 39.407$; $\rho = 1000$ 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(8.25, 8.25, 8.25); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Middle/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.498 W/kg

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

Reference Value = 8.919 V/m; Power Drift = 0.18 dB

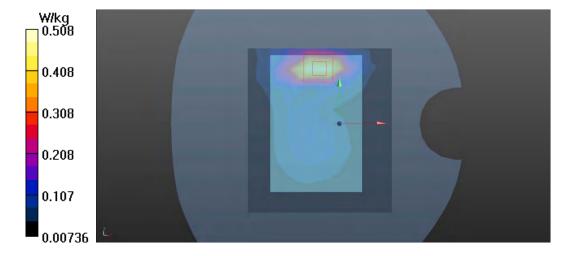
Peak SAR (extrapolated) = 0.878 W/kg

SAR(1 g) = 0.479 W/kg; SAR(10 g) = 0.245 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 59.9%

Maximum value of SAR (measured) = 0.508 W/kg





Plot 19 802.11b Front Side Middle (Distance 15mm)

Date: 2022/11/24

Communication System: UID 0, 802.11b (0); Frequency: 2437 MHz;Duty Cycle: 1:1.02 Medium parameters used: f = 2437 MHz; $\sigma = 1.831$ S/m; $\epsilon_r = 37.663$; $\rho = 1000$ 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(7.46, 7.46, 7.46); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Front Side Middle/Area Scan (9x12x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.316 W/kg

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

Reference Value = 8.201 V/m; Power Drift = -0.13 dB

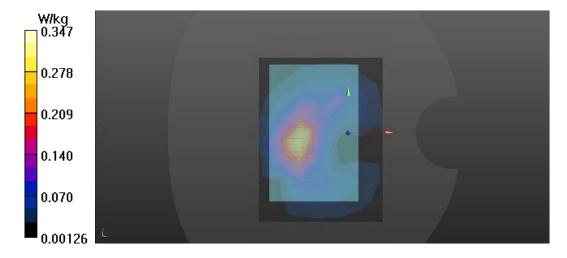
Peak SAR (extrapolated) = 0.442 W/kg

SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.100 W/kg

Smallest distance from peaks to all points 3 dB below = 12.2 mm

Ratio of SAR at M2 to SAR at M1 = 47.4%

Maximum value of SAR (measured) = 0.347 W/kg





Plot 20 WCDMA Band II Back Side Middle (Distance 10mm)

Date: 2022/11/22

Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; $\sigma = 1.437$ S/m; $\epsilon_r = 37.208$; $\rho = 1000$ 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(7.84, 7.84, 7.84); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Middle/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.780 W/kg

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

Reference Value = 7.944 V/m; Power Drift = 0.11 dB

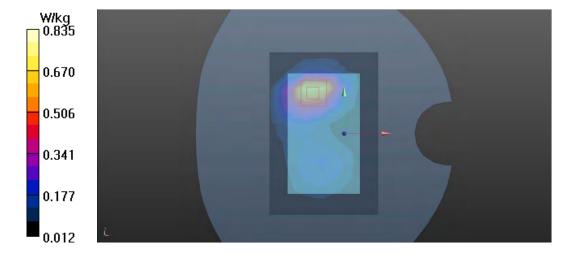
Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.748 W/kg; SAR(10 g) = 0.392 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.9%

Maximum value of SAR (measured) = 0.835 W/kg





Plot 21 WCDMA Band IV Back Side Middle (Distance 10mm)

Date: 2022/11/23

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1732.6 MHz; $\sigma = 1.329$ S/m; $\epsilon_r = 37.759$; $\rho = 1000$ 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(8.25, 8.25, 8.25); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Middle/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.698 W/kg

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

Reference Value = 10.19 V/m; Power Drift = 0.076 dB

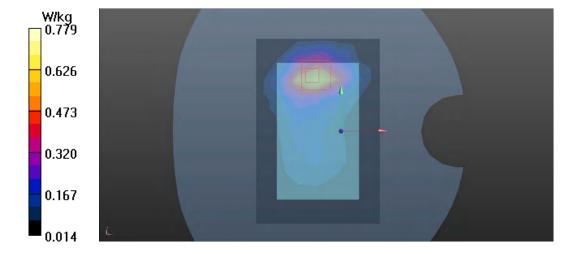
Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.689 W/kg; SAR(10 g) = 0.363 W/kg

Smallest distance from peaks to all points 3 dB below = 12.2 mm

Ratio of SAR at M2 to SAR at M1 = 56.6%

Maximum value of SAR (measured) = 0.779 W/kg





Plot 22 WCDMA Band V Front Side Middle (Distance 10mm)

Date: 2022/11/11

Communication System: UID 0, WCDMA (0); Frequency: 846.6 MHz;Duty Cycle: 1:1 Medium parameters used: f = 846.6 MHz; $\sigma = 0.943$ S/m; $\epsilon_r = 41.831$; $\rho = 1000$ 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(9.34, 9.34, 9.34); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Front Side Middle/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.462 W/kg

Front Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.24 V/m; Power Drift = 0.021 dB

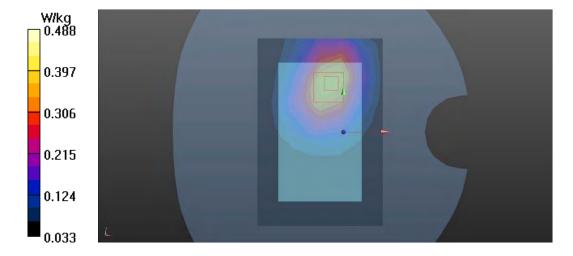
Peak SAR (extrapolated) = 0.655 W/kg

SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.303 W/kg

Smallest distance from peaks to all points 3 dB below = 20.5 mm

Ratio of SAR at M2 to SAR at M1 = 68.6%

Maximum value of SAR (measured) = 0.488 W/kg





Plot 23 LTE Band 2 1RB Back Side High (Distance 10mm)

Date: 2022/11/22

Communication System: UID 0, LTE (0); Frequency: 1900 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; $\sigma = 1.452$ S/m; $\epsilon_r = 37.286$; $\rho = 1000$ 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(7.84, 7.84, 7.84); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side High/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 13.30 V/m; Power Drift = 0.1 dB

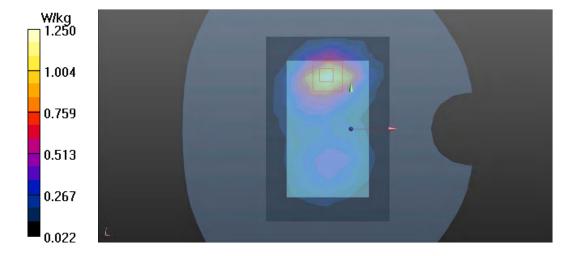
Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 0.937 W/kg; SAR(10 g) = 0.47 W/kg

Smallest distance from peaks to all points 3 dB below = 12.8 mm

Ratio of SAR at M2 to SAR at M1 = 56.5%

Maximum value of SAR (measured) = 1.250 W/kg





Plot 24 LTE Band 4 50%RB Back Side Low (Distance 10mm)

Date: 2022/11/23

Communication System: UID 0, LTE (0); Frequency: 1720 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1720 MHz; $\sigma = 1.318$ S/m; $\epsilon_r = 37.81$; $\rho = 1000$ 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(8.25, 8.25, 8.25); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Low /Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.18 W/kg

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

Reference Value = 12.04 V/m; Power Drift = 0.047 dB

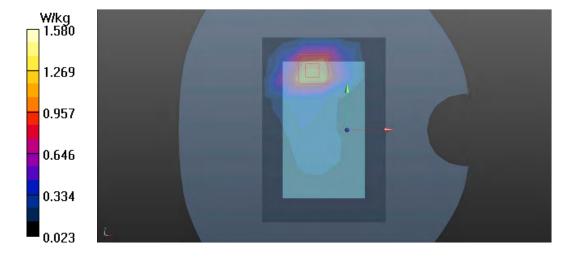
Peak SAR (extrapolated) = 2.54 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.538 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.9%

Maximum value of SAR (measured) = 1.580 W/kg





Plot 25 LTE Band 5 1RB Front Side High (Distance 10mm)

Date: 2022/11/11

Communication System: UID 0, LTE (0); Frequency: 844 MHz; Duty Cycle: 1:1 Medium parameters used: f = 844 MHz; $\sigma = 0.941$ S/m; $\epsilon_r = 41.837$; $\rho = 1000$ 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(9.34, 9.34, 9.34); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Front Side High/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.888 W/kg

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

Reference Value = 12.13 V/m; Power Drift = -0.062 dB

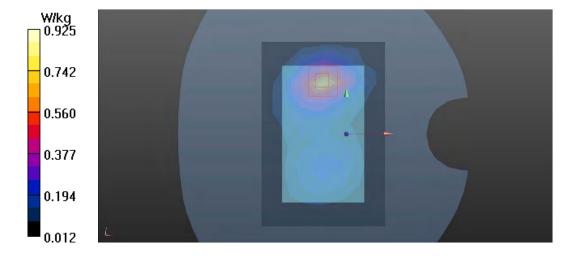
Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.830 W/kg; SAR(10 g) = 0.532 W/kg

Smallest distance from peaks to all points 3 dB below = 12.8 mm

Ratio of SAR at M2 to SAR at M1 = 56.6%

Maximum value of SAR (measured) = 0.925 W/kg





Plot 26 LTE Band 7 1RB Back Side Middle (Distance 10mm)

Date: 2022/11/26

Communication System: UID 0, LTE (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2535 MHz; $\sigma = 1.94$ S/m; $\varepsilon_r = 37.31$; $\rho = 1000$ 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(7.27, 7.27, 7.27); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Middle/Area Scan (10x12x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 1.34 W/kg

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

Reference Value = 6.529 V/m; Power Drift = 0.073 dB

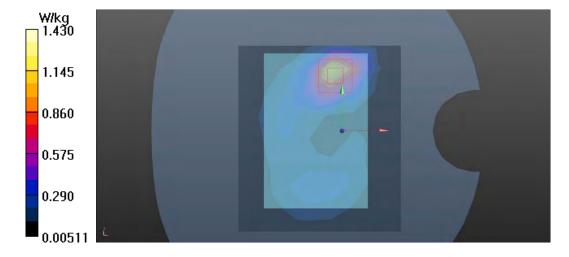
Peak SAR (extrapolated) = 2.65 W/kg

SAR(1 g) = 1.26 W/kg; SAR(10 g) = 0.579 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 50.2%

Maximum value of SAR (measured) = 1.43 W/kg





Plot 27 LTE Band 38 1RB Back Side Middle (Distance 10mm)

Date: 2022/11/26

Communication System: UID 0, LTE (0); Frequency: 2595 MHz;Duty Cycle: 1:1.58 Medium parameters used: f = 2595 MHz; $\sigma = 2.011$ S/m; $\epsilon_r = 37.134$; $\rho = 1000$ 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(7.27, 7.27, 7.27); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Middle/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 1.58 W/kg

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

Reference Value = 2.747 V/m; Power Drift = 0.021 dB

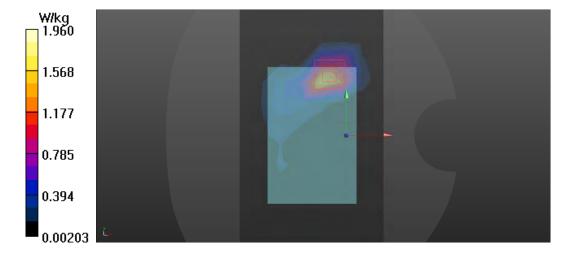
Peak SAR (extrapolated) = 2.50 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.506 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 46.5%

Maximum value of SAR (measured) = 1.96 W/kg





Plot 28 LTE Band 40 50%RB Back Side Low (Distance 10mm)

Date: 2022/11/24

Communication System: UID 0, LTE (0); Frequency: 2310 MHz;Duty Cycle: 1:1.58 Medium parameters used: f = 2310 MHz; $\sigma = 1.693$ S/m; $\epsilon_r = 38.105$; $\rho = 1000$ 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(7.76, 7.76, 7.76); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Low/Area Scan (10x12x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.596 W/kg

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

Reference Value = 9.556 V/m; Power Drift = -0.02 dB

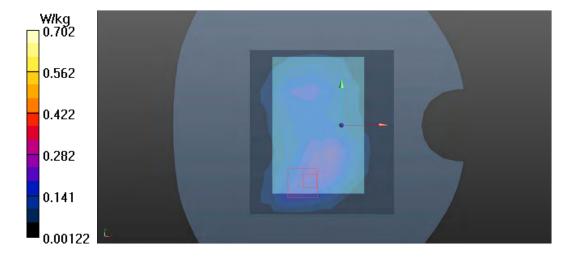
Peak SAR (extrapolated) = 0.594 W/kg

SAR(1 g) = 0.579 W/kg; SAR(10 g) = 0.293 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 49.4%

Maximum value of SAR (measured) = 0.702 W/kg





Plot 29 LTE Band 41 50%RB Back Side Low (Distance 10mm)

Date: 2022/11/26

Communication System: UID 0, LTE (0); Frequency: 2593 MHz;Duty Cycle: 1:1.58 Medium parameters used: f = 2593 MHz; $\sigma = 2.009$ S/m; $\epsilon_r = 37.118$; $\rho = 1000$ 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(7.27, 7.27, 7.27); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Low/Area Scan (10x12x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.773 W/kg

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

Reference Value = 3.693 V/m; Power Drift = -0.10 dB

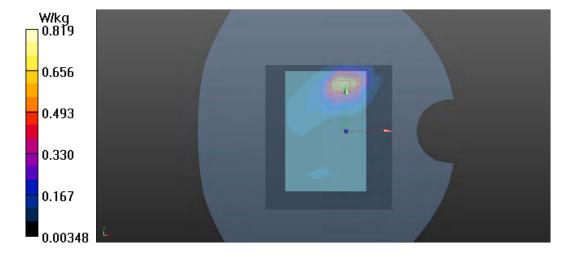
Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.721 W/kg; SAR(10 g) = 0.322 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 49.2%

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





Plot 30 LTE Band 66 1RB Back Side Middle (Distance 10mm)

Date: 2022/11/23

Communication System: UID 0, LTE (0); Frequency: 1745 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1745 MHz; $\sigma = 1.311$ S/m; $\epsilon_r = 39.407$; $\rho = 1000$ 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(8.25, 8.25, 8.25); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Back Side Middle /Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 11.74 V/m; Power Drift = 0.16 dB

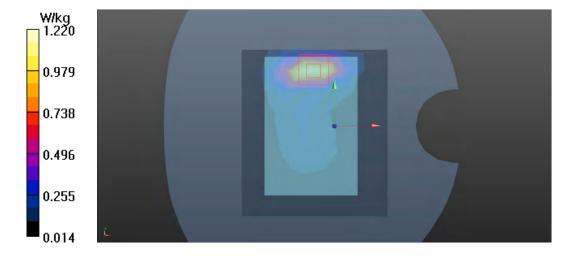
Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.539 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.5%

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





Plot 31 802.11b Front Side Middle (Distance 10mm)

Date: 2022/11/24

Communication System: UID 0, 802.11b (0); Frequency: 2437 MHz;Duty Cycle: 1:1.02 Medium parameters used: f = 2437 MHz; $\sigma = 1.831$ S/m; $\epsilon_r = 37.663$; $\rho = 1000$ 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(7.46, 7.46, 7.46); Calibrated: 2022/7/8

Electronics: DAE4 SN1317; Calibrated: 2022/6/13

Phantom: SAM 1; Type: QD000P40CD; Serial: TP:1666

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

Front Side Middle/Area Scan (9x12x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.316 W/kg

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

Reference Value = 8.201 V/m; Power Drift = -0.13 dB

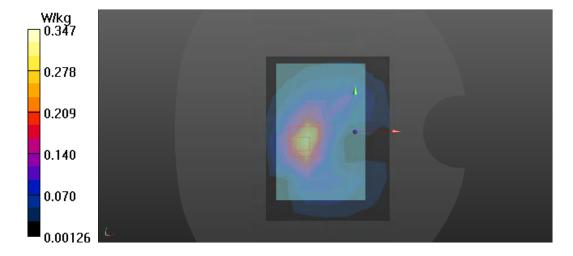
Peak SAR (extrapolated) = 0.442 W/kg

SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.100 W/kg

Smallest distance from peaks to all points 3 dB below = 12.2 mm

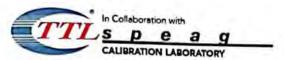
Ratio of SAR at M2 to SAR at M1 = 47.4%

Maximum value of SAR (measured) = 0.347 W/kg





ANNEX D: Probe Calibration Certificate



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2117

E-mail: cttl@chinattl.com

http://www.caict.ac.cn



Certificate No: Z22-60223

CALIBRATION CERTIFICATE

Object EX3DV4 - SN: 3677

TA(Shanghai)

Calibration Procedure(s)

Client

FF-Z11-004-02

July 08, 2022

Calibration Procedures for Dosimetric E-field Probes

Calibration date:

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility; environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration	
Power Meter NRP2	101919	14-Jun-22(CTTL, No.J22X04181)	Jun-23	
Power sensor NRP-Z91	101547	14-Jun-22(CTTL, No.J22X04181)	Jun-23	
Power sensor NRP-Z91	101548	14-Jun-22(CTTL, No.J22X04181)	Jun-23	
Reference 10dBAttenuat	or 18N50W-10dB	20-Jan-21(CTTL, No.J21X00486)	Jan-23	
Reference 20dBAttenuat	or 18N50W-20dB	20-Jan-21(CTTL, No.J21X00485)	Jan-23	
Reference Probe EX3DV	4 SN 7464	26-Jan-22(SPEAG, No.EX3-7464_Jan2	2) Jan-23	
DAE4	SN 1555	20-Aug-21(SPEAG, No.DAE4-1555_Au	g21/2) Aug-22	
Secondary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration	
SignalGenerator MG370	OA 6201052605	14-Jun-22(CTTL, No.J22X04182)	Jun-23	
Network Analyzer E5071	C MY46110673	14-Jan-22(CTTL, No.J22X00406)	Jan-23	
	Name	Function	Signature	
Calibrated by:	Yu Zongying	SAR Test Engineer	200	
Reviewed by:	Lin Hao	SAR Test Engineer	献为	
Approved by:	Qi Dianyuan	SAR Project Leader		
			3 3 3 4 4 5 5 K 5 K	

Issued: July 20, 2022

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: Z22-60223 Page 1 of 22







Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2117 E-mail: ettl/@chinattl.com http://www.caict.ac.en

Glossary:

TSL tissue simulating liquid
NORMx,y,z sensitivity in free space
ConvF sensitivity in TSL / NORMx,y,z
DCP diode compression point

CF crest factor (1/duty_cycle) of the RF signal A,B,C,D modulation dependent linearization parameters

Polarization θ θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i

θ=0 is normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices Measurement Techniques", June 2013

b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016

c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010.

d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization θ=0 (f≤900MHz in TEM-cell; f>1800MHz; waveguide)
 NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the
 E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z* frequency_response (see Frequency Response Chart). This
 linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the
 frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- Ax,y,z; Bx,y,z; Cx,y,z; VRx,y,z:A,B,C are numerical linearization parameters assessed based on the
 data of power sweep for specific modulation signal. The parameters do not depend on frequency nor
 media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f≤800MHz) and inside waveguide using analytical field distributions based on power measurements for f >800MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from±50MHz to±100MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the
 probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Certificate No:Z22-60223

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SAR Test Report





Report No.: R2209A0873-S1V2

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2117 E-mail: cttl@chinattl.com http://www.caict.ac.cn

DASY/EASY – Parameters of Probe: EX3DV4 – SN: 3677

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
$Norm(\mu V/(V/m)^2)^A$	0.42	0.46	0.41	±10.0%
DCP(mV) ⁸	100.5	102.7	102.8	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	С	dB	VR mV	Max Dev.	Max Unc ^E (k=2)
0	cw	X	0.0	0.0	1.0	0.00	150.8	±2.2%	±4.7%
		Y	0.0	0.0	1.0		161.2		
		Z	0.0	0.0	1.0		150.4		
10352-AAA	Pulse Waveform (200Hz, 10%)	X	1.64	60.07	6.04		60	±4.8%	±9.6%
	Care have a service of a solution	Y	1.81	60.93	6.48	10.00	60		1.5
		Z	1.71	60.22	6.24	20000	60		
10353-AAA	Pulse Waveform (200Hz, 20%)	X	1.21	60.00	5.26		80	±2.9%	±9.6%
		Y	1.14	60.00	5.34	6.99	80	22.547	
	I have been a second as a first	Z	1.24	60.00	5.39	A	80		
10354-AAA	Pulse Waveform (200Hz, 40%)	X	0.78	60.00	4.62		95	±1.6%	±9.6%
	a real designation of the control of	Y	0.74	60.00	4.64	3.98	95		
		Z	0.80	60.00	4.79		95		
10355-AAA	Pulse Waveform (200Hz, 60%)	X	0.51	60.00	3.94	2.22	120	±1.4%	±9.6%
		Y	0.47	60.00	4.02		120		
		Z	0.51	60.00	4.20	100	120		
10387-AAA	QPSK Waveform, 1 MHz	X	1.24	63.61	12.00		150	±3.1%	±9.6%
	ar and seminarity of more	Y	1.42	66.07	13.87	1.00	150		
		Z	1.27	65.09	12.91		150		
10388-AAA	QPSK Waveform, 10 MHz	X	1.77	65.04	13.47	505	150	±1.5%	±9.6%
015511103	B-8-1-17 - 5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Y	1.97	67.16	15.01	0.00	150	N. Carl	1
		Z	1.81	66.06	14.28	47.41	150		
10396-AAA	64-QAM Waveform, 100 kHz	X	2.27	67.24	17.73		150	±0.9%	±9.6%
15100000	4.5-4.00 500-500-000 000 000	Y	2.50	69.43	19.12	3.01	150		100
	The second second	Z	2.22	67.67	18.11		150		
10414-AAA	WLAN CCDF, 64-QAM, 40MHz	X	4.59	65.39	15.13	100	150	±3.7%	±9.6%
12.75 87.7 2.2	was about a survival of the	Y	4.67	65.83	15.53	0.00	150		1
	and the same of th	Z	4.55	65.64	15.34		150		

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

Certificate No:Z22-60223

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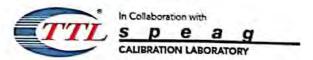
A The uncertainties of Norm X, Y, Z do not affect the E2-field uncertainty inside TSL (see Page 5).

^B Numerical linearization parameter: uncertainty not required.

E Uncertainly is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



SAR Test Report





Report No.: R2209A0873-S1V2

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2117
E-mail: cttl@chinattl.com http://www.caict.ac.cn

DASY/EASY - Parameters of Probe: EX3DV4 - SN: 3677

Sensor Model Parameters

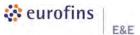
	C1 fF	C2 fF	a V-1	T1 ms.V-2	T2 ms.V ⁻¹	T3 ms	T4 V-2	T5 V-1	T6
X	31.29	236.58	35.88	18.80	0.00	4.90	0.00	0.26	1.02
Y	31.84	237.52	35.33	17.20	0.00	4.90	0.23	0.24	1.02
Z	27.77	207.22	35.23	19.61	0.00	4.90	0.18	0.18	1.02

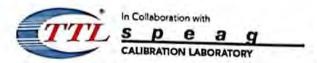
Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	117.3
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	9mm
Tip Diameter	2.5mm
Probe Tip to Sensor X Calibration Point	1mm
Probe Tip to Sensor Y Calibration Point	1mm
Probe Tip to Sensor Z Calibration Point	1mm
Recommended Measurement Distance from Surface	1.4mm

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3677

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
750	41.9	0.89	9.63	9.63	9.63	0.16	1.35	±12.1%
835	41.5	0.90	9.34	9.34	9.34	0.14	1,46	±12.1%
1750	40.1	1.37	8.25	8.25	8.25	0,26	1.06	±12.1%
1900	40.0	1.40	7.84	7.84	7.84	0.27	1.05	±12.1%
2000	40.0	1.40	7.92	7.92	7.92	0.21	1.27	±12.1%
2300	39.5	1.67	7.76	7.76	7,76	0.65	0.67	±12.1%
2450	39.2	1.80	7.46	7.46	7.46	0.64	0.70	±12.1%
2600	39.0	1.96	7.27	7.27	7.27	0.65	0.68	±12.1%
3300	38.2	2.71	7.02	7.02	7.02	0.45	0.92	±13.3%
3500	37.9	2.91	6.90	6.90	6.90	0.44	0.96	±13.3%
3700	37.7	3.12	6.64	6.64	6.64	0.44	1.01	±13.3%
3900	37.5	3.32	6.58	6.58	6.58	0.40	1.25	±13.3%
4100	37,2	3.53	6.60	6.60	6.60	0.40	1.15	±13.3%
4400	36.9	3.84	6.40	6.40	6.40	0.40	1.25	±13.3%
4600	36.7	4.04	6.31	6.31	6.31	0.45	1.25	±13.3%
4800	36.4	4.25	6.26	6.26	6.26	0.50	1.20	±13.3%
4950	36.3	4.40	6.03	6.03	6.03	0.45	1.30	±13.3%
5250	35.9	4.71	5.48	5.48	5.48	0.50	1.20	±13.3%
5600	35.5	5.07	4.97	4.97	4.97	0.50	1.30	±13.3%
5750	35.4	5.22	5.00	5.00	5.00	0.50	1.32	±13.3%

^c Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

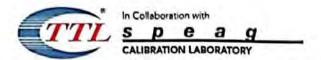
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F At frequency below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than \pm 1% for frequencies below 3 GHz and below \pm 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

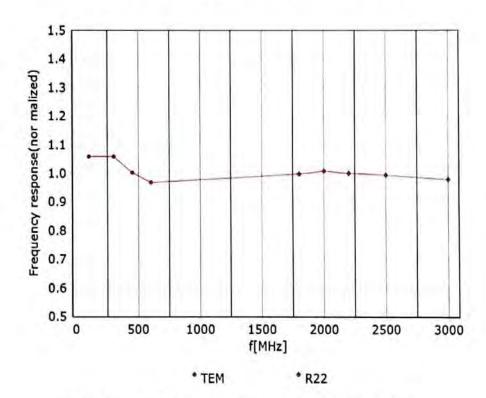






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Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ±7.4% (k=2)

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SAR Test Report





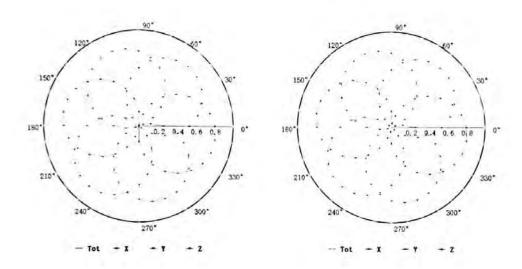
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E-mail: cttl@chinattl.com http://www.caict.ac.cn

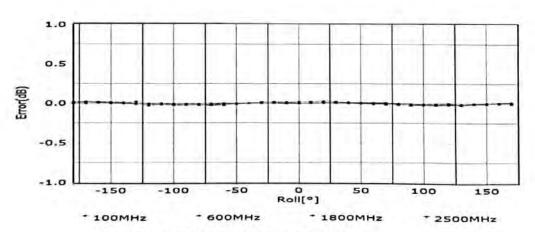
CALIBRATION LABORATORY

Receiving Pattern (Φ), θ=0°

f=600 MHz, TEM

f=1800 MHz, R22

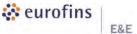


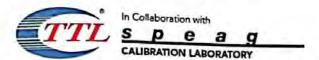


Uncertainty of Axial Isotropy Assessment: ±1.2% (k=2)

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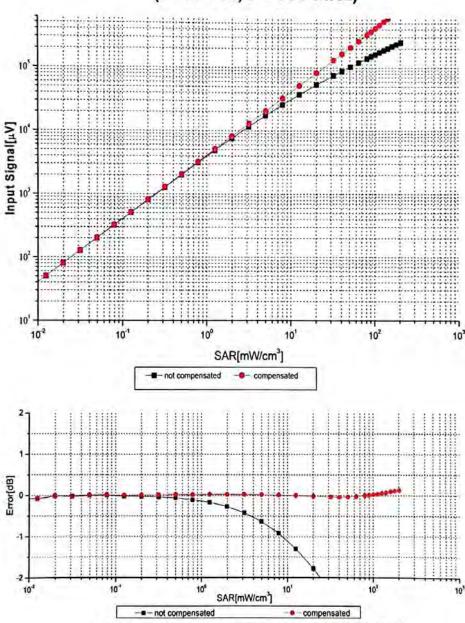






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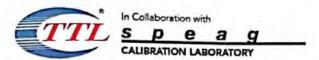
Dynamic Range f(SAR_{head}) (TEM cell, f = 900 MHz)



Uncertainty of Linearity Assessment: ±0.9% (k=2)

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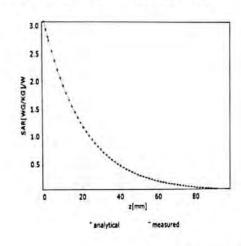


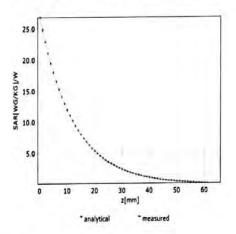
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Conversion Factor Assessment

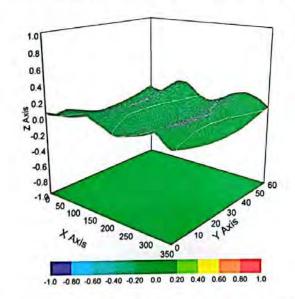
f=750 MHz,WGLS R9(H_convF)

f=1750 MHz,WGLS R22(H_convF)





Deviation from Isotropy in Liquid

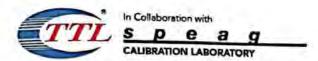


Uncertainty of Spherical Isotropy Assessment: ±3.2% (k=2)

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Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	UncE (k=2)
0		CW	cw	0.00	±4.7%
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	±96%
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6%
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±96%
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10029	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	1.87	±96%
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6 %
	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	4.53	±9.6 %
10034			Bluetooth	3.83	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	8.01	±9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	4.77	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.10	±9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)		4.57	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000 AMPS	7.78	±9.6%
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)			
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6%
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6%
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6%
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8,68	±9.6 %
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6 %
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6%
10065	CAD	IEEE 802 11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAD	IEEE 802 11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6%
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6%
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9,6%
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6%
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6%
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.69
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±96%
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.69
	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±969
10097	DAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±969
10098	CAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±969
10099		LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.69
10100	CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6 %

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