

TEST REPORT

Reference No..... : WTX21X08085117W
FCC ID : 2AUY9-S2II
Applicant : A-ELEKTRONIK D.O.O.
Address : HINKA WUERTHA 12, 10000 ZAGREB, CROATIA
Product Name : SPRINTSHIELD
Test Model. : S2II
FCC Part 2.1093
Standards : ANSI / IEEE C95.1 : 2005+A1:2010
ANSI / IEEE C95.3 : 2002(R2008)
IEEE 1528 :2013
Date of Receipt sample : Aug. 18, 2021
Date of Test..... : Aug. 18, 2021 to Sept. 10, 2021
Date of Issue : Sept. 10, 2021
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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1. General Information

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: A-ELEKTRONIK D.O.O.
Address of applicant: HINKA WUERTHA 12, 10000 ZAGREB, CROATIA

Manufacturer: A-ELEKTRONIK D.O.O.
Address of manufacturer: HINKA WUERTHA 12, 10000 ZAGREB, CROATIA

General Description of EUT:	
Product Name:	SPRINTSHIELD
Brand Name:	SPRINTSHIELD
Model No.:	S2II
Adding Model(s):	/
Rated Voltage:	DC 3.8V
Battery:	/
Software Version:	V05
Hardware Version:	DVT2
<i>Note: The test data is gathered from a production sample provided by the manufacturer.</i>	

Technical Characteristics of EUT:	
2G	
Support Networks:	GSM, GPRS
Support Band:	GSM850/PCS1900
Uplink Frequency:	GSM/GPRS 850: 824~849MHz GSM/GPRS 1900: 1850~1910MHz
Downlink Frequency:	GSM/GPRS 850: 869~894MHz GSM/GPRS 1900: 1930~1990MHz
RF Output Power:	GSM850: 33.88dBm, GSM1900: 28.86dBm
Type of Modulation:	GMSK
Type of Antenna:	Integral Antenna
Antenna Gain:	GSM850: -6.12dBi; GSM1900: 0.15dBi
GPRS Class:	Class 12
3G	
Support Networks:	WCDMA, HSDPA, HSUPA
Support Band:	WCDMA Band 4, WCDMA Band 5
Uplink Frequency:	WCDMA Band 4: 1710-1755MHz WCDMA Band 5: 824~849MHz
Downlink Frequency:	WCDMA Band 4: 2110-2155MHz WCDMA Band 5: 869~894MHz
RF Output Power:	WCDMA Band 4: 21.09dBm, WCDMA Band 5: 22.47dBm
Type of Modulation:	BPSK
Antenna Type:	Integral Antenna
Antenna Gain:	WCDMA Band 4: -1.48dBi, WCDMA Band 5: -6.12dBi
4G	
Support Networks:	FDD-LTE
Support Band:	FDD-LTE Band 2, 4, 5, 7, 25, 66
Uplink Frequency:	FDD-LTE Band 2: Tx: 1850-1910MHz, FDD-LTE Band 4: Tx: 1710-1755MHz, FDD-LTE Band 5: Tx: 824-849MHz, FDD-LTE Band 7: Tx: 2500-2570MHz, FDD-LTE Band 25: Tx: 1850-1915MHz, FDD-LTE Band 66: Tx: 1710-1780MHz
Downlink Frequency:	FDD-LTE Band 2: Rx: 1930-1990MHz, FDD-LTE Band 4: Rx: 2110-2155MHz, FDD-LTE Band 5: Rx: 869-894MHz, FDD-LTE Band 7: Rx: 2620-2690MHz, FDD-LTE Band 25: Rx: 1930-1995MHz, FDD-LTE Band 66: Rx: 2110-2200MHz
RF Output Power:	FDD-LTE Band 2: 23.56dBm, FDD-LTE Band 4: 22.85dBm, FDD-LTE Band 5: 23.62dBm, FDD-LTE Band 7: 22.58dBm,

	FDD-LTE Band 25: 22.17dBm, FDD-LTE Band 66: 23.0dBm
Type of Modulation:	QPSK, 16QAM
Antenna Type:	Integral Antenna
Antenna Gain:	FDD-LTE Band 2: 0.15dBi, FDD-LTE Band 4: -1.48dBi, FDD-LTE Band 5: -6.12dBi, FDD-LTE Band 7: 0.89dBi, FDD-LTE Band 25: 0.04dBi , FDD-LTE Band 66: -1.48dBi
WIFI(2.4G)	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz for 802.11b/g/n-HT20 2422-2452MHz for 802.11n-HT40
RF Output Power:	8.468dBm (Conducted)
Type of Modulation:	DBPSK,BPSK,DQPSK,QPSK,16QAM,64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels:	11 for 802.11b/g/n-HT20; 7 for 802.11n-HT40
Channel Separation:	5MHz
Antenna Type:	Integral Antenna
Antenna Gain:	1.73dBi
WIFI(5G)	
Support Standards:	802.11a, 802.11n(HT20), 802.11n-HT40, 802.11ac-HT80
Frequency Range:	5150-5250MHz, 5725-5850MHz
RF Output Power:	5150-5250MHz: 7.341dBm (Conducted) 5725-5850MHz: 7.265dBm (Conducted)
Type of Modulation:	BPSK,QPSK, 16QAM, 64QAM, 256-QAM
Type of Antenna:	Integral Antenna
Antenna Gain:	1.73dBi
Bluetooth	
Bluetooth Version:	Bluetooth V5.0
Frequency Range:	2402-2480MHz
RF Output Power:	2.776dBm (Conducted)
Data Rate:	1Mbps, 2Mbps, 3Mbps
Modulation:	GFSK, Pi/4 QDPSK, 8DPSK
Quantity of Channels:	79/40
Channel Separation:	1MHz/2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	1.73dBi

1.2 Test Standards

The following report is accordance with FCC 47 CFR Part 2.1093, ANSI/IEEE C95.1-2005, ANSI / IEEE C95.3 :2002, IEEE 1528-2013, KDB 447498 D01 v06, KDB 648474 D04 v01r03, KDB 248227 D01 v02r02, KDB 941225 D01 v03r01, KDB 941225 D05 v02r05 , and KDB 865664 D01 v01r04 and KDB 865664 D02 v01r02.

The objective is to determine compliance with FCC Part 2.1093 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with KDB 865664 D01 v01r04 and KDB 865664 D02 v01r02. The public notice KDB 447498 D01 v06 for Mobile and Portable Devices RF Exposure Procedure also.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010.Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

2. Summary of Test Results

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

Frequency Band	Body-worn (0mm Gap)	Hotspot SAR (0mm Gap)	SAR _{1g} Limit (W/kg)
	Maximum SAR _{1g} (W/kg)	Maximum SAR _{1g} (W/kg)	
GSM	0.776	0.769	1.6
WCDMA	0.863	0.863	1.6
LTE	0.973	0.973	1.6
Simultaneous Transmission	1.332	1.145	1.6

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2.1093 and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedure specified in IEEE 1528-2013 and KDB 865664 D01 v01r04 and KDB 865664 D02 v01r02

3. Specific Absorption Rate (SAR)

3.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

3.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

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

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

SAR measurement can be either related to the temperature elevation in tissue by

$$\text{SAR} = C \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

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

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

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

4. SAR Measurement System

4.1 The Measurement System

Comosar is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The Comosar system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

4.2 Probe

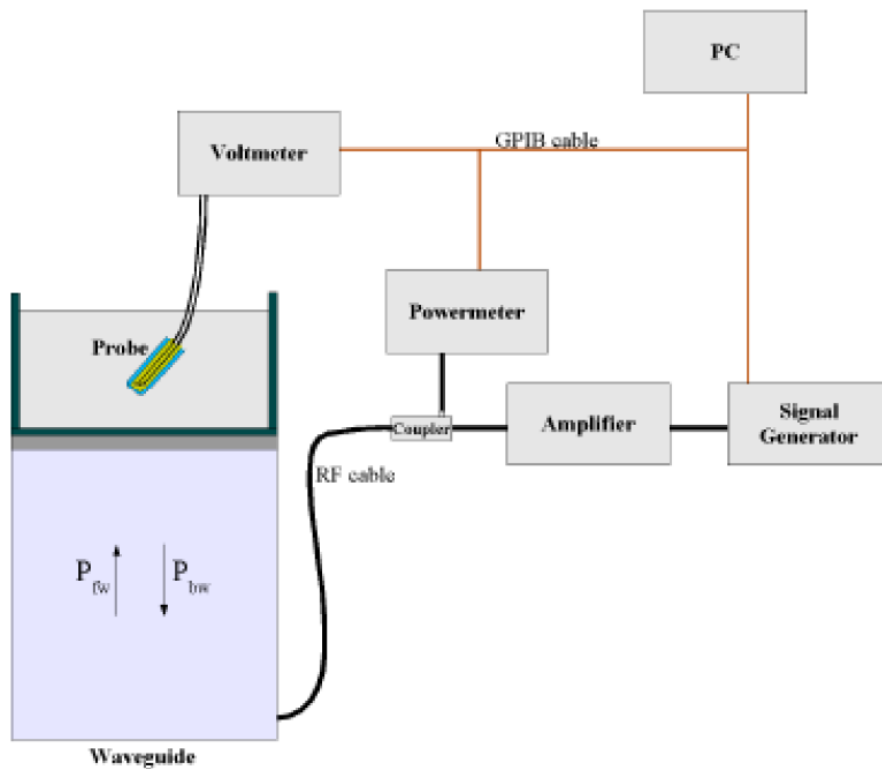
For the measurements the Specific Dosimetric E-Field Probe SSE2 SN 45/15 EPGO280 with following specifications is used

- Dynamic range: 0.01-100 W/kg
- Probe Length: 330 mm
- Length of Individual Dipoles: 4.5 mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter : 5 mm

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- Distance between dipoles / probe extremity: 2.7mm
 - Probe linearity: <0.25 dB
 - Axial Isotropy: <0.25 dB
 - Spherical Isotropy: <0.50 dB
 - Calibration range: 700 to 3000MHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°

Probe calibration is realized, in compliance with EN 62209-1 and IEEE 1528 STD, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1 annexe technique using reference guide at the five frequencies.



$$SAR = \frac{4(P_{fw} - P_{bw})}{ab\delta} \cos^2\left(\pi \frac{y}{a}\right) e^{-(2z/\delta)}$$

Where :

P_{fw} = Forward Power

P_{bw} = Backward Power

a and b = Waveguide dimensions

δ = Skin depth

Keithley configuration:

Rate = Medium; Filter = ON; RDGS = 10; Filter type = Moving Average; Range auto after each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it.

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The calibration factors, CF(N), for the 3 sensors corresponding to dipole 1, dipole 2 and dipole 3 are:

$$CF(N)=SAR(N)/V_{lin}(N) \quad (N=1,2,3)$$

The linearised output voltage $V_{lin}(N)$ is obtained from the displayed output voltage $V(N)$ using

$$V_{lin}(N)=V(N)*(1+V(N)/DCP(N)) \quad (N=1,2,3)$$

where DCP is the diode compression point in mV.

4.3 Probe Calibration Process

Dosimetric Assessment Procedure

Each E-Probe/Probe Amplifier combination has unique calibration parameters. SATIMO Probe calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm²) using an with CALISAR, Antenna proprietary calibration system.

Free Space Assessment Procedure

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or other methodologies 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 rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1mW/cm².

Temperature Assessment Procedure

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

Where:

$$SAR = C \frac{\Delta T}{\Delta t}$$

Δt = exposure time (30 seconds),

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

ΔT = temperature increase due to RF exposure.

SAR is proportional to $\Delta T / \Delta t$, the initial rate of tissue heating, before thermal diffusion takes place. The electric field in the simulated tissue can be used to estimate SAR by equating the thermally derived SAR to that with the E- field component.

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

Where:

σ = simulated tissue conductivity,

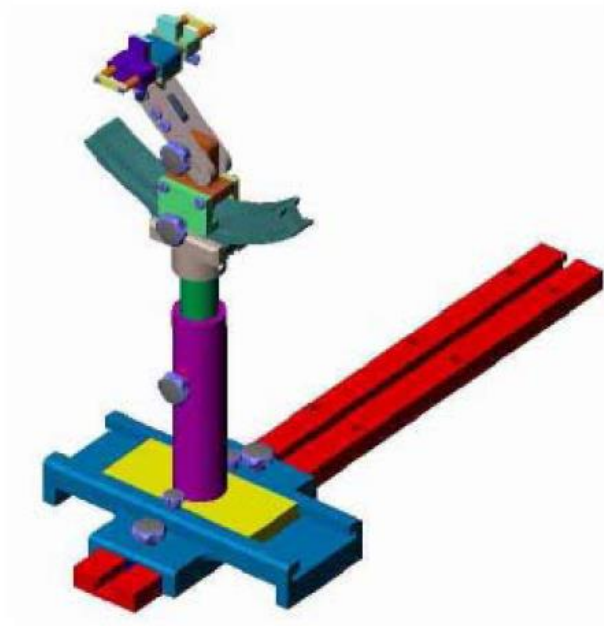
ρ = Tissue density (1.25 g/cm³ for brain tissue)

4.4 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

4.5 Device Holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1 °.



System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005

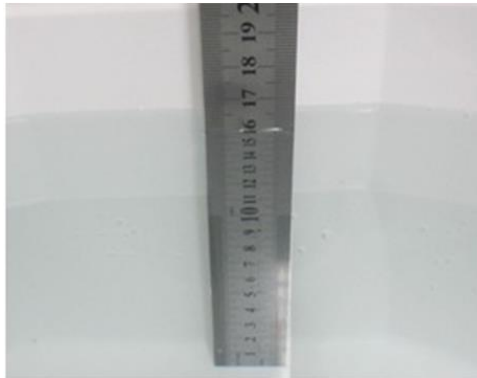
4.6 Test Equipment List

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
E-Field Probe	MVG	SSE5	SN 09/13 EP168	2020-05-22	2022-05-21
E-Field Probe	MVG	SSE2	SN 18/21 EPG0356	2021-07-16	2024-07-15
835MHz Dipole	MVG	SID835	SN 47/12 DIP 0G835-204	2020-03-11	2022-03-10
1800MHz Dipole	MVG	SID1800	SN 47/12 DIP 1G800-206	2020-03-11	2022-03-10
1900MHz Dipole	MVG	SID1900	SN 47/12 DIP 1G900-207	2020-03-11	2022-03-10
2450MHz Dipole	MVG	SID2450	SN 13/15 DIP 2G450-364	2020-03-11	2022-03-10
2600MHz Dipole	MVG	SID2600	SN 28/21 DIP 2G600-590	2021-07-16	2024-07-15
3300MHz Dipole	MVG	SID3300	SN 28/21 DIP 3G300-591	2021-07-19	2024-07-18
3500MHz Dipole	MVG	SID3500	SN 28/21 DIP 3G500-592	2021-07-19	2024-07-18
3700MHz Dipole	MVG	SID3700	SN 28/21 DIP 3G700-593	2021-07-19	2024-07-18
3900MHz Dipole	MVG	SID3900	SN 28/21 DIP 3G900-594	2021-07-19	2024-07-18
4200MHz Dipole	MVG	SID4200	SN 28/21 DIP 4G200-595	2021-07-19	2024-07-18
4600MHz Dipole	MVG	SID4600	SN 28/21 DIP 4G600-596	2021-07-19	2024-07-18
4900MHz Dipole	MVG	SID4900	SN 28/21 DIP 4G900-597	2021-07-19	2024-07-18
5 GHz Dipole	MVG	SID5000	SN 28/21 DIP 5G000-543	2021-07-21	2024-07-20
Dielectric Probe	SATIMO	SCLMP	SN 47/12 OCPG49	2020-03-11	2022-03-10
SAM Phantom	SATIMO	SAM	SN/ 47/12 SAM95	N/A	N/A
Multi Meter	Keithley	Keithley 2000	4006367	2021-03-27	2022-03-26
Power meter	Keithley	3500	JC-2017-09-001	2021-03-27	2022-03-26
Power meter	Keithley	3500	JC-2017-09-001	2021-03-27	2022-03-26
Power Sensor	Agilent	11636B	JC-2017-10-002	2021-03-27	2022-03-26
Signal Generator	Rohde & Schwarz	SMR20	100047	2021-03-27	2022-03-26
Universal Tester	Rohde & Schwarz	CMU200	112315	2021-03-27	2022-03-26
Communications Tester	Rohde & Schwarz	CMW500	148650	2021-03-27	2022-03-26
Network Analyzer	HP	8753C	SEMT-1064	2021-03-27	2022-03-26
Directional Couplers	Agilent	778D	20160	2021-03-27	2022-03-26

5. Tissue Simulating Liquids

5.1 Composition of Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with SMTIMO, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. Please see the following photos for the liquid height.



Liquid Height for Head/Body SAR

The Composition of Tissue Simulating Liquid

Frequency (MHz)	Water (%)	Salt (%)	Sugar (%)	HEC (%)	Preventol (%)	DGBE (%)
Head/Body						
750	41.1	1.4	57.0	0.2	0.3	0
835	40.3	1.4	57.9	0.2	0.2	0
1700-1900	55.2	0.3	0	0	0	44.5
2450	55.0	0.1	0	0	0	44.9
2600	54.9	0.1	0	0	0	45.0

5.2 Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Target Frequency (MHz)	Head		Body	
	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity (σ)	Permittivity (ϵ_r)
150	0.76	52.3	0.80	61.9
300	0.87	45.3	0.92	58.2
450	0.87	43.5	0.94	56.7
750	0.89	41.9	0.96	55.5
835	0.90	41.5	0.97	55.2
900	0.97	41.5	1.05	55.0
915	0.98	41.5	1.06	55.0
1450	1.20	40.5	1.30	54.0
1610	1.29	40.3	1.40	53.8
1750	1.37	40.1	1.49	53.4
1800-2000	1.40	40.0	1.52	53.3
2450	1.80	39.2	1.95	52.7
3000	2.40	38.5	2.73	52.0

5.3 Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using COMOSAR Dielectric Probe Kit and an Agilent Network Analyzer.

Calibration Result for Dielectric Parameters of Tissue Simulating Liquid

Head Tissue Simulating Liquid									
Freq. MHz.	Temp. (°C)	Conductivity			Permittivity			Limit (%)	Date
		Reading (σ)	Target (σ)	Delta (%)	Reading (ϵ_r)	Target (ϵ_r)	Delta (%)		
750	22.2	0.86	0.89	-3.37	41.02	41.90	-2.10	±5	2021-08-27
835	22.2	0.88	0.90	-2.22	40.75	41.50	-1.81	±5	2021-08-31
1750	21.3	1.37	1.37	0.00	39.02	40.1	-2.69	±5	2021-09-10
1800	22.2	1.38	1.40	-1.43	39.43	40.00	-1.43	±5	2021-09-10
1900	22.2	1.39	1.40	-0.71	39.06	40.00	-2.35	±5	2021-09-10
2600	22.2	1.97	1.96	0.51	37.93	39.0	-2.74	±5	2021-08-27

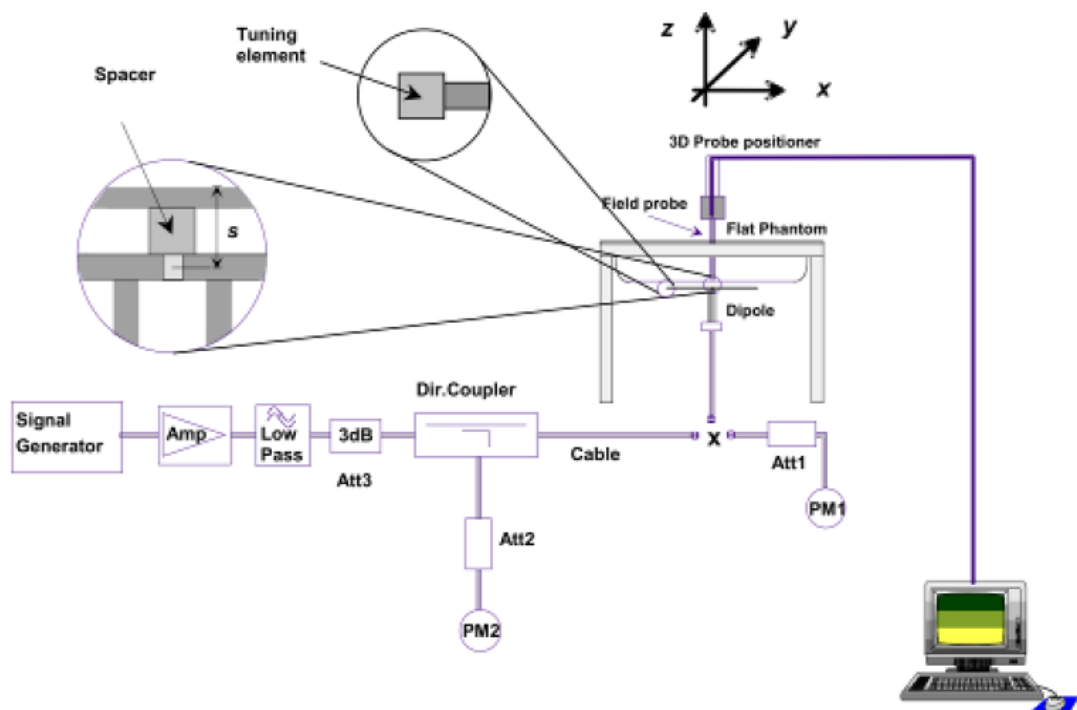
6. SAR Measurement Evaluation

6.1 Purpose of System Performance Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

6.2 System Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave which comes from a signal generator at frequency 835MHz, 1800MHz, 1900MHz, 2450MHz, 2600MHz, and 5GHz. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom.



System Verification Setup Block Diagram



Setup Photo of Dipole Antenna

The output power on dipole port must be calibrated to 24 dBm(250 mW) before dipole is connected.

The output power on 5 GHz Waveguide must be calibrated to 20 dBm (100mW) before 5 GHz Waveguide is connected.

6.3 Validation Results

Comparing to the original SAR value provided by SATIMO, the validation data should be within its specification of 10 %. Table 6.1 shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion.

Frequency	Targeted SAR _{1g}	Measured SAR _{1g}	Normalized SAR _{1g}	Tolerance	Date
MHz	(W/kg)	(W/kg)	(W/kg)	(%)	
Body					
750	8.40	2.18	8.72	3.81	2021-08-27
835	9.65	2.51	10.04	4.04	2021-08-31
1800	38.49	9.46	37.84	-1.69	2021-09-10
1900	39.59	9.91	39.64	0.13	2021-09-10
2600	55.70	13.54	54.16	-1.65	2021-08-27

Remark: Referring to IEEE 1528-2013, Section 8.2, The system check shall be performed at a test frequency that is within $\pm 10\%$ or ± 100 MHz of the compliance test mid-band frequency, so the 1750 MHz system verification is made of 1800MHz Dipole.

Targeted and Measurement SAR

Please refer to Annex A for the plots of system performance check.

7. EUT Testing Position

7.1 Define Two Imaginary Lines on The Handset

- (a) The vertical centerline passes through two points on the front side of the handset - the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.
- (b) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.

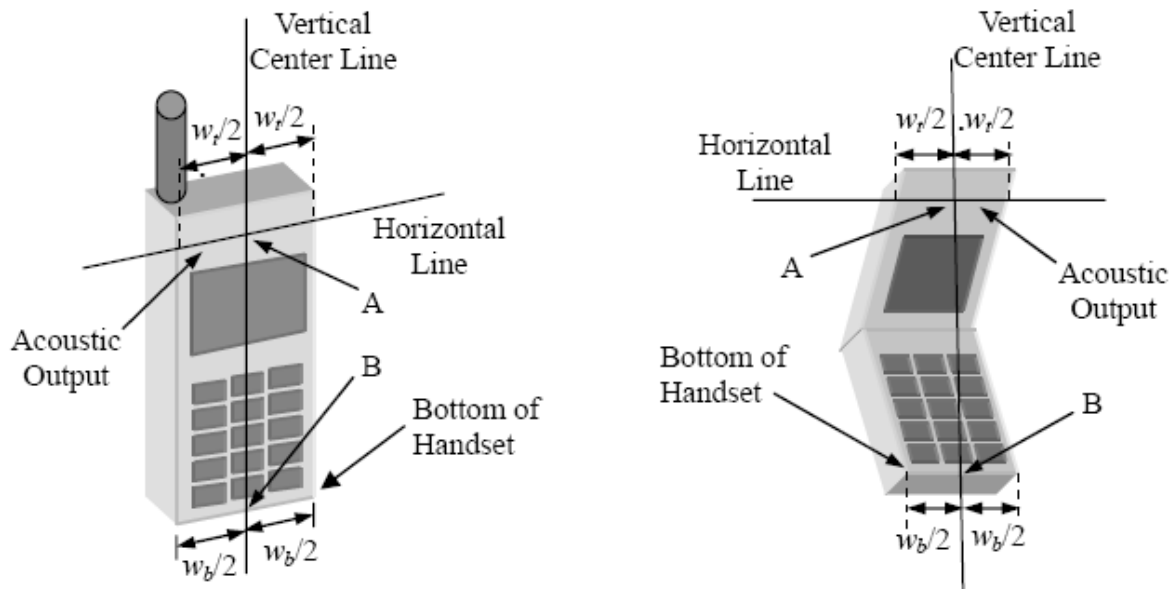


Illustration for Handset Vertical and Horizontal Reference Lines

7.2 Cheek Position

- (a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- (b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see Fig. 7.2).

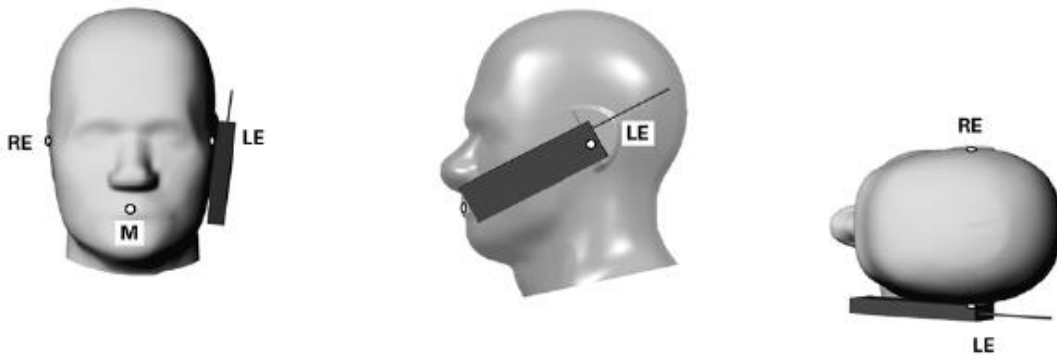


Illustration for Cheek Position

7.3 Tilted Position

- (a) To position the device in the “cheek” position described above.
- (b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see Fig. 7.3).

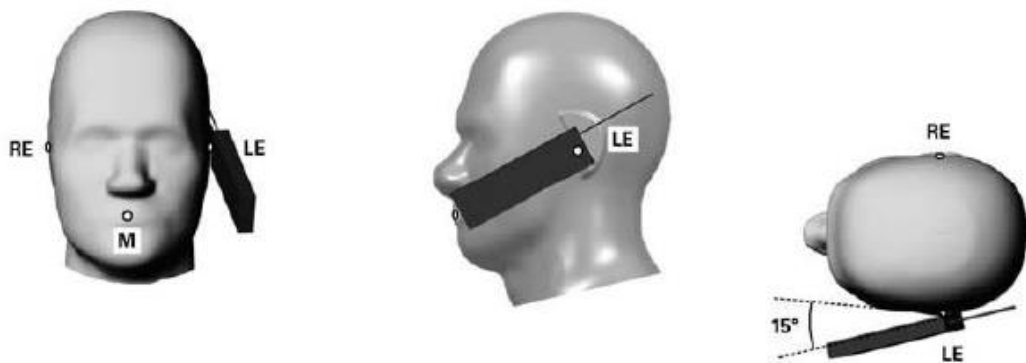


Illustration for Tilted Position

7.4 Body Position

- (a) To position the device parallel to the phantom surface with each side.
- (b) To adjust the device parallel to the flat phantom.
- (c) To adjust the distance between the device surface and the flat phantom to 0mm.

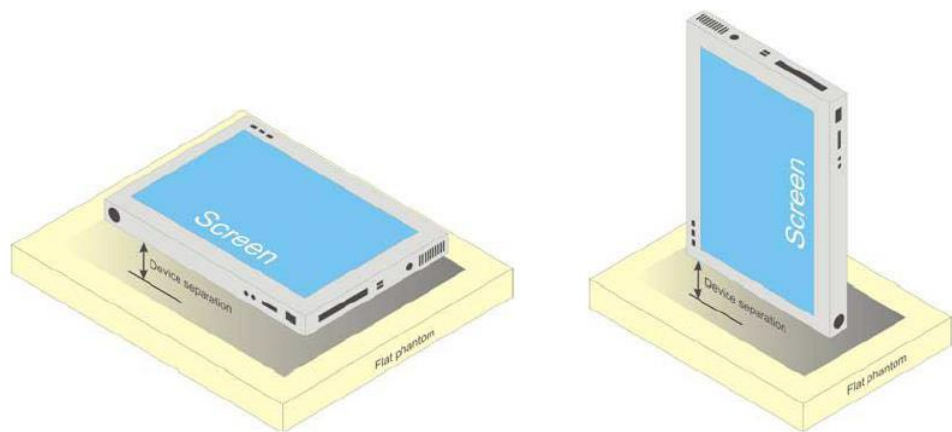
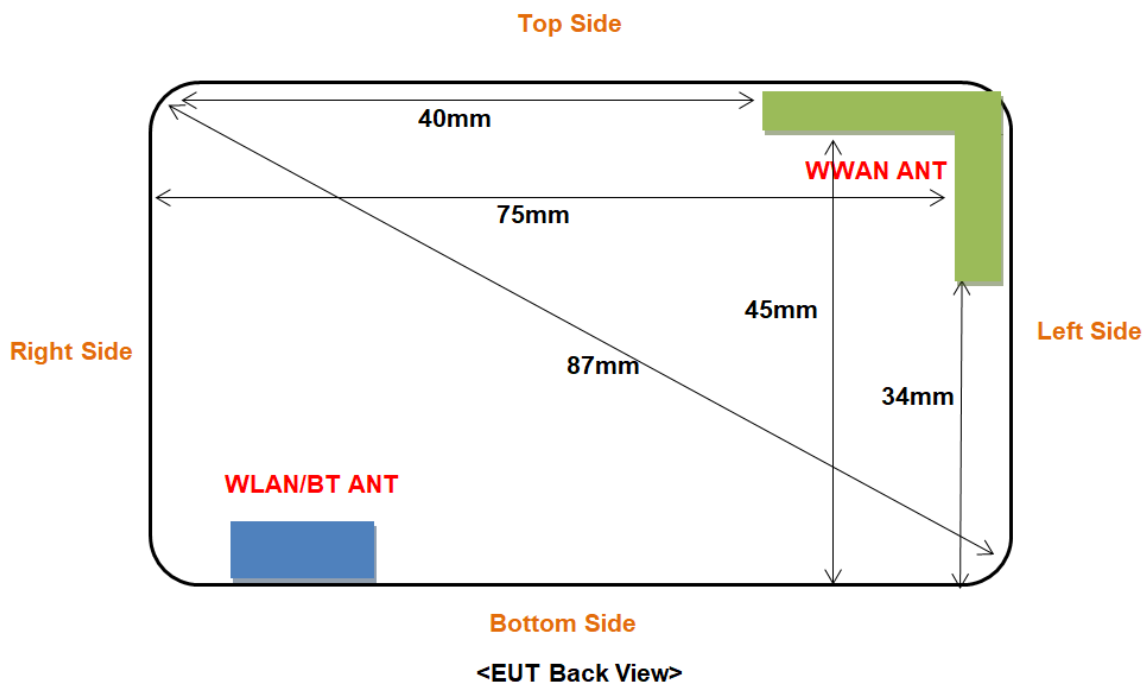


Illustration for Body Position

7.5 EUT Antenna Position



Block Diagram for EUT Antenna Position

Distance of EUT antenna-to-edge/surface(mm), Test distance:0mm						
Antennas	Back side	Front side	Left Edge	Right Edge	Top Edge	Bottom Edge
WWAN	<25	<25	<25	140	<25	34

7.6 EUT Testing Position

Body mode SAR assessments are required for this device. This EUT was tested in different positions for different SAR test modes, more information as below:

Body SAR tests, Test distance: 0mm						
Antennas	Front	Back	Left Edge	Right Edge	Top Side	Bottom Side
WWAN	Yes	Yes	Yes	No	Yes	No

Remark:

1. Referring to KDB 941225 D06, when the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, the test separation distances is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
2. Referring to KDB 648474 D04 Handset SAR v01r03, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2 \text{ W/kg}$

Please refer to Annex D for the EUT test setup photos.

8. SAR Measurement Procedures

8.1 Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the highest power channel.
- (b) Keep EUT to radiate maximum output power or 100% factor (if applicable)
- (c) Measure output power through RF cable and power meter.
- (d) Place the EUT in the positions as Annex D demonstrates.
- (e) Set scan area, grid size and other setting on the SATIMO software.
- (f) Measure SAR results for the highest power channel on each testing position.
- (g) Find out the largest SAR result on these testing positions of each band
- (h) Measure SAR results for other channels in worst SAR testing position if the SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

8.2 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The SATIMO software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine. The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

8.3 Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan measures 5x5x7 points with step size 8, 8 and 5 mm for 300 MHz to 3 GHz, and 8x8x8 points with step size 4, 4 and 2.5 mm for 3 GHz to 6 GHz. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g.

8.4 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 (step-size is 4, 4 and 2.5 mm). When all volume scan were completed, the software can combine and subsequently superpose these measurement data to calculating the multiband SAR.

8.5 SAR Averaged Methods

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimize measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10g and 1 g requires a very fine resolution in the three dimensional scanned data array.

8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In SATIMO 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 drift more than 5%, the SAR will be retested.

9. SAR Test Result

9.1 Conducted RF Output Power

GSM - Burst Average Power (dBm)								
Band	GSM850			Tune-up power (dBm)	PCS1900			Tune-up power (dBm)
Channel	128	190	251		512	661	810	
Frequency (MHz)	824.2	836.6	848.8		1850.2	1880	1909.8	
GSM	33.61	33.79	33.55	34.0	28.86	28.45	28.40	29.0
GPRS (1 slot)	33.72	33.88	33.64	34.0	28.83	28.49	28.41	29.0
GPRS (2 slots)	33.15	33.28	33.04	33.5	28.15	28.07	28.36	28.5
GPRS (3 slots)	33.04	33.07	33.18	33.5	28.01	28.04	28.33	28.5
GPRS (4 slots)	32.98	32.87	32.93	33.0	27.69	27.98	27.84	28.0

GSM - Source-Based Time-Average Power (dBm)								
Band	GSM850			Tune-up power (dBm)	PCS1900			Tune-up power (dBm)
Channel	128	190	251		512	661	810	
Frequency (MHz)	824.2	836.6	848.8		1850.2	1880	1909.8	
GSM	24.61	24.79	24.55	25.0	19.86	19.45	19.40	20.0
GPRS (1 slot)	24.72	24.88	24.64	25.0	19.83	19.49	19.41	20.0
GPRS (2 slots)	27.15	27.28	27.04	27.5	22.15	22.07	22.36	22.5
GPRS (3 slots)	28.79	28.82	28.93	29.0	23.76	23.79	24.08	24.5
GPRS (4 slots)	29.98	29.87	29.93	29.0	24.69	24.98	24.84	25.0

Note: The source-based time-averaged power is linearly scaled the maximum burst averaged power based on time slots. The calculated method are shown as below:

Source based time-average power = Burst averaged power - Duty cycle factor in dB

Duty cycle factor = 9 dB for 1 Tx slot, 6 dB for 2 Tx slots, 4.25 dB for 3 Tx slots, 3 dB for 4 Tx slots

Remark:

1. For Head SAR testing, GSM should be evaluated, therefore the EUT was set in GSM for GSM850 and GSM1900 due to its highest source-based time-average power.
2. For Body SAR testing, GPRS should be evaluated, therefore the EUT was set in GPRS (2TX slots) for GSM850 and GPRS (3TX slots) for GSM1900 due to its highest source-based time-average power.
3. Per KDB 447498 D01 v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
4. The DUT do not support DTM function.
5. The DUT do not support Hotspot function.

WCDMA - Average Power (dBm)								
Band	WCDMA Band IV				WCDMA Band V			
Channel	1312	1412	1513	Tune-up power (dBm)	4132	4183	4233	Tune-up power (dBm)
Frequency (MHz)	1712.4	1732.4	1752.6		826.4	836.4	846.6	
RMC 12.2k	21.09	21.00	20.82	21.5	22.47	22.38	22.43	22.5
HSDPA Subtest-1	20.03	20.02	19.84	20.5	21.39	21.34	21.35	21.5
HSDPA Subtest-2	19.65	19.58	19.48	20.0	21.05	21.14	21.07	21.5
HSDPA Subtest-3	19.36	19.41	19.33	19.5	20.98	20.91	20.47	21.0
HSDPA Subtest-4	19.04	19.33	19.25	19.5	20.58	20.45	20.36	21.0
HSUPA Subtest-1	19.64	19.55	19.44	20.0	21.02	20.94	20.93	21.5
HSUPA Subtest-2	19.04	19.41	19.32	19.5	20.69	20.54	20.36	21.0
HSUPA Subtest-3	19.00	19.35	19.04	19.5	20.04	19.47	19.87	20.5
HSUPA Subtest-4	18.65	18.94	18.87	19.0	19.58	19.58	19.64	20.0
HSUPA Subtest-5	18.74	18.57	18.69	19.0	19.04	19.36	19.02	19.5

Remark:

1. Per KDB 941225 D01 v03, the 12.2kbps RMC mode was selected for SAR testing (the primary mode).
2. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	23.15	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.25	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.10	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	23.19	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	23.20	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	22.66	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.73	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.97	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.08	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.97	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	22.90	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	22.59	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	22.55	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.61	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.89	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.03	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.91	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	22.47	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	22.48	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	22.47	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.48	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.10	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.34	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.07	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	22.04	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	21.62	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	21.49	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.70	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.96	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.19	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.92	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	21.49	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	21.40	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	21.41	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.56	PASS

Band2	1.4MHz	16QAM	19193	1RB#0	21.83	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.03	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.33	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	21.31	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	21.28	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	21.36	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.46	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.71	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.65	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.65	PASS
Band2	3MHz	QPSK	18615	8RB#0	21.69	PASS
Band2	3MHz	QPSK	18615	8RB#4	21.66	PASS
Band2	3MHz	QPSK	18615	8RB#7	21.67	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.61	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.61	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.63	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.66	PASS
Band2	3MHz	QPSK	18900	8RB#0	21.54	PASS
Band2	3MHz	QPSK	18900	8RB#4	21.56	PASS
Band2	3MHz	QPSK	18900	8RB#7	21.56	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.53	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.41	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.41	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.45	PASS
Band2	3MHz	QPSK	19185	8RB#0	21.51	PASS
Band2	3MHz	QPSK	19185	8RB#4	21.46	PASS
Band2	3MHz	QPSK	19185	8RB#7	21.45	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.42	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.75	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.67	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.67	PASS
Band2	3MHz	16QAM	18615	8RB#0	20.67	PASS
Band2	3MHz	16QAM	18615	8RB#4	20.69	PASS
Band2	3MHz	16QAM	18615	8RB#7	20.63	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.62	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.43	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.43	PASS

Band2	3MHz	16QAM	18900	1RB#14	21.47	PASS
Band2	3MHz	16QAM	18900	8RB#0	20.53	PASS
Band2	3MHz	16QAM	18900	8RB#4	20.51	PASS
Band2	3MHz	16QAM	18900	8RB#7	20.56	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.47	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.21	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.28	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.23	PASS
Band2	3MHz	16QAM	19185	8RB#0	20.43	PASS
Band2	3MHz	16QAM	19185	8RB#4	20.46	PASS
Band2	3MHz	16QAM	19185	8RB#7	20.44	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.41	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.70	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.76	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.58	PASS
Band2	5MHz	QPSK	18625	12RB#0	21.65	PASS
Band2	5MHz	QPSK	18625	12RB#6	21.69	PASS
Band2	5MHz	QPSK	18625	12RB#13	21.65	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.64	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.43	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.63	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.56	PASS
Band2	5MHz	QPSK	18900	12RB#0	21.50	PASS
Band2	5MHz	QPSK	18900	12RB#6	21.50	PASS
Band2	5MHz	QPSK	18900	12RB#13	21.61	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.55	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.34	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.47	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.40	PASS
Band2	5MHz	QPSK	19175	12RB#0	21.36	PASS
Band2	5MHz	QPSK	19175	12RB#6	21.36	PASS
Band2	5MHz	QPSK	19175	12RB#13	21.41	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.45	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.60	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.63	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.43	PASS
Band2	5MHz	16QAM	18625	12RB#0	20.57	PASS

Band2	5MHz	16QAM	18625	12RB#6	20.57	PASS
Band2	5MHz	16QAM	18625	12RB#13	20.52	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.63	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.50	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.66	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.60	PASS
Band2	5MHz	16QAM	18900	12RB#0	20.53	PASS
Band2	5MHz	16QAM	18900	12RB#6	20.48	PASS
Band2	5MHz	16QAM	18900	12RB#13	20.57	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.53	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.29	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.42	PASS
Band2	5MHz	16QAM	19175	1RB#24	21.30	PASS
Band2	5MHz	16QAM	19175	12RB#0	20.43	PASS
Band2	5MHz	16QAM	19175	12RB#6	20.75	PASS
Band2	5MHz	16QAM	19175	12RB#13	20.45	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.45	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.72	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.83	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.41	PASS
Band2	10MHz	QPSK	18650	25RB#0	21.64	PASS
Band2	10MHz	QPSK	18650	25RB#12	21.65	PASS
Band2	10MHz	QPSK	18650	25RB#25	21.70	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.65	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.48	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.76	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.70	PASS
Band2	10MHz	QPSK	18900	25RB#0	21.51	PASS
Band2	10MHz	QPSK	18900	25RB#12	21.54	PASS
Band2	10MHz	QPSK	18900	25RB#25	21.69	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.56	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.46	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.52	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.43	PASS
Band2	10MHz	QPSK	19150	25RB#0	21.48	PASS
Band2	10MHz	QPSK	19150	25RB#12	21.52	PASS
Band2	10MHz	QPSK	19150	25RB#25	21.56	PASS

Band2	10MHz	QPSK	19150	50RB#0	21.45	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.70	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.76	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.48	PASS
Band2	10MHz	16QAM	18650	25RB#0	20.59	PASS
Band2	10MHz	16QAM	18650	25RB#12	20.60	PASS
Band2	10MHz	16QAM	18650	25RB#25	20.65	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.66	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.32	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.51	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.50	PASS
Band2	10MHz	16QAM	18900	25RB#0	20.52	PASS
Band2	10MHz	16QAM	18900	25RB#12	20.52	PASS
Band2	10MHz	16QAM	18900	25RB#25	20.68	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.56	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.31	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.32	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.20	PASS
Band2	10MHz	16QAM	19150	25RB#0	20.51	PASS
Band2	10MHz	16QAM	19150	25RB#12	20.52	PASS
Band2	10MHz	16QAM	19150	25RB#25	20.50	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.43	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.64	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.61	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.17	PASS
Band2	15MHz	QPSK	18675	38RB#0	21.63	PASS
Band2	15MHz	QPSK	18675	38RB#18	21.58	PASS
Band2	15MHz	QPSK	18675	38RB#37	21.13	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.53	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.27	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.59	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.54	PASS
Band2	15MHz	QPSK	18900	38RB#0	21.35	PASS
Band2	15MHz	QPSK	18900	38RB#18	21.67	PASS
Band2	15MHz	QPSK	18900	38RB#37	21.63	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.61	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.58	PASS

Band2	15MHz	QPSK	19125	1RB#38	22.50	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.32	PASS
Band2	15MHz	QPSK	19125	38RB#0	21.32	PASS
Band2	15MHz	QPSK	19125	38RB#18	21.33	PASS
Band2	15MHz	QPSK	19125	38RB#37	21.09	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.61	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.68	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.53	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.16	PASS
Band2	15MHz	16QAM	18675	38RB#0	21.64	PASS
Band2	15MHz	16QAM	18675	38RB#18	21.58	PASS
Band2	15MHz	16QAM	18675	38RB#37	21.21	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.47	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.36	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.69	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.67	PASS
Band2	15MHz	16QAM	18900	38RB#0	21.38	PASS
Band2	15MHz	16QAM	18900	38RB#18	21.71	PASS
Band2	15MHz	16QAM	18900	38RB#37	21.69	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.57	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.42	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.29	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.11	PASS
Band2	15MHz	16QAM	19125	38RB#0	21.38	PASS
Band2	15MHz	16QAM	19125	38RB#18	21.31	PASS
Band2	15MHz	16QAM	19125	38RB#37	21.17	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.57	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.53	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.56	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.02	PASS
Band2	20MHz	QPSK	18700	50RB#0	22.31	PASS
Band2	20MHz	QPSK	18700	50RB#25	22.32	PASS
Band2	20MHz	QPSK	18700	50RB#50	22.36	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.29	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.12	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.83	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.47	PASS

Band2	20MHz	QPSK	18900	50RB#0	21.43	PASS
Band2	20MHz	QPSK	18900	50RB#25	21.42	PASS
Band2	20MHz	QPSK	18900	50RB#50	21.69	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.55	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.45	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.67	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.13	PASS
Band2	20MHz	QPSK	19100	50RB#0	21.69	PASS
Band2	20MHz	QPSK	19100	50RB#25	21.66	PASS
Band2	20MHz	QPSK	19100	50RB#50	21.52	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.58	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.40	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.50	PASS
Band2	20MHz	16QAM	18700	1RB#99	20.91	PASS
Band2	20MHz	16QAM	18700	50RB#0	20.44	PASS
Band2	20MHz	16QAM	18700	50RB#25	20.42	PASS
Band2	20MHz	16QAM	18700	50RB#50	20.43	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.40	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.27	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.83	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.60	PASS
Band2	20MHz	16QAM	18900	50RB#0	20.48	PASS
Band2	20MHz	16QAM	18900	50RB#25	20.48	PASS
Band2	20MHz	16QAM	18900	50RB#50	20.74	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.59	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.24	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.38	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.00	PASS
Band2	20MHz	16QAM	19100	50RB#0	20.76	PASS
Band2	20MHz	16QAM	19100	50RB#25	20.75	PASS
Band2	20MHz	16QAM	19100	50RB#50	20.55	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.56	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	21.87	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	21.99	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	21.86	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	21.93	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	21.94	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	21.88	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	20.98	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.57	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.70	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.62	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	22.58	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	22.60	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	22.63	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.65	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.29	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.40	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.31	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	22.31	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	22.32	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	22.31	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.40	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	20.74	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	20.85	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	20.72	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	20.74	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	20.72	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	20.68	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.91	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.37	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.54	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.36	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	21.38	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	21.43	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.40	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.45	PASS

Band4	1.4MHz	16QAM	20393	1RB#0	21.18	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.31	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.13	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.10	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.05	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.05	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.52	PASS
Band4	3MHz	QPSK	19965	1RB#0	21.95	PASS
Band4	3MHz	QPSK	19965	1RB#8	21.95	PASS
Band4	3MHz	QPSK	19965	1RB#14	21.98	PASS
Band4	3MHz	QPSK	19965	8RB#0	20.97	PASS
Band4	3MHz	QPSK	19965	8RB#4	20.93	PASS
Band4	3MHz	QPSK	19965	8RB#7	20.97	PASS
Band4	3MHz	QPSK	19965	15RB#0	20.90	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.62	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.61	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.62	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.60	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.62	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.54	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.53	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.30	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.34	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.31	PASS
Band4	3MHz	QPSK	20385	8RB#0	21.38	PASS
Band4	3MHz	QPSK	20385	8RB#4	21.36	PASS
Band4	3MHz	QPSK	20385	8RB#7	21.38	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.31	PASS
Band4	3MHz	16QAM	19965	1RB#0	20.89	PASS
Band4	3MHz	16QAM	19965	1RB#8	20.94	PASS
Band4	3MHz	16QAM	19965	1RB#14	20.95	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.95	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.97	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.93	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.89	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.43	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.37	PASS

Band4	3MHz	16QAM	20175	1RB#14	21.37	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.55	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.56	PASS
Band4	3MHz	16QAM	20175	8RB#7	20.52	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.42	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.36	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.36	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.28	PASS
Band4	3MHz	16QAM	20385	8RB#0	20.33	PASS
Band4	3MHz	16QAM	20385	8RB#4	20.33	PASS
Band4	3MHz	16QAM	20385	8RB#7	20.49	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.53	PASS
Band4	5MHz	QPSK	19975	1RB#0	21.88	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.02	PASS
Band4	5MHz	QPSK	19975	1RB#24	21.91	PASS
Band4	5MHz	QPSK	19975	12RB#0	20.95	PASS
Band4	5MHz	QPSK	19975	12RB#6	20.95	PASS
Band4	5MHz	QPSK	19975	12RB#13	20.94	PASS
Band4	5MHz	QPSK	19975	25RB#0	20.89	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.54	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.70	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.55	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.56	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.57	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.59	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.56	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.31	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.39	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.35	PASS
Band4	5MHz	QPSK	20375	12RB#0	21.31	PASS
Band4	5MHz	QPSK	20375	12RB#6	21.31	PASS
Band4	5MHz	QPSK	20375	12RB#13	21.31	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.28	PASS
Band4	5MHz	16QAM	19975	1RB#0	20.84	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.04	PASS
Band4	5MHz	16QAM	19975	1RB#24	20.97	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.99	PASS

Band4	5MHz	16QAM	19975	12RB#6	20.90	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.92	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.85	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.44	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.58	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.44	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.51	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.77	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.56	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.71	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.23	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.28	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.18	PASS
Band4	5MHz	16QAM	20375	12RB#0	20.66	PASS
Band4	5MHz	16QAM	20375	12RB#6	20.65	PASS
Band4	5MHz	16QAM	20375	12RB#13	20.47	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.54	PASS
Band4	10MHz	QPSK	20000	1RB#0	21.93	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.24	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.23	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.11	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.08	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.09	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.09	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.59	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.81	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.60	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.61	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.65	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.63	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.57	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.39	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.52	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.30	PASS
Band4	10MHz	QPSK	20350	25RB#0	21.51	PASS
Band4	10MHz	QPSK	20350	25RB#12	21.53	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.38	PASS

Band4	10MHz	QPSK	20350	50RB#0	21.42	PASS
Band4	10MHz	16QAM	20000	1RB#0	20.94	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.14	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.20	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.75	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.75	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.89	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.93	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.41	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.54	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.35	PASS
Band4	10MHz	16QAM	20175	25RB#0	20.62	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.60	PASS
Band4	10MHz	16QAM	20175	25RB#25	20.59	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.56	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.42	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.48	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.36	PASS
Band4	10MHz	16QAM	20350	25RB#0	20.48	PASS
Band4	10MHz	16QAM	20350	25RB#12	20.40	PASS
Band4	10MHz	16QAM	20350	25RB#25	20.79	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.56	PASS
Band4	15MHz	QPSK	20025	1RB#0	21.85	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.17	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.34	PASS
Band4	15MHz	QPSK	20025	38RB#0	20.83	PASS
Band4	15MHz	QPSK	20025	38RB#18	21.15	PASS
Band4	15MHz	QPSK	20025	38RB#37	21.30	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.22	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.35	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.61	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.30	PASS
Band4	15MHz	QPSK	20175	38RB#0	21.45	PASS
Band4	15MHz	QPSK	20175	38RB#18	21.70	PASS
Band4	15MHz	QPSK	20175	38RB#37	21.37	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.65	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.51	PASS

Band4	15MHz	QPSK	20325	1RB#38	22.43	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.25	PASS
Band4	15MHz	QPSK	20325	38RB#0	21.50	PASS
Band4	15MHz	QPSK	20325	38RB#18	21.43	PASS
Band4	15MHz	QPSK	20325	38RB#37	21.23	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.52	PASS
Band4	15MHz	16QAM	20025	1RB#0	20.87	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.13	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.30	PASS
Band4	15MHz	16QAM	20025	38RB#0	20.79	PASS
Band4	15MHz	16QAM	20025	38RB#18	21.14	PASS
Band4	15MHz	16QAM	20025	38RB#37	21.32	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.54	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.47	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.73	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.37	PASS
Band4	15MHz	16QAM	20175	38RB#0	21.46	PASS
Band4	15MHz	16QAM	20175	38RB#18	21.71	PASS
Band4	15MHz	16QAM	20175	38RB#37	21.38	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.54	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.48	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.45	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.22	PASS
Band4	15MHz	16QAM	20325	38RB#0	21.51	PASS
Band4	15MHz	16QAM	20325	38RB#18	21.45	PASS
Band4	15MHz	16QAM	20325	38RB#37	21.26	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.72	PASS
Band4	20MHz	QPSK	20050	1RB#0	21.72	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.41	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.33	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.17	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.15	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.48	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.29	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.19	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.85	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.13	PASS

Band4	20MHz	QPSK	20175	50RB#0	21.43	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.48	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.45	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.44	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.53	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.66	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.18	PASS
Band4	20MHz	QPSK	20300	50RB#0	21.54	PASS
Band4	20MHz	QPSK	20300	50RB#25	21.55	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.22	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.43	PASS
Band4	20MHz	16QAM	20050	1RB#0	20.77	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.24	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.19	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.86	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.99	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.74	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.56	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.23	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.88	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.23	PASS
Band4	20MHz	16QAM	20175	50RB#0	20.74	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.81	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.90	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.41	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.42	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.52	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.01	PASS
Band4	20MHz	16QAM	20300	50RB#0	20.55	PASS
Band4	20MHz	16QAM	20300	50RB#25	20.50	PASS
Band4	20MHz	16QAM	20300	50RB#50	20.73	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.95	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.03	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.13	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.04	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.98	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.03	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.04	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.06	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.37	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.55	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.39	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.44	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.42	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.44	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.41	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.14	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.24	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.04	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.15	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.17	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.10	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.18	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.87	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.13	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.90	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.77	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.81	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.89	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.05	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.24	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.37	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.28	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.19	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.22	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.15	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.35	PASS

Band5	1.4MHz	16QAM	20643	1RB#0	22.02	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.22	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.01	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.98	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.98	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.94	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.17	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.54	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.54	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.54	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.53	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.55	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.50	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.87	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.97	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.93	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.85	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.85	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.90	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.85	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.73	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.65	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.65	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.73	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.72	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.65	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.65	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.49	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.50	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.60	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.50	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.56	PASS
Band5	3MHz	16QAM	20415	8RB#7	20.57	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.48	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.72	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.68	PASS

Band5	3MHz	16QAM	20525	1RB#14	21.70	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.84	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.81	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.88	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.77	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.73	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.70	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.60	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.75	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.74	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.67	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.69	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.43	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.66	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.62	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.54	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.53	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.51	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.54	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.78	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.92	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.73	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.80	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.87	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.95	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.91	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.78	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.89	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.59	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.78	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.78	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.61	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.76	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.35	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.61	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.49	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.47	PASS

Band5	5MHz	16QAM	20425	12RB#6	20.50	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.52	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.50	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.84	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.95	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.87	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.84	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.86	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.96	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.89	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.67	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.72	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.46	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.83	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.80	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.58	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.78	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.52	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.56	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.62	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.75	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.71	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.76	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.77	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.82	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.07	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.97	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.84	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.80	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.02	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.89	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.95	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.91	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.68	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.89	PASS
Band5	10MHz	QPSK	20600	25RB#12	21.93	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.71	PASS

Band5	10MHz	QPSK	20600	50RB#0	21.83	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.48	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.75	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.87	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.70	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.69	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.71	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.74	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.68	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.84	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.72	PASS
Band5	10MHz	16QAM	20525	25RB#0	20.87	PASS
Band5	10MHz	16QAM	20525	25RB#12	20.87	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.05	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.96	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.92	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.86	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.67	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.90	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.91	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.68	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.76	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	21.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	21.21	PASS
Band7	5MHz	QPSK	20775	1RB#24	21.15	PASS
Band7	5MHz	QPSK	20775	12RB#0	20.43	PASS
Band7	5MHz	QPSK	20775	12RB#6	20.54	PASS
Band7	5MHz	QPSK	20775	12RB#13	20.61	PASS
Band7	5MHz	QPSK	20775	25RB#0	20.70	PASS
Band7	5MHz	QPSK	21100	1RB#0	21.56	PASS
Band7	5MHz	QPSK	21100	1RB#12	21.67	PASS
Band7	5MHz	QPSK	21100	1RB#24	21.63	PASS
Band7	5MHz	QPSK	21100	12RB#0	20.60	PASS
Band7	5MHz	QPSK	21100	12RB#6	20.65	PASS
Band7	5MHz	QPSK	21100	12RB#13	20.59	PASS

Band7	5MHz	QPSK	21100	25RB#0	20.63	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.29	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.40	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.31	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.30	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.32	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.26	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.27	PASS
Band7	5MHz	16QAM	20775	1RB#0	20.92	PASS
Band7	5MHz	16QAM	20775	1RB#12	20.80	PASS
Band7	5MHz	16QAM	20775	1RB#24	20.49	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.99	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.98	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.52	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.50	PASS
Band7	5MHz	16QAM	21100	1RB#0	20.52	PASS
Band7	5MHz	16QAM	21100	1RB#12	20.64	PASS
Band7	5MHz	16QAM	21100	1RB#24	20.56	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.52	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.56	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.57	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.63	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.13	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.27	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.20	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.57	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.71	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.74	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.59	PASS
Band7	10MHz	QPSK	20800	1RB#0	21.02	PASS
Band7	10MHz	QPSK	20800	1RB#24	21.43	PASS
Band7	10MHz	QPSK	20800	1RB#49	21.37	PASS
Band7	10MHz	QPSK	20800	25RB#0	20.41	PASS
Band7	10MHz	QPSK	20800	25RB#12	20.41	PASS
Band7	10MHz	QPSK	20800	25RB#25	20.58	PASS
Band7	10MHz	QPSK	20800	50RB#0	20.68	PASS
Band7	10MHz	QPSK	21100	1RB#0	21.61	PASS

Band7	10MHz	QPSK	21100	1RB#24	21.72	PASS
Band7	10MHz	QPSK	21100	1RB#49	21.67	PASS
Band7	10MHz	QPSK	21100	25RB#0	20.63	PASS
Band7	10MHz	QPSK	21100	25RB#12	20.65	PASS
Band7	10MHz	QPSK	21100	25RB#25	20.66	PASS
Band7	10MHz	QPSK	21100	50RB#0	20.63	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.30	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.43	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.26	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.28	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.31	PASS
Band7	10MHz	QPSK	21400	25RB#25	21.37	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.28	PASS
Band7	10MHz	16QAM	20800	1RB#0	20.80	PASS
Band7	10MHz	16QAM	20800	1RB#24	20.44	PASS
Band7	10MHz	16QAM	20800	1RB#49	20.68	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.52	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.68	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.74	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.56	PASS
Band7	10MHz	16QAM	21100	1RB#0	20.55	PASS
Band7	10MHz	16QAM	21100	1RB#24	20.89	PASS
Band7	10MHz	16QAM	21100	1RB#49	20.69	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.63	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.64	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.68	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.62	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.22	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.53	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.27	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.59	PASS
Band7	10MHz	16QAM	21400	25RB#12	20.73	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.50	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.49	PASS
Band7	15MHz	QPSK	20825	1RB#0	21.52	PASS
Band7	15MHz	QPSK	20825	1RB#38	21.36	PASS
Band7	15MHz	QPSK	20825	1RB#74	21.41	PASS

Band7	15MHz	QPSK	20825	38RB#0	20.94	PASS
Band7	15MHz	QPSK	20825	38RB#18	20.54	PASS
Band7	15MHz	QPSK	20825	38RB#37	20.40	PASS
Band7	15MHz	QPSK	20825	75RB#0	20.40	PASS
Band7	15MHz	QPSK	21100	1RB#0	21.52	PASS
Band7	15MHz	QPSK	21100	1RB#38	21.67	PASS
Band7	15MHz	QPSK	21100	1RB#74	21.72	PASS
Band7	15MHz	QPSK	21100	38RB#0	20.49	PASS
Band7	15MHz	QPSK	21100	38RB#18	20.68	PASS
Band7	15MHz	QPSK	21100	38RB#37	20.67	PASS
Band7	15MHz	QPSK	21100	75RB#0	20.77	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.19	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.33	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.21	PASS
Band7	15MHz	QPSK	21375	38RB#0	21.23	PASS
Band7	15MHz	QPSK	21375	38RB#18	21.32	PASS
Band7	15MHz	QPSK	21375	38RB#37	21.13	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.36	PASS
Band7	15MHz	16QAM	20825	1RB#0	20.94	PASS
Band7	15MHz	16QAM	20825	1RB#38	20.53	PASS
Band7	15MHz	16QAM	20825	1RB#74	20.43	PASS
Band7	15MHz	16QAM	20825	38RB#0	20.95	PASS
Band7	15MHz	16QAM	20825	38RB#18	20.56	PASS
Band7	15MHz	16QAM	20825	38RB#37	20.44	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.60	PASS
Band7	15MHz	16QAM	21100	1RB#0	20.50	PASS
Band7	15MHz	16QAM	21100	1RB#38	20.64	PASS
Band7	15MHz	16QAM	21100	1RB#74	20.68	PASS
Band7	15MHz	16QAM	21100	38RB#0	20.48	PASS
Band7	15MHz	16QAM	21100	38RB#18	20.65	PASS
Band7	15MHz	16QAM	21100	38RB#37	20.72	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.64	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.17	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.29	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.20	PASS
Band7	15MHz	16QAM	21375	38RB#0	21.16	PASS
Band7	15MHz	16QAM	21375	38RB#18	21.31	PASS

Band7	15MHz	16QAM	21375	38RB#37	21.17	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.50	PASS
Band7	20MHz	QPSK	20850	1RB#0	20.89	PASS
Band7	20MHz	QPSK	20850	1RB#49	21.56	PASS
Band7	20MHz	QPSK	20850	1RB#99	21.31	PASS
Band7	20MHz	QPSK	20850	50RB#0	20.46	PASS
Band7	20MHz	QPSK	20850	50RB#25	20.50	PASS
Band7	20MHz	QPSK	20850	50RB#50	20.47	PASS
Band7	20MHz	QPSK	20850	100RB#0	20.37	PASS
Band7	20MHz	QPSK	21100	1RB#0	21.38	PASS
Band7	20MHz	QPSK	21100	1RB#49	21.95	PASS
Band7	20MHz	QPSK	21100	1RB#99	21.69	PASS
Band7	20MHz	QPSK	21100	50RB#0	20.55	PASS
Band7	20MHz	QPSK	21100	50RB#25	20.55	PASS
Band7	20MHz	QPSK	21100	50RB#50	20.61	PASS
Band7	20MHz	QPSK	21100	100RB#0	20.58	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.01	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.58	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.13	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.21	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.27	PASS
Band7	20MHz	QPSK	21350	50RB#50	21.36	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.31	PASS
Band7	20MHz	16QAM	20850	1RB#0	20.68	PASS
Band7	20MHz	16QAM	20850	1RB#49	20.55	PASS
Band7	20MHz	16QAM	20850	1RB#99	20.21	PASS
Band7	20MHz	16QAM	20850	50RB#0	20.56	PASS
Band7	20MHz	16QAM	20850	50RB#25	20.42	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.47	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.42	PASS
Band7	20MHz	16QAM	21100	1RB#0	20.53	PASS
Band7	20MHz	16QAM	21100	1RB#49	20.72	PASS
Band7	20MHz	16QAM	21100	1RB#99	20.56	PASS
Band7	20MHz	16QAM	21100	50RB#0	20.59	PASS
Band7	20MHz	16QAM	21100	50RB#25	20.61	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.61	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.58	PASS

Band7	20MHz	16QAM	21350	1RB#0	20.87	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.39	PASS
Band7	20MHz	16QAM	21350	1RB#99	20.99	PASS
Band7	20MHz	16QAM	21350	50RB#0	20.58	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.49	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.59	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.69	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band25	1.4MHz	QPSK	26047	1RB#0	21.13	PASS
Band25	1.4MHz	QPSK	26047	1RB#2	21.16	PASS
Band25	1.4MHz	QPSK	26047	1RB#5	21.16	PASS
Band25	1.4MHz	QPSK	26047	3RB#0	21.13	PASS
Band25	1.4MHz	QPSK	26047	3RB#1	21.20	PASS
Band25	1.4MHz	QPSK	26047	3RB#3	21.21	PASS
Band25	1.4MHz	QPSK	26047	6RB#0	21.25	PASS
Band25	1.4MHz	QPSK	26365	1RB#0	21.48	PASS
Band25	1.4MHz	QPSK	26365	1RB#2	21.78	PASS
Band25	1.4MHz	QPSK	26365	1RB#5	21.58	PASS
Band25	1.4MHz	QPSK	26365	3RB#0	21.52	PASS
Band25	1.4MHz	QPSK	26365	3RB#1	21.56	PASS
Band25	1.4MHz	QPSK	26365	3RB#3	21.60	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	20.56	PASS
Band25	1.4MHz	QPSK	26683	1RB#0	21.81	PASS
Band25	1.4MHz	QPSK	26683	1RB#2	21.89	PASS
Band25	1.4MHz	QPSK	26683	1RB#5	21.81	PASS
Band25	1.4MHz	QPSK	26683	3RB#0	21.87	PASS
Band25	1.4MHz	QPSK	26683	3RB#1	21.88	PASS
Band25	1.4MHz	QPSK	26683	3RB#3	21.86	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	20.87	PASS
Band25	1.4MHz	16QAM	26047	1RB#0	20.56	PASS
Band25	1.4MHz	16QAM	26047	1RB#2	20.46	PASS
Band25	1.4MHz	16QAM	26047	1RB#5	20.45	PASS
Band25	1.4MHz	16QAM	26047	3RB#0	20.96	PASS
Band25	1.4MHz	16QAM	26047	3RB#1	20.97	PASS
Band25	1.4MHz	16QAM	26047	3RB#3	20.98	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	20.56	PASS

Band25	1.4MHz	16QAM	26365	1RB#0	20.46	PASS
Band25	1.4MHz	16QAM	26365	1RB#2	20.44	PASS
Band25	1.4MHz	16QAM	26365	1RB#5	20.37	PASS
Band25	1.4MHz	16QAM	26365	3RB#0	20.37	PASS
Band25	1.4MHz	16QAM	26365	3RB#1	20.37	PASS
Band25	1.4MHz	16QAM	26365	3RB#3	20.34	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	20.39	PASS
Band25	1.4MHz	16QAM	26683	1RB#0	20.56	PASS
Band25	1.4MHz	16QAM	26683	1RB#2	20.70	PASS
Band25	1.4MHz	16QAM	26683	1RB#5	20.52	PASS
Band25	1.4MHz	16QAM	26683	3RB#0	20.61	PASS
Band25	1.4MHz	16QAM	26683	3RB#1	20.58	PASS
Band25	1.4MHz	16QAM	26683	3RB#3	20.60	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	20.79	PASS
Band25	3MHz	QPSK	26055	1RB#0	21.25	PASS
Band25	3MHz	QPSK	26055	1RB#8	21.31	PASS
Band25	3MHz	QPSK	26055	1RB#14	21.30	PASS
Band25	3MHz	QPSK	26055	8RB#0	20.50	PASS
Band25	3MHz	QPSK	26055	8RB#4	20.52	PASS
Band25	3MHz	QPSK	26055	8RB#7	20.56	PASS
Band25	3MHz	QPSK	26055	15RB#0	20.52	PASS
Band25	3MHz	QPSK	26365	1RB#0	21.53	PASS
Band25	3MHz	QPSK	26365	1RB#8	21.57	PASS
Band25	3MHz	QPSK	26365	1RB#14	21.56	PASS
Band25	3MHz	QPSK	26365	8RB#0	20.55	PASS
Band25	3MHz	QPSK	26365	8RB#4	20.57	PASS
Band25	3MHz	QPSK	26365	8RB#7	20.58	PASS
Band25	3MHz	QPSK	26365	15RB#0	20.49	PASS
Band25	3MHz	QPSK	26675	1RB#0	22.00	PASS
Band25	3MHz	QPSK	26675	1RB#8	21.98	PASS
Band25	3MHz	QPSK	26675	1RB#14	21.89	PASS
Band25	3MHz	QPSK	26675	8RB#0	20.94	PASS
Band25	3MHz	QPSK	26675	8RB#4	20.92	PASS
Band25	3MHz	QPSK	26675	8RB#7	20.84	PASS
Band25	3MHz	QPSK	26675	15RB#0	20.84	PASS
Band25	3MHz	16QAM	26055	1RB#0	20.58	PASS
Band25	3MHz	16QAM	26055	1RB#8	20.57	PASS

Band25	3MHz	16QAM	26055	1RB#14	20.70	PASS
Band25	3MHz	16QAM	26055	8RB#0	20.69	PASS
Band25	3MHz	16QAM	26055	8RB#4	20.69	PASS
Band25	3MHz	16QAM	26055	8RB#7	20.52	PASS
Band25	3MHz	16QAM	26055	15RB#0	20.71	PASS
Band25	3MHz	16QAM	26365	1RB#0	20.53	PASS
Band25	3MHz	16QAM	26365	1RB#8	20.58	PASS
Band25	3MHz	16QAM	26365	1RB#14	20.51	PASS
Band25	3MHz	16QAM	26365	8RB#0	20.58	PASS
Band25	3MHz	16QAM	26365	8RB#4	20.56	PASS
Band25	3MHz	16QAM	26365	8RB#7	20.55	PASS
Band25	3MHz	16QAM	26365	15RB#0	20.51	PASS
Band25	3MHz	16QAM	26675	1RB#0	20.79	PASS
Band25	3MHz	16QAM	26675	1RB#8	20.74	PASS
Band25	3MHz	16QAM	26675	1RB#14	20.66	PASS
Band25	3MHz	16QAM	26675	8RB#0	20.89	PASS
Band25	3MHz	16QAM	26675	8RB#4	20.92	PASS
Band25	3MHz	16QAM	26675	8RB#7	20.80	PASS
Band25	3MHz	16QAM	26675	15RB#0	20.75	PASS
Band25	5MHz	QPSK	26065	1RB#0	21.16	PASS
Band25	5MHz	QPSK	26065	1RB#12	21.34	PASS
Band25	5MHz	QPSK	26065	1RB#24	21.22	PASS
Band25	5MHz	QPSK	26065	12RB#0	20.57	PASS
Band25	5MHz	QPSK	26065	12RB#6	20.57	PASS
Band25	5MHz	QPSK	26065	12RB#13	20.45	PASS
Band25	5MHz	QPSK	26065	25RB#0	20.68	PASS
Band25	5MHz	QPSK	26365	1RB#0	21.55	PASS
Band25	5MHz	QPSK	26365	1RB#12	21.67	PASS
Band25	5MHz	QPSK	26365	1RB#24	21.60	PASS
Band25	5MHz	QPSK	26365	12RB#0	20.51	PASS
Band25	5MHz	QPSK	26365	12RB#6	20.54	PASS
Band25	5MHz	QPSK	26365	12RB#13	20.63	PASS
Band25	5MHz	QPSK	26365	25RB#0	20.61	PASS
Band25	5MHz	QPSK	26665	1RB#0	21.93	PASS
Band25	5MHz	QPSK	26665	1RB#12	21.98	PASS
Band25	5MHz	QPSK	26665	1RB#24	21.74	PASS
Band25	5MHz	QPSK	26665	12RB#0	20.86	PASS

Band25	5MHz	QPSK	26665	12RB#6	20.87	PASS
Band25	5MHz	QPSK	26665	12RB#13	20.85	PASS
Band25	5MHz	QPSK	26665	25RB#0	20.83	PASS
Band25	5MHz	16QAM	26065	1RB#0	20.58	PASS
Band25	5MHz	16QAM	26065	1RB#12	20.48	PASS
Band25	5MHz	16QAM	26065	1RB#24	20.59	PASS
Band25	5MHz	16QAM	26065	12RB#0	20.57	PASS
Band25	5MHz	16QAM	26065	12RB#6	20.47	PASS
Band25	5MHz	16QAM	26065	12RB#13	20.68	PASS
Band25	5MHz	16QAM	26065	25RB#0	20.63	PASS
Band25	5MHz	16QAM	26365	1RB#0	20.59	PASS
Band25	5MHz	16QAM	26365	1RB#12	20.56	PASS
Band25	5MHz	16QAM	26365	1RB#24	20.47	PASS
Band25	5MHz	16QAM	26365	12RB#0	20.44	PASS
Band25	5MHz	16QAM	26365	12RB#6	20.45	PASS
Band25	5MHz	16QAM	26365	12RB#13	20.53	PASS
Band25	5MHz	16QAM	26365	25RB#0	20.57	PASS
Band25	5MHz	16QAM	26665	1RB#0	20.92	PASS
Band25	5MHz	16QAM	26665	1RB#12	20.99	PASS
Band25	5MHz	16QAM	26665	1RB#24	20.75	PASS
Band25	5MHz	16QAM	26665	12RB#0	20.82	PASS
Band25	5MHz	16QAM	26665	12RB#6	20.79	PASS
Band25	5MHz	16QAM	26665	12RB#13	20.80	PASS
Band25	5MHz	16QAM	26665	25RB#0	20.84	PASS
Band25	10MHz	QPSK	26090	1RB#0	21.23	PASS
Band25	10MHz	QPSK	26090	1RB#24	21.50	PASS
Band25	10MHz	QPSK	26090	1RB#49	21.53	PASS
Band25	10MHz	QPSK	26090	25RB#0	20.53	PASS
Band25	10MHz	QPSK	26090	25RB#12	20.42	PASS
Band25	10MHz	QPSK	26090	25RB#25	20.45	PASS
Band25	10MHz	QPSK	26090	50RB#0	20.57	PASS
Band25	10MHz	QPSK	26365	1RB#0	21.58	PASS
Band25	10MHz	QPSK	26365	1RB#24	21.66	PASS
Band25	10MHz	QPSK	26365	1RB#49	21.68	PASS
Band25	10MHz	QPSK	26365	25RB#0	20.62	PASS
Band25	10MHz	QPSK	26365	25RB#12	20.60	PASS
Band25	10MHz	QPSK	26365	25RB#25	20.75	PASS

Band25	10MHz	QPSK	26365	50RB#0	20.63	PASS
Band25	10MHz	QPSK	26640	1RB#0	22.14	PASS
Band25	10MHz	QPSK	26640	1RB#24	22.15	PASS
Band25	10MHz	QPSK	26640	1RB#49	21.85	PASS
Band25	10MHz	QPSK	26640	25RB#0	21.20	PASS
Band25	10MHz	QPSK	26640	25RB#12	21.18	PASS
Band25	10MHz	QPSK	26640	25RB#25	21.05	PASS
Band25	10MHz	QPSK	26640	50RB#0	21.09	PASS
Band25	10MHz	16QAM	26090	1RB#0	20.52	PASS
Band25	10MHz	16QAM	26090	1RB#24	20.59	PASS
Band25	10MHz	16QAM	26090	1RB#49	20.51	PASS
Band25	10MHz	16QAM	26090	25RB#0	20.56	PASS
Band25	10MHz	16QAM	26090	25RB#12	20.56	PASS
Band25	10MHz	16QAM	26090	25RB#25	20.40	PASS
Band25	10MHz	16QAM	26090	50RB#0	20.27	PASS
Band25	10MHz	16QAM	26365	1RB#0	20.43	PASS
Band25	10MHz	16QAM	26365	1RB#24	20.47	PASS
Band25	10MHz	16QAM	26365	1RB#49	20.46	PASS
Band25	10MHz	16QAM	26365	25RB#0	20.58	PASS
Band25	10MHz	16QAM	26365	25RB#12	20.61	PASS
Band25	10MHz	16QAM	26365	25RB#25	20.71	PASS
Band25	10MHz	16QAM	26365	50RB#0	20.64	PASS
Band25	10MHz	16QAM	26640	1RB#0	20.83	PASS
Band25	10MHz	16QAM	26640	1RB#24	20.85	PASS
Band25	10MHz	16QAM	26640	1RB#49	20.56	PASS
Band25	10MHz	16QAM	26640	25RB#0	20.51	PASS
Band25	10MHz	16QAM	26640	25RB#12	20.58	PASS
Band25	10MHz	16QAM	26640	25RB#25	20.42	PASS
Band25	10MHz	16QAM	26640	50RB#0	20.46	PASS
Band25	15MHz	QPSK	26115	1RB#0	21.17	PASS
Band25	15MHz	QPSK	26115	1RB#38	21.51	PASS
Band25	15MHz	QPSK	26115	1RB#74	21.53	PASS
Band25	15MHz	QPSK	26115	38RB#0	20.66	PASS
Band25	15MHz	QPSK	26115	38RB#18	20.49	PASS
Band25	15MHz	QPSK	26115	38RB#37	20.55	PASS
Band25	15MHz	QPSK	26115	75RB#0	20.45	PASS
Band25	15MHz	QPSK	26365	1RB#0	21.47	PASS

Band25	15MHz	QPSK	26365	1RB#38	21.49	PASS
Band25	15MHz	QPSK	26365	1RB#74	21.58	PASS
Band25	15MHz	QPSK	26365	38RB#0	20.63	PASS
Band25	15MHz	QPSK	26365	38RB#18	20.63	PASS
Band25	15MHz	QPSK	26365	38RB#37	20.65	PASS
Band25	15MHz	QPSK	26365	75RB#0	20.72	PASS
Band25	15MHz	QPSK	26615	1RB#0	22.12	PASS
Band25	15MHz	QPSK	26615	1RB#38	22.07	PASS
Band25	15MHz	QPSK	26615	1RB#74	21.78	PASS
Band25	15MHz	QPSK	26615	38RB#0	20.90	PASS
Band25	15MHz	QPSK	26615	38RB#18	20.87	PASS
Band25	15MHz	QPSK	26615	38RB#37	20.78	PASS
Band25	15MHz	QPSK	26615	75RB#0	21.24	PASS
Band25	15MHz	16QAM	26115	1RB#0	20.54	PASS
Band25	15MHz	16QAM	26115	1RB#38	20.50	PASS
Band25	15MHz	16QAM	26115	1RB#74	20.54	PASS
Band25	15MHz	16QAM	26115	38RB#0	20.55	PASS
Band25	15MHz	16QAM	26115	38RB#18	20.53	PASS
Band25	15MHz	16QAM	26115	38RB#37	20.52	PASS
Band25	15MHz	16QAM	26115	75RB#0	20.49	PASS
Band25	15MHz	16QAM	26365	1RB#0	20.63	PASS
Band25	15MHz	16QAM	26365	1RB#38	20.64	PASS
Band25	15MHz	16QAM	26365	1RB#74	20.63	PASS
Band25	15MHz	16QAM	26365	38RB#0	20.65	PASS
Band25	15MHz	16QAM	26365	38RB#18	20.64	PASS
Band25	15MHz	16QAM	26365	38RB#37	20.61	PASS
Band25	15MHz	16QAM	26365	75RB#0	20.67	PASS
Band25	15MHz	16QAM	26615	1RB#0	20.89	PASS
Band25	15MHz	16QAM	26615	1RB#38	20.85	PASS
Band25	15MHz	16QAM	26615	1RB#74	20.50	PASS
Band25	15MHz	16QAM	26615	38RB#0	20.90	PASS
Band25	15MHz	16QAM	26615	38RB#18	20.85	PASS
Band25	15MHz	16QAM	26615	38RB#37	20.47	PASS
Band25	15MHz	16QAM	26615	75RB#0	20.52	PASS
Band25	20MHz	QPSK	26140	1RB#0	21.06	PASS
Band25	20MHz	QPSK	26140	1RB#49	21.80	PASS
Band25	20MHz	QPSK	26140	1RB#99	21.43	PASS

Band25	20MHz	QPSK	26140	50RB#0	20.47	PASS
Band25	20MHz	QPSK	26140	50RB#25	20.50	PASS
Band25	20MHz	QPSK	26140	50RB#50	20.78	PASS
Band25	20MHz	QPSK	26140	100RB#0	20.54	PASS
Band25	20MHz	QPSK	26365	1RB#0	21.40	PASS
Band25	20MHz	QPSK	26365	1RB#49	21.60	PASS
Band25	20MHz	QPSK	26365	1RB#99	21.57	PASS
Band25	20MHz	QPSK	26365	50RB#0	20.71	PASS
Band25	20MHz	QPSK	26365	50RB#25	20.69	PASS
Band25	20MHz	QPSK	26365	50RB#50	20.84	PASS
Band25	20MHz	QPSK	26365	100RB#0	20.71	PASS
Band25	20MHz	QPSK	26590	1RB#0	21.80	PASS
Band25	20MHz	QPSK	26590	1RB#49	22.17	PASS
Band25	20MHz	QPSK	26590	1RB#99	21.55	PASS
Band25	20MHz	QPSK	26590	50RB#0	21.09	PASS
Band25	20MHz	QPSK	26590	50RB#25	21.11	PASS
Band25	20MHz	QPSK	26590	50RB#50	20.98	PASS
Band25	20MHz	QPSK	26590	100RB#0	21.06	PASS
Band25	20MHz	16QAM	26140	1RB#0	20.91	PASS
Band25	20MHz	16QAM	26140	1RB#49	20.58	PASS
Band25	20MHz	16QAM	26140	1RB#99	20.29	PASS
Band25	20MHz	16QAM	26140	50RB#0	20.43	PASS
Band25	20MHz	16QAM	26140	50RB#25	20.54	PASS
Band25	20MHz	16QAM	26140	50RB#50	20.72	PASS
Band25	20MHz	16QAM	26140	100RB#0	20.52	PASS
Band25	20MHz	16QAM	26365	1RB#0	20.57	PASS
Band25	20MHz	16QAM	26365	1RB#49	20.79	PASS
Band25	20MHz	16QAM	26365	1RB#99	20.61	PASS
Band25	20MHz	16QAM	26365	50RB#0	20.72	PASS
Band25	20MHz	16QAM	26365	50RB#25	20.74	PASS
Band25	20MHz	16QAM	26365	50RB#50	20.85	PASS
Band25	20MHz	16QAM	26365	100RB#0	20.74	PASS
Band25	20MHz	16QAM	26590	1RB#0	20.56	PASS
Band25	20MHz	16QAM	26590	1RB#49	21.09	PASS
Band25	20MHz	16QAM	26590	1RB#99	20.35	PASS
Band25	20MHz	16QAM	26590	50RB#0	20.50	PASS
Band25	20MHz	16QAM	26590	50RB#25	20.50	PASS

Band25	20MHz	16QAM	26590	50RB#50	20.56	PASS
Band25	20MHz	16QAM	26590	100RB#0	20.56	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	21.89	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	22.13	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	21.88	PASS
Band66	1.4MHz	QPSK	131979	3RB#0	21.98	PASS
Band66	1.4MHz	QPSK	131979	3RB#1	22.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#3	21.96	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	21.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	22.42	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	22.55	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	22.37	PASS
Band66	1.4MHz	QPSK	132322	3RB#0	22.49	PASS
Band66	1.4MHz	QPSK	132322	3RB#1	22.49	PASS
Band66	1.4MHz	QPSK	132322	3RB#3	22.44	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	21.54	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	22.68	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	22.71	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	22.71	PASS
Band66	1.4MHz	QPSK	132665	3RB#0	22.67	PASS
Band66	1.4MHz	QPSK	132665	3RB#1	22.67	PASS
Band66	1.4MHz	QPSK	132665	3RB#3	22.57	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	21.74	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	20.80	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	20.90	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	20.75	PASS
Band66	1.4MHz	16QAM	131979	3RB#0	20.76	PASS
Band66	1.4MHz	16QAM	131979	3RB#1	20.73	PASS
Band66	1.4MHz	16QAM	131979	3RB#3	20.76	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	19.97	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	21.29	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	21.45	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	21.25	PASS
Band66	1.4MHz	16QAM	132322	3RB#0	21.23	PASS
Band66	1.4MHz	16QAM	132322	3RB#1	21.24	PASS

Band66	1.4MHz	16QAM	132322	3RB#3	21.24	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	20.46	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	21.46	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	21.42	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	21.43	PASS
Band66	1.4MHz	16QAM	132665	3RB#0	21.43	PASS
Band66	1.4MHz	16QAM	132665	3RB#1	21.45	PASS
Band66	1.4MHz	16QAM	132665	3RB#3	21.31	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	20.66	PASS
Band66	3MHz	QPSK	131987	1RB#0	22.00	PASS
Band66	3MHz	QPSK	131987	1RB#8	21.96	PASS
Band66	3MHz	QPSK	131987	1RB#14	21.92	PASS
Band66	3MHz	QPSK	131987	8RB#0	21.01	PASS
Band66	3MHz	QPSK	131987	8RB#4	21.02	PASS
Band66	3MHz	QPSK	131987	8RB#7	21.00	PASS
Band66	3MHz	QPSK	131987	15RB#0	20.95	PASS
Band66	3MHz	QPSK	132322	1RB#0	22.53	PASS
Band66	3MHz	QPSK	132322	1RB#8	22.50	PASS
Band66	3MHz	QPSK	132322	1RB#14	22.42	PASS
Band66	3MHz	QPSK	132322	8RB#0	21.55	PASS
Band66	3MHz	QPSK	132322	8RB#4	21.53	PASS
Band66	3MHz	QPSK	132322	8RB#7	21.47	PASS
Band66	3MHz	QPSK	132322	15RB#0	21.47	PASS
Band66	3MHz	QPSK	132657	1RB#0	22.78	PASS
Band66	3MHz	QPSK	132657	1RB#8	22.76	PASS
Band66	3MHz	QPSK	132657	1RB#14	22.68	PASS
Band66	3MHz	QPSK	132657	8RB#0	21.77	PASS
Band66	3MHz	QPSK	132657	8RB#4	21.78	PASS
Band66	3MHz	QPSK	132657	8RB#7	21.71	PASS
Band66	3MHz	QPSK	132657	15RB#0	21.68	PASS
Band66	3MHz	16QAM	131987	1RB#0	20.97	PASS
Band66	3MHz	16QAM	131987	1RB#8	20.98	PASS
Band66	3MHz	16QAM	131987	1RB#14	20.98	PASS
Band66	3MHz	16QAM	131987	8RB#0	19.98	PASS
Band66	3MHz	16QAM	131987	8RB#4	20.03	PASS
Band66	3MHz	16QAM	131987	8RB#7	19.98	PASS
Band66	3MHz	16QAM	131987	15RB#0	19.94	PASS

Band66	3MHz	16QAM	132322	1RB#0	21.57	PASS
Band66	3MHz	16QAM	132322	1RB#8	21.49	PASS
Band66	3MHz	16QAM	132322	1RB#14	21.42	PASS
Band66	3MHz	16QAM	132322	8RB#0	20.51	PASS
Band66	3MHz	16QAM	132322	8RB#4	20.49	PASS
Band66	3MHz	16QAM	132322	8RB#7	20.47	PASS
Band66	3MHz	16QAM	132322	15RB#0	20.48	PASS
Band66	3MHz	16QAM	132657	1RB#0	21.73	PASS
Band66	3MHz	16QAM	132657	1RB#8	21.64	PASS
Band66	3MHz	16QAM	132657	1RB#14	21.59	PASS
Band66	3MHz	16QAM	132657	8RB#0	20.73	PASS
Band66	3MHz	16QAM	132657	8RB#4	20.71	PASS
Band66	3MHz	16QAM	132657	8RB#7	20.63	PASS
Band66	3MHz	16QAM	132657	15RB#0	20.67	PASS
Band66	5MHz	QPSK	131997	1RB#0	21.93	PASS
Band66	5MHz	QPSK	131997	1RB#12	22.07	PASS
Band66	5MHz	QPSK	131997	1RB#24	21.99	PASS
Band66	5MHz	QPSK	131997	12RB#0	21.02	PASS
Band66	5MHz	QPSK	131997	12RB#6	20.99	PASS
Band66	5MHz	QPSK	131997	12RB#13	20.92	PASS
Band66	5MHz	QPSK	131997	25RB#0	21.01	PASS
Band66	5MHz	QPSK	132322	1RB#0	22.50	PASS
Band66	5MHz	QPSK	132322	1RB#12	22.59	PASS
Band66	5MHz	QPSK	132322	1RB#24	22.41	PASS
Band66	5MHz	QPSK	132322	12RB#0	21.53	PASS
Band66	5MHz	QPSK	132322	12RB#6	21.52	PASS
Band66	5MHz	QPSK	132322	12RB#13	21.40	PASS
Band66	5MHz	QPSK	132322	25RB#0	21.48	PASS
Band66	5MHz	QPSK	132647	1RB#0	22.80	PASS
Band66	5MHz	QPSK	132647	1RB#12	22.90	PASS
Band66	5MHz	QPSK	132647	1RB#24	22.71	PASS
Band66	5MHz	QPSK	132647	12RB#0	21.82	PASS
Band66	5MHz	QPSK	132647	12RB#6	21.79	PASS
Band66	5MHz	QPSK	132647	12RB#13	21.68	PASS
Band66	5MHz	QPSK	132647	25RB#0	21.68	PASS
Band66	5MHz	16QAM	131997	1RB#0	20.96	PASS
Band66	5MHz	16QAM	131997	1RB#12	21.08	PASS

Band66	5MHz	16QAM	131997	1RB#24	21.01	PASS
Band66	5MHz	16QAM	131997	12RB#0	20.05	PASS
Band66	5MHz	16QAM	131997	12RB#6	20.01	PASS
Band66	5MHz	16QAM	131997	12RB#13	19.95	PASS
Band66	5MHz	16QAM	131997	25RB#0	19.93	PASS
Band66	5MHz	16QAM	132322	1RB#0	21.42	PASS
Band66	5MHz	16QAM	132322	1RB#12	21.43	PASS
Band66	5MHz	16QAM	132322	1RB#24	21.26	PASS
Band66	5MHz	16QAM	132322	12RB#0	20.46	PASS
Band66	5MHz	16QAM	132322	12RB#6	20.45	PASS
Band66	5MHz	16QAM	132322	12RB#13	20.34	PASS
Band66	5MHz	16QAM	132322	25RB#0	20.46	PASS
Band66	5MHz	16QAM	132647	1RB#0	21.65	PASS
Band66	5MHz	16QAM	132647	1RB#12	21.74	PASS
Band66	5MHz	16QAM	132647	1RB#24	21.49	PASS
Band66	5MHz	16QAM	132647	12RB#0	20.72	PASS
Band66	5MHz	16QAM	132647	12RB#6	20.74	PASS
Band66	5MHz	16QAM	132647	12RB#13	20.57	PASS
Band66	5MHz	16QAM	132647	25RB#0	20.69	PASS
Band66	10MHz	QPSK	132022	1RB#0	22.03	PASS
Band66	10MHz	QPSK	132022	1RB#24	22.17	PASS
Band66	10MHz	QPSK	132022	1RB#49	22.32	PASS
Band66	10MHz	QPSK	132022	25RB#0	21.10	PASS
Band66	10MHz	QPSK	132022	25RB#12	21.09	PASS
Band66	10MHz	QPSK	132022	25RB#25	21.08	PASS
Band66	10MHz	QPSK	132022	50RB#0	21.10	PASS
Band66	10MHz	QPSK	132322	1RB#0	22.60	PASS
Band66	10MHz	QPSK	132322	1RB#24	22.76	PASS
Band66	10MHz	QPSK	132322	1RB#49	22.38	PASS
Band66	10MHz	QPSK	132322	25RB#0	21.58	PASS
Band66	10MHz	QPSK	132322	25RB#12	21.54	PASS
Band66	10MHz	QPSK	132322	25RB#25	21.38	PASS
Band66	10MHz	QPSK	132322	50RB#0	21.46	PASS
Band66	10MHz	QPSK	132622	1RB#0	22.81	PASS
Band66	10MHz	QPSK	132622	1RB#24	22.99	PASS
Band66	10MHz	QPSK	132622	1RB#49	22.70	PASS
Band66	10MHz	QPSK	132622	25RB#0	21.90	PASS

Band66	10MHz	QPSK	132622	25RB#12	21.89	PASS
Band66	10MHz	QPSK	132622	25RB#25	21.69	PASS
Band66	10MHz	QPSK	132622	50RB#0	21.80	PASS
Band66	10MHz	16QAM	132022	1RB#0	20.80	PASS
Band66	10MHz	16QAM	132022	1RB#24	20.91	PASS
Band66	10MHz	16QAM	132022	1RB#49	21.04	PASS
Band66	10MHz	16QAM	132022	25RB#0	20.13	PASS
Band66	10MHz	16QAM	132022	25RB#12	20.10	PASS
Band66	10MHz	16QAM	132022	25RB#25	20.10	PASS
Band66	10MHz	16QAM	132022	50RB#0	20.10	PASS
Band66	10MHz	16QAM	132322	1RB#0	21.59	PASS
Band66	10MHz	16QAM	132322	1RB#24	21.58	PASS
Band66	10MHz	16QAM	132322	1RB#49	21.39	PASS
Band66	10MHz	16QAM	132322	25RB#0	20.53	PASS
Band66	10MHz	16QAM	132322	25RB#12	20.53	PASS
Band66	10MHz	16QAM	132322	25RB#25	20.37	PASS
Band66	10MHz	16QAM	132322	50RB#0	20.43	PASS
Band66	10MHz	16QAM	132622	1RB#0	21.74	PASS
Band66	10MHz	16QAM	132622	1RB#24	21.86	PASS
Band66	10MHz	16QAM	132622	1RB#49	21.65	PASS
Band66	10MHz	16QAM	132622	25RB#0	20.82	PASS
Band66	10MHz	16QAM	132622	25RB#12	20.82	PASS
Band66	10MHz	16QAM	132622	25RB#25	20.63	PASS
Band66	10MHz	16QAM	132622	50RB#0	20.77	PASS
Band66	15MHz	QPSK	132047	1RB#0	21.92	PASS
Band66	15MHz	QPSK	132047	1RB#38	22.20	PASS
Band66	15MHz	QPSK	132047	1RB#74	22.35	PASS
Band66	15MHz	QPSK	132047	38RB#0	20.92	PASS
Band66	15MHz	QPSK	132047	38RB#18	21.22	PASS
Band66	15MHz	QPSK	132047	38RB#37	21.33	PASS
Band66	15MHz	QPSK	132047	75RB#0	21.25	PASS
Band66	15MHz	QPSK	132322	1RB#0	22.68	PASS
Band66	15MHz	QPSK	132322	1RB#38	22.52	PASS
Band66	15MHz	QPSK	132322	1RB#74	22.23	PASS
Band66	15MHz	QPSK	132322	38RB#0	21.62	PASS
Band66	15MHz	QPSK	132322	38RB#18	21.52	PASS
Band66	15MHz	QPSK	132322	38RB#37	21.28	PASS

Band66	15MHz	QPSK	132322	75RB#0	21.53	PASS
Band66	15MHz	QPSK	132597	1RB#0	22.63	PASS
Band66	15MHz	QPSK	132597	1RB#38	22.89	PASS
Band66	15MHz	QPSK	132597	1RB#74	22.63	PASS
Band66	15MHz	QPSK	132597	38RB#0	21.50	PASS
Band66	15MHz	QPSK	132597	38RB#18	21.81	PASS
Band66	15MHz	QPSK	132597	38RB#37	21.58	PASS
Band66	15MHz	QPSK	132597	75RB#0	21.93	PASS
Band66	15MHz	16QAM	132047	1RB#0	20.93	PASS
Band66	15MHz	16QAM	132047	1RB#38	21.19	PASS
Band66	15MHz	16QAM	132047	1RB#74	21.36	PASS
Band66	15MHz	16QAM	132047	38RB#0	20.91	PASS
Band66	15MHz	16QAM	132047	38RB#18	21.18	PASS
Band66	15MHz	16QAM	132047	38RB#37	21.30	PASS
Band66	15MHz	16QAM	132047	75RB#0	20.15	PASS
Band66	15MHz	16QAM	132322	1RB#0	21.63	PASS
Band66	15MHz	16QAM	132322	1RB#38	21.54	PASS
Band66	15MHz	16QAM	132322	1RB#74	21.28	PASS
Band66	15MHz	16QAM	132322	38RB#0	21.61	PASS
Band66	15MHz	16QAM	132322	38RB#18	21.49	PASS
Band66	15MHz	16QAM	132322	38RB#37	21.29	PASS
Band66	15MHz	16QAM	132322	75RB#0	20.47	PASS
Band66	15MHz	16QAM	132597	1RB#0	21.53	PASS
Band66	15MHz	16QAM	132597	1RB#38	21.81	PASS
Band66	15MHz	16QAM	132597	1RB#74	21.57	PASS
Band66	15MHz	16QAM	132597	38RB#0	21.50	PASS
Band66	15MHz	16QAM	132597	38RB#18	21.85	PASS
Band66	15MHz	16QAM	132597	38RB#37	21.56	PASS
Band66	15MHz	16QAM	132597	75RB#0	20.79	PASS
Band66	20MHz	QPSK	132072	1RB#0	21.78	PASS
Band66	20MHz	QPSK	132072	1RB#49	22.46	PASS
Band66	20MHz	QPSK	132072	1RB#99	22.43	PASS
Band66	20MHz	QPSK	132072	50RB#0	21.22	PASS
Band66	20MHz	QPSK	132072	50RB#25	21.23	PASS
Band66	20MHz	QPSK	132072	50RB#50	21.47	PASS
Band66	20MHz	QPSK	132072	100RB#0	21.30	PASS
Band66	20MHz	QPSK	132322	1RB#0	22.57	PASS

Band66	20MHz	QPSK	132322	1RB#49	22.62	PASS
Band66	20MHz	QPSK	132322	1RB#99	22.14	PASS
Band66	20MHz	QPSK	132322	50RB#0	21.62	PASS
Band66	20MHz	QPSK	132322	50RB#25	21.57	PASS
Band66	20MHz	QPSK	132322	50RB#50	21.28	PASS
Band66	20MHz	QPSK	132322	100RB#0	21.45	PASS
Band66	20MHz	QPSK	132572	1RB#0	22.37	PASS
Band66	20MHz	QPSK	132572	1RB#49	23.00	PASS
Band66	20MHz	QPSK	132572	1RB#99	22.56	PASS
Band66	20MHz	QPSK	132572	50RB#0	21.59	PASS
Band66	20MHz	QPSK	132572	50RB#25	21.61	PASS
Band66	20MHz	QPSK	132572	50RB#50	21.62	PASS
Band66	20MHz	QPSK	132572	100RB#0	21.60	PASS
Band66	20MHz	16QAM	132072	1RB#0	20.67	PASS
Band66	20MHz	16QAM	132072	1RB#49	21.30	PASS
Band66	20MHz	16QAM	132072	1RB#99	21.24	PASS
Band66	20MHz	16QAM	132072	50RB#0	20.20	PASS
Band66	20MHz	16QAM	132072	50RB#25	20.16	PASS
Band66	20MHz	16QAM	132072	50RB#50	20.47	PASS
Band66	20MHz	16QAM	132072	100RB#0	20.30	PASS
Band66	20MHz	16QAM	132322	1RB#0	21.43	PASS
Band66	20MHz	16QAM	132322	1RB#49	21.41	PASS
Band66	20MHz	16QAM	132322	1RB#99	21.01	PASS
Band66	20MHz	16QAM	132322	50RB#0	20.53	PASS
Band66	20MHz	16QAM	132322	50RB#25	20.55	PASS
Band66	20MHz	16QAM	132322	50RB#50	20.27	PASS
Band66	20MHz	16QAM	132322	100RB#0	20.38	PASS
Band66	20MHz	16QAM	132572	1RB#0	21.13	PASS
Band66	20MHz	16QAM	132572	1RB#49	21.83	PASS
Band66	20MHz	16QAM	132572	1RB#99	21.33	PASS
Band66	20MHz	16QAM	132572	50RB#0	20.55	PASS
Band66	20MHz	16QAM	132572	50RB#25	20.55	PASS
Band66	20MHz	16QAM	132572	50RB#50	20.61	PASS
Band66	20MHz	16QAM	132572	100RB#0	20.57	PASS

Remark:

1. Per KDB941225 D05 v02r05, Start with the largest channel bandwidth then measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among 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. 6 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. Per KDB941225 D05 v02r05, The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
3. Per KDB941225 D05 v02r05, 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 5.2.1 and 5.2.2 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. Per KDB941225 D05 v02r05, For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in 5.2.1, 5.2.2, and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

WLAN(2.4G) - Maximum Average Power					
Test Mode	Data Rate	Channel	Frequency (MHz)	Average Power (dBm)	Tune-up power (dBm)
802.11b	1Mbps	CH 01	2412	7.885	8.0
		CH 06	2437	8.311	8.5
		CH 11	2462	8.468	8.5
802.11g	6Mbps	CH 01	2412	7.308	7.5
		CH 06	2437	7.436	7.5
		CH 11	2462	7.492	7.5
802.11n (20MHz)	MCS0	CH 01	2412	6.589	7.0
		CH 06	2437	6.685	7.0
		CH 11	2462	6.803	7.0
802.11n (40MHz)	MCS0	CH 03	2422	5.340	5.5
		CH 06	2437	5.394	5.5
		CH 09	2452	5.400	5.5

WLAN(5.2G) – Conducted Power				
Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-up power (dBm)
802.11a	CH 36	5180	7.116	7.5
	CH 40	5200	7.141	7.5
	CH 48	5240	7.341	7.5
802.11n (HT20)	CH 36	5180	6.346	6.5
	CH 40	5200	6.147	6.5
	CH 48	5240	6.110	6.5
802.11n (HT40)	CH 38	5190	5.663	6.0
	CH 46	5230	5.504	6.0
802.11ac (HT20)	CH 36	5180	6.515	7.0
	CH 40	5200	6.247	6.5
	CH 48	5240	6.178	6.5
802.11ac (HT40)	CH 38	5190	5.312	5.5
	CH 46	5230	4.904	5.0
802.11ac(VHT80)	CH42	5210	4.159	4.5

WLAN(5.8G) – Conducted Power				
Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-up power (dBm)
802.11a	CH 149	5745	7.265	7.5
	CH 157	5785	7.209	7.5
	CH 165	5825	6.385	6.5
802.11n (HT20)	CH 149	5745	6.447	6.5
	CH 157	5785	6.205	6.5
	CH 165	5825	5.559	6.0
802.11n (HT40)	CH 151	5755	5.865	6.0
	CH 159	5795	5.249	5.5
802.11ac (HT20)	CH 149	5745	6.455	6.5
	CH 157	5785	5.751	6.0
	CH 165	5825	5.521	6.0
802.11ac (HT40)	CH 151	5755	5.349	5.5
	CH 159	5795	4.642	5.0
802.11ac(VHT80)	CH 155	5755	5.400	5.5

Remark:

1. Per KDB 248227 D01 v02r02, For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions.
2. Per KDB 248227 D01 v02r02, For 802.11b DSSS SAR measurements ,when the reported SAR of the highest measured maximum output power channel (see 3.1) for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- 3 .For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is ≤ 1.2 W/kg.
4. Per KDB 248227 D01 v02r02, When multiple channel bandwidth configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined by applying the following steps sequentially.
 - 1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same specified maximum output power.
 - 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
 - 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
 - 4) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n.

Bluetooth - Maximum Average Power			
Test Mode	Data Rate	Average Power(dBm)	Tune-up power (dBm)
GFSK	1Mbps	-0.692	0
Pi/4 QDPSK	2Mbps	2.124	2.5
8DPSK	3Mbps	2.776	3.0

Bluetooth - Maximum Average Power					
Test Mode	Data Rate	Channel	Frequency (MHz)	Average Power (dBm)	Tune-up power (dBm)
BLE	1Mbps	CH 00	2402	-2.220	-2.0
		CH 19	2440	-2.419	-2.0
		CH 39	2480	-2.479	-2.0
	2Mbps	CH 00	2402	-2.212	-2.0
		CH 19	2440	-2.411	-2.0
		CH 39	2480	-2.467	-2.0

Remark:

Bluetooth maximum output power is 2.776dBm and Maximum Tune-Up output power is 3.0dBm,. Per KDB 447498 D01 V06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,¹⁶ where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

Bluetooth:

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit
3.0	2.00	5	2.48	0.63	3

2.4G WIFI

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit
8.5	7.08	5	2.462	2.22	3

5.2G WLAN:

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit
7.5	5.62	5	5.24	2.57	3

5.8G WLAN:

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit
7.5	5.62	5	5.745	2.69	3

The exclusion thresholds is $2.69 < 3$, therefore, the RF exposure evaluation is not required.

9.2 Test Results for Standalone SAR Test

Body Worn SAR

GSM850 – Body SAR Test (Gap: 0mm)									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
1.	GSM850	Back Side	190	836.6	33.79	34.0	1.050	0.652	0.684
	GSM850	Front Side	190	836.6	33.79	34.0	1.050	0.132	0.139

GSM1900 – Body SAR Test (Gap: 0mm)									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
2.	GSM1900	Back Side	512	1850.2	28.86	29.0	1.033	0.751	0.776
	GSM1900	Front Side	512	1850.2	28.86	29.0	1.033	0.279	0.288

WCDMA Band 4 – Body SAR Test (Gap: 0mm)									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
3.	RMC 12.2k	Back Side	1312	1712.4	21.09	21.5	1.099	0.686	0.754
	RMC 12.2k	Front Side	1312	1712.4	21.09	21.5	1.099	0.226	0.248

WCDMA Band 5 – Body SAR Test (Gap: 0mm)									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	RMC 12.2k	Back Side	4132	826.4	22.47	22.5	1.007	0.849	0.855
	RMC 12.2k	Front Side	4132	826.4	22.47	22.5	1.007	0.197	0.198
4.	RMC 12.2k	Back Side	4183	836.6	22.38	22.5	1.028	0.839	0.863
	RMC 12.2k	Back Side	4233	846.6	22.43	22.5	1.016	0.798	0.811

LTE Band 2–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position Body	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Back Side	1880	22.83	23.0	1.040	0.890	0.926
	QPSK 20MHz 1RB	Front Side	1880	22.83	23.0	1.040	0.268	0.279
	QPSK 20MHz 50%RB	Back Side	1880	22.83	23.0	1.040	0.659	0.685
	QPSK 20MHz 50%RB	Front Side	1880	22.83	23.0	1.040	0.222	0.231
	QPSK 20MHz 50%RB	Back Side	1860	22.56	23.0	1.107	0.867	0.959
5.	QPSK 20MHz 50%RB	Back Side	1900	22.67	23.0	1.079	0.902	0.973

LTE Band 4–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position Body	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
6.	QPSK 20MHz 1RB	Back Side	1732.5	22.85	23.0	1.035	0.595	0.616
	QPSK 20MHz 1RB	Front Side	1732.5	22.85	23.0	1.035	0.236	0.244
	QPSK 20MHz 50%RB	Back Side	1732.5	22.85	23.0	1.035	0.527	0.546
	QPSK 20MHz 50%RB	Front Side	1732.5	22.85	23.0	1.035	0.203	0.210

LTE Band 5–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position Body	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
7.	QPSK 10MHz 1RB	Back Side	829	23.62	24.0	1.091	0.633	0.691
	QPSK 10MHz 1RB	Front Side	829	23.62	24.0	1.091	0.149	0.163
	QPSK 10MHz 50%RB	Back Side	829	23.62	24.0	1.091	0.521	0.569
	QPSK 10MHz 50%RB	Front Side	829	23.62	24.0	1.091	0.116	0.127

LTE Band 7–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position Body	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
8.	QPSK 20MHz 1RB	Back Side	2560	22.58	23.0	1.102	0.579	0.638
	QPSK 20MHz 1RB	Front Side	2560	22.58	23.0	1.102	0.297	0.327
	QPSK 20MHz 50%RB	Back Side	2560	22.58	23.0	1.102	0.526	0.579
	QPSK 20MHz 50%RB	Front Side	2560	22.58	23.0	1.102	0.268	0.295

LTE Band 25–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position Body	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
9.	QPSK 20MHz 1RB	Back Side	1905	22.17	22.5	1.079	0.672	0.725
	QPSK 20MHz 1RB	Front Side	1905	22.17	22.5	1.079	0.225	0.243
	QPSK 20MHz 50%RB	Back Side	1905	22.17	22.5	1.079	0.552	0.596
	QPSK 20MHz 50%RB	Front Side	1905	22.17	22.5	1.079	0.169	0.182

LTE Band 66–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position Body	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
10.	QPSK 20MHz 1RB	Back Side	1745	23.00	23.5	1.122	0.706	0.792
	QPSK 20MHz 1RB	Front Side	1745	23.00	23.5	1.122	0.249	0.279
	QPSK 20MHz 50%RB	Back Side	1745	23.00	23.5	1.122	0.610	0.684
	QPSK 20MHz 50%RB	Front Side	1745	23.00	23.5	1.122	0.214	0.240

Hotspot SAR

GPRS850 – Head SAR Test									
Plot No.	Mode	Test Position Head	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
11.	GPRS_2TX	Back Face	190	836.6	33.28	33.5	1.052	0.590	0.621
	GPRS_2TX	Front Face	190	836.6	33.28	33.5	1.052	0.124	0.130
	GPRS_2TX	Left Side	190	836.6	33.28	33.5	1.052	0.107	0.113
	GPRS_2TX	Top Side	190	836.6	33.28	33.5	1.052	0.458	0.482

GPRS1900 – Head SAR Test									
Plot No.	Mode	Test Position Head	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	M Hz					
12.	GPRS_3TX	Back Face	810	1909.8	28.33	28.5	1.040	0.739	0.769
	GPRS_3TX	Front Face	810	1909.8	28.33	28.5	1.040	0.310	0.322
	GPRS_3TX	Left Side	810	1909.8	28.33	28.5	1.040	0.647	0.673
	GPRS_3TX	Top Side	810	1909.8	28.33	28.5	1.040	0.388	0.403

WCDMA Band 4 – Body SAR Test (Gap: 0mm)									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
13.	RMC 12.2k	Back Face	1312	1712.4	21.09	21.5	1.099	0.686	0.754
	RMC 12.2k	Front Face	1312	1712.4	21.09	21.5	1.099	0.226	0.248
	RMC 12.2k	Left Side	1312	1712.4	21.09	21.5	1.099	0.619	0.680
	RMC 12.2k	Top Side	1312	1712.4	21.09	21.5	1.099	0.215	0.236

WCDMA Band 5 – Body SAR Test (Gap: 0mm)									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	RMC 12.2k	Back Face	4132	826.4	22.47	22.5	1.007	0.849	0.855
	RMC 12.2k	Front Face	4132	826.4	22.47	22.5	1.007	0.197	0.198
	RMC 12.2k	Left Side	4132	826.4	22.47	22.5	1.007	0.166	0.167
	RMC 12.2k	Top Side	4132	826.4	22.47	22.5	1.007	0.636	0.640
14.	RMC 12.2k	Back Face	4183	836.4	22.38	22.5	1.028	0.839	0.863
	RMC 12.2k	Back Face	4233	846.6	22.43	22.5	1.016	0.798	0.811

LTE Band 2–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position Body	Freque ncy	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Back Face	1880	22.83	23.0	1.040	0.890	0.926
	QPSK 20MHz 1RB	Front Face	1880	22.83	23.0	1.040	0.268	0.279
	QPSK 20MHz 1RB	Left Side	1880	22.83	23.0	1.040	0.603	0.627
	QPSK 20MHz 1RB	Top Side	1880	22.83	23.0	1.040	0.248	0.258
	QPSK 20MHz 50%RB	Back Face	1880	22.83	23.0	1.040	0.659	0.685
	QPSK 20MHz 50%RB	Front Face	1880	22.83	23.0	1.040	0.222	0.231
	QPSK 20MHz 50%RB	Left Side	1880	22.83	23.0	1.040	0.513	0.533
	QPSK 20MHz 50%RB	Top Side	1880	22.83	23.0	1.040	0.203	0.211
	QPSK 20MHz 50%RB	Back Face	1860	22.56	23.0	1.107	0.867	0.959
15.	QPSK 20MHz 50%RB	Back Face	1900	22.67	23.0	1.079	0.902	0.973

LTE Band 4–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position Body	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
16.	QPSK 20MHz 1RB	Back Face	1732.5	22.85	23.0	1.035	0.595	0.616
	QPSK 20MHz 1RB	Front Face	1732.5	22.85	23.0	1.035	0.236	0.244
	QPSK 20MHz 1RB	Left Side	1732.5	22.85	23.0	1.035	0.557	0.577
	QPSK 20MHz 1RB	Top Side	1732.5	22.85	23.0	1.035	0.171	0.177
	QPSK 20MHz 50%RB	Back Face	1732.5	22.85	23.0	1.035	0.527	0.546
	QPSK 20MHz 50%RB	Front Face	1732.5	22.85	23.0	1.035	0.203	0.210
	QPSK 20MHz 50%RB	Left Side	1732.5	22.85	23.0	1.035	0.481	0.498
	QPSK 20MHz 50%RB	Top Side	1732.5	22.85	23.0	1.035	0.152	0.157

LTE Band 5–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position Body	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
17.	QPSK 10MHz 1RB	Back Face	829	23.62	24.0	1.091	0.633	0.691
	QPSK 10MHz 1RB	Front Face	829	23.62	24.0	1.091	0.149	0.163
	QPSK 10MHz 1RB	Left Side	829	23.62	24.0	1.091	0.124	0.135
	QPSK 10MHz 1RB	Top Side	829	23.62	24.0	1.091	0.444	0.485
	QPSK 10MHz 50%RB	Back Face	829	23.62	24.0	1.091	0.521	0.569
	QPSK 10MHz 50%RB	Front Face	829	23.62	24.0	1.091	0.116	0.127
	QPSK 10MHz 50%RB	Left Side	829	23.62	24.0	1.091	0.098	0.107
	QPSK 10MHz 50%RB	Top Side	829	23.62	24.0	1.091	0.364	0.397

LTE Band 7–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position Body	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
18.	QPSK 20MHz 1RB	Back Face	2560	22.58	23.0	1.102	0.579	0.638
	QPSK 20MHz 1RB	Front Face	2560	22.58	23.0	1.102	0.297	0.327
	QPSK 20MHz 1RB	Left Side	2560	22.58	23.0	1.102	0.193	0.213
	QPSK 20MHz 1RB	Top Side	2560	22.58	23.0	1.102	0.299	0.329
	QPSK 20MHz 50%RB	Back Face	2560	22.58	23.0	1.102	0.526	0.579
	QPSK 20MHz 50%RB	Front Face	2560	22.58	23.0	1.102	0.268	0.295
	QPSK 20MHz 50%RB	Left Side	2560	22.58	23.0	1.102	0.173	0.191
	QPSK 20MHz 50%RB	Top Side	2560	22.58	23.0	1.102	0.276	0.304

LTE Band 25–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position Body	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
19.	QPSK 20MHz 1RB	Back Face	1905	22.17	22.5	1.079	0.672	0.725
	QPSK 20MHz 1RB	Front Face	1905	22.17	22.5	1.079	0.225	0.243
	QPSK 20MHz 1RB	Left Side	1905	22.17	22.5	1.079	0.521	0.562
	QPSK 20MHz 1RB	Top Side	1905	22.17	22.5	1.079	0.281	0.303
	QPSK 20MHz 50%RB	Back Face	1905	22.17	22.5	1.079	0.552	0.596
	QPSK 20MHz 50%RB	Front Face	1905	22.17	22.5	1.079	0.169	0.182
	QPSK 20MHz 50%RB	Left Side	1905	22.17	22.5	1.079	0.441	0.476
	QPSK 20MHz 50%RB	Top Side	1905	22.17	22.5	1.079	0.222	0.240

LTE Band 66–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position Body	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
20.	QPSK 20MHz 1RB	Back Face	1745	23.00	23.5	1.122	0.706	0.792
	QPSK 20MHz 1RB	Front Face	1745	23.00	23.5	1.122	0.249	0.279
	QPSK 20MHz 1RB	Left Side	1745	23.00	23.5	1.122	0.228	0.256
	QPSK 20MHz 1RB	Top Side	1745	23.00	23.5	1.122	0.554	0.622
	QPSK 20MHz 50%RB	Back Face	1745	23.00	23.5	1.122	0.610	0.684
	QPSK 20MHz 50%RB	Front Face	1745	23.00	23.5	1.122	0.214	0.240
	QPSK 20MHz 50%RB	Left Side	1745	23.00	23.5	1.122	0.194	0.218
	QPSK 20MHz 50%RB	Top Side	1745	23.00	23.5	1.122	0.463	0.519

Remark: Per KDB 447498 D01 v06, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

9.3 Simultaneous Multi-band Transmission SAR Analysis

List of Mode for Simultaneous Multi-band Transmission

No.	Configurations	Body SAR
1	GSM(Voice/Data) + WLAN(2.4G)(Data)	Yes
2	WCDMA (Voice/Data)+ (2.4G)(Data)	Yes
3	LTE(Data) + (2.4G)(Data)	Yes
4	GSM(Voice/Data) + WLAN(5G)(Data)	Yes
5	WCDMA (Voice/Data)+ (5G)(Data)	Yes
6	LTE(Data) + (5G)(Data)	Yes
7	GSM(Voice/Data) + Bluetooth(Data)	Yes
8	WCDMA (Voice/Data) + Bluetooth(Data)	Yes
9	LTE(Data) + Bluetooth(Data)	Yes

Remark:

1. GSM ,WCDMA and LTE share the same antenna, and cannot transmit simultaneously.
2. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
3. According to the KDB 447498 D01 v06, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm}) \cdot [\sqrt{f(\text{GHz})}/x]$ W/kg for test separation distances ≤ 50 mm;

where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.

For simultaneous transmission analysis, Bluetooth SAR is estimated per KDB 447498 D01 v06 as below:

Bluetooth:

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	X	SAR(1g) 5mm	SAR(1g) 10mm
3.0	2.00	5/10	2.48	7.5	0.084	0.042

WLAN(2.4G):

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	X	SAR(1g) 5mm	SAR(1g) 10mm
8.5	7.08	5/10	2.462	7.5	0.296	0.148

WLAN(5.2G):

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	X	SAR(1g) 5mm	SAR(1g) 10mm
7.5	5.62	5/10	5.24	7.5	0.343	0.172

WLAN(5.8G):

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	X	SAR(1g) 5mm	SAR(1g) 10mm
7.5	5.62	5/10	5.745	7.5	0.359	0.180

4. The maximum SAR summation is calculated based on the same configuration and test position.

Body-worn SAR**WWAN and WLAN**

	WWAN		WLAN(2.4G)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.776	0.296	1.072
Front	GSM	0.288	0.296	0.584
Back	WCDMA	0.863	0.296	1.159
Front	WCDMA	0.248	0.296	0.544
Back	LTE	0.973	0.296	1.269
Front	LTE	0.327	0.296	0.623

WWAN and WLAN

	WWAN		WLAN(5G)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.776	0.359	1.135
Front	GSM	0.288	0.359	0.647
Back	WCDMA	0.863	0.359	1.222
Front	WCDMA	0.248	0.359	0.607
Back	LTE	0.973	0.359	1.332
Front	LTE	0.327	0.359	0.686

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.776	0.084	0.860
Front	GSM	0.288	0.084	0.372
Back	WCDMA	0.863	0.084	0.947
Front	WCDMA	0.248	0.084	0.332
Back	LTE	0.973	0.084	1.057
Front	LTE	0.327	0.084	0.411

Hotspot SAR**WWAN and WLAN**

	WWAN		WLAN(2.4G)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.769	0.148	0.917
Front	GSM	0.322	0.148	0.470
Right side	GSM	--	0.148	0.148
Left side	GSM	0.673	0.148	0.821
Top side	GSM	0.482	0.148	0.630
Bottom side	GSM	--	0.148	0.148
Back	WCDMA	0.863	0.148	1.011
Front	WCDMA	0.248	0.148	0.396
Right side	WCDMA	--	0.148	0.148
Left side	WCDMA	0.680	0.148	0.828
Top side	WCDMA	0.640	0.148	0.788
Bottom side	WCDMA	--	0.148	0.148
Back	LTE	0.973	0.148	1.121
Front	LTE	0.327	0.148	0.475
Right side	LTE	--	0.148	0.148
Left side	LTE	0.627	0.148	0.775
Top side	LTE	0.622	0.148	0.77
Bottom side	LTE	--	0.148	0.148

WWAN and WLAN

	WWAN		WLAN(5G)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.769	0.172	0.941
Front	GSM	0.322	0.172	0.494
Right side	GSM	--	0.172	0.172
Left side	GSM	0.673	0.172	0.845
Top side	GSM	0.482	0.172	0.654
Bottom side	GSM	--	0.172	0.172
Back	WCDMA	0.863	0.172	1.035
Front	WCDMA	0.248	0.172	0.420
Right side	WCDMA	--	0.172	0.172

Left side	WCDMA	0.680	0.172	0.852
Top side	WCDMA	0.640	0.172	0.812
Bottom side	WCDMA	--	0.172	0.172
Back	LTE	0.973	0.172	1.145
Front	LTE	0.327	0.172	0.499
Right side	LTE	--	0.172	0.172
Left side	LTE	0.627	0.172	0.799
Top side	LTE	0.622	0.172	0.794
Bottom side	LTE	--	0.172	0.172

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.769	0.042	0.811
Front	GSM	0.322	0.042	0.364
Right side	GSM	--	0.042	0.042
Left side	GSM	0.673	0.042	0.715
Top side	GSM	0.482	0.042	0.524
Bottom side	GSM	--	0.042	0.042
Back	WCDMA	0.863	0.042	0.905
Front	WCDMA	0.248	0.042	0.290
Right side	WCDMA	--	0.042	0.042
Left side	WCDMA	0.680	0.042	0.722
Top side	WCDMA	0.640	0.042	0.682
Bottom side	WCDMA	--	0.042	0.042
Back	LTE	0.973	0.042	1.015
Front	LTE	0.327	0.042	0.369
Right side	LTE	--	0.042	0.042
Left side	LTE	0.627	0.042	0.669
Top side	LTE	0.622	0.042	0.664
Bottom side	LTE	--	0.042	0.042

10. Measurement Uncertainty

10.1 Uncertainty for EUT SAR Test

a	b	c	d	e= f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	Vi
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	∞
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	$(1_{Cp})^{1/2}$	$(1_{Cp})^{1/2}$	1.02	1.02	∞
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	$(Cp)^{1/2}$	$(Cp)^{1/2}$	1.63	1.63	∞
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	∞
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
RF ambient Conditions – Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient Conditions - Reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	E.5	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Test Sample Related									
Test sample positioning	E.4.2	0.03	N	1	1	1	0.03	0.03	N-1
Device Holder Uncertainty	E.4.1	5.00	N	1	1	1	5.00	5.00	
Output power Variation - SAR drift measurement	E.2.9	12.02	R	$\sqrt{3}$	1	1	6.94	6.94	∞
SAR scaling	E6.5	0.0	R	$\sqrt{3}$	1	1	0.0	0.0	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E3.2	1.9	R	$\sqrt{3}$	1	0.84	1.10	0.90	∞

Liquid conductivity - deviation from target value	E.3.2	5.00	R	$\sqrt{3}$	0.64	0.43	1.85	1.24	∞
Liquid conductivity - measurement uncertainty	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	∞
Liquid permittivity - deviation from target value	E.3.2	0.37	R	$\sqrt{3}$	0.6	0.49	0.13	0.10	∞
Liquid permittivity - measurement uncertainty	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	∞
Combined Standard Uncertainty			RSS				12.98	12.53	
Expanded Uncertainty (95% Confidence interval)			K=2				25.32	24.43	

10.2 Uncertainty for System Performance Check

a	b	c	d	e= f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	Vi
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	∞
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	$(1_Cp)^{1/2}$	$(1_Cp)^{1/2}$	1.02	1.02	∞
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	$(Cp)^{1/2}$	$(Cp)^{1/2}$	1.63	1.63	∞
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E.2.5	0	R	$\sqrt{3}$	0	0	0.0	0.0	∞
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	∞
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
RF ambient Conditions – Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient Conditions - Reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Extrapolation, interpolation and	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞

integration Algorithms for Max. SAR Evaluation									
Dipole									
Dipole axis to liquid Distance	8,E.4.2	1.00	N	$\sqrt{3}$	1	1	0.58	0.58	N-1
Input power and SAR drift measurement	8,6.6.2	12.02	R	$\sqrt{3}$	1	1	6.94	6.94	∞
Deviation of experimental dipole from numerical dipole	E.6.4	5.5	R	$\sqrt{3}$	1	1	3.20	3.20	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E3.2	2.0	R	$\sqrt{3}$	1	0.84	1.10	1.10	∞
Liquid conductivity - deviation from target value	E.3.2	5.00	R	$\sqrt{3}$	0.64	0.43	1.85	1.24	
Liquid conductivity - measurement uncertainty	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	
Liquid permittivity - deviation from target value	E.3.2	0.37	R	$\sqrt{3}$	0.6	0.49	0.13	0.10	
Liquid permittivity - measurement uncertainty	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M
Combined Standard Uncertainty			RSS				12.00	11.50	
Expanded Uncertainty (95% Confidence interval)			K=2				23.39	22.43	

Annex A. Plots of System Performance Check

MEASUREMENT 1

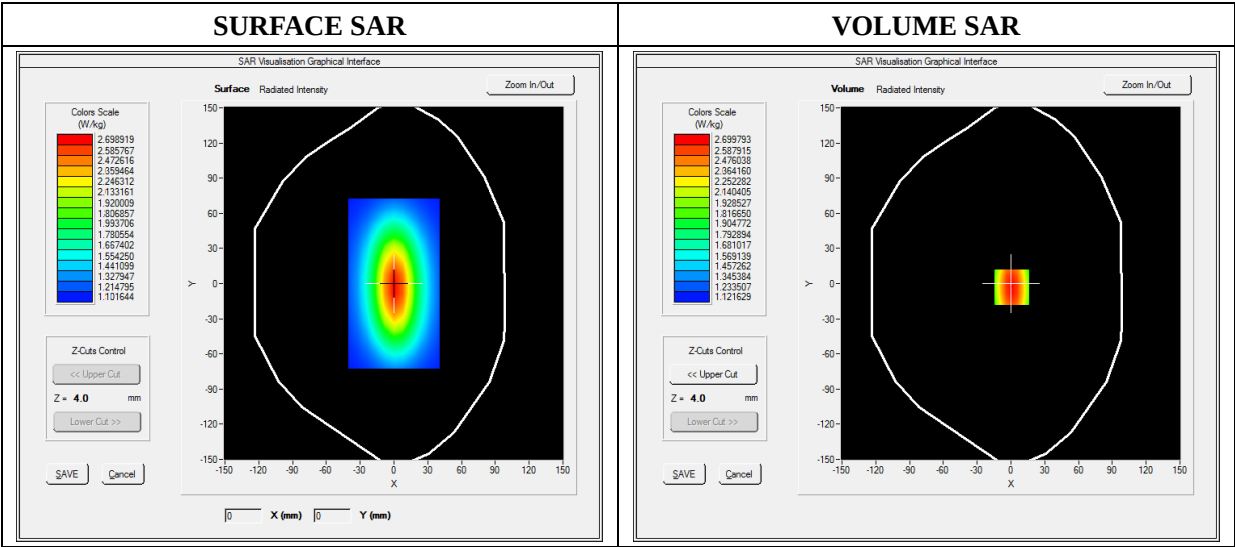
Type: Validation measurement (Fast, 75.00 %)
Measurement duration: 7 minutes 21 seconds
E-field Probe: SSE5 - SN 18/21 EPGO356; ConvF: 1.67; Calibrated: 2021-07-16

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative Permittivity (real part)	41.020574
Conductivity (S/m)	0.860583
Power Variation (%)	0.038363
Ambient Temperature	22.0
Liquid Temperature	22.2

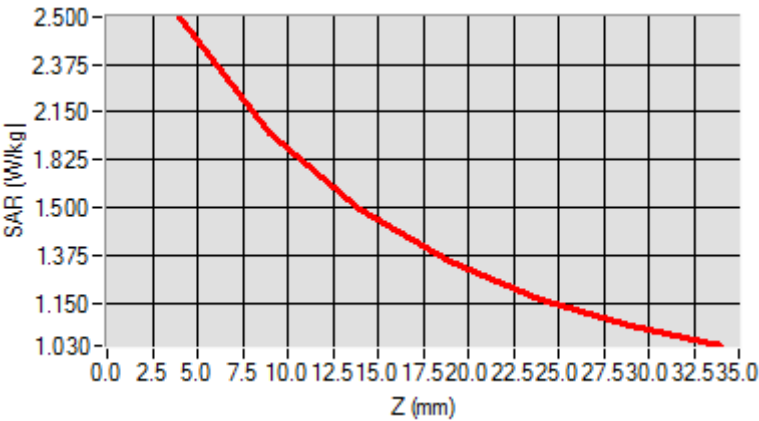


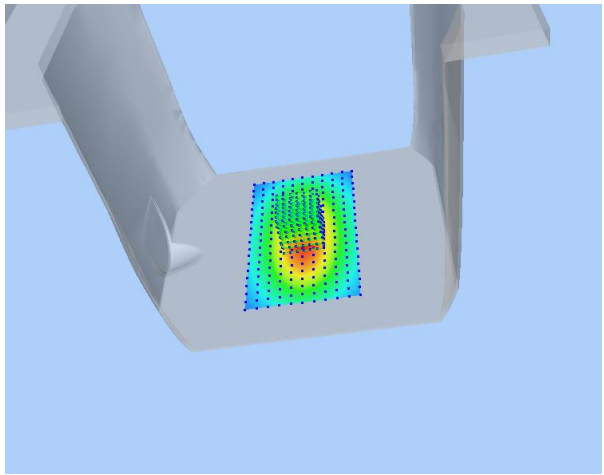
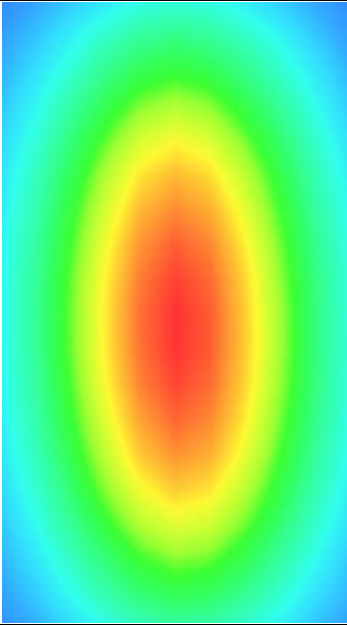
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.042744
SAR 1g (W/Kg)	2.180534

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	2.3634	1.8023	1.4523	1.2514	1.1005	1.0245



3D screen shot	Hot spot position
	

MEASUREMENT 2

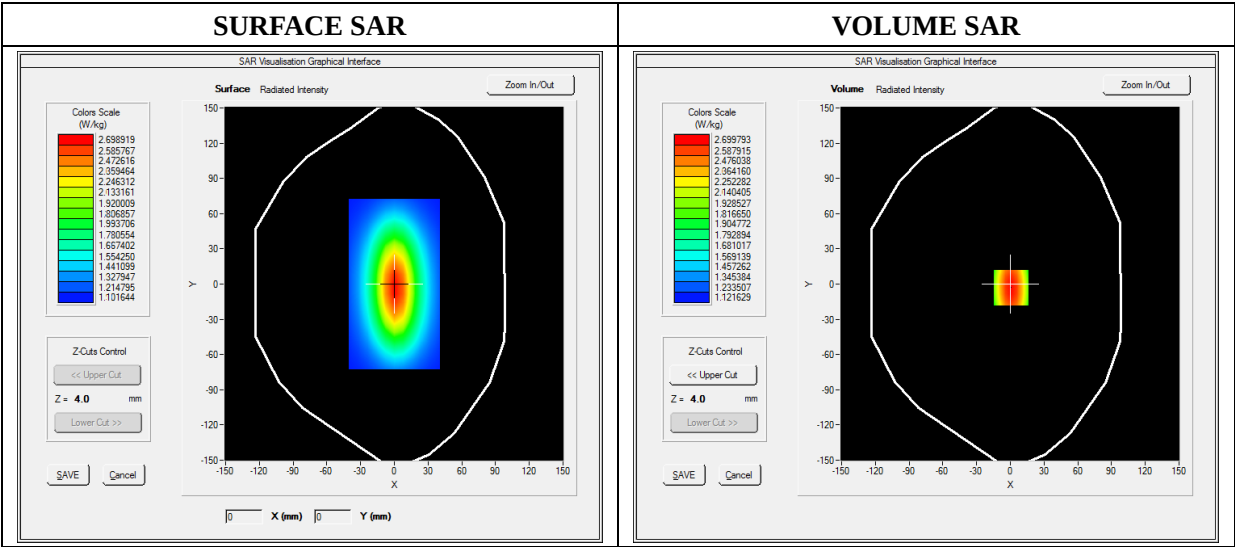
Type: Validation measurement (Fast, 75.00 %)
Measurement duration: 7 minutes 21 seconds
E-field Probe: SSE5 - SN 18/21 EPGO356; ConvF: 1.67; Calibrated: 2021-07-16

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative Permittivity (real part)	40.750245
Conductivity (S/m)	0.881245
Power Variation (%)	0.428437
Ambient Temperature	22.0
Liquid Temperature	22.2

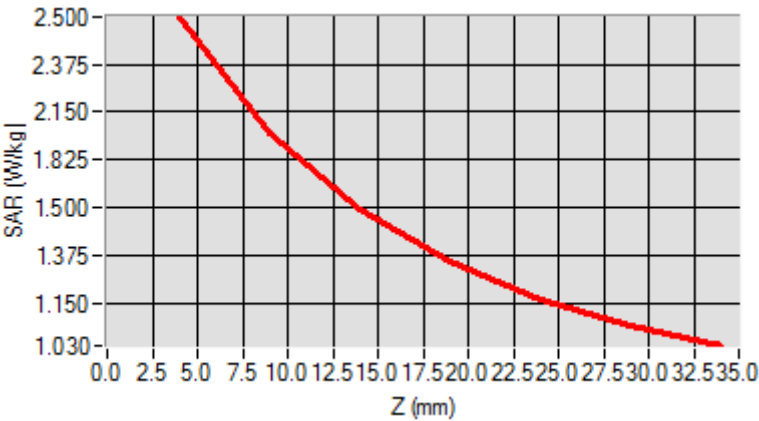


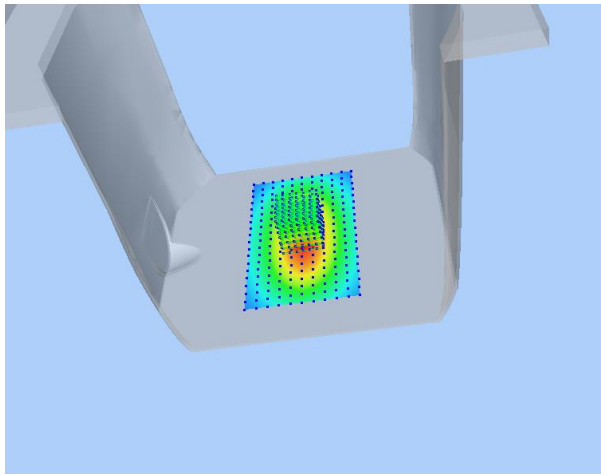
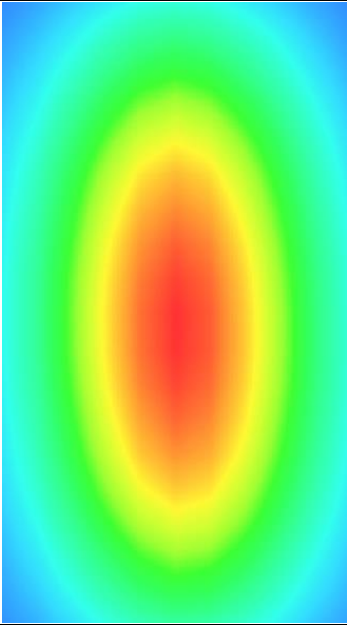
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.519489
SAR 1g (W/Kg)	2.511253

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	2.4900	1.8942	1.4811	1.3541	1.1123	1.0539



3D screen shot	Hot spot position
	

MEASUREMENT 3

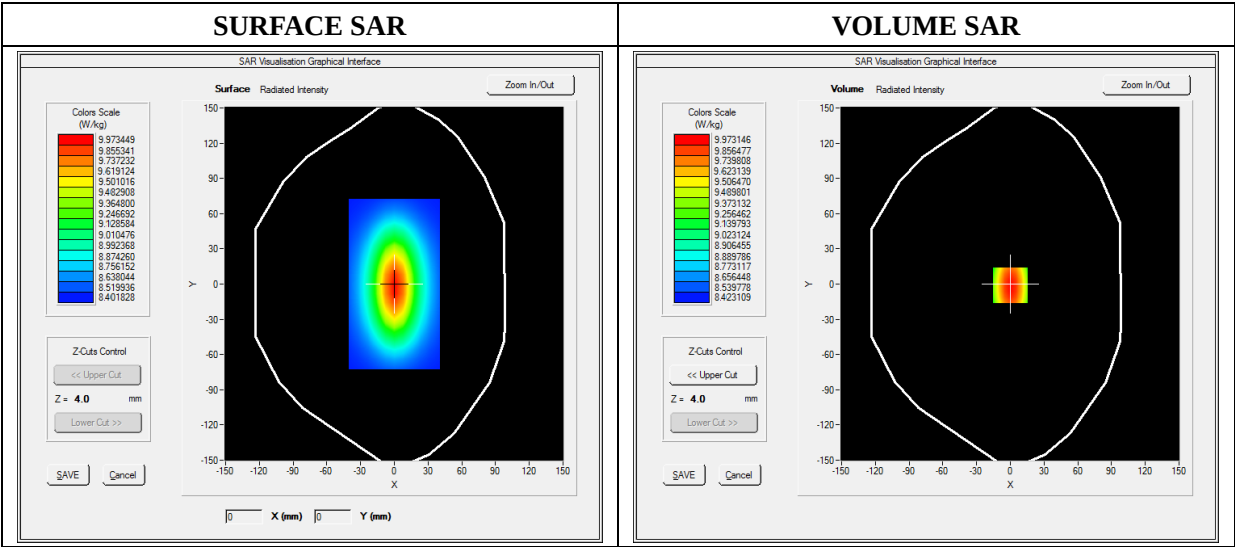
Type: Validation measurement (Fast, 75.00 %)
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE5 - SN 18/21 EPGO356; ConvF: 1.67; Calibrated: 2021-07-16

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative Permittivity (real part)	39.427090
Conductivity (S/m)	1.382510
Power Variation (%)	1.041232
Ambient Temperature	22.0
Liquid Temperature	22.2

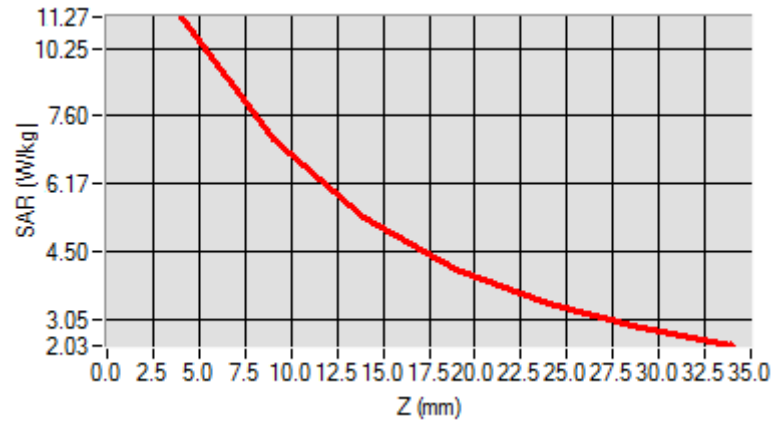


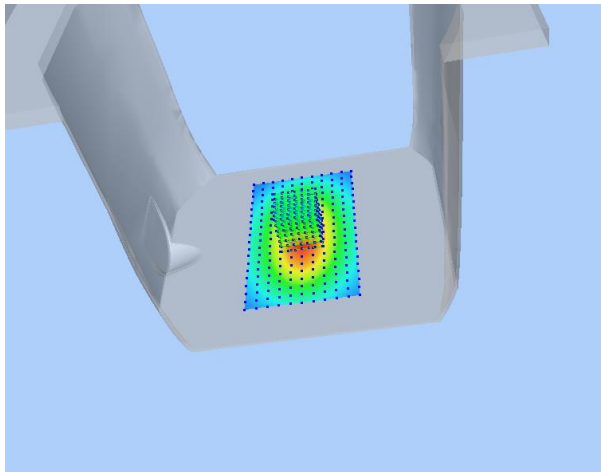
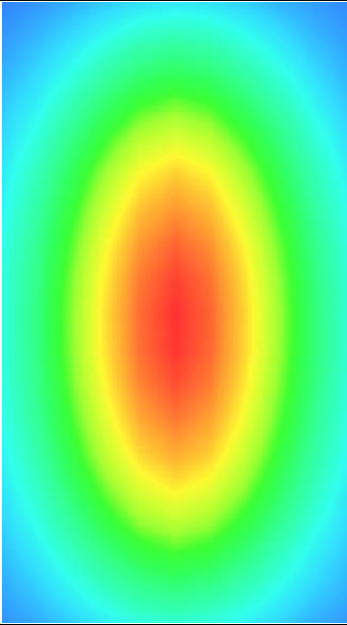
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.081252
SAR 1g (W/Kg)	9.461217

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.3455	7.1125	5.1026	3.425	3.0242	2.1125



3D screen shot	Hot spot position
	

MEASUREMENT 4

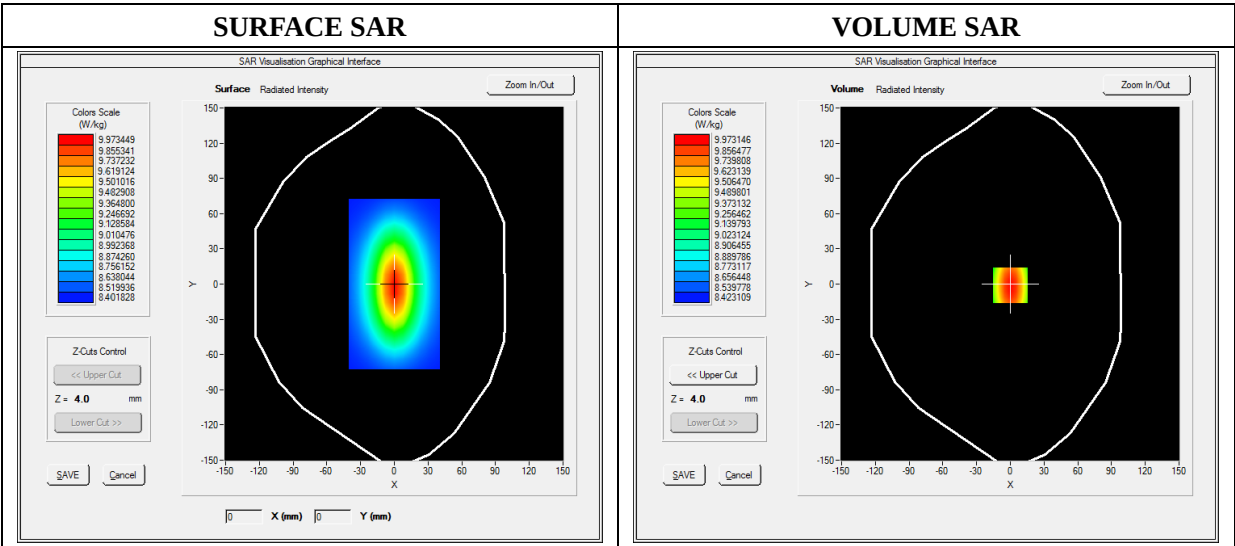
Type: Validation measurement (Fast, 75.00 %)
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE5 - SN 18/21 EPGO356; ConvF: 1.67; Calibrated: 2021-07-16

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative Permittivity (real part)	39.060124
Conductivity (S/m)	1.393607
Power Variation (%)	1.022540
Ambient Temperature	22.0
Liquid Temperature	22.2

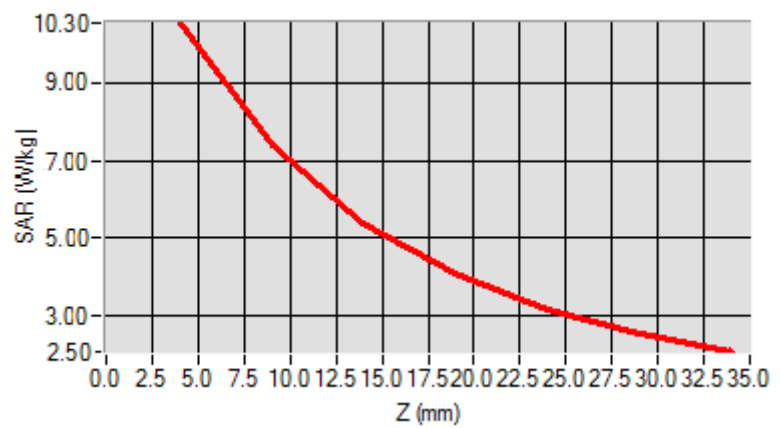


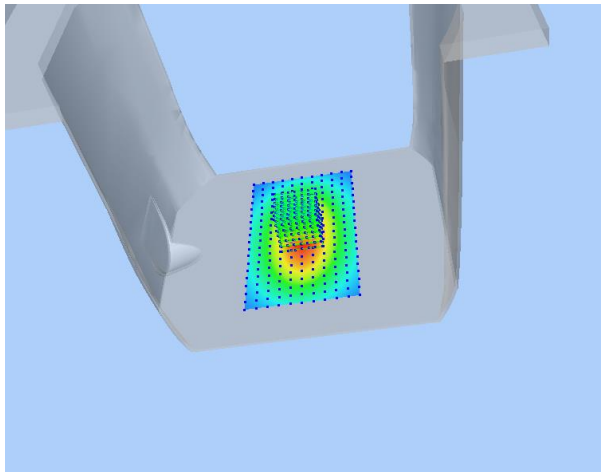
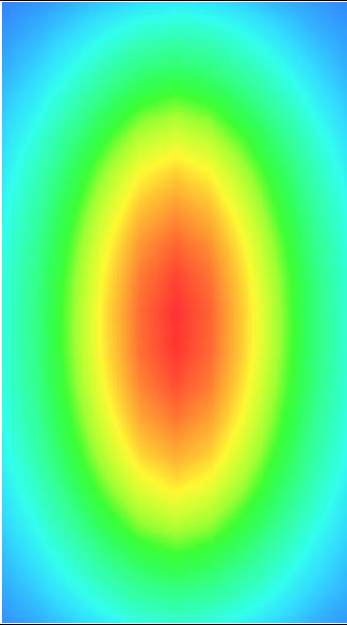
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.174526
SAR 1g (W/Kg)	9.913214

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.2354	6.8400	5.0121	4.1189	3.0522	2.8424



3D screen shot	Hot spot position
	

MEASUREMENT 5

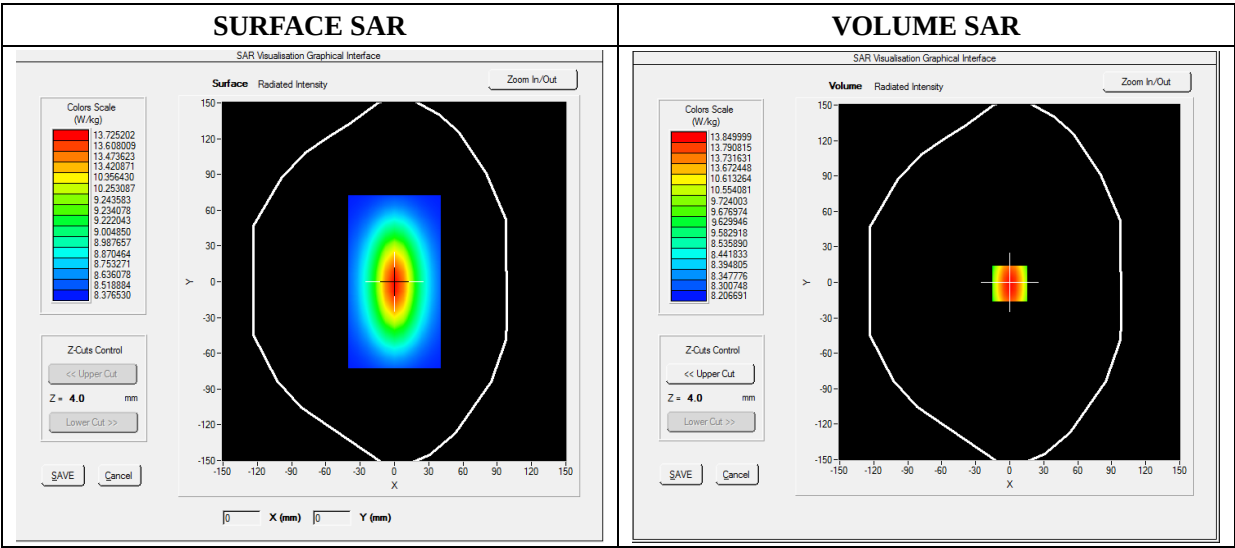
Type: Validation measurement (Fast, 75.00 %)
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE5 - SN 18/21 EPGO356; ConvF: 1.67; Calibrated: 2021-07-16

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative Permittivity (real part)	37.934092
Conductivity (S/m)	1.973182
Power Variation (%)	0.886021
Ambient Temperature	22.0
Liquid Temperature	22.2

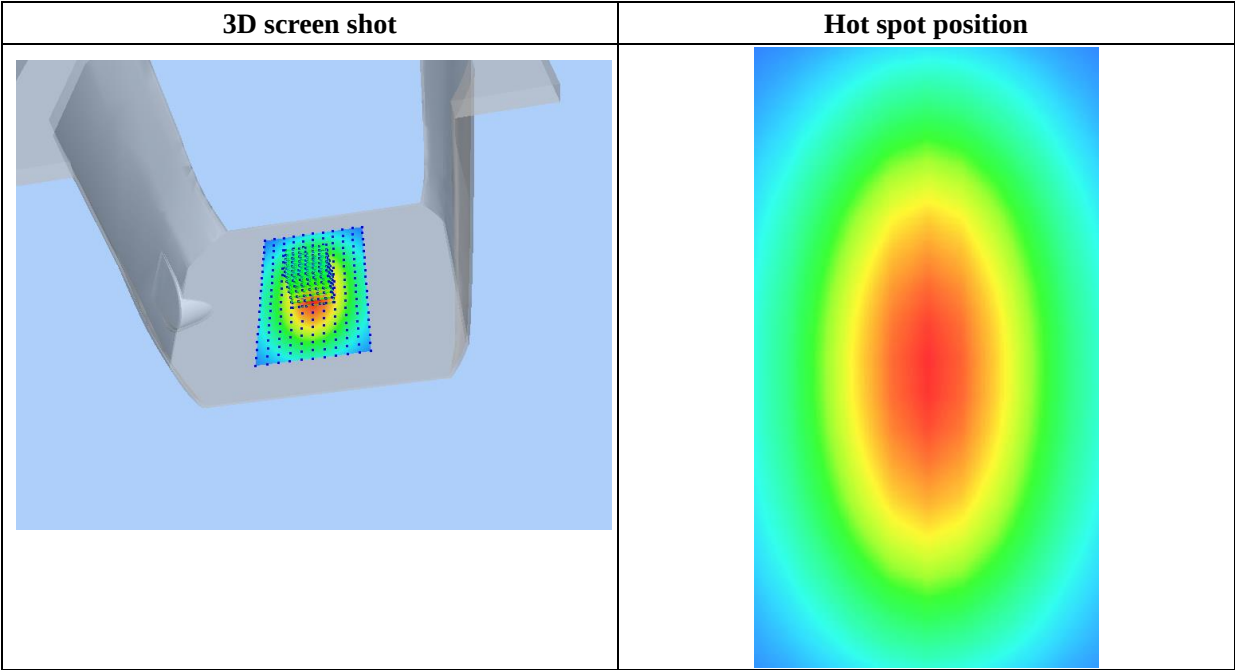
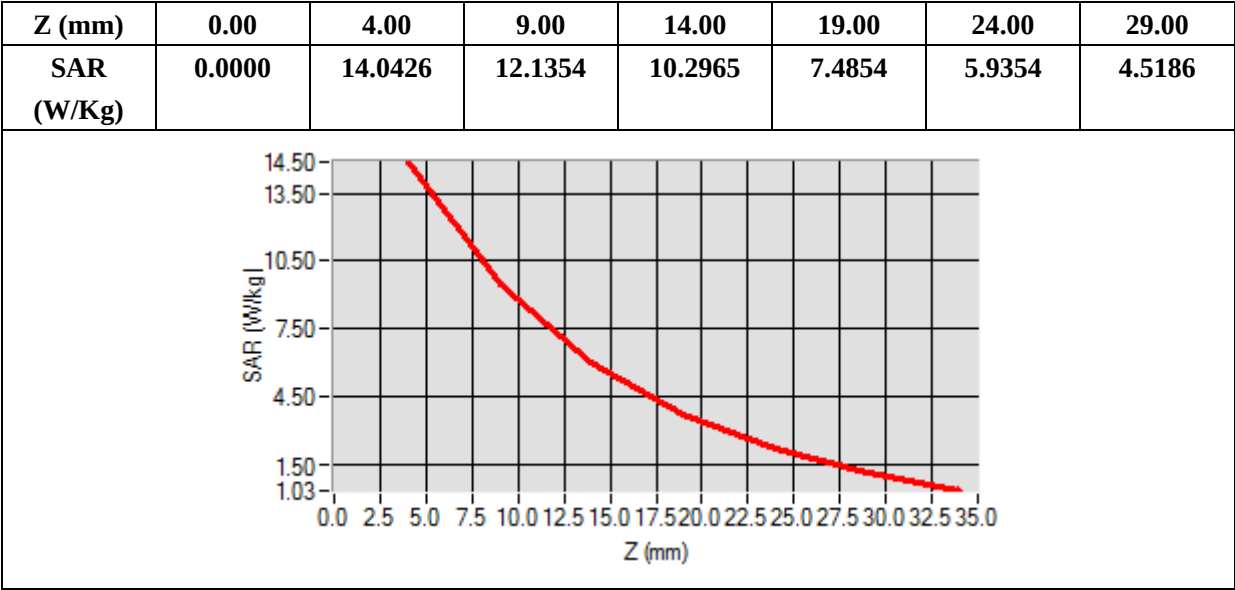


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	8.230801
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SAR 1g (W/Kg)	13.539282
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Z Axis Scan



Annex B. Plots of SAR Measurement

MEASUREMENT 1

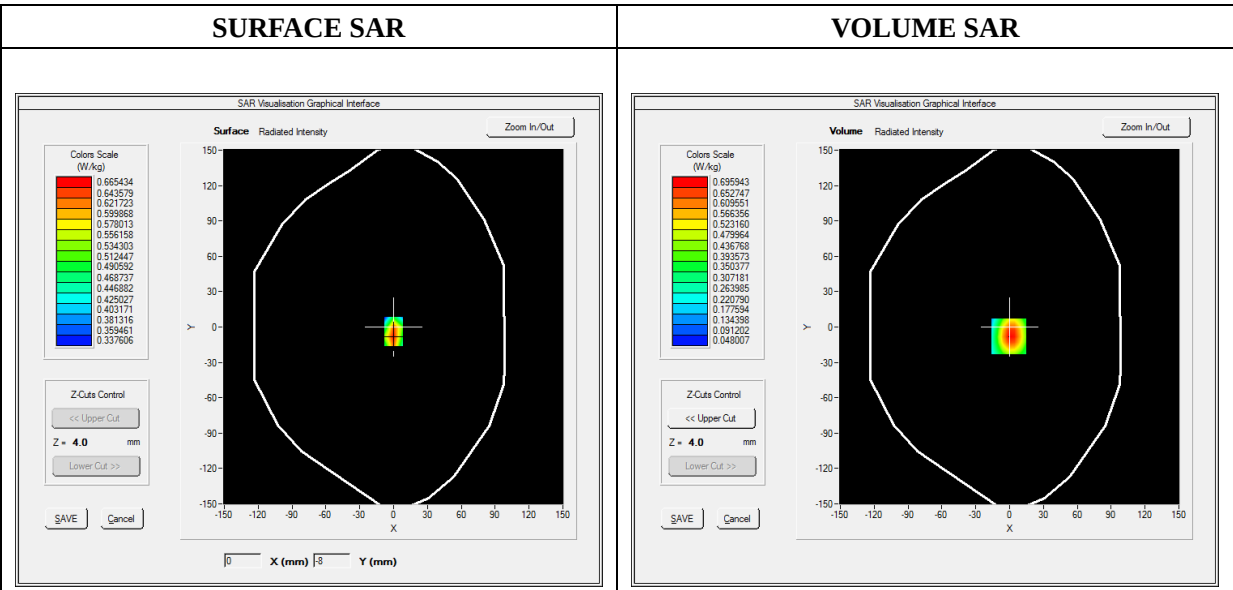
Type: Phone measurement (Complete)
Date of measurement: 2021-08-31
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

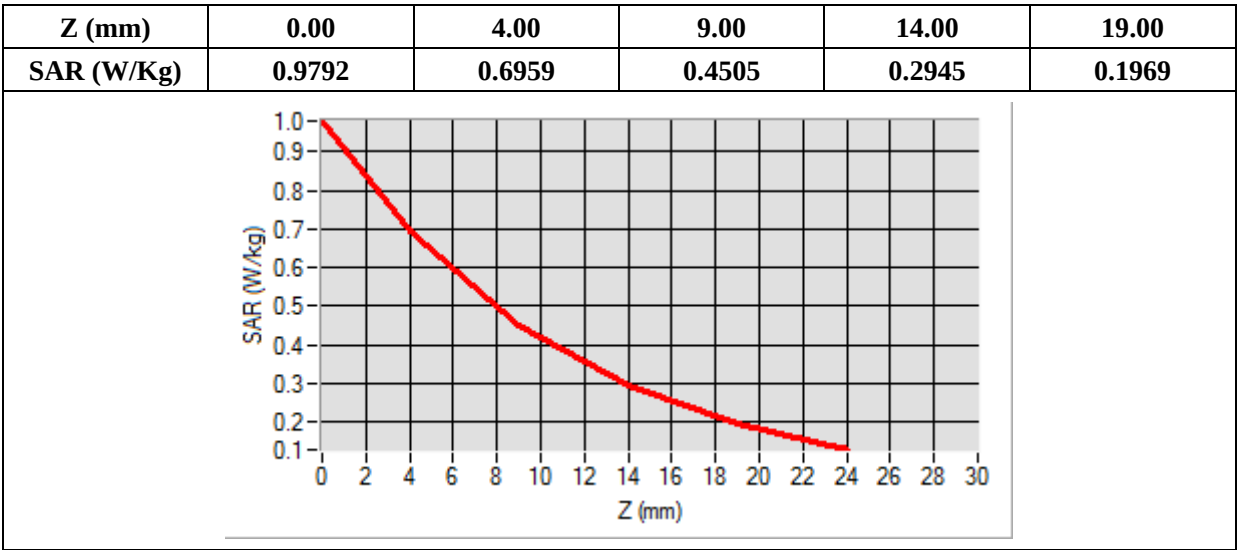
Frequency (MHz)	836.600000
Relative Permittivity (real part)	55.751214
Conductivity (S/m)	0.962454
Power Variation (%)	0.721472
Ambient Temperature	22.0
Liquid Temperature	22.2

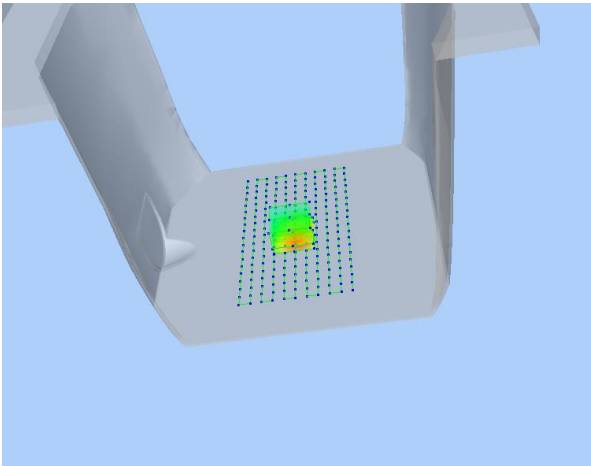


Maximum location: X=-1.00, Y=-8.00

SAR Peak: 1.01 W/kg

SAR 10g (W/Kg)	0.391478
SAR 1g (W/Kg)	0.651630



3D screen shot	Hot spot position
	

MEASUREMENT 2

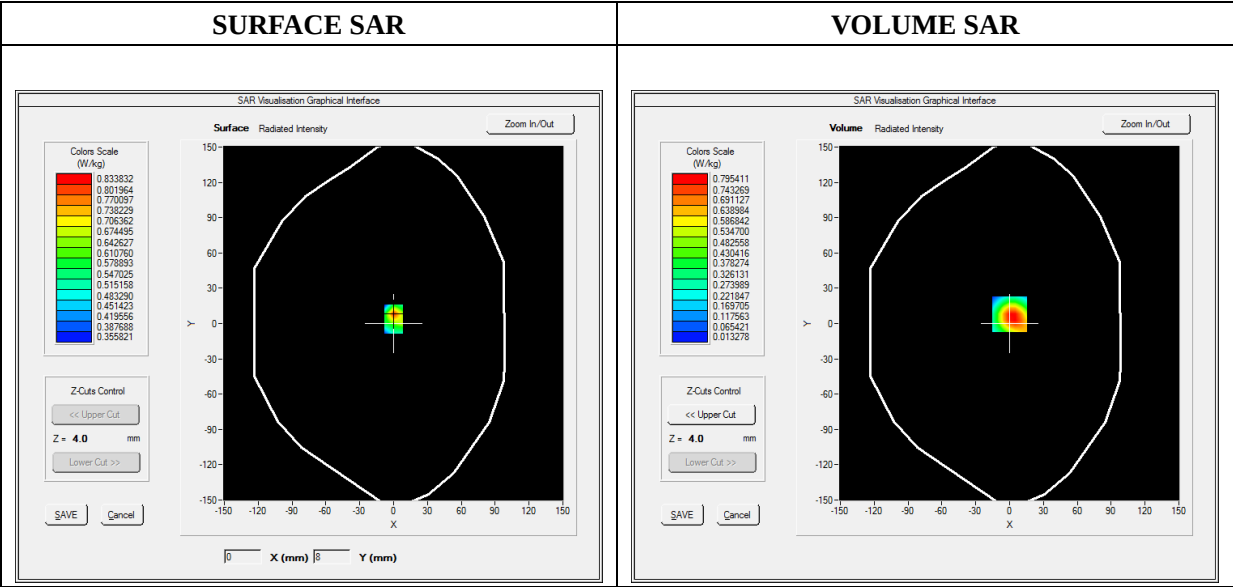
Type: Phone measurement (Complete)
Date of measurement: 2021-08-31
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	GSM1900
Channels	Low
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

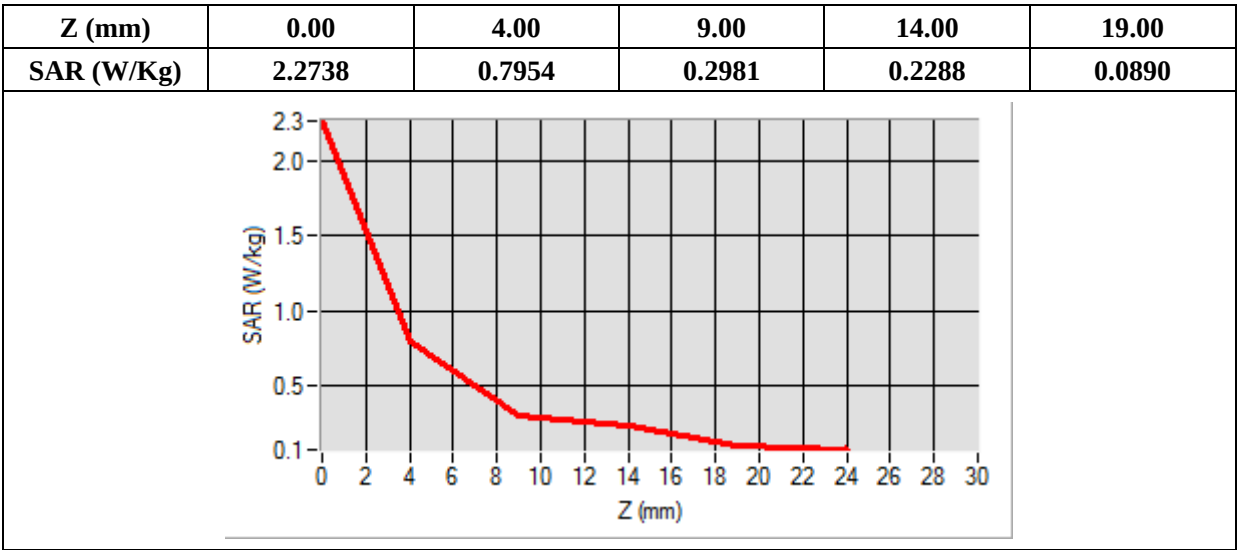
Frequency (MHz)	1850.200000
Relative Permittivity (real part)	53.402415
Conductivity (S/m)	1.501966
Power Variation (%)	-1.100000
Ambient Temperature	22.0
Liquid Temperature	22.2

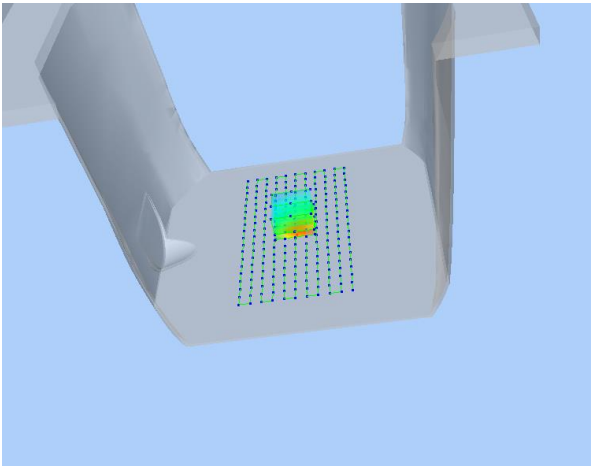


Maximum location: X=0.00, Y=8.00

SAR Peak: 1.32 W/kg

SAR 10g (W/Kg)	0.387715
SAR 1g (W/Kg)	0.750709



3D screen shot	Hot spot position
	

MEASUREMENT 3/13

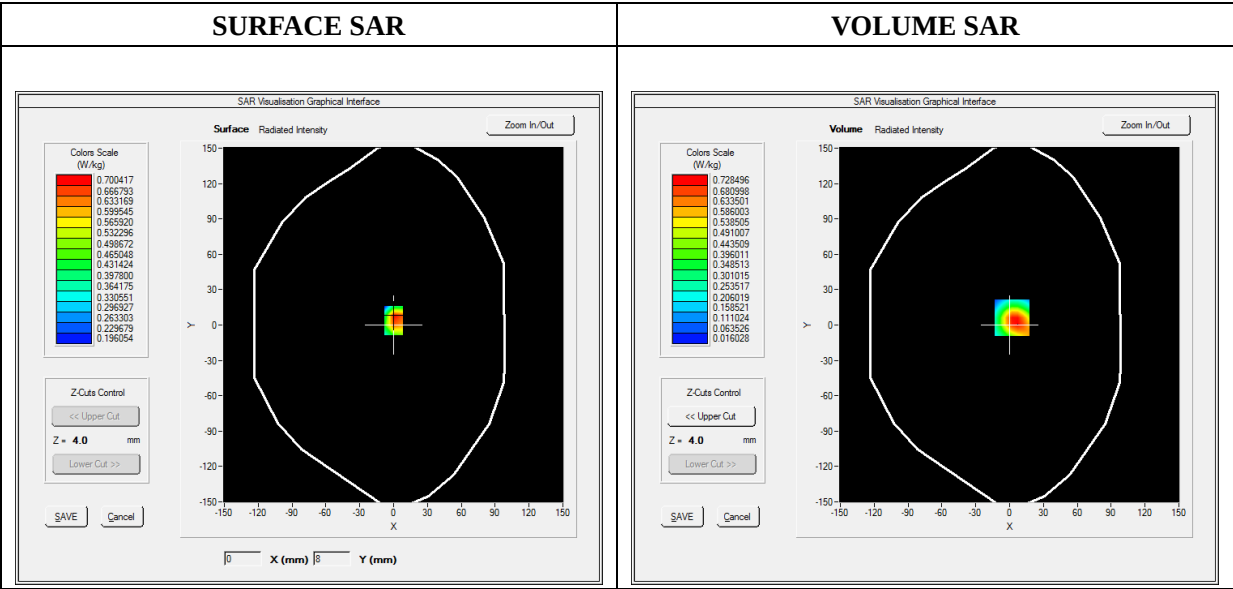
Type: Phone measurement (Complete)
Date of measurement: 2021-09-09
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Back
Band	WCDMA1700_RMC
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

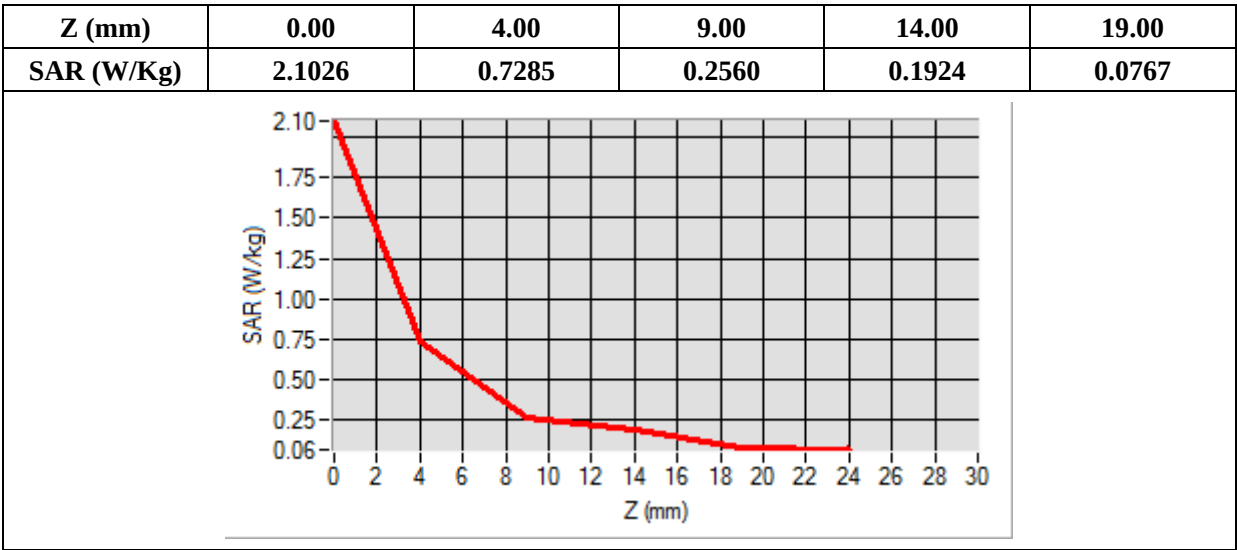
Frequency (MHz)	1712.400000
Relative Permittivity (real part)	39.060124
Conductivity (S/m)	1.393607
Power Variation (%)	0.820000
Ambient Temperature	22.0
Liquid Temperature	22.2

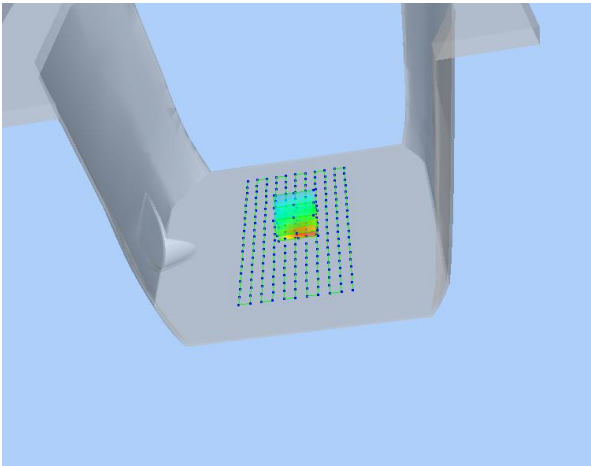


Maximum location: X=2.00, Y=6.00

SAR Peak: 1.26 W/kg

SAR 10g (W/Kg)	0.350188
SAR 1g (W/Kg)	0.685866



3D screen shot	Hot spot position
	

MEASUREMENT 4/14

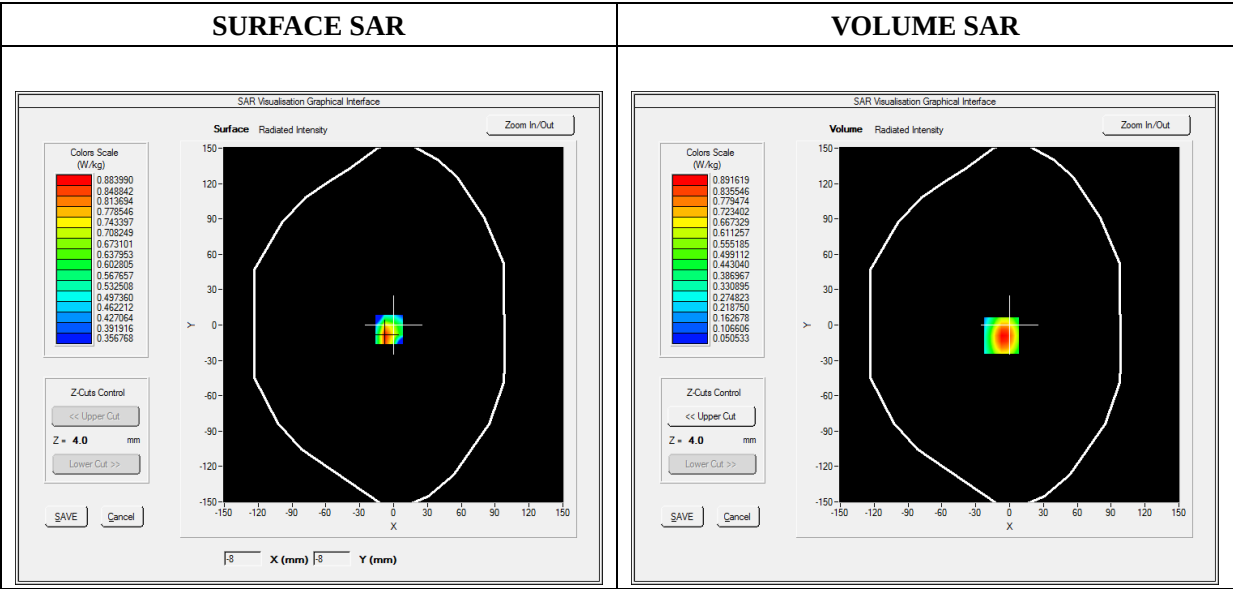
Type: Phone measurement (Complete)
Date of measurement: 2021-09-09
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Back
Band	WCDMA850_RMC
Channels	Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

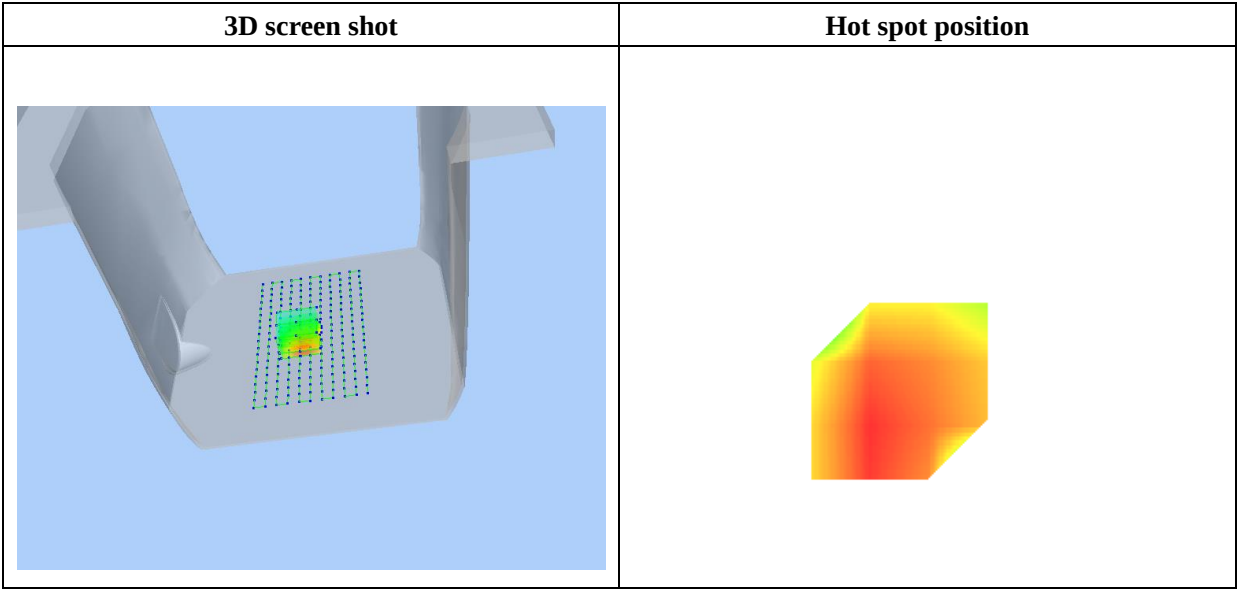
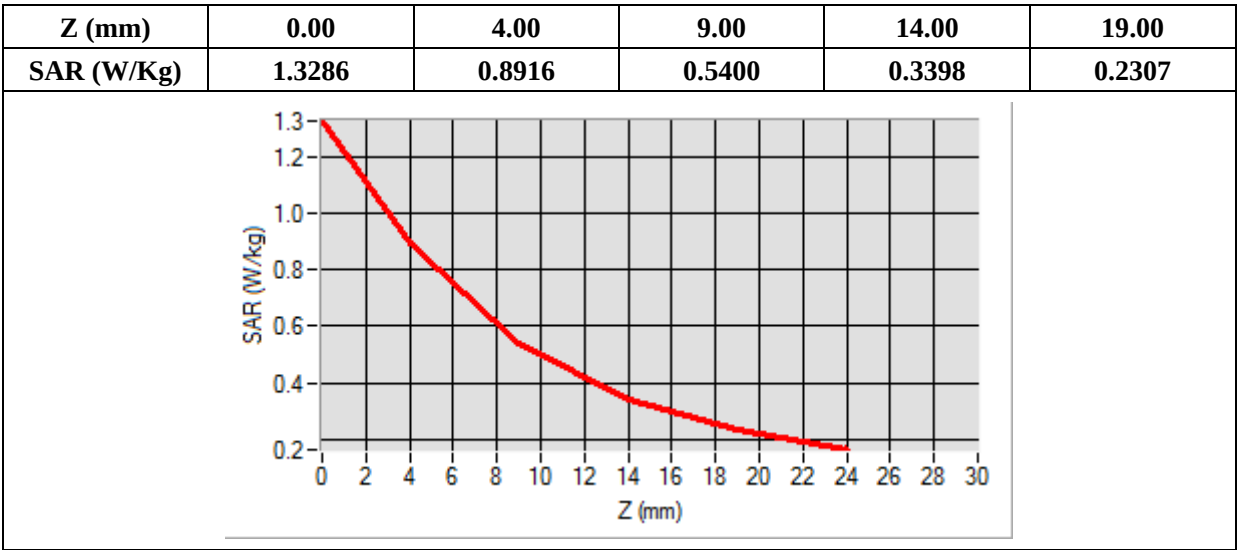
Frequency (MHz)	836.400000
Relative Permittivity (real part)	40.132275
Conductivity (S/m)	1.350987
Power Variation (%)	-1.200000
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=-7.00, Y=-9.00

SAR Peak: 1.35 W/kg

SAR 10g (W/Kg)	0.496336
SAR 1g (W/Kg)	0.838806



MEASUREMENT 5/15

Type: Phone measurement (Complete)

Date of measurement: 2021-09-10

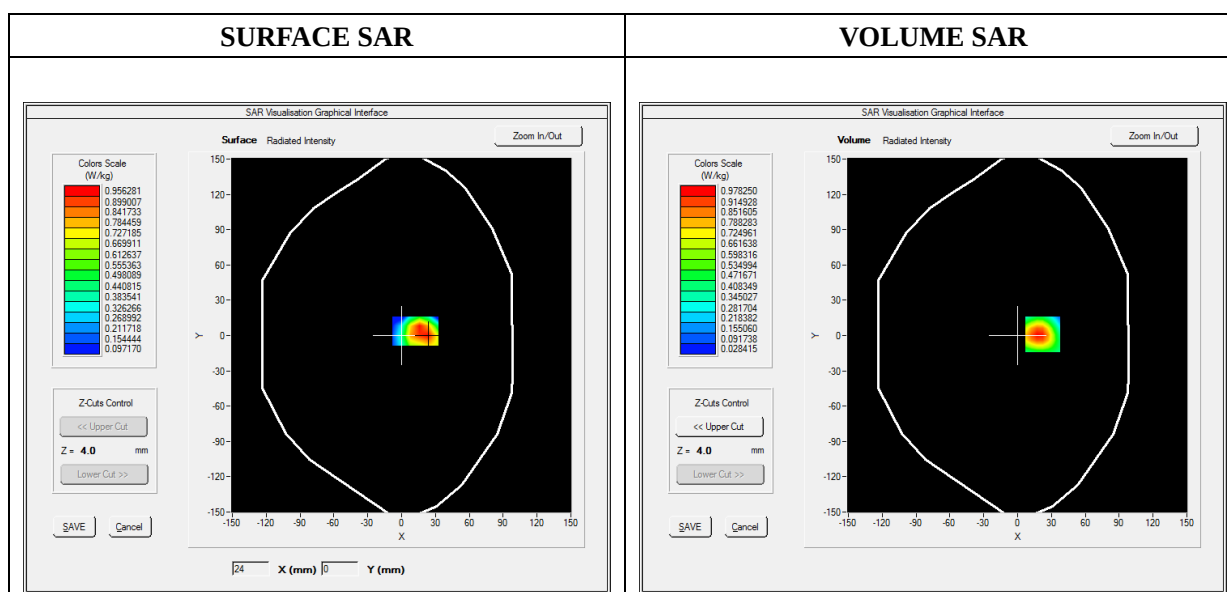
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 2
Channels	QPSK, 20MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative Permittivity (real part)	39.260124
Conductivity (S/m)	1.385369
Power Variation (%)	-1.340000
Ambient Temperature	22.0
Liquid Temperature	22.2



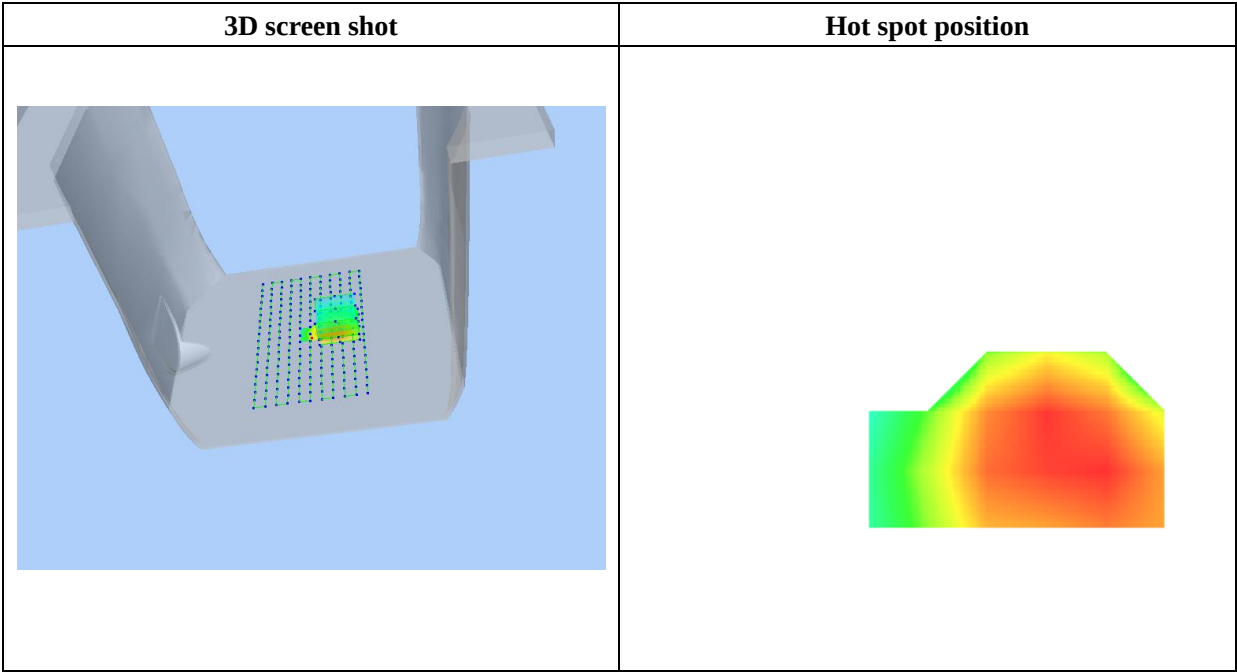
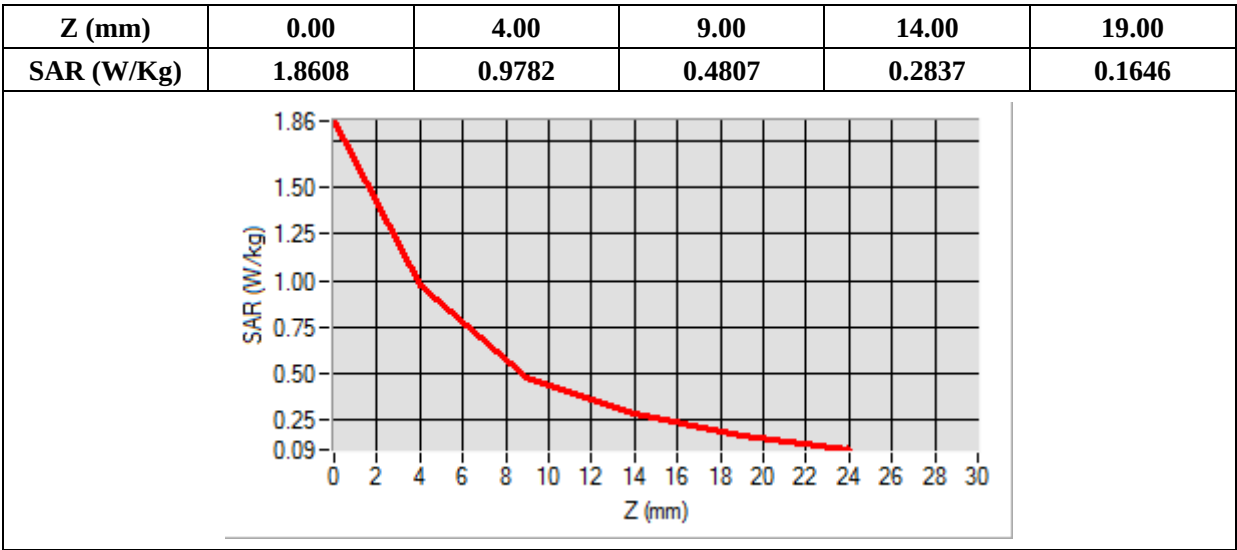
Maximum location: X=22.00, Y=1.00

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[Http://www.waltek.com.cn](http://www.waltek.com.cn)

SAR Peak: 1.56 W/kg

SAR 10g (W/Kg)	0.473450
SAR 1g (W/Kg)	0.901906



MEASUREMENT 6/16

Type: Phone measurement (Complete)

Date of measurement: 2021-09-10

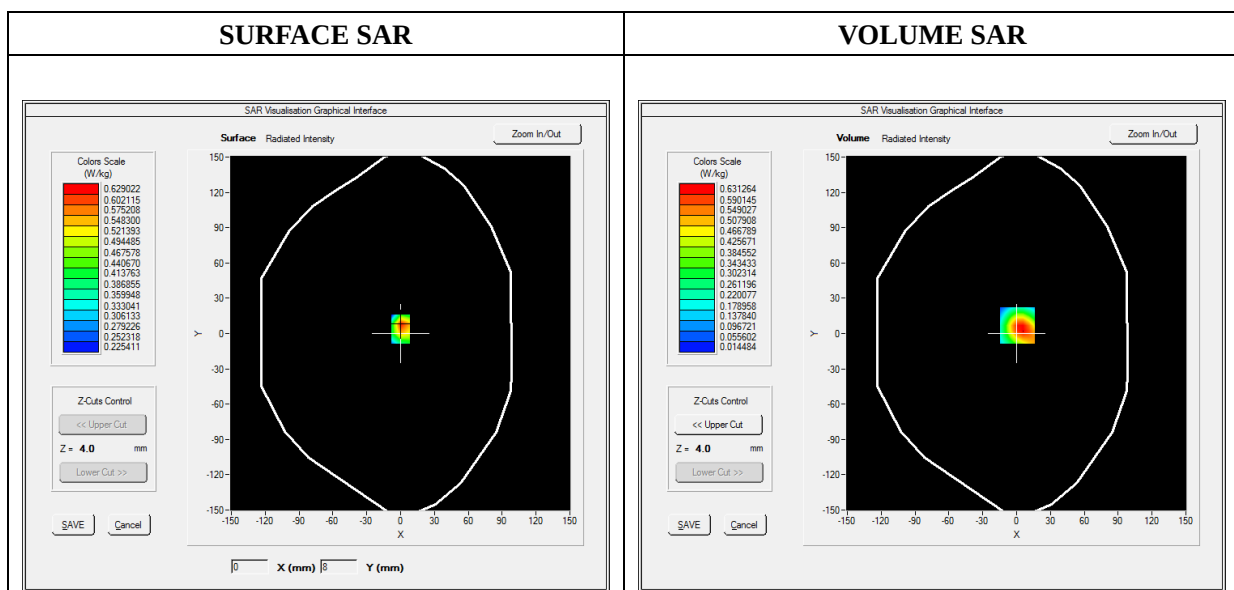
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 4
Channels	QPSK 20MHz 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative Permittivity (real part)	40.132275
Conductivity (S/m)	1.350987
Power Variation (%)	0.080000
Ambient Temperature	22.0
Liquid Temperature	22.2
Variation (%)	-0.740000



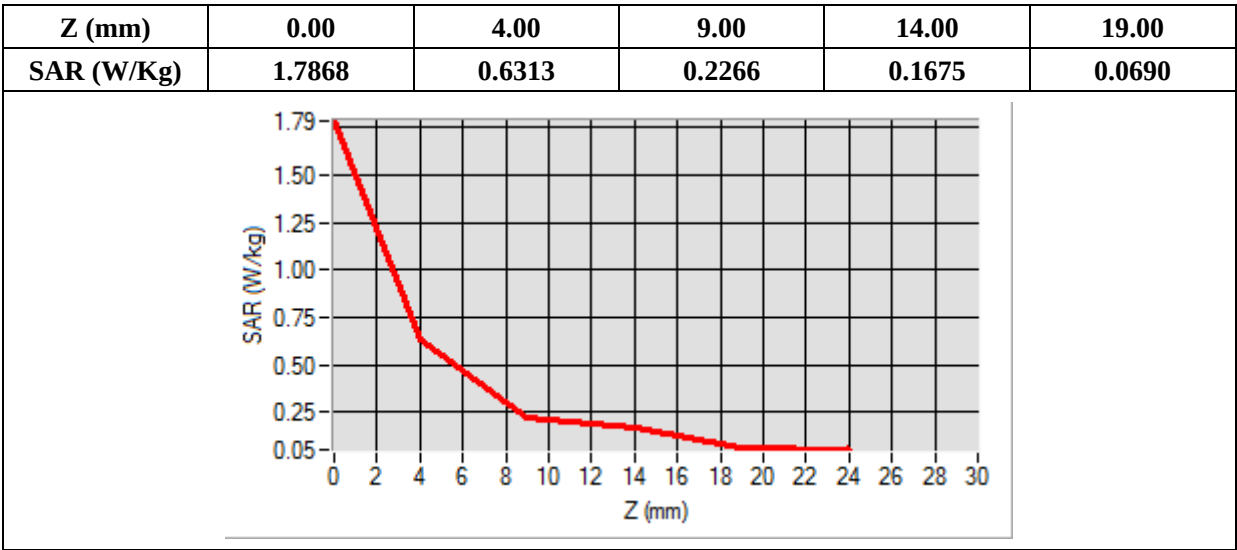
Maximum location: X=1.00, Y=7.00

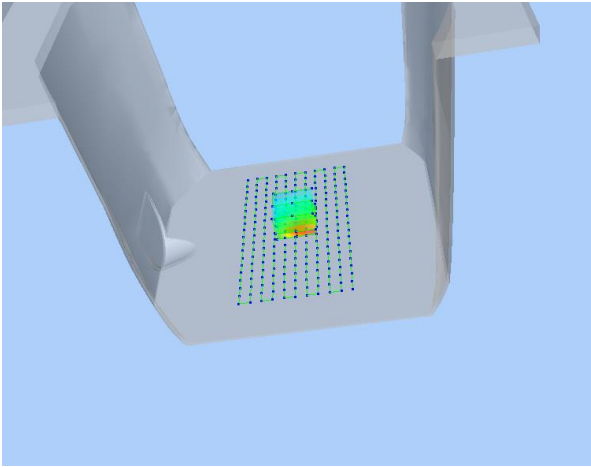
Waltek Testing Group (Shenzhen) Co., Ltd.

[Http://www.waltek.com.cn](http://www.waltek.com.cn)

SAR Peak: 1.08 W/kg

SAR 10g (W/Kg)	0.305210
SAR 1g (W/Kg)	0.595368



3D screen shot	Hot spot position
	

MEASUREMENT 7/17

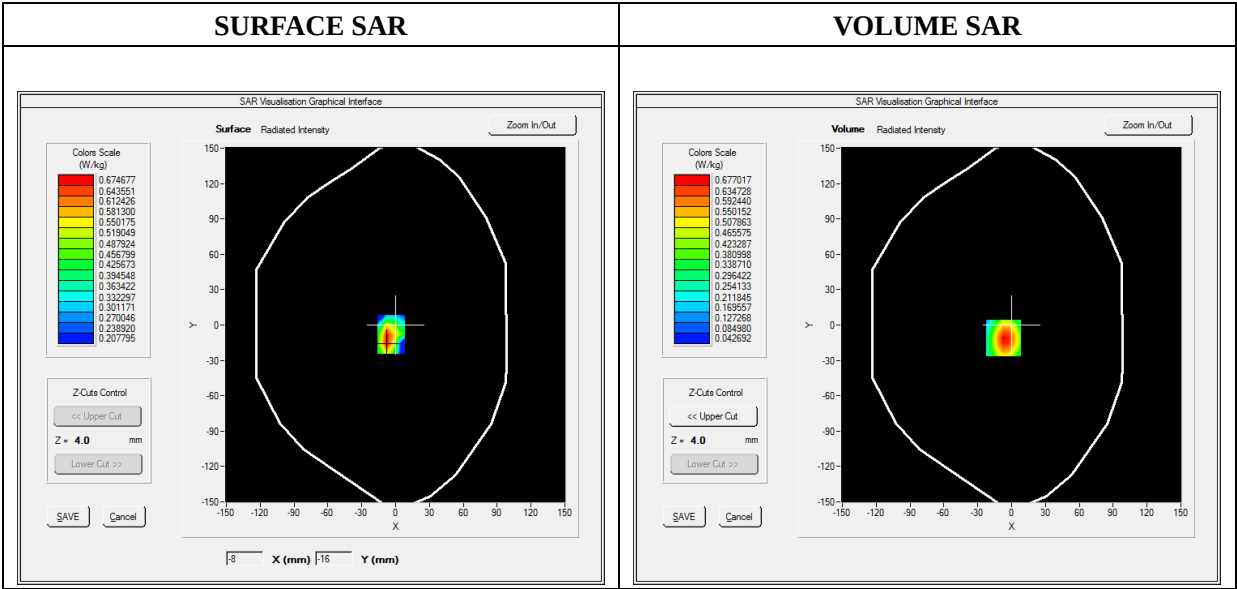
Type: Phone measurement (Complete)
Date of measurement: 2021-09-10
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 5
Channels	QPSK, 10MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

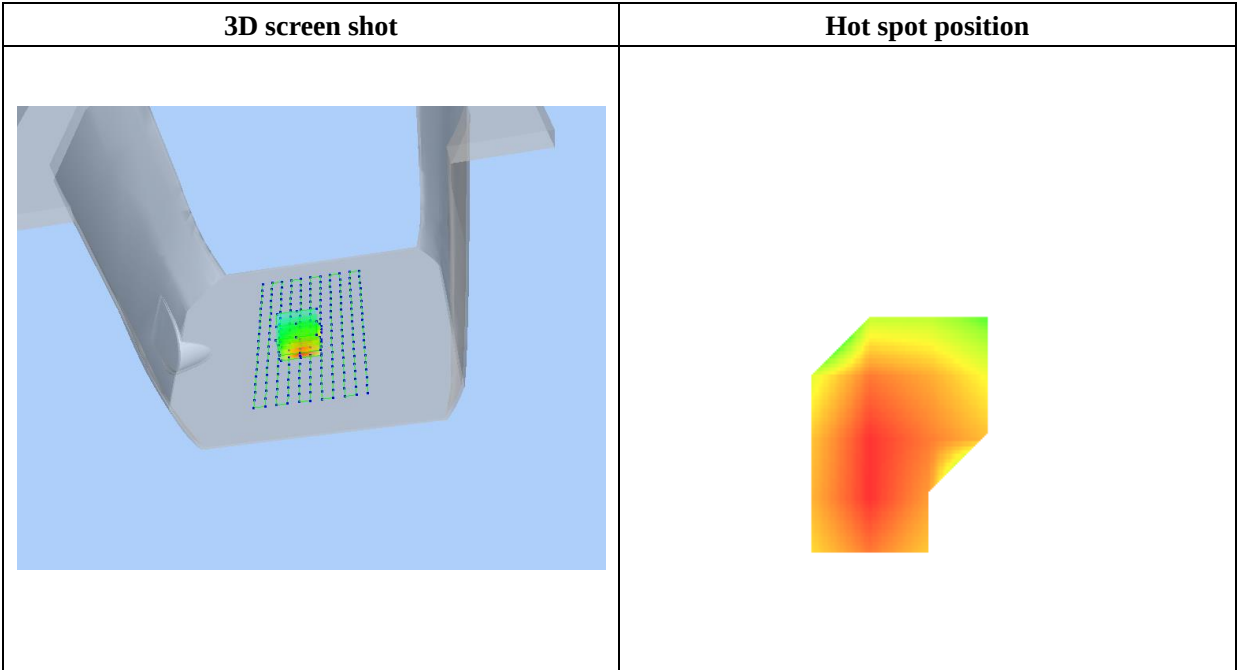
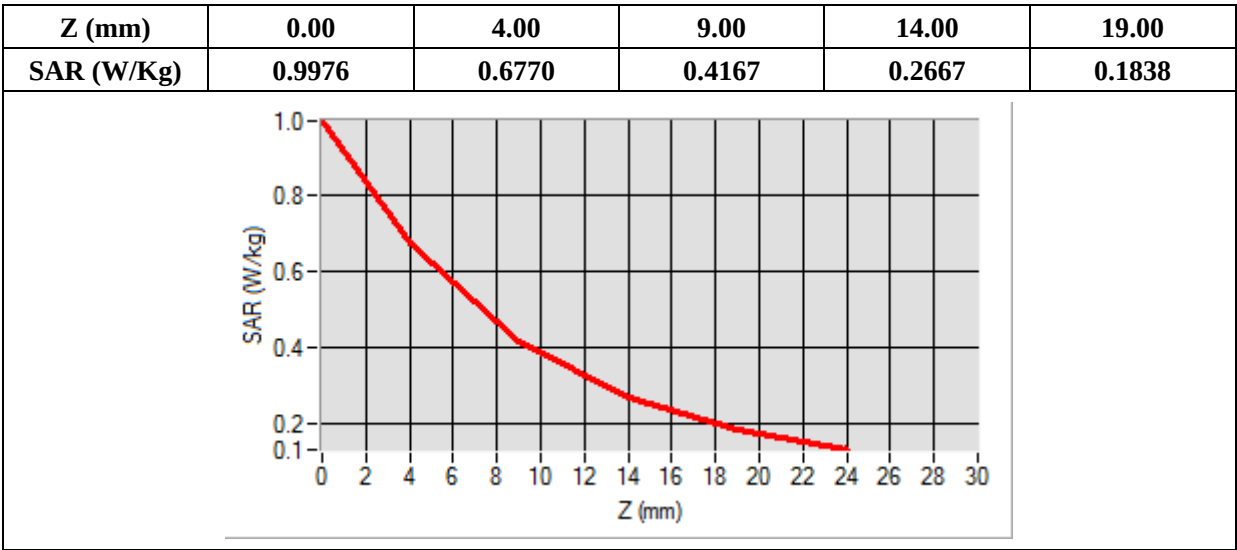
Frequency (MHz)	829.000000
Relative Permittivity (real part)	40.750245
Conductivity (S/m)	0.881245
Power Variation (%)	-0.870000
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=-7.00, Y=-11.00

SAR Peak: 1.01 W/kg

SAR 10g (W/Kg)	0.377536
SAR 1g (W/Kg)	0.633292



MEASUREMENT 8/18

Type: Phone measurement (Complete)

Date of measurement: 2021-09-10

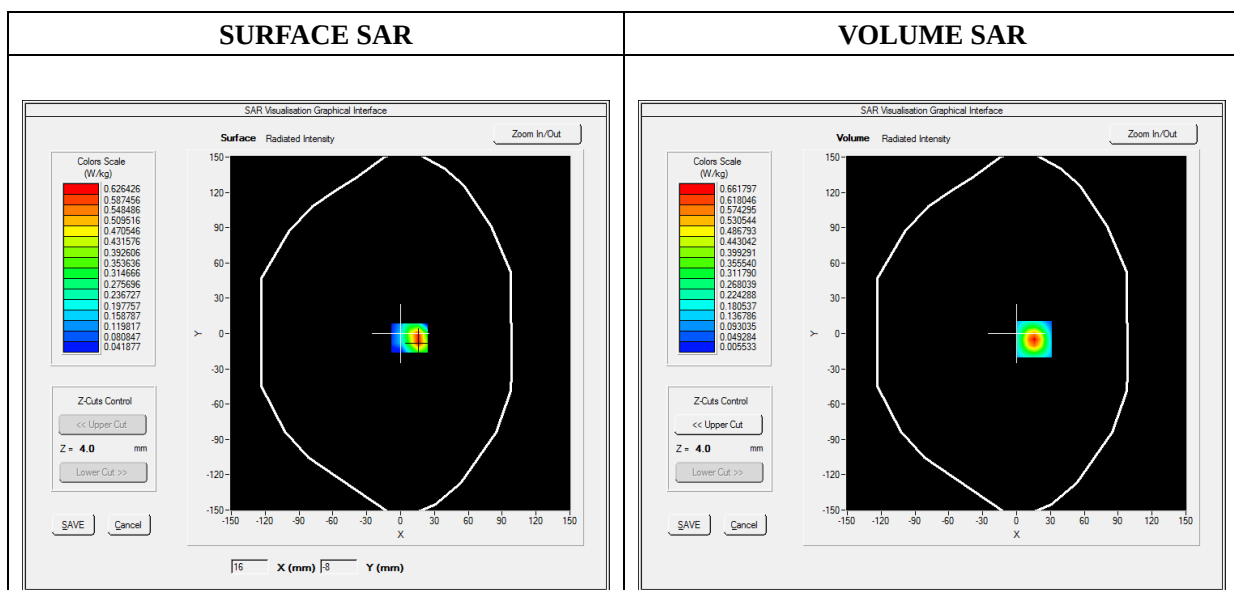
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 7
Channels	QPSK, 20MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

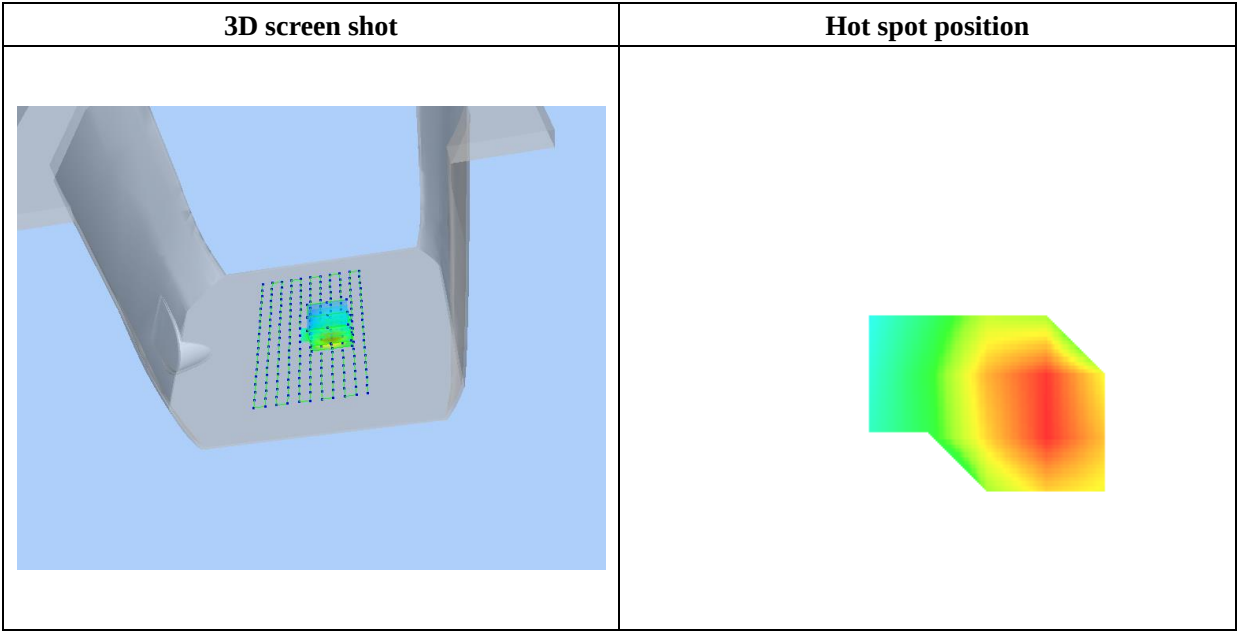
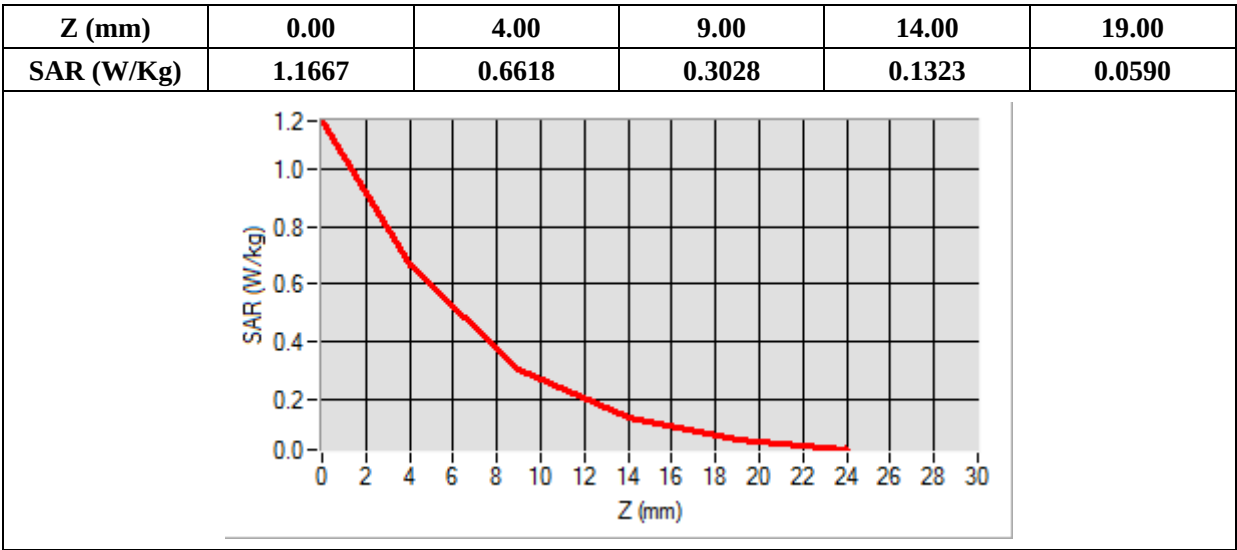
Frequency (MHz)	2560.000000
Relative Permittivity (real part)	38.256667
Conductivity (S/m)	1.920182
Power Variation (%)	-0.700000
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=16.00, Y=-5.00

SAR Peak: 1.17 W/kg

SAR 10g (W/Kg)	0.247550
SAR 1g (W/Kg)	0.579373



MEASUREMENT 9/19

Type: Phone measurement (Complete)

Date of measurement: 2021-09-10

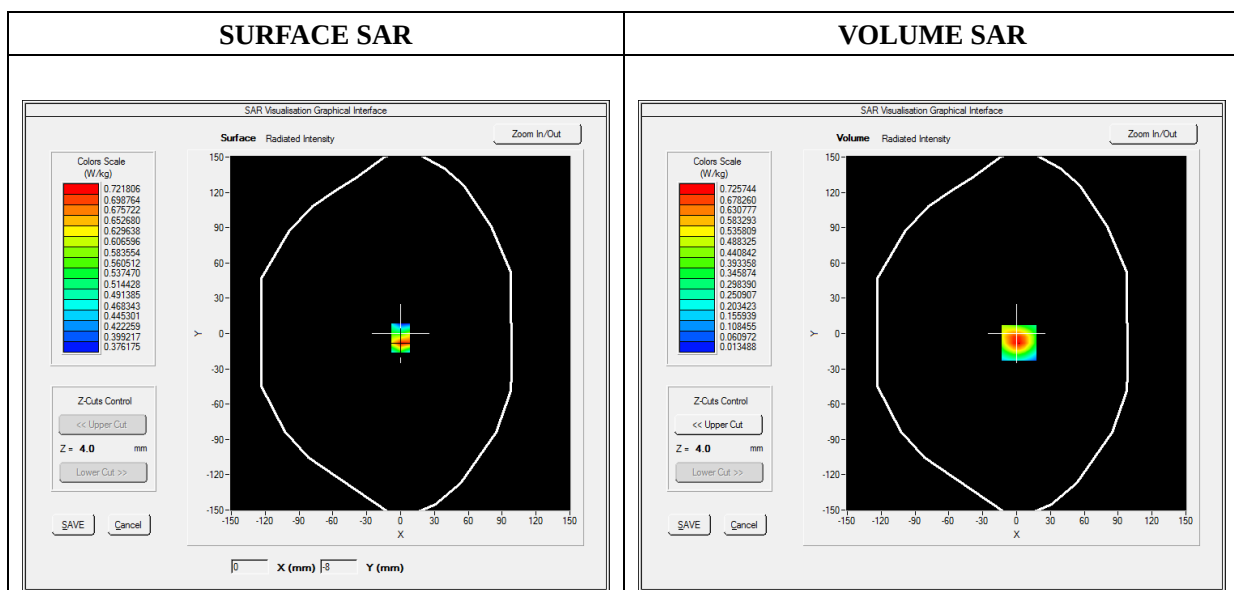
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 25
Channels	QPSK, 20MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

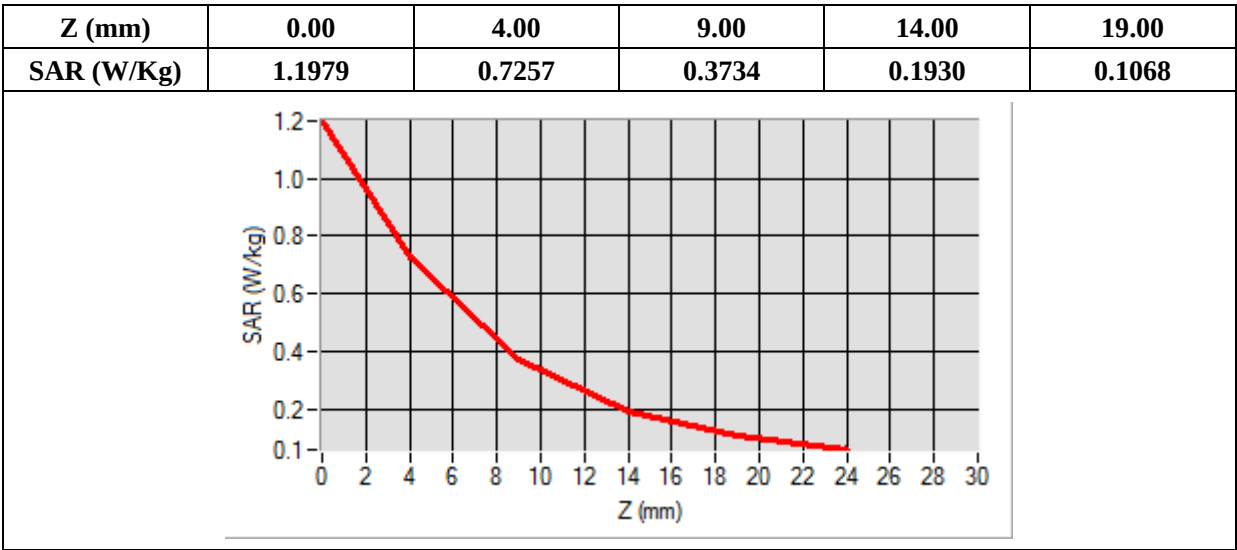
Frequency (MHz)	1905.00000
Relative Permittivity (real part)	41.218668
Conductivity (S/m)	0.853696
Power Variation (%)	-1.050000
Ambient Temperature	22.0
Liquid Temperature	22.2

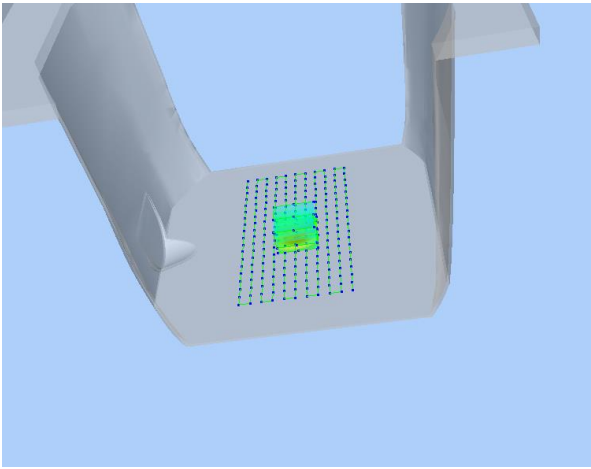


Maximum location: X=2.00, Y=-8.00

SAR Peak: 1.21 W/kg

SAR 10g (W/Kg)	0.344299
SAR 1g (W/Kg)	0.671637



3D screen shot	Hot spot position
	

MEASUREMENT 10/20

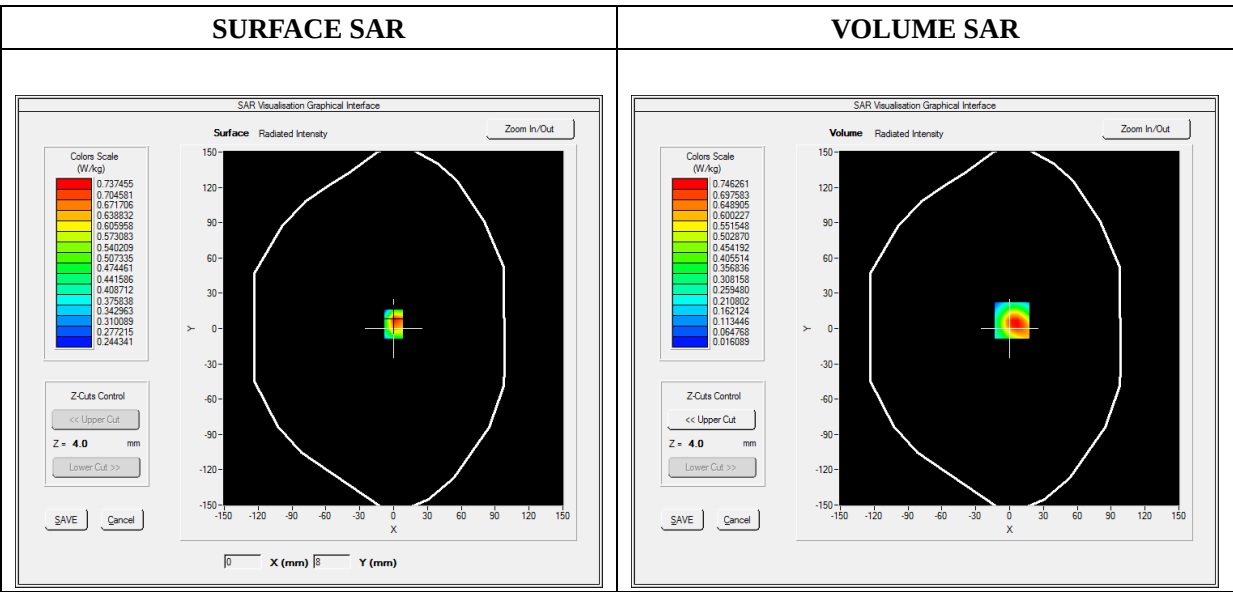
Type: Phone measurement (Complete)
Date of measurement: 2021-09-10
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 66
Channels	QPSK, 20MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1745.000000
Relative Permittivity (real part)	41.218668
Conductivity (S/m)	0.853696
Power Variation (%)	-1.050000
Ambient Temperature	22.0
Liquid Temperature	22.2

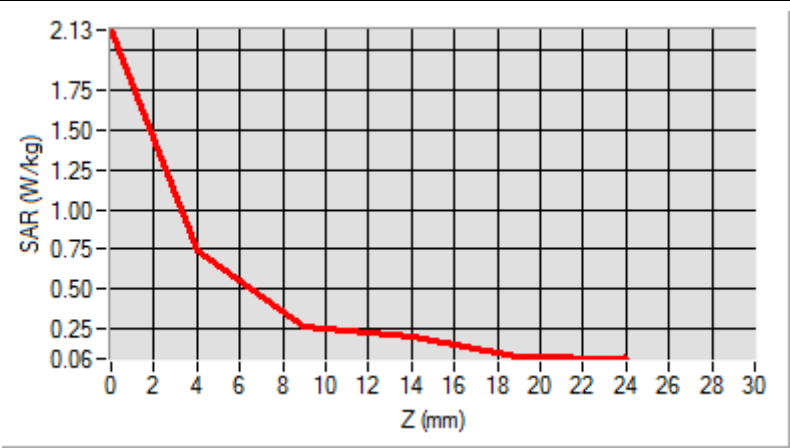


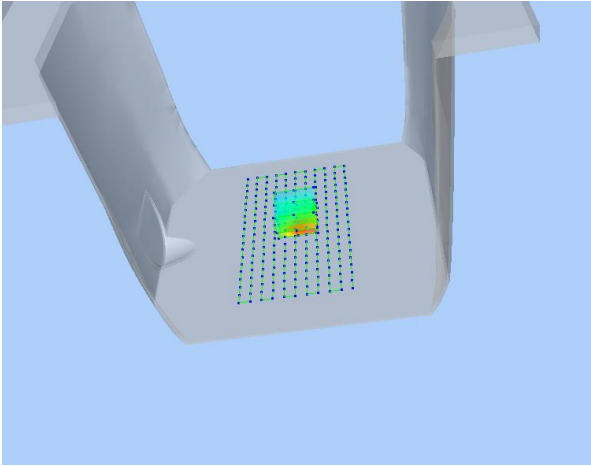
Maximum location: X=2.00, Y=7.00

SAR Peak: 1.28 W/kg

SAR 10g (W/Kg)	0.361966
SAR 1g (W/Kg)	0.705572

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	2.1276	0.7463	0.2692	0.2012	0.0806



3D screen shot	Hot spot position
	

MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 2021-08-31

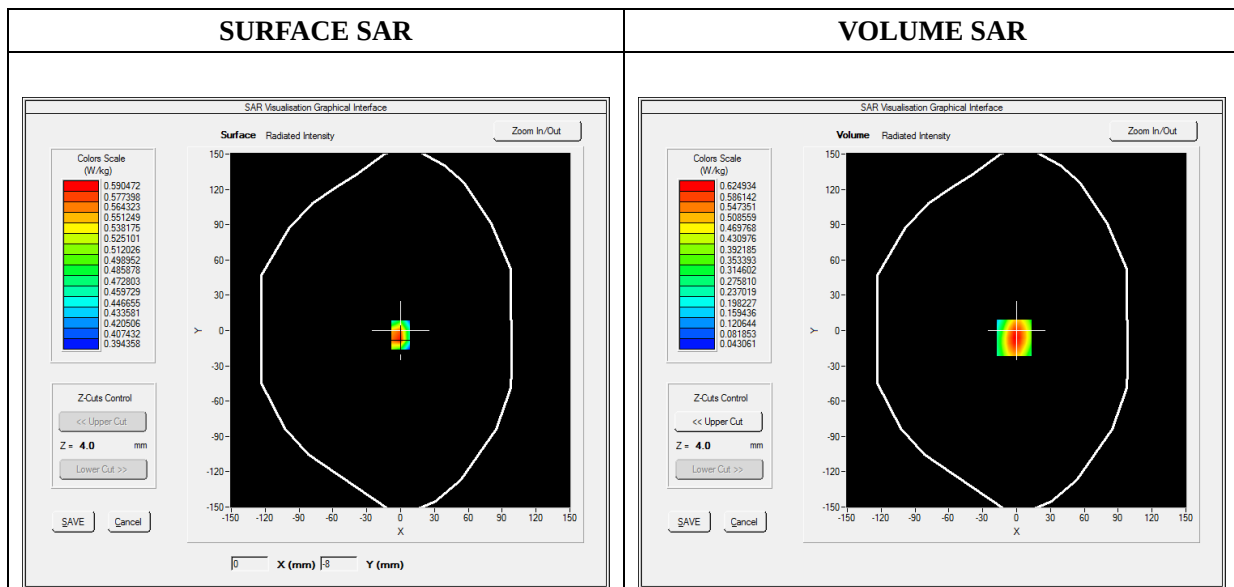
Measurement duration: 11 minutes 48 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Back
Band	GPRS900_2TX
Channels	Middle
Signal	Duty Cycle: 1:4

B. SAR Measurement Results

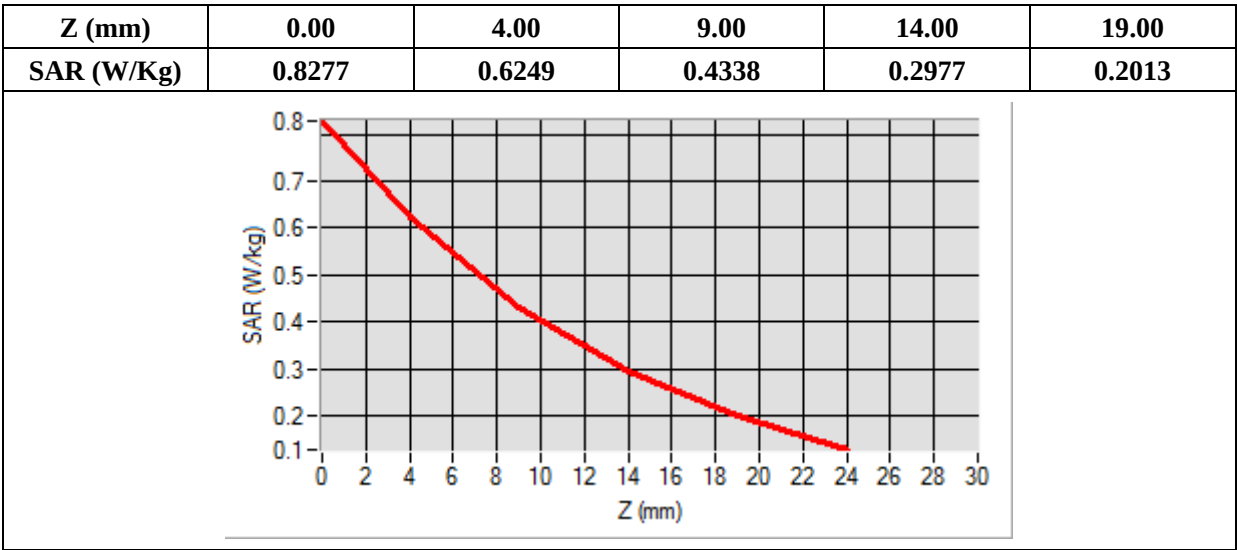
Frequency (MHz)	836.600000
Relative Permittivity (real part)	40.820245
Conductivity (S/m)	0.871245
Power Variation (%)	1.074536
Ambient Temperature	22.0
Liquid Temperature	22.2

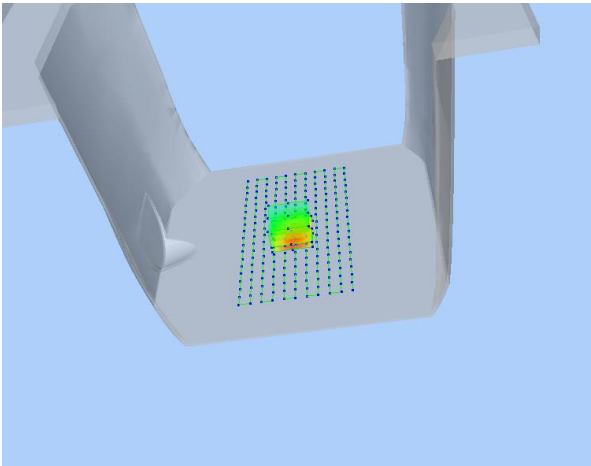


Maximum location: X=-2.00, Y=-6.00

SAR Peak: 0.89 W/kg

SAR 10g (W/Kg)	0.370504
SAR 1g (W/Kg)	0.589965



3D screen shot	Hot spot position
	

MEASUREMENT 12

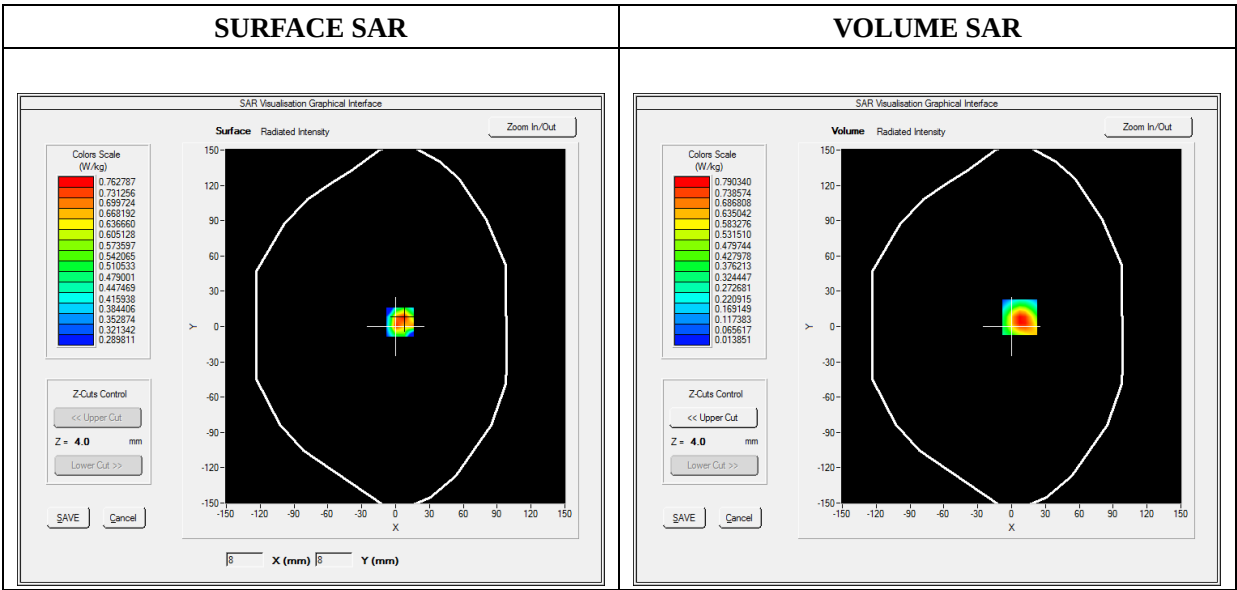
Type: Phone measurement (Complete)
Date of measurement: 2021-08-31
Measurement duration: 11 minutes 48 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Back
Band	GPRS1800_3TX
Channels	High
Signal	Duty Cycle: 1:2.66

B. SAR Measurement Results

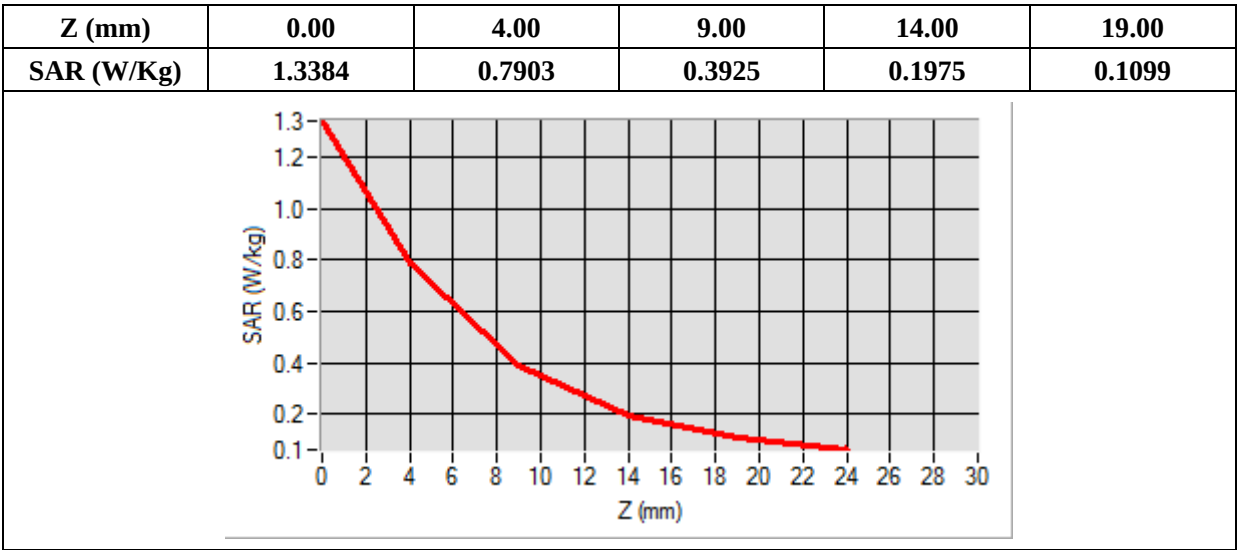
Frequency (MHz)	1909.800000
Relative Permittivity (real part)	39.260124
Conductivity (S/m)	1.385369
Power Variation (%)	-0.150000
Ambient Temperature	22.0
Liquid Temperature	22.2

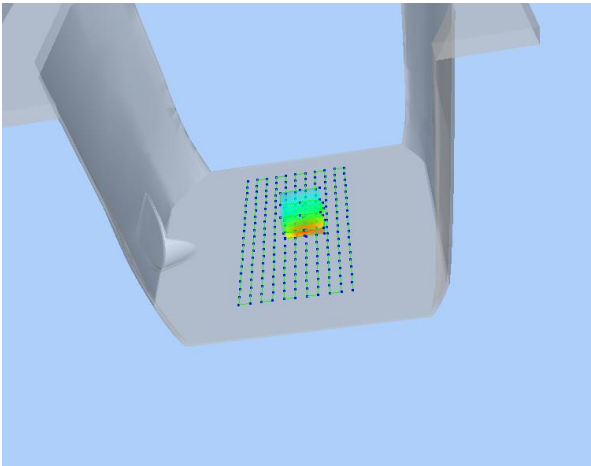
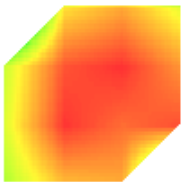


Maximum location: X=7.00, Y=8.00

SAR Peak: 1.37 W/kg

SAR 10g (W/Kg)	0.380114
SAR 1g (W/Kg)	0.739112



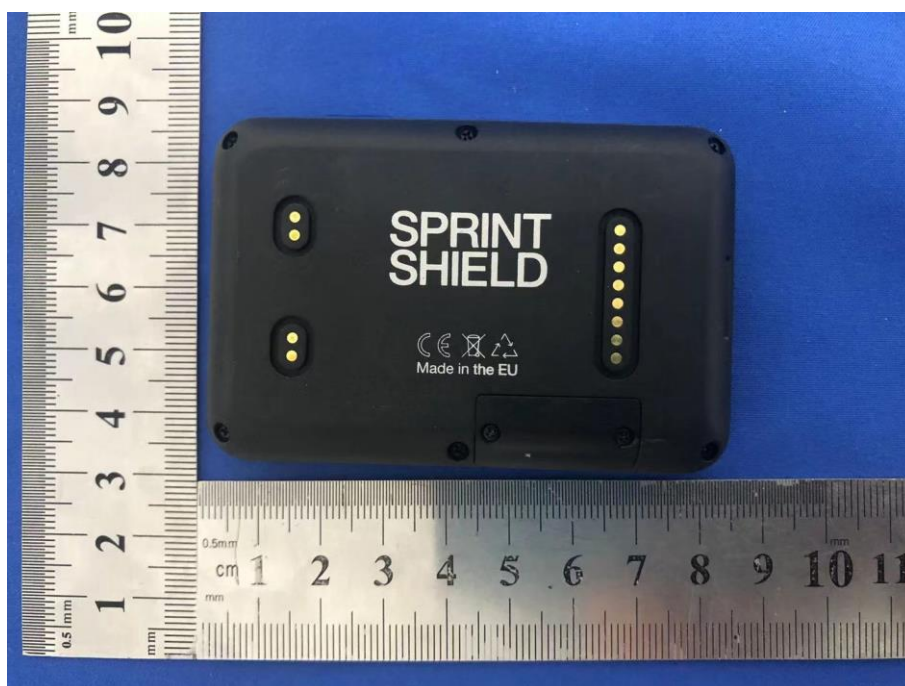
3D screen shot	Hot spot position
	

Annex C. EUT Photos

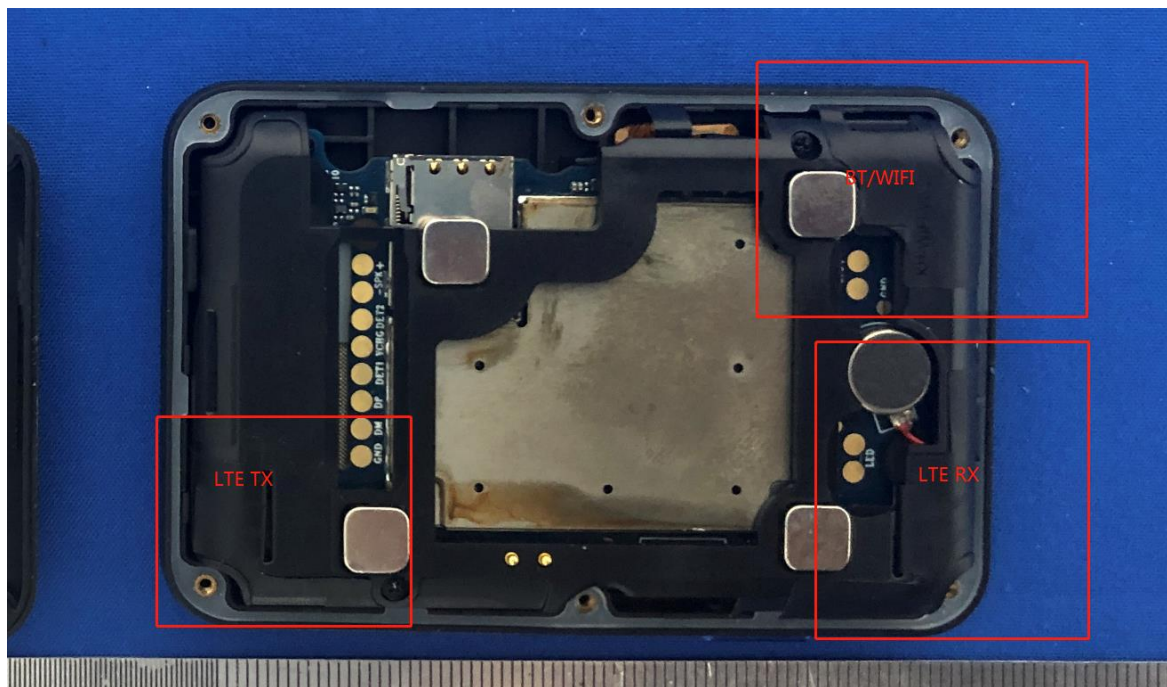
EUT View Front



EUT View Back



Antenna View

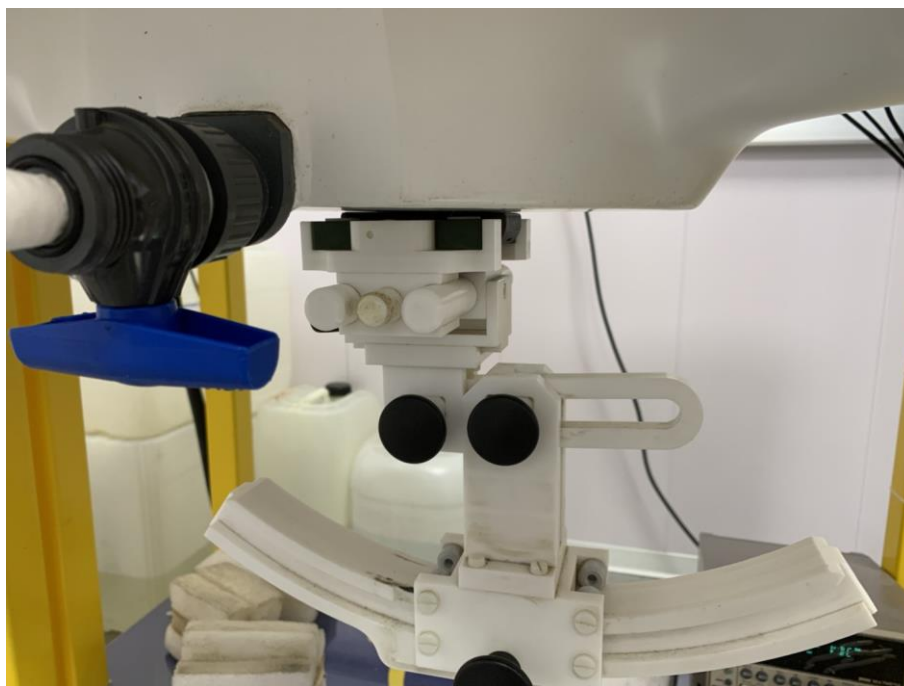


Annex D. Test Setup Photos

Body mode Exposure Conditions

Test distance: 0mm

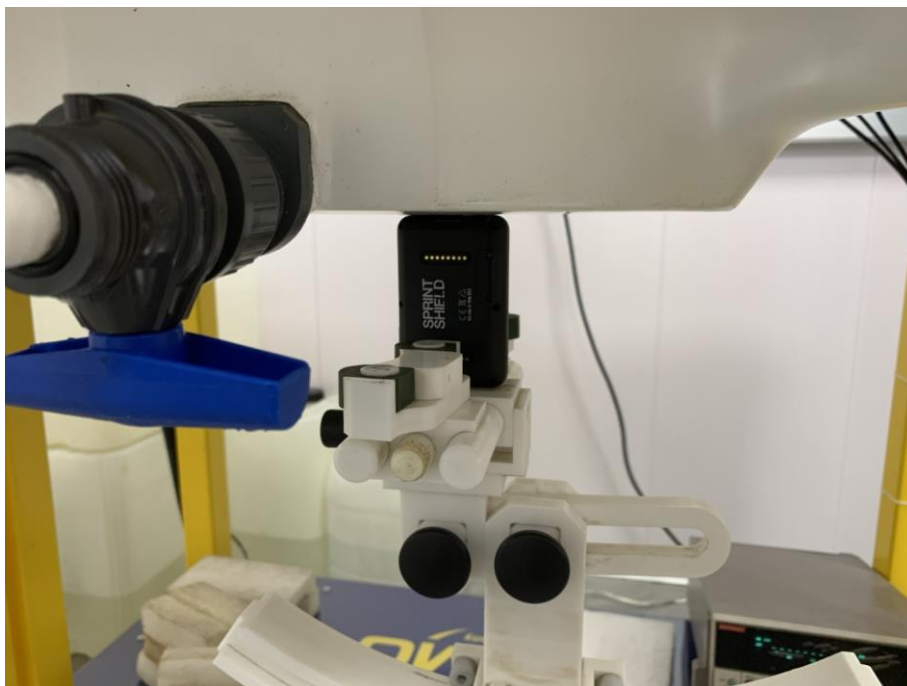
Body Front



Body Back



Body Left



Body Top



Annex E. Calibration Certificate

Please refer to the exhibit for the calibration certificate

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