

FCC SAR Compliance Test Report

For

INFINIX MOBILITY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET

FOTAN NT HONGKONG

Model: X1101B

Test Engineer: Zeng Longhao

Report Number: WSCT-ANAB-R&E241100056A-SAR

Report Date: 15 November 2024

FCC ID: 2AIZN-X1101B

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Table of contents

1	General information	5
1.1	Notes	5
1.2	Application details	5
1.3	Statement of Compliance	6
1.4	EUT Information	7
2	Testing laboratory	9
3	ACCREDITATIONS	9
4	Test Environment	9
5	Applicant and Manufacturer	9
6	Test standard/s:	10
6.1	RF exposure limits	11
6.2	SAR Definition	11
7	SAR Measurement System	12
7.1	The Measurement System	12
7.2	Robot	13
7.3	Probe	13
7.4	Measurement procedure	14
7.5	Description of interpolation/extrapolation scheme	15
7.6	Phantom	16
7.7	Device Holder	17
7.8	Video Positioning System	18
7.9	Tissue simulating liquids: dielectric properties	19
7.10	Tissue simulating liquids: parameters	20
8	System Check	22
8.1	System check procedure	22
8.2	System check results	23

9	SAR Test Test Configuration	24
9.1	GSM Test Configurations	24
9.2	UMTS Test Configuration	24
9.3	LTE Test Configuration	26
9.4	Wi-Fi Test Configuration	28
9.5	WiFi 2.4G SAR Test Procedures	28
10	Detailed Test Results	30
10.1	Conducted Power measurements	30
10.1.1	Conducted Power of GSM	30
10.1.2	Conducted Power of WCDMA	31
10.1.3	Conducted Power of LTE Band 2	32
10.1.4	Conducted Power of LTE Band 4	34
10.1.5	Conducted Power of LTE Band 5	36
10.1.6	Conducted Power of LTE Band 7	38
10.1.7	Conducted Power of LTE Band 12	40
10.1.8	Conducted Power of LTE Band 13	42
10.1.9	Conducted Power of LTE Band 17	43
10.1.10	Conducted Power of LTE Band 25	44
10.1.11	Conducted Power of LTE Band 26	46
10.1.12	Conducted Power of LTE Band 26	48
10.1.13	Conducted Power of LTE Band 38	50
10.1.14	Conducted Power of LTE Band 41	52
10.1.15	Conducted Power of LTE Band 66	54
10.1.16	Conducted Power of Wi-Fi 2.4G	56
10.1.17	Conducted Power of Wi-Fi 5G	57
10.1.18	Conducted Power of BT	58
10.1.19	Tune-up power tolerance	59
10.2	SAR test results	60

10.3	Test Result.....	63
10.3.1	Results overview of GSM	63
10.3.2	Results overview of WCDMA	64
10.3.3	Results overview of LTE.....	65
10.3.4	Results overview of Wifi.....	72
11	Multiple Transmitter Information.....	74
11.1	Simultaneous Transmission Possibilities.....	75
11.2	SAR Summation Scenario	76
12	Measurement uncertainty evaluation	80
12.1	Measurement uncertainty evaluation for SAR test	80
12.2	Measurement uncertainty evaluation for system check.....	82
13	Test equipment and ancillaries used for tests	83
	Annex A: System performance verification	84
	Annex B: Measurement results	84
	Annex C: Calibration reports	84

Modified History

REV.	Modification Description	Issued Date	Remark
REV.1.0	Initial Test Report Release	15 November 2024	Li Huaibi

1 General information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in this test report. Shenzhen Timeway Testing Laboratories does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report is not to be reproduced or published in full without the prior written permission.

1.2 Application details

Date of receipt of test item: 2024-09-29
Start of test: 2024-09-30
End of test: 2024-11-15

1.3 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for X1101B is as below:

Band	Position Test Points	MAX Reported SAR _{1g} (W/kg)
GSM850	Body & Hotspot 0mm	0.826
GSM1900	Body & Hotspot 0mm	0.900
UMTS Band 2	Body & Hotspot 0mm	0.679
UMTS Band 4	Body & Hotspot 0mm	0.786
UMTS Band 5	Body & Hotspot 0mm	0.742
LTE Band 2	Body & Hotspot 0mm	0.710
LTE Band 4	Body & Hotspot 0mm	0.931
LTE Band 5	Body & Hotspot 0mm	0.745
LTE Band 7	Body & Hotspot 0mm	0.500
LTE Band 12	Body & Hotspot 0mm	0.812
LTE Band 13	Body & Hotspot 0mm	0.764
LTE Band 17	Body & Hotspot 0mm	0.831
LTE Band 25	Body & Hotspot 0mm	0.731
LTE Band 26	Body & Hotspot 0mm	0.715
LTE Band 26	Body & Hotspot 0mm	0.759
LTE Band 38	Body & Hotspot 0mm	0.723
LTE Band 41	Body & Hotspot 0mm	0.751
LTE Band 66	Body & Hotspot 0mm	0.503
Wi-Fi 2.4G	Body & Hotspot 0mm	0.646
WIFI5G Band1	Body & Hotspot 0mm	0.609
WIFI5G Band2	Body & Hotspot 0mm	0.603
WIFI5G Band3	Body & Hotspot 0mm	0.594
WIFI5G Band4	Body & Hotspot 0mm	0.619
BT	Body & Hotspot 0mm	0.145
Maximum Max. SAR Level(s) Measured: (Limit: 1.6W/Kg):	LTE Band 4	0.931W/kg1gBodyTissue
	Wi-Fi 2.4G	0.646W/kg1gBodyTissue
The highest simultaneous SAR :		1.577W/kg1gBodyTissue

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits of 1.6 W/Kg as averaged over any 1g tissue according to the FCC rule the ANSI/IEEE C95.1:2005, the NCRP Report Number 86 for uncontrolled environment, according to the Industry Canada Radio Standards Specification RSS-102 for General Population/Uncontrolled exposure, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013.

1.4 EUT Information

Device Information:	
Product Type:	Tablet
Model:	X1101B
Trade Name:	Infinix
Device Type:	Portable device
Exposure Category:	uncontrolled environment / general population
Production Unit or Identical Prototype:	Production Unit
Antenna Type :	BT/WIFI: Internal Antenna
Device Operating Configurations:	
Supporting Mode(s) :	GSM850,PCS1900, UMTS Band 2, UMTS Band 4 ,UMTS Band 5, LTE Band 2/ LTE Band4/LTE Band5/ LTE Band7 LTE Band 12/ LTE Band 13/ LTE Band 17/LTE Band 25 LTE Band 26/ LTE Band38/LTE Band41/LTE Band 66, Wi-Fi , BT
Modulation:	GSM/GPRS: GMSK EGPRS: 8PSK WCDMA: QPSK HSDPA/HSUPA: QPSK /16QAM LTE: QPSK/16QAM WIFI:DSSS/ OFDM
Device Class :	Class B, No DTM Mode

Operating Frequency Range(s)	Band	TX(MHz)	RX(MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	UMTS Band 2	1850~1910	1930~1990
	UMTS Band 4	1710~1755	2110~2155
	UMTS Band 5	824~849	869~894
	LTE Band 2	1850~1910	1930~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699-716	729-746
	LTE Band 13	777-787	746-756
	LTE Band 17	704-716	734-746
	LTE Band 25	1850-1910	1930-1995
	LTE Band 26	814~824	859~869
	LTE Band 26	824~849	869~894
	LTE Band38	2570-2620	2570-2620
	LTE Band 41	2496-2690	2496-2690
	LTE Band 66	1710-1780	2110-2200
	Wi-Fi (2.4G)	2412-2462	
	Wi-Fi (5G)	5180-5240	5180-5240
		5260-5320	5260-5320
		5500-5700	5500-5700
		5745-5825	5745-5825
	BT	2402~2480	
Antenna gain:	GSM850/ WCDMA 5/ LTE B5/LTE B26: 0.5dbi; LTE B12/B13/B17: -6dbi; WCDMA 2/ LTE B2/PCS1900:-1dbi; WCDMA 4/ LTE B4/ LTE B66:-1dbi; LTE B25: -1dbi; LTE B7/B38/B41: -1dbi; 2.4GWIFI:1 dbi 5GWIFI:1dbi		
Power Source:	Rechargeable Li-ion Polymer Battery: BL-68CX Rated Voltage: 3.85V Rated Capacity: 6800mAh /26.18Wh Typical Capacity: 7000mAh /26.95Wh Limited Charge Voltage: 4.4V		

Note:1:The test results of this test report relate exclusively to the test item specified in this test report. World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report is not to be reproduced or published in full without the prior written permission.

2: For NFC evaluation, it is not necessary to test NFC because its power is very low

2 Testing laboratory

Test Site	World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.
Test Location	Building A-B, Baoli'an Industrial Park, No. 58 Tangtuo Avenue, Shiyan Street, Bao'an District, Shenzhen, Guangdong, China
Telephone	+86-755-26996192
Fax	+86-755-86376605

3 ACCREDITATIONS

ANAB - Certificate Number: AT-3951

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB). Certification Number: AT-3951

4 Test Environment

	Required	Actual
Ambient temperature:	18 – 25 °C	22 ± 2 °C
Tissue Simulating liquid:	22 ± 2 °C	22 ± 2 °C
Relative humidity content:	30 – 70 %	30 – 70 %

5 Applicant and Manufacturer

Applicant/Client Name:	INFINIX MOBILITY LIMITED
Applicant Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer Name:	INFINIX MOBILITY LIMITED
Manufacturer Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

6 Test standard/s:

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	IEC/IEEE 62209-1528	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate in the Human Head from Wireless Communications Devices: Measurement Techniques
3	KDB447498 D01	General RF Exposure Guidance v06
4	KDB447498 D04	Interim General RF Exposure Guidance v01
5	KDB865664 D01	SAR measurement 100MHz to 6GHz v01r04
6	KDB865664 D02	RF Exposure Reporting v01r02
7	KDB941225 D01	3G SAR Procedures v03r01
8	KDB941225 D05	SAR for LTE Devices v02r05
9	KDB248227 D01	802.11 Wi-Fi SAR v02r02
10	KDB941225 D06	Hotspot Mode v02r01
11	KDB648474 D04	Handset SAR v01r03
12	KDB690783 D01	SAR Listings on Grant v01r03

6.1 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain/Body/Arms/Legs)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Heads/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

The limit applied in this test report is shown in bold letters

Notes:

- * The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
- ** The Spatial Average value of the SAR averaged over the whole body.
- *** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.

6.2 SAR Definition

Specific Absorption Rate is defined as 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).

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

SAR is expressed in units of watts per kilogram (W/kg). SAR can be related to the electric field at a point by

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

where:

σ = conductivity of the tissue (S/m)

ρ = mass density of the tissue (kg/m³)

E = rms electric field strength (V/m)

7 SAR Measurement System

7.1 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
- Device 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.

7.2 Robot

The COMOSAR system uses the high precision robots KR 6 R900 sixx type out of the newer series from Satimo SA (France). For the 6-axis controller COMOSAR system, the KUKA robot controller version from Satimo is used. The KR 6 R900 sixx robot series have many features that are important for

our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)
- 6-axis controller

7.3 Probe

For the measurements the Specific Dosimetric E-Field Probe SSE 5 with following specifications is used



Figure 1 – MVG COMOSAR Dosimetric E field Dipole

- 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
Distance between dipoles / probe	2.7 mm

- Calibration range: 300MHz to 3GHz for head & body simulating liquid.

Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1 – MVG COMOSAR Dosimetric E field Probe

Dynamic range: 0.01-100 W/kg

Probe Length	330 mm
Length of Individual Dipoles	2 mm
Maximum external diameter	8 mm
Probe Tip External Diameter	2.5 mm
Distance between dipoles / probe	1 mm

- Calibration range: 0.15GHz to 7.5GHz for head & body simulating liquid.

Angle between probe axis (evaluation axis) and surface normal line: less than 30°

7.4 Measurement procedure

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface.
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16 mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors can not directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8 * 4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

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 (A/D values and measurement parameters)
- (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 3-D 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

SAR Averaged Methods

In SATIMO, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.

7.5 Description of interpolation/extrapolation scheme

- 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 minimise measurements errors, but the highest local SAR will occur at the surface of the phantom.
- An extrapolation is used to determine 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 1 mm 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 average over 10 grams and 1 gram requires a very fine resolution in the three dimensional scanned data array.

7.6 Phantom

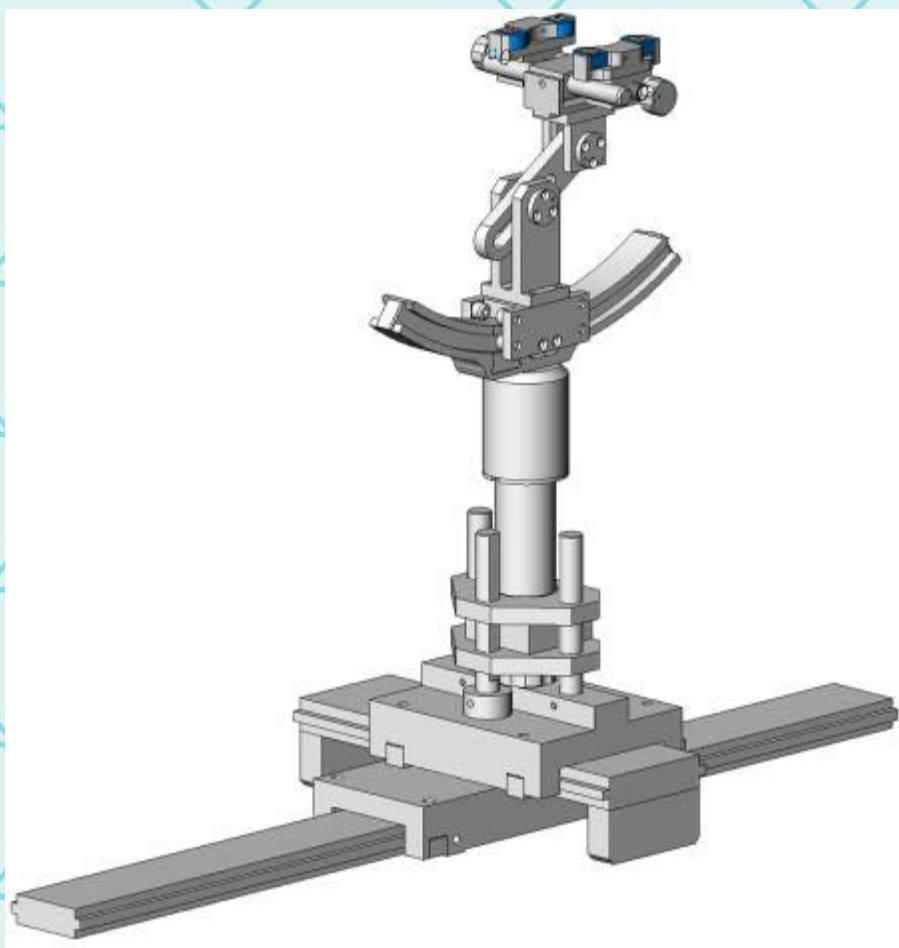
For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and 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.



System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005

7.7 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°.



Device holder

System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005

7.8 Video Positioning System

- The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts. The camera is piloted by the main computer with firewire link.
- During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.
- The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



7.9 Tissue simulating liquids: dielectric properties

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. 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. The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

The following materials are used for producing the tissue-equivalent materials.

(Liquids used for tests are marked with ☒):

Ingredients(% of weight)	Frequency (MHz)					
frequency band	☒ 750	☒ 835	☒ 1800	☒ 1900	☒ 2450	☒ 2600
Tissue Type	Head	Head	Head	Head	Head	Head
Water	39.2	41.45	52.64	55.242	62.7	55.242
Salt (NaCl)	2.7	1.45	0.36	0.306	0.5	0.306
Sugar	57.0	56.0	0.0	0.0	0.0	0.0
HEC	0.0	1.0	0.0	0.0	0.0	0.0
Bactericide	0.0	0.1	0.0	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	36.8	0.0
DGBE	0.0	0.0	47.0	44.542	0.0	44.452
Ingredients(% of weight)	Frequency (MHz)					
frequency band	☒ 750	☒ 835	☒ 1800	☒ 1900	☒ 2450	☒ 2600
Tissue Type	Body	Body	Body	Body	Body	Body
Water	50.30	52.4	69.91	69.91	73.2	64.493
Salt (NaCl)	1.60	1.40	0.13	0.13	0.04	0.024
Sugar	47.0	45.0	0.0	0.0	0.0	0.0
HEC	0.0	1.0	0.0	0.0	0.0	0.0
Bactericide	0.0	0.1	0.0	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0
DGBE	0.0	0.0	29.96	29.96	26.7	32.252

Salt: 99+% Pure Sodium Chloride

Sugar: 98+% Pure Sucrose

Water: De-ionized, 16MΩ+ resistivity

HEC: Hydroxyethyl Cellulose

DGBE: 99+% Di(ethylene glycol) butyl ether, [2-(2-butoxyethoxy)ethanol]

Triton X-100(ultra pure): Polyethylene glycol mono [4-(1,1,3,3-tetramethylbutyl)phenyl]ether

7.10 Tissue simulating liquids: parameters

Tissue Type	Measured Frequency (MHz)	Target Tissue				Measured Tissue		Liquid Temp.	Test Date
		Target Permittivity ϵ_r	Range of $\pm 5\%$	Target Conductivity σ (S/m)	Range of $\pm 5\%$	ϵ_r	σ (S/m)		
835MHz Head	825	41.60	39.52~43.68	0.90	0.86~0.95	40.34	0.91	21.6°C	2024-09-30
	835	41.50	39.43~43.58	0.90	0.86~0.95	40.33	0.92		
	850	41.50	39.43~43.58	0.92	0.87~0.97	40.11	0.94		
835MHz Body	825	55.20	52.44~57.96	0.97	0.92~1.02	54.04	0.98	21.6°C	2024-09-30
	835	55.20	52.44~57.96	0.97	0.92~1.02	53.93	0.99		
	850	55.20	52.44~57.96	0.99	0.94~1.04	53.69	1.01		
1800MHz Head	1710	40.10	38.10~42.10	1.35	1.28~1.42	39.95	1.34	21.6°C	2024-10-08
	1730	40.10	38.10~42.10	1.35	1.29~1.43	39.87	1.36		
	1750	40.10	38.10~42.10	1.37	1.30~1.44	39.69	1.39		
	1800	40.00	38.00~42.00	1.40	1.33~1.47	39.48	1.44		
1800MHz Body	1710	53.50	50.83~56.18	1.46	1.39~1.53	53.24	1.45	21.6°C	2024-10-08
	1730	53.50	50.83~56.18	1.48	1.41~1.55	53.39	1.47		
	1750	53.40	50.73~56.07	1.49	1.42~1.56	53.19	1.49		
	1800	53.30	50.64~55.97	1.52	1.44~1.60	52.97	1.54		
1900MHz Head	1850	40.00	38.00~42.00	1.40	1.33~1.47	39.93	1.37	21.6°C	2024-10-11
	1880	40.00	38.00~42.00	1.40	1.33~1.47	39.91	1.40		
	1900	40.00	38.00~42.00	1.40	1.33~1.47	39.98	1.41		
	1910	40.00	38.00~42.00	1.40	1.33~1.47	39.97	1.42		
1900MHz Body	1850	53.30	50.64~55.97	1.52	1.44~1.60	53.23	1.49	21.6°C	2024-10-11
	1880	53.30	50.64~55.97	1.52	1.44~1.60	53.36	1.53		
	1900	53.30	50.64~55.97	1.52	1.44~1.60	53.37	1.56		
	1910	53.30	50.64~55.97	1.52	1.44~1.60	53.37	1.57		

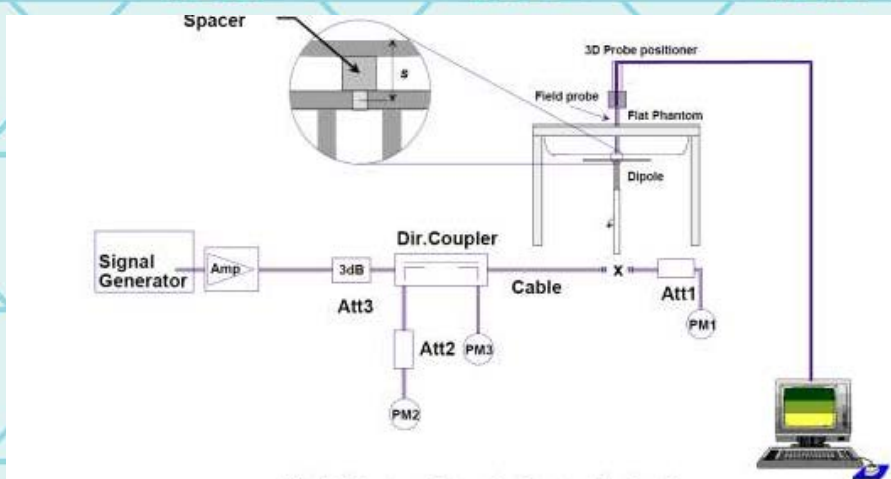
2450MHz Head	2410	39.30	37.34~41.26	1.76	1.67~1.85	39.22	1.78	21.6°C	2024-10-17
	2435	39.20	37.24~41.16	1.79	1.70~1.88	39.25	1.77		
	2450	39.20	37.24~41.16	1.80	1.71~1.89	39.24	1.76		
	2460	39.20	37.24~41.16	1.81	1.72~1.90	39.20	1.76		
2450MHz Body	2410	52.80	50.16~55.44	1.91	1.81~2.00	52.72	1.92		
	2435	52.70	50.07~55.34	1.94	1.84~2.04	52.75	1.92		
	2450	52.70	50.07~55.34	1.95	1.85~2.05	52.74	1.91		
	2460	52.70	50.07~55.34	1.96	1.86~2.06	52.70	1.91		
2600MHz Head	2510	39.00	37.05~40.95	1.96	1.86~2.06	38.87	1.93	21.6°C	2024-10-24
	2535	39.00	37.05~40.95	1.96	1.86~2.06	38.58	1.93		
	2560	39.00	37.05~40.95	1.96	1.86~2.06	38.98	2.02		
	2600	39.00	37.05~40.95	1.96	1.86~2.06	52.50	2.02		
2600MHz Body	2510	52.50	49.90~55.11	2.16	2.05~2.27	52.21	2.05		
	2535	52.50	49.90~55.11	2.16	2.05~2.27	51.92	2.06		
	2560	52.50	49.90~55.11	2.16	2.05~2.27	52.01	2.09		
	2600	52.50	49.90~55.11	2.16	2.05~2.27	38.87	1.93		
εr= Relative permittivity, σ= Conductivity									

8 System Check

8.1 System check procedure

The System check is performed by using a System check dipole which is positioned parallel to the planar part of the SAM phantom at the reference point. The distance of the dipole to the SAM phantom is determined by a spacer. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 100 mW. To adjust this power a power meter is used. The power sensor is connected to the cable before the System check to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the validation to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

System check results have to be equal or near the values determined during dipole calibration (target SAR in table above) with the relevant liquids and test system.



8.2 System check results

The system Check is performed for verifying the accuracy of the complete measurement system and performance of the software. The following table shows System check results for all frequency bands and tissue liquids used during the tests (plot(s) see annex A).

System Check	Target SAR (1W) (+/-10%)				Measured SAR (Normalized to 1W)		Liquid Temp.	Test Date
	1-g (W/g)	Range of $\pm 10\%$ 1-g (W/g)	10-g (W/g)	Range of $\pm 10\%$ 10-g (W/g)	1-g (W/g)	10-g (W/g)		
D835V2 Head	9.82	8.84~10.80	6.35	5.72~6.99	9.700	6.150	21.6°C	2024-09-30
D1800V2 Head	37.09	33.38~40.80	19.77	17.93~21.75	39.980	20.600	21.6°C	2024-10-08
D1900V2 Head	38.93	35.04~42.82	20.27	18.45~22.55	39.980	21.070	21.6°C	2024-10-11
D2450V2 Head	53.41	48.07~58.75	23.95	21.56~26.35	53.930	24.530	21.6°C	2024-10-17
D2600V2 Head	56.88	51.20~62.56	24.92	22.43~27.41	53.180	23.430	21.6°C	2024-11-24
D835V2 Body	9.41	8.47~10.35	6.22	5.99~6.84	10.150	6.450	21.6°C	2024-09-30
D1800V2 Body	38.03	34.23~41.83	20.69	18.62~22.76	41.560	21.720	21.6°C	2024-10-08
D1900V2 Body	38.73	34.86~42.60	20.48	18.43~22.53	39.330	20.940	21.6°C	2024-10-11
D2450V2 Body	51.39	46.25~56.53	23.63	21.27~25.99	54.330	23.330	21.6°C	2024-10-17
D2600V2 Body	54.54	49.09~59.99	24.37	21.94~26.80	57.860	25.600	21.6°C	2024-11-24

Note: All SAR values are normalized to 1W forward power.

Note: 5G band system check USES standard waveguide, so the test results are standard en62209-2 table B2

9 SAR Test Test Configuration

9.1 GSM Test Configurations

SAR tests for GSM850 and GSM1900, a communication link is set up with a base station by air link. Using CMU200 the power lever is set to “5” and “0” in SAR of GSM850 and GSM1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8-PSK.

9.2 UMTS Test Configuration

1) Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all “1”s for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPDCH, DPDCHn and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the Headset or cannot be measured due to technical or equipment limitations must be clearly identified.

2) WCDMA

a. Head SAR Measurements

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all “1”s. The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

b. Body SAR Measurements

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

3) HSDPA

SAR for body exposure configurations is measured according to the “Body SAR Measurements” procedures of 3G device. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in

the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

Per KDB941225 D01, the 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures for the highest reported SAR body exposure configuration in 12.2 kbps RMC.

HSDPA should be configured according to UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission condition, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. The β_c and β_d gain factors for DPCCH and DPDCH were set according to the values in the below table, β_{hs} for HS-DPCCH is set automatically to the correct value when ΔACK , $\Delta NACK$, $\Delta CQI = 8$. The variation of the β_c / β_d ratio causes a power reduction at sub-tests 2 - 4.

Sub-test ^a	β_c ^a	β_d ^a	β_d (SF) ^a	β_c / β_d ^a	β_{hs} (1) ^a	CM(dB)(2) ^a	MPR (dB) ^a
1 ^a	2/15 ^a	15/15 ^a	64 ^a	2/15 ^a	4/15 ^a	0.0 ^a	0 ^a
2 ^a	12/15(3) ^a	15/15(3) ^a	64 ^a	12/15(3) ^a	24/15 ^a	1.0 ^a	0 ^a
3 ^a	15/15 ^a	8/15 ^a	64 ^a	15/8 ^a	30/15 ^a	1.5 ^a	0.5 ^a
4 ^a	15/15 ^a	4/15 ^a	64 ^a	15/4 ^a	30/15 ^a	1.5 ^a	0.5 ^a

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs} / \beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note 2: CM=1 for $\beta_c / \beta_d = 12/15$, $\beta_{hs} / \beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

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

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.:

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI's
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

4) HSUPA

SAR for body exposure configurations is measured according to the "Body SAR Measurements" procedures of 3G device. 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.

Per KDB941225 D01v03, the 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures for the highest reported body exposure SAR configuration in 12.2 kbps RMC.

9.3 LTE Test Configuration

SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices. The CMW500 WideBand Radio Communication Tester was used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR test were performed with the same number of RB and RB offsets transmitting on all TTI frames (Maximum TTI)

1) Spectrum Plots for RB configurations

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

2) MPR

When MPR is implemented permanently within the UE, regardless of network requirements, only those RB configurations allowed by 3GPP for the channel bandwidth and modulation combinations may be tested with MPR active. Configurations with RB allocations less than the RB thresholds required by 3GPP must be tested without MPR.

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

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

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

3) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by using Network Signalling Value of "NS_01" on the base station simulator.

4) LTE procedures for SAR testing

A) Largest channel bandwidth standalone SAR test requirements

i) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

ii) QPSK with 50% RB allocation

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

iii) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in i) and ii) 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.

iv) Higher order modulations

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

B) Other channel bandwidth standalone SAR test requirements

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

5) TDD LTE test configuration

According to KDB 941225 D05 SAR for LTE Devices v02r04, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

9.4 Wi-Fi Test Configuration

For the 802.11b/g SAR tests, a communication link is set up with the test mode software for Wi-Fi mode test. The Absolute Radio Frequency Channel Number (ARFCN) is allocated to 1, 6 and 11 respectively in the case of 2450 MHz. During the test, at the each test frequency channel, the EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest data rate. 802.11b/g operating modes are tested independently according to the service requirements in each frequency band. 802.11b/g modes are tested on channel 1, 6, 11; however, if output power reduction is necessary for channels 1 and/or 11 to meet restricted band requirements the highest output channel closest to each of these channels must be tested instead.

SAR is not required for 802.11g/n channels when the maximum average output power is less than 0.25dB higher than that measured on the corresponding 802.11b channels.

Mode	Band	GHz	Channel	"Default Test Channels"	
				802.11b	802.11g
802.11b/g	2.4 GHz	2412	1#	√	△
		2437	6	√	△
		2462	11#	√	△

Notes:

√ = "default test channels"

△ = possible 802.11g channels with maximum average output ¼ dB the "default test channels"

= when output power is reduced for channel 1 and /or 11 to meet restricted band requirements the highest output channels closest to each of these channels should be tested.

802.11 Test Channels per FCC Requirements

9.5 WiFi 2.4G SAR Test Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. 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.

A) 802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

1) When the reported SAR of the highest measured maximum output power channel (section 3.1 of of KDB 248227D01v02) for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.

2) When the reported SAR is $> 0.8 \text{ W/kg}$, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is $> 1.2 \text{ W/kg}$, SAR is required for the third channel; i.e., all channels require testing.

B) 2.4GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3 of of KDB 248227D01v02r01). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leq 1.2 \text{ W/kg}$.

C) SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.

10 Detailed Test Results

10.1 Conducted Power measurements

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

10.1.1 Conducted Power of GSM

Mode: GSM850		Maximum Tune-up(dBm)	Burst Average Power (dBm)			Division Factors	Frame-Average Power (dBm)		
			CH128	CH190	CH251		CH128	CH190	CH251
			824.2MHz	836.6MHz	848.8MHz		824.2MHz	836.6MHz	848.8MHz
GSM(CS)		33.00	32.50	32.24	31.89	-9.03	30.80	30.359	30.24
GPRS (GMSK)	1Tx slot	30.00	29.36	29.67	29.85	-9.03	27.71	28.72	28.20
	2Tx slots	30.50	29.38	30.37	29.92	-9.03	27.73	28.65	28.27
	3Tx slots	30.50	29.32	30.30	30.30	-6.02	27.67	28.42	28.65
	4Tx slots	30.50	29.28	30.07	29.71	-4.26	27.63	25.56	28.06
EGPRS (8PSK)	1Tx slot	28.00	27.95	27.21	26.35	-3.01	26.30	24.77	24.70
	2Tx slots	27.50	27.45	26.42	26.74	-9.03	25.80	25.60	25.09
	3Tx slots	28.00	27.85	27.25	26.98	-6.02	26.20	25.85	25.33
	4Tx slots	28.50	26.70	27.50	28.02	-4.26	25.05	28.72	26.37
Mode: GSM1900		Maximum Tune-up(dBm)	Burst Average Power (dBm)			Division Factors	Frame-Average Power (dBm)		
			CH512	CH661	CH810		CH512	CH661	CH810
			1850.2MHz	1880.0MHz	1909.8MHz		1850.2MHz	1880.0MHz	1909.8MHz
GSM(CS)		30.00	30.00	29.70	29.32	-9.03	29.00	28.70	28.32
GPRS (GMSK)	1Tx slot	27.00	26.44	26.95	26.77	-9.03	25.44	25.95	25.77
	2Tx slots	28.50	26.40	28.07	27.04	-9.03	25.40	27.07	26.04
	3Tx slots	28.50	26.97	27.50	28.28	-6.02	25.97	26.50	27.28
	4Tx slots	27.50	26.33	26.82	27.37	-4.26	25.33	25.82	26.37
EGPRS (8PSK)	1Tx slot	25.50	25.19	24.28	25.21	-3.01	24.19	23.28	24.21
	2Tx slots	26.00	24.41	25.66	25.31	-9.03	23.41	24.66	24.31
	3Tx slots	26.00	24.95	24.97	25.68	-6.02	23.95	23.97	24.68
	4Tx slots	25.50	25.40	25.27	23.99	-4.26	24.40	24.27	22.99

Note:

Division Factors

To average the power, the division factor is as follows:

1Tx-slots = 1 transmit time slots out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2Tx-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3Tx-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4Tx-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

10.1.2 Conducted Power of WCDMA

Mode		Maximum Tune-up(dBm)	WCDMA Band 2		
			Conducted Power (dBm)		
			CH9262	CH9400	CH9538
			1852.4	1880.0	1907.6
RMC 12.2K		23.50	22.85	23.34	23.16
HSDPA	Subtest-1	23.50	22.88	23.18	23.46
	Subtest-2	23.50	23.23	23.00	23.02
	Subtest-3	23.00	22.51	22.54	22.72
	Subtest-4	23.50	23.22	23.26	23.23
HSUPA	Subtest-1	23.50	22.71	22.51	23.32
	Subtest-2	23.50	22.59	23.16	22.6
	Subtest-3	23.50	22.76	22.95	23.09
	Subtest-4	23.50	23.33	23.27	23.33
	Subtest-5	23.50	23.20	23.41	22.63
Mode		Maximum Tune-up(dBm)	WCDMA Band 4		
			Conducted Power (dBm)		
			CH1312	CH1413	CH1513
			1712.4	1732.6	1752.6
RMC 12.2K		23.50	23.32	22.98	22.53
HSDPA	Subtest-1	23.50	23.32	22.98	22.53
	Subtest-2	23.00	22.84	22.80	22.77
	Subtest-3	23.50	22.97	22.63	23.20
	Subtest-4	23.50	22.86	23.38	22.74
HSUPA	Subtest-1	23.50	23.06	22.79	23.40
	Subtest-2	23.50	23.10	23.07	22.70
	Subtest-3	23.50	22.92	23.42	22.93
	Subtest-4	23.50	22.90	22.75	23.40
	Subtest-5	23.50	23.45	22.52	23.17
Mode		Maximum Tune-up(dBm)	WCDMA Band 5		
			Conducted Power (dBm)		
			CH4132	CH4183	CH4233
			826.4	836.6	846.6
RMC 12.2K		23.00	22.88	22.44	22.81
HSDPA	Subtest-1	23.00	22.51	22.55	22.23
	Subtest-2	22.50	22.30	22.45	22.10
	Subtest-3	23.00	22.13	22.20	22.83
	Subtest-4	22.50	22.34	22.33	22.02
HSUPA	Subtest-1	22.50	22.42	22.16	22.23
	Subtest-2	23.00	22.77	22.63	22.48
	Subtest-3	23.00	22.79	22.66	22.56
	Subtest-4	23.00	22.42	22.69	22.11
	Subtest-5	23.00	22.39	22.72	22.55
Per KDB 941225 D01, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/2$ dB higher than the primary mode (RMC12.2kbps) 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.					

10.1.3 Conducted Power of LTE Band 2

LTE-FDD Band 2				Maximum Tune- up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		18607	18900	19193	
					1850.7MHz	1880.0MHz	1909.3MHz	
1.4MHz	QPSK	1	0	23.00	22.74	22.55	22.66	
			2	23.00	22.86	22.67	22.75	
			5	23.00	22.74	22.56	22.63	
		3	0	23.00	22.83	22.64	22.67	
			2	23.00	22.85	22.66	22.71	
			3	23.00	22.83	22.62	22.68	
	16QAM	6	0	22.00	21.86	21.67	21.72	
			0	22.00	21.53	21.45	21.70	
			2	22.00	21.64	21.46	21.76	
		3	5	22.00	21.56	21.44	21.76	
			0	22.00	21.95	21.80	21.87	
			2	22.00	21.99	21.84	21.93	
6	3	22.00	21.97	21.83	21.82			
	0	21.50	21.09	20.88	20.91			
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	18615	18900	19185
1851.5MHz						1880.0MHz	1908.5MHz	
3MHz	QPSK	1	0	23.00	22.54	22.43	22.53	
			7	23.00	22.61	22.48	22.61	
			14	23.00	22.55	22.38	22.54	
		8	0	22.00	21.77	21.65	21.66	
			4	22.00	21.84	21.69	21.77	
			7	22.00	21.81	21.64	21.67	
	16QAM	15	0	22.00	21.78	21.63	21.67	
			0	22.00	21.98	21.66	21.37	
			7	22.50	22.02	21.70	21.43	
		8	14	22.00	21.96	21.61	21.32	
			0	21.00	20.78	20.69	20.68	
			4	21.00	20.85	20.72	20.73	
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	18625	18900	19175	
					1852.5MHz	1880.0MHz	1907.5MHz	
5MHz	QPSK	1	0	23.00	22.85	22.75	22.73	
			13	23.00	22.89	22.73	22.73	
			24	23.00	22.86	22.68	22.67	
		12	0	22.00	21.8	21.69	21.76	
			6	22.00	21.87	21.73	21.80	
			13	22.00	21.90	21.71	21.76	
	16QAM	25	0	22.00	21.85	21.71	21.75	
			0	22.50	22.30	22.09	22.08	
			13	22.50	22.40	22.08	22.06	
		1	24	22.50	22.34	22.00	22.03	
			12	0	21.00	20.81	20.69	20.79
				6	21.00	20.91	20.76	20.86
13	21.00	20.91		20.69	20.83			

LTE-FDD Band 2				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		18650	18900	19150
					1855.0MHz	1880.0MHz	1905.0MHz
10MHz	QPSK	1	0	23.00	22.96	22.92	22.96
			25	23.00	22.97	22.89	22.99
			49	23.00	22.93	22.78	22.96
		25	0	22.00	21.80	21.76	21.79
			13	22.00	21.90	21.81	21.83
			25	22.00	21.85	21.74	21.79
	16QAM	1	0	22.50	22.32	22.04	21.71
			25	22.50	22.30	21.98	21.72
			49	22.50	22.29	21.89	21.66
		25	0	21.00	20.87	20.79	20.82
			13	21.50	21.00	20.83	20.86
			25	21.00	20.95	20.78	20.81
50	0	21.00	20.91	20.81	20.80		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	18675	18900	19125
					1857.5MHz	1880.0MHz	1902.5MHz
15MHz	QPSK	1	0	23.00	22.89	22.86	22.89
			38	23.00	22.94	22.84	22.96
			74	23.00	22.78	22.69	22.88
		36	0	22.00	21.86	21.80	21.84
			18	22.00	21.93	21.85	21.89
			39	22.00	21.89	21.79	21.87
	16QAM	1	0	22.50	22.28	21.99	21.81
			38	22.50	22.26	21.95	21.93
			74	22.50	22.20	21.81	21.82
		36	0	21.00	20.88	20.87	20.81
			18	21.00	20.98	20.88	20.86
			39	21.00	20.91	20.83	20.78
75	0	21.00	20.94	20.83	20.89		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	18700	18900	19100
					1860.0MHz	1880.0MHz	1900.0MHz
20MHz	QPSK	1	0	23.00	22.86	22.86	22.73
			50	23.00	23.00	22.99	22.89
			99	23.00	22.77	22.72	22.76
		50	0	22.00	21.83	21.77	21.90
			25	22.00	21.92	21.83	21.87
			50	22.00	21.84	21.78	21.81
	16QAM	100	0	22.00	21.81	21.75	21.84
			0	22.50	22.12	22.02	21.89
			50	22.50	22.21	22.08	22.10
		50	99	22.50	22.08	21.80	21.96
			0	21.00	20.91	20.78	20.97
			25	21.50	21.00	20.85	20.93
50	0	21.00	20.89	20.77	20.88		
100	0	21.00	20.83	20.80	20.88		

10.1.4 Conducted Power of LTE Band 4

LTE-FDD Band 4				Maximum Tune- up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		19957	20175	20393	
					1710.7MHz	1732.5MHz	1754.3MHz	
1.4MHz	QPSK	1	0	23.00	22.65	22.78	22.86	
			2	23.00	22.78	22.88	22.94	
			5	23.00	22.66	22.80	22.85	
		3	0	23.00	22.82	22.80	22.85	
			2	23.00	22.82	22.84	22.85	
			3	23.00	22.77	22.83	22.86	
	16QAM	6	0	22.00	21.87	21.91	21.94	
			0	22.00	21.85	21.54	21.89	
			2	22.00	21.91	21.61	21.95	
		3	5	22.00	21.87	21.55	21.91	
			0	22.50	22.00	21.89	22.01	
			2	22.50	22.04	21.93	22.04	
3MHz	QPSK	1	0	23.00	22.50	22.56	22.63	
			7	23.00	22.52	22.65	22.76	
			14	23.00	22.43	22.58	22.71	
		8	0	22.00	21.68	21.79	21.81	
			4	22.00	21.77	21.84	21.89	
			7	22.00	21.74	21.80	21.86	
	16QAM	15	0	22.00	21.74	21.79	21.85	
			0	22.00	21.92	21.72	21.44	
			7	22.00	21.95	21.79	21.56	
		8	14	22.00	21.86	21.73	21.46	
			0	21.00	20.70	20.75	20.82	
			4	21.00	20.78	20.79	20.85	
5MHz	QPSK	1	7	21.00	20.73	20.75	20.85	
			15	0	21.00	20.73	20.74	20.92
			0	23.00	22.80	22.81	22.81	
		12	13	23.00	22.79	22.91	22.85	
			24	23.00	22.70	22.89	22.79	
			0	22.00	21.74	21.78	21.87	
	16QAM	25	6	22.00	21.80	21.89	21.94	
			13	22.00	21.76	21.83	21.87	
			0	22.00	21.73	21.80	21.93	
		1	0	22.50	22.27	22.06	22.14	
			13	22.50	22.28	22.14	22.16	
			24	22.50	22.17	22.10	22.14	

LTE-FDD Band 4				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20000	20175	20350
					1715.0MHz	1732.5MHz	1750.0MHz
10MHz	QPSK	1	0	23.00	22.93	22.88	22.99
			25	23.00	22.88	22.93	22.99
			49	23.00	22.90	22.90	22.96
		25	0	22.00	21.72	21.76	21.89
			13	22.00	21.82	21.87	21.93
			25	22.00	21.85	21.82	21.90
	16QAM	1	0	22.50	22.26	21.98	22.30
			25	22.50	22.22	22.04	22.31
			49	22.50	22.19	22.04	22.30
		25	0	21.00	20.75	20.79	20.93
			13	21.50	20.86	20.89	21.20
			25	21.50	20.90	20.82	21.12
15MHz	QPSK	1	0	23.50	22.81	22.80	23.06
			38	23.50	22.80	22.90	23.03
			74	23.00	22.73	22.85	22.97
		36	0	22.00	21.77	21.86	21.97
			18	22.00	21.88	21.95	21.98
			39	22.00	21.84	21.90	21.92
	16QAM	1	0	22.50	22.20	21.93	22.02
			38	22.50	22.18	22.01	22.04
			74	22.50	22.10	21.95	21.96
		36	0	21.00	20.77	20.85	20.94
			18	21.00	20.87	20.96	20.97
			39	21.00	20.85	20.93	20.88
20MHz	QPSK	1	0	23.00	22.80	22.80	22.92
			50	23.50	22.92	23.05	23.05
			99	23.00	22.80	22.86	22.89
		50	0	22.50	21.69	21.76	22.01
			25	22.00	21.85	21.90	21.99
			50	22.00	21.84	21.81	21.89
	16QAM	100	0	22.00	21.75	21.76	21.96
			0	22.50	22.08	21.91	22.09
			50	22.50	22.18	22.15	22.20
		50	99	22.50	22.02	22.01	22.06
			0	21.50	20.77	20.74	21.05
			25	21.50	20.90	20.89	21.04
25MHz	QPSK	1	0	23.00	22.80	22.80	22.92
			50	23.50	22.92	23.05	23.05
			99	23.00	22.80	22.86	22.89
		50	0	22.50	21.69	21.76	22.01
			25	22.00	21.85	21.90	21.99
			50	22.00	21.84	21.81	21.89
	16QAM	100	0	22.00	21.75	21.76	21.96
			0	22.50	22.08	21.91	22.09
			50	22.50	22.18	22.15	22.20
		50	99	22.50	22.02	22.01	22.06
			0	21.50	20.77	20.74	21.05
			25	21.50	20.90	20.89	21.04

10.1.5 Conducted Power of LTE Band 5

LTE-FDD Band 5				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20407	20525	20643
					824.7MHz	836.5MHz	848.3MHz
1.4MHz	QPSK	1	0	23.00	22.74	22.74	22.61
			2	23.00	22.84	22.78	22.7
			5	23.00	22.71	22.72	22.63
		3	0	23.00	22.89	22.77	22.67
			2	23.00	22.89	22.83	22.7
			3	23.00	22.86	22.78	22.66
	16QAM	6	0	22.00	21.9	21.84	21.71
		1	0	22.00	21.87	21.55	21.72
			2	22.00	21.95	21.62	21.76
			5	22.00	21.92	21.51	21.72
		3	0	22.50	22.02	21.93	21.88
			2	22.50	22.09	21.97	21.87
3	22.50		22.03	21.93	21.79		
6	0	21.50	21.08	21.03	20.88		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	20415	20525	20635
					825.5MHz	836.5MHz	847.5MHz
3MHz	QPSK	1	0	23.00	22.59	22.52	22.47
			7	23.00	22.70	22.60	22.59
			14	23.00	22.60	22.53	22.58
		8	0	22.00	21.79	21.78	21.64
			4	22.00	21.85	21.83	21.75
			7	22.00	21.86	21.77	21.63
	16QAM	15	0	22.00	21.79	21.72	21.72
		1	0	22.00	21.96	21.77	21.37
			7	22.50	22.05	21.82	21.41
			14	22.00	21.98	21.77	21.33
		8	0	21.00	20.80	20.77	20.68
			4	21.00	20.86	20.87	20.74
7	21.00		20.83	20.77	20.66		
		15	0	21.00	20.86	20.78	20.74

LTE-FDD Band 5				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20425	20525	20625
					826.5MHz	836.5MHz	846.5MHz
5MHz	QPSK	1	0	23.00	22.89	22.83	22.66
			13	23.00	22.96	22.86	22.73
			24	23.00	22.94	22.76	22.61
		12	0	22.00	21.84	21.79	21.76
			6	22.00	21.96	21.89	21.79
			13	22.00	21.86	21.82	21.68
	16QAM	1	0	22.00	21.91	21.85	21.71
			0	22.50	22.31	22.16	22.04
			13	22.50	22.37	22.22	22.06
		12	24	22.50	22.36	22.13	22.00
			0	21.00	20.89	20.79	20.80
			6	21.00	20.96	20.86	20.84
10MHz	QPSK	1	13	21.00	20.89	20.81	20.76
			25	21.00	20.89	20.96	20.72
			0	21.00	20.89	20.96	20.72
		25	0	21.00	20.89	20.96	20.72
			0	21.00	20.89	20.96	20.72
			0	21.00	20.89	20.96	20.72
	16QAM	1	0	21.00	20.89	20.96	20.72
			0	21.00	20.89	20.96	20.72
			0	21.00	20.89	20.96	20.72
		25	0	21.00	20.89	20.96	20.72
			0	21.00	20.89	20.96	20.72
			0	21.00	20.89	20.96	20.72
15MHz	QPSK	1	0	23.50	22.99	23.02	22.96
			25	23.50	23.04	22.92	22.9
			49	23.00	22.99	22.84	22.83
		25	0	22.00	21.87	21.85	21.79
			13	22.50	22.01	21.93	21.8
			25	22.00	21.96	21.79	21.67
	16QAM	1	0	22.00	21.98	21.88	21.79
			0	22.50	22.30	22.15	21.78
			25	22.50	22.37	22.14	21.68
		25	49	22.50	22.39	22.09	21.63
			0	21.00	20.95	20.86	20.8
			13	21.50	21.04	20.98	20.86
20MHz	QPSK	1	25	21.00	21.00	20.88	20.76
			0	21.00	20.98	20.94	20.73
			0	21.00	20.98	20.94	20.73
		25	0	21.00	20.98	20.94	20.73
			0	21.00	20.98	20.94	20.73
			0	21.00	20.98	20.94	20.73
	16QAM	1	0	21.00	20.98	20.94	20.73
			0	21.00	20.98	20.94	20.73
			0	21.00	20.98	20.94	20.73
		25	0	21.00	20.98	20.94	20.73
			0	21.00	20.98	20.94	20.73
			0	21.00	20.98	20.94	20.73

10.1.6 Conducted Power of LTE Band 7

LTE-FDD Band 7				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20775	21100	21425
					2502.5MHz	2535.0MHz	2567.5MHz
5MHz	QPSK	1	0	22.50	22.06	22.14	22.03
			13	22.50	22.10	22.22	22.12
			24	22.50	22.01	22.16	22.02
		12	0	21.50	21.09	21.19	21.21
			6	21.50	21.15	21.23	21.26
			13	21.50	21.08	21.18	21.19
	16QAM	25	0	21.50	21.10	21.14	21.20
			0	21.50	21.50	21.40	21.35
			1	13	22.00	21.57	21.46
		12	24	22.00	21.55	21.38	21.35
			0	20.50	20.06	20.12	20.19
			6	20.50	20.14	20.14	20.25
10MHz	QPSK	1	13	20.50	20.06	20.07	20.18
			0	20.50	20.07	20.16	20.13
			25	20.50	20.07	20.16	20.13
		25	0	20.50	20.07	20.16	20.13
			0	20.50	20.07	20.16	20.13
			13	20.50	20.07	20.16	20.13
	16QAM	1	0	20.50	20.07	20.16	20.13
			25	20.50	20.07	20.16	20.13
			0	20.50	20.07	20.16	20.13
		25	0	20.50	20.07	20.16	20.13
			0	20.50	20.07	20.16	20.13
			13	20.50	20.07	20.16	20.13

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20825	21100	21375
					2057.5MHz	2535.0MHz	2562.5MHz
15MHz	QPSK	1	0	22.50	22.05	22.13	22.19
			38	22.50	22.11	22.14	22.26
			74	22.50	22.04	22.07	22.21
		36	0	21.50	21.17	21.31	21.25
			18	21.50	21.22	21.33	21.29
			39	21.50	21.24	21.23	21.28
	16QAM	75	0	21.50	21.27	21.30	21.27
			0	21.50	21.48	21.30	21.29
			38	22.00	21.54	21.33	21.30
		36	74	21.50	21.48	21.31	21.23
			0	20.50	20.16	20.30	20.18
			18	20.50	20.24	20.33	20.22
		75	39	20.50	20.25	20.23	20.19
			0	20.50	20.16	20.21	20.24
			0	20.50	20.16	20.21	20.24
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	21350	21100	21350
					2560.0MHz	2535.0MHz	2560.0MHz
20MHz	QPSK	1	0	22.50	22.00	22.18	22.08
			50	22.50	22.23	22.32	22.20
			99	22.50	22.11	22.16	22.11
		50	0	21.50	21.05	21.21	21.27
			25	21.50	21.22	21.24	21.31
			50	21.50	21.21	21.18	21.15
	16QAM	100	0	21.50	21.08	21.14	21.21
			0	21.50	21.29	21.27	21.39
			50	21.50	21.47	21.41	21.46
		1	99	21.50	21.33	21.30	21.30
			0	20.50	20.10	20.15	20.23
			25	20.50	20.23	20.21	20.34
		50	50	20.50	20.26	20.14	20.17
			0	20.50	20.09	20.12	20.16
			0	20.50	20.09	20.12	20.16

10.1.7 Conducted Power of LTE Band 12

LTE-FDD Band 12				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23017	23095	23173
					699.7MHz	707.5MHz	715.3 MHz
1.4MHz	QPSK	1	0	23.00	22.75	22.54	22.54
			2	23.00	22.82	22.63	22.67
			5	23.00	22.68	22.54	22.58
		3	0	23.00	22.87	22.67	22.62
			2	23.00	22.87	22.69	22.61
			3	23.00	22.85	22.61	22.63
	16QAM	6	0	22.00	21.88	21.67	21.65
			0	22.00	21.94	21.36	21.66
			1	22.00	21.96	21.49	21.66
		3	5	22.00	21.92	21.37	21.65
			0	22.50	22.08	21.79	21.78
			2	22.50	22.13	21.84	21.79
3MHz	QPSK	1	2	22.50	22.10	21.77	21.73
			3	22.50	22.10	20.84	20.83
			6	21.50	21.02	20.84	20.83
		8	0	23.00	22.53	22.33	22.32
			7	23.00	22.62	22.40	22.52
			14	22.50	22.46	22.25	22.38
	16QAM	15	0	22.00	21.74	21.54	21.53
			4	22.00	21.84	21.64	21.61
			7	22.00	21.79	21.60	21.52
		1	0	22.00	21.76	21.53	21.55
			0	22.50	22.04	21.57	21.17
			7	22.50	22.07	21.66	21.31

LTE-FDD Band 12				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23035 701.5MHz	23095 707.5MHz	23155 713.5 MHz
5MHz	QPSK	1	0	23.00	22.77	22.75	22.54
			13	23.00	22.79	22.68	22.61
			24	23.00	22.67	22.62	22.56
		12	0	22.00	21.84	21.65	21.61
			6	22.00	21.91	21.70	21.65
			13	22.00	21.84	21.66	21.58
	16QAM	1	0	22.50	22.12	22.21	21.85
			13	22.50	22.16	22.24	21.95
			24	22.50	22.04	22.11	21.91
		12	0	21.00	20.85	20.66	20.62
			6	21.00	20.96	20.75	20.62
			13	21.00	20.88	20.66	20.56
10MHz	QPSK	1	0	23.00	22.86	22.97	22.73
			25	23.00	22.84	22.80	22.71
			49	23.00	22.59	22.70	22.77
		25	0	22.00	21.79	21.73	21.65
			13	22.00	21.89	21.71	21.66
			25	22.00	21.77	21.65	21.54
	16QAM	1	0	22.50	22.31	21.73	21.60
			25	22.50	22.29	21.62	21.49
			49	22.50	22.08	21.54	21.46
		25	0	21.00	20.81	20.70	20.68
			13	21.00	20.93	20.30	20.74
			25	21.00	20.82	20.30	20.59
15MHz	QPSK	1	0	23.00	22.86	22.97	22.73
			25	23.00	22.84	22.80	22.71
			49	23.00	22.59	22.70	22.77
		25	0	22.00	21.79	21.73	21.65
			13	22.00	21.89	21.71	21.66
			25	22.00	21.77	21.65	21.54
	16QAM	1	0	22.50	22.31	21.73	21.60
			25	22.50	22.29	21.62	21.49
			49	22.50	22.08	21.54	21.46
		25	0	21.00	20.81	20.70	20.68
			13	21.00	20.93	20.30	20.74
			25	21.00	20.82	20.30	20.59

10.1.8 Conducted Power of LTE Band 13

LTE-TDD Band 13				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23205	23230	23255
					779.5MHz	782.0MHz	784.5MHz
5MHz	QPSK	1	0	23.00	22.69	22.75	22.68
			13	23.00	22.76	22.76	22.74
			24	23.00	22.73	22.81	22.77
		12	0	22.00	21.63	21.60	21.72
			6	22.00	21.79	21.76	21.82
			13	22.00	21.72	21.63	21.70
		25	0	22.00	21.74	21.65	21.77
	16QAM	1	0	22.50	21.95	22.15	22.16
			13	22.50	22.07	22.12	22.27
			24	22.50	22.00	22.25	22.29
		12	0	21.00	20.62	20.65	20.71
			6	21.00	20.73	20.78	20.83
			13	21.00	20.64	20.72	20.77
		25	0	21.00	20.75	20.65	20.72

10.1.9 Conducted Power of LTE Band 17

LTE-TDD Band 17				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23755	23790	23825
					706.5MHz	710.0MHz	713.5MHz
5MHz	QPSK	1	0	23.00	22.77	22.60	22.45
			13	23.00	22.64	22.59	22.53
			24	23.00	22.59	22.54	22.46
		12	0	22.00	21.71	21.62	21.55
			6	22.00	21.69	21.62	21.67
			13	22.00	21.64	21.54	21.53
	16QAM	25	0	22.00	21.67	21.57	21.61
		1	0	22.50	22.27	21.95	21.81
			13	22.50	22.24	21.97	21.88
			12	24	22.50	22.09	21.87
		0		21.00	20.72	20.57	20.60
		6		21.00	20.72	20.59	20.70
13	21.00	20.68		20.47	20.60		
25	0	21.00	20.60	20.60	20.52		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	23780	23790	23800
					709.0MHz	710.0MHz	711.0MHz
10MHz	QPSK	1	0	23.00	22.82	22.69	22.71
			25	23.00	22.59	22.59	22.68
		25	49	23.00	22.56	22.58	22.67
			0	22.00	21.64	21.55	21.58
			13	22.00	21.72	21.66	21.65
			25	22.00	21.60	21.56	21.56
	50	0	22.00	21.64	21.60	21.59	
		16QAM	1	0	22.50	22.24	21.90
	25			22.50	22.10	21.88	21.53
	49			22.00	21.98	21.75	21.44
	25		0	21.00	20.71	20.58	20.60
			13	21.00	20.76	20.65	20.67
			25	21.00	20.66	20.61	20.55
	50	0	21.00	20.60	20.64	20.57	

10.1.10 Conducted Power of LTE Band 25

LTE-FDD Band 25				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26047 1850.7MHz	26365 1880.0MHz	26683 1909.3MHz
1.4MHz	QPSK	1	0	23.00	22.91	22.73	22.83
			2	23.50	23.07	22.84	22.92
			5	23.00	22.93	22.76	22.82
		3	0	23.00	22.97	22.87	22.88
			2	23.50	23.01	22.91	22.92
			3	23.00	22.98	22.86	22.85
	16QAM	1	0	22.00	22.00	21.84	21.94
			2	22.50	22.01	21.96	21.61
			5	22.50	22.06	21.97	21.67
		3	0	22.50	22.01	21.93	21.58
			2	22.50	22.16	22.11	22.00
			3	22.50	22.22	22.17	22.03
3MHz	QPSK	1	0	21.50	21.23	21.05	21.12
			2	21.50	21.23	21.05	21.12
			5	21.50	21.23	21.05	21.12
		8	0	22.00	22.00	21.84	21.94
			7	22.50	22.01	21.96	21.61
			14	22.50	22.06	21.97	21.67
	16QAM	1	0	22.00	22.00	21.84	21.94
			7	22.50	22.01	21.96	21.61
			14	22.50	22.06	21.97	21.67
		8	0	21.00	21.00	20.90	20.85
			4	21.50	21.06	20.92	20.92
			7	21.50	21.01	20.88	20.88
5MHz	QPSK	1	0	21.50	21.04	20.87	20.98
			13	23.00	22.57	22.32	22.25
			24	22.50	22.48	22.25	22.14
		12	0	21.50	21.02	20.90	21.01
			6	21.50	21.08	20.95	21.08
			13	21.50	21.08	20.92	20.99
	16QAM	1	0	21.50	21.04	21.00	20.91
			13	23.00	22.57	22.32	22.25
			24	22.50	22.48	22.25	22.14
		12	0	21.50	21.02	20.90	21.01
			6	21.50	21.08	20.95	21.08
			13	21.50	21.08	20.92	20.99

LTE-FDD Band 25				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26090 1855.0	26365 1880.0MHz	26640 1905.0MHz
10MHz	QPSK	1	0	23.50	23.14	23.12	23.15
			25	23.50	23.14	23.07	23.15
			49	23.50	23.12	23.01	23.13
		25	0	22.50	22.00	21.93	21.91
			13	22.50	22.08	22.00	21.97
			25	22.00	22.00	21.95	21.90
	16QAM	1	0	22.50	22.47	22.23	21.90
			25	22.50	22.47	22.18	21.86
			49	22.50	22.45	22.12	21.80
		25	0	21.50	21.06	20.97	20.98
			13	21.50	21.15	21.06	21.02
			25	21.50	21.09	21.00	20.96
15MHz	QPSK	1	0	23.50	23.08	23.05	23.03
			38	23.50	23.11	23.01	22.14
			74	23.50	23.00	22.86	22.83
		36	0	23.00	22.04	22.03	22.53
			18	23.00	22.10	22.04	22.70
			39	22.50	22.05	21.97	22.24
	16QAM	1	0	22.50	22.09	22.01	22.34
			38	23.00	22.44	22.23	22.83
			74	22.50	22.46	22.17	22.73
		36	0	21.50	22.40	22.02	22.01
			18	21.50	21.08	21.05	20.97
			39	21.50	21.12	21.09	20.96
20MHz	QPSK	1	0	21.50	21.07	20.96	21.00
			50	21.50	21.07	20.96	21.00
			99	21.50	21.07	20.96	21.00
		50	0	23.50	23.03	23.12	22.91
			50	23.50	23.21	23.17	23.11
			99	23.00	22.99	22.92	22.97
	16QAM	1	0	22.50	22.00	22.92	22.97
			25	22.50	22.00	21.95	22.02
			50	22.50	22.14	22.03	22.05
		50	0	22.00	21.98	21.96	21.90
			25	22.00	21.99	21.93	21.99
			50	22.00	21.99	21.93	21.99
25MHz	QPSK	1	0	22.50	22.31	22.25	22.12
			50	22.50	22.42	22.27	22.31
			99	22.50	22.32	22.02	22.11
		50	0	21.50	21.07	20.95	21.07
			25	21.50	21.18	21.01	21.14
			50	21.50	21.05	20.93	21.01
	16QAM	1	0	21.50	21.02	20.99	21.02
			50	21.50	21.02	20.99	21.02
			99	21.50	21.02	20.99	21.02
		50	0	21.50	21.02	20.99	21.02
			25	21.50	21.02	20.99	21.02
			50	21.50	21.02	20.99	21.02

10.1.11 Conducted Power of LTE Band 26

LTE-FDD Band 26				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26697	26740	26783
					814.7 MHz	819.0MHz	823.3 MHz
1.4MHz	QPSK	1	0	23.50	22.78	22.92	23.00
			2	23.50	22.90	22.99	23.14
			5	23.50	22.79	22.88	23.02
		3	0	23.50	22.94	23.00	23.00
			2	23.50	22.96	23.02	23.03
			3	23.50	22.97	22.95	23.05
	6	0	22.50	21.94	21.99	22.10	
		0	22.50	21.99	21.68	22.11	
	16QAM	1	2	22.50	22.02	21.82	22.13
			5	22.50	22.00	21.73	22.04
			0	22.50	22.13	22.13	22.19
		3	2	22.50	22.21	22.16	22.21
			3	22.50	22.17	22.12	22.17
6			0	21.50	21.12	21.21	21.27
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	26705	26740	26775
					815.5 MHz	819.0MHz	822.5 MHz
3MHz	QPSK	1	0	23.00	22.69	22.76	22.84
			7	23.00	22.74	22.80	22.95
			14	23.00	22.71	22.75	22.97
		8	0	22.00	21.87	21.94	21.98
			4	22.50	21.94	21.99	22.08
			7	22.50	21.95	22.02	22.00
	15	0	22.50	21.95	21.96	22.01	
		0	22.50	22.07	21.98	21.67	
	16QAM	1	7	22.50	22.18	22.08	21.76
			14	22.50	22.15	21.99	21.68
			0	21.00	20.88	20.99	20.96
		8	4	21.50	21.03	21.02	21.03
			7	21.50	20.98	20.95	21.03
15			0	21.50	20.99	20.95	21.09

LTE-FDD Band 26				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26715 816.5 MHz	26740 819.0MHz	26765 821.5 MHz
5MHz	QPSK	1	0	23.50	23.03	22.96	22.91
			13	23.50	22.97	23.06	23.05
			24	23.50	22.00	23.08	23.00
		12	0	22.50	22.07	21.95	22.04
			6	22.50	22.02	22.05	22.12
			13	22.50	21.97	22.03	22.07
	16QAM	1	0	22.50	22.37	22.04	22.09
			0	23.00	22.61	22.30	22.28
			13	23.00	22.55	22.42	22.38
		12	24	22.50	20.98	22.36	22.29
			0	21.50	21.08	20.86	21.06
			6	21.50	21.07	21.06	21.16
10MHz	QPSK	1	13	21.50	21.04	21.05	21.16
			25	23.50	23.03	21.07	21.05
			0	23.50	26740	26740	26740
		25	0	23.50	23.01		
			25	23.50	23.06		
			49	23.50	23.15		
		50	0	22.00	21.97		
			13	22.50	22.02		
			25	22.50	22.04		
	16QAM	1	0	22.50	22.02		
			0	22.50	22.40		
			25	23.00	22.52		
		25	49	22.50	22.49		
			0	21.00	21.00		
			13	21.50	21.17		
		50	25	21.50	21.20		
			0	21.50	21.13		

10.1.12 Conducted Power of LTE Band 26

LTE-FDD Band 26				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26797	26915	27033
					824.7 MHz	836.5 MHz	848.3 MHz
1.4MHz	QPSK	1	0	23.50	23.02	22.94	22.77
			2	23.50	23.08	23.04	22.89
			5	23.50	23.06	22.91	22.74
		3	0	23.50	23.02	22.98	22.96
			2	23.50	23.06	23.00	23.01
			3	23.50	23.03	22.98	22.90
	16QAM	6	0	22.50	22.11	21.99	21.94
		1	0	22.50	21.77	22.06	22.02
			2	22.50	21.84	22.11	22.07
			5	22.50	21.78	22.05	22.00
		3	0	22.50	22.11	22.18	22.16
			2	22.50	22.17	22.24	22.15
3	22.50		22.12	22.16	22.13		
		6	0	21.50	21.27	21.25	21.16
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	26805	26915	27025
					825.5 MHz	836.5 MHz	847.5 MHz
3MHz	QPSK	1	0	23.00	22.82	22.81	22.71
			7	23.00	22.93	22.82	22.87
			14	23.00	22.88	22.73	22.83
		8	0	22.50	22.03	21.93	21.92
			4	22.50	22.13	22.02	22.00
			7	22.50	22.07	22.03	21.88
	16QAM	15	0	22.50	22.11	21.99	21.94
		1	0	22.50	22.22	22.01	21.64
			7	22.50	22.27	22.12	21.69
			14	22.50	22.22	22.04	21.63
		8	0	21.50	21.05	21.01	20.92
			4	21.50	21.15	21.07	21.01
7	21.50		21.09	21.05	20.97		
15	0	21.50	21.06	20.97	21.07		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	26815	26915	27015
					826.5 MHz	836.5 MHz	846.5 MHz
5MHz	QPSK	1	0	23.50	23.05	23.04	22.96
			13	23.50	23.15	23.10	23.02
			24	23.50	23.03	23.03	22.97
		12	0	22.50	22.14	22.10	22.03
			6	22.50	22.18	22.16	22.03
			13	22.50	22.14	22.07	21.91
	16QAM	25	0	22.50	22.14	22.09	22.01
		1	0	23.00	22.33	22.62	22.29
			13	23.00	22.41	22.68	22.34
			24	23.00	22.30	22.62	22.29
		12	0	21.50	21.22	21.09	20.99
			6	21.50	21.20	21.18	20.99
13	21.50		21.17	21.15	20.90		
		25	0	21.50	21.07	21.10	21.04

LTE-FDD Band 26				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26840 829.0 MHz	26915 836.5 MHz	26990 844.0 MHz
10MHz	QPSK	1	0	23.50	23.15	23.27	23.09
			25	23.50	23.24	23.24	23.07
			49	23.50	23.17	23.24	23.00
		25	0	22.50	22.14	22.11	22.04
			13	22.50	22.23	22.18	22.07
			25	22.50	22.10	22.10	21.95
	16QAM	50	0	22.50	22.19	22.14	22.02
			0	23.00	22.48	22.06	22.55
			25	23.00	22.57	22.03	22.54
		1	49	23.00	22.59	22.02	22.44
			0	21.50	21.19	21.12	21.11
			13	21.50	21.25	21.20	21.19
15MHz	QPSK	25	25	21.50	21.21	21.00	20.97
			0	21.50	21.21	21.09	21.03
			0	21.50	21.21	21.09	21.03
	16QAM	50	0	21.50	21.21	21.09	21.03
			0	21.50	21.21	21.09	21.03
			0	21.50	21.21	21.09	21.03
15MHz	QPSK	1	0	23.50	23.16	23.10	23.15
			38	23.50	23.17	23.13	23.18
			74	23.50	23.13	22.98	23.04
		36	0	22.50	22.25	22.18	22.05
			18	22.50	22.25	22.15	22.13
			39	22.50	22.17	22.12	22.00
	16QAM	75	0	22.50	22.29	22.17	22.10
			0	22.50	22.47	22.27	22.17
			38	23.00	22.63	22.37	22.24
		1	74	23.00	22.59	22.25	22.06
			0	21.50	21.27	21.23	21.06
			18	21.50	21.24	21.24	21.08
15MHz	QPSK	36	39	21.50	21.25	21.14	20.99
			0	21.50	21.28	21.13	21.09
			0	21.50	21.28	21.13	21.09
	16QAM	75	0	21.50	21.28	21.13	21.09
			0	21.50	21.28	21.13	21.09
			0	21.50	21.28	21.13	21.09

10.1.13 Conducted Power of LTE Band 38

LTE-TDD Band 38				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		37775 2572.5MHz	38000 2595.0MHz	38225 2617.5MHz
5MHz	QPSK	1	0	22.50	22.15	22.12	22.17
			13	22.50	22.23	22.24	22.29
			24	22.50	22.12	22.15	22.14
		12	0	21.50	21.15	21.14	21.16
			6	21.50	21.21	21.19	21.22
			13	21.50	21.16	21.11	21.17
	16QAM	25	0	21.50	21.13	21.18	21.18
			0	22.00	21.74	21.41	21.76
			13	22.00	21.85	21.52	21.88
		1	24	22.00	21.76	21.44	21.77
			0	20.50	20.16	20.10	20.23
			6	20.50	20.20	20.20	20.27
10MHz	QPSK	12	13	20.50	20.15	20.13	20.23
			0	20.50	20.13	20.24	20.00
			25	20.50	20.13	20.24	20.00
	16QAM	25	0	20.50	20.13	20.24	20.00
			0	22.50	22.21	22.20	22.19
			25	22.50	22.23	22.23	22.32
	QPSK	1	49	22.50	22.26	22.22	22.27
			0	21.50	21.21	21.21	21.20
			13	21.50	21.22	21.21	21.26
		25	25	21.50	21.16	21.16	21.21
			0	21.50	21.21	21.18	21.25
			0	22.00	21.17	21.69	21.39
10MHz	16QAM	1	25	22.00	21.24	21.73	21.45
			49	22.00	21.18	21.69	21.41
			0	20.50	20.19	20.27	20.26
	QPSK	25	13	20.50	20.27	20.29	20.34
			25	20.50	20.20	20.21	20.27
			0	20.50	20.14	20.21	20.28

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	37825	38000	38175
					2577.5MHz	2595.0MHz	2612.5MHz
15MHz	QPSK	1	0	22.50	22.21	22.12	22.18
			38	22.50	22.34	22.22	22.22
			74	22.50	22.22	22.14	22.19
		36	0	21.50	21.18	21.18	21.19
			18	21.50	21.20	21.18	21.24
			39	21.50	21.15	21.14	21.19
	16QAM	75	0	21.50	21.16	21.18	21.22
			0	22.00	21.40	21.66	21.35
			38	22.00	21.47	21.74	21.39
		36	74	22.00	21.32	21.64	21.36
			0	20.50	20.17	20.26	20.30
			18	20.50	20.22	20.27	20.33
			39	20.50	20.16	20.22	20.31
			75	20.50	20.21	20.19	20.20
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	38750	38000	38150
					2580.0MHz	2595.0MHz	2610.0MHz
20MHz	QPSK	1	0	22.50	22.07	22.10	22.08
			50	22.50	22.24	22.27	22.29
			99	22.50	22.09	22.13	22.13
		50	0	21.50	21.20	21.17	21.19
			25	21.50	21.25	21.21	21.23
			50	21.50	21.13	21.12	21.18
	16QAM	100	0	21.50	21.12	21.14	21.14
			0	21.50	21.34	21.25	21.26
			50	22.00	21.52	21.49	21.47
		50	99	21.50	21.33	21.34	21.33
			0	20.50	20.26	20.19	20.21
			25	20.50	20.32	20.25	20.24
			50	20.50	20.17	20.14	20.18
			100	20.50	20.14	20.16	20.17

10.1.14 Conducted Power of LTE Band 41

LTE-TDD Band 41				Maximum Tune- up(dBm)	Conducted Power(dBm)				
Bandwidth	Modulation	RB allocation	RB offset		39675 2498.5MHz	40160 2552.0MHz	40620 2593 MHz	41080 2639.5 MHz	41565 2687.5MHz
5MHz	QPSK	1	0	22.50	22.06	22.00	22.13	21.92	21.91
			13	22.50	22.15	22.09	22.22	22.02	22.01
			24	22.50	22.04	21.97	22.09	21.88	21.87
		12	0	21.50	21.07	20.99	21.11	20.95	20.98
			6	21.50	21.10	21.02	21.14	20.97	21.00
			13	21.50	21.07	20.99	21.11	20.95	20.99
	16QAM	1	0	21.50	21.08	21.00	21.12	20.96	21.00
			0	22.00	21.67	21.43	21.39	21.26	21.32
			13	22.00	21.80	21.54	21.47	21.32	21.37
		12	0	22.00	21.70	21.44	21.37	21.22	21.27
			6	20.50	20.08	20.00	20.11	20.00	20.08
			13	20.50	20.13	20.04	20.15	20.02	20.09
10MHz	QPSK	1	0	20.50	20.04	19.97	20.09	19.97	20.05
			0	20.50	20.08	20.04	20.20	20.04	20.07
			13	20.50	20.08	20.04	20.20	20.04	20.07
		25	0	20.50	20.08	20.04	20.20	20.04	20.07
			0	22.00	21.66	21.46	21.36	21.17	21.08
			25	22.00	21.65	21.46	21.36	21.16	21.06
	16QAM	1	0	22.00	21.66	21.43	21.30	21.11	21.02
			0	20.50	20.14	20.13	20.22	20.14	20.15
			13	20.50	20.19	20.19	20.29	20.20	20.21
		25	0	20.50	20.17	20.14	20.20	20.10	20.09
			0	20.50	20.11	20.13	20.24	20.15	20.16
			25	20.50	20.11	20.13	20.24	20.15	20.16

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	39725	40160	40620	41030	41515
					2503.5MHz	2547.0MHz	2593.0MHz	2634.0MHz	2682.5MHz
15MHz	QPSK	1	0	22.50	22.05	22.06	22.16	22.09	22.11
			38	22.50	22.14	22.13	22.21	22.14	22.17
		36	74	22.50	22.04	22.05	22.15	22.03	22.00
			0	21.50	21.11	21.09	21.17	21.09	21.10
			18	21.50	21.13	21.10	21.17	21.10	21.13
			39	21.50	21.15	21.08	21.10	21.02	21.04
			75	21.50	21.10	21.09	21.17	21.09	21.10
			0	22.00	21.54	21.38	21.31	21.26	21.30
	16QAM	1	38	22.00	21.64	21.46	21.37	21.32	21.36
			74	22.00	21.56	21.37	21.27	21.17	21.16
			0	20.50	20.14	20.17	20.29	20.16	20.12
		36	18	20.50	20.14	20.17	20.30	20.18	20.16
			39	20.50	20.18	20.14	20.20	20.09	20.07
			75	20.50	20.11	20.10	20.18	20.11	20.13
			0	20.50	20.11	20.10	20.18	20.11	20.13
			0	20.50	20.11	20.10	20.18	20.11	20.13
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	39750	40185	40620	41055	41490
					2506 MHz	2549.5MHz	2593 MHz	2636.5MHz	2680 MHz
20MHz	QPSK	1	0	21.50	21.01	21.00	21.09	21.00	21.01
			50	22.50	22.20	22.19	22.28	22.18	22.18
			99	22.50	22.06	22.04	22.11	21.96	21.91
		50	0	21.50	21.10	21.09	21.18	21.10	21.12
			25	21.50	21.18	21.15	21.21	21.14	21.17
			50	21.50	21.20	21.11	21.12	21.04	21.05
		100	0	21.50	21.07	21.04	21.10	21.01	21.02
			0	20.50	20.30	20.27	20.34	20.23	20.21
	16QAM	1	50	21.50	21.47	21.41	21.45	21.36	21.37
			99	21.50	21.35	21.28	21.31	21.16	21.11
			0	20.50	20.10	20.10	20.20	20.15	20.20
		50	25	20.50	20.20	20.18	20.25	20.23	20.31
			50	20.50	20.26	20.15	20.13	20.10	20.16
			0	20.50	20.09	20.07	20.15	20.07	20.09
		100	0	20.50	20.09	20.07	20.15	20.07	20.09
			0	20.50	20.09	20.07	20.15	20.07	20.09

10.1.15 Conducted Power of LTE Band 66

LTE-FDD Band 66				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		131979 1710.7MHz	132322 1745.0MHz	132665 1779.3 MHz
1.4MHz	QPSK	1	0	23.50	22.64	22.86	23.07
			2	23.50	22.77	22.98	23.19
			5	23.50	22.62	22.83	23.04
		3	0	23.50	22.78	22.91	23.04
			2	23.50	22.80	22.95	23.08
			3	23.50	22.77	22.88	23.07
	16QAM	6	0	22.50	21.86	21.97	22.16
			0	22.50	21.83	21.63	22.06
			2	22.50	21.88	21.72	22.15
		1	5	22.50	21.85	21.64	22.09
			0	22.50	22.00	22.00	22.20
			2	22.50	22.02	22.08	22.25
3MHz	QPSK	3	3	22.50	21.97	22.02	22.16
			0	21.50	20.98	21.13	21.32
		6	0	21.50	20.98	21.13	21.32
			0	21.50	20.98	21.13	21.32
		1	0	23.00	22.48	22.67	22.88
			7	23.00	22.54	22.69	22.92
	16QAM	14	0	23.00	22.44	22.62	22.90
			4	22.00	21.65	21.81	21.99
			7	22.50	21.74	21.91	22.08
		8	7	22.50	21.74	21.82	22.02
			0	22.00	21.69	21.85	22.00
			7	22.00	21.90	21.79	21.65
5MHz	QPSK	1	7	22.00	21.96	21.88	21.70
			14	22.00	21.86	21.78	21.64
			0	21.00	20.72	20.85	20.93
	16QAM	8	4	21.00	20.77	20.91	21.00
			7	21.50	20.74	20.82	21.02
			0	21.50	20.73	20.82	21.07
5MHz	QPSK	15	0	21.50	20.73	20.82	21.07
			0	23.00	22.77	22.94	22.98
			13	23.50	22.80	22.96	23.06
		12	24	23.00	22.76	22.88	22.99
			0	22.50	21.73	21.94	22.04
			6	22.50	21.81	21.95	22.09
5MHz	QPSK	25	13	22.50	21.81	21.88	22.05
			0	22.50	21.75	21.92	22.07
			0	22.50	22.25	22.21	22.26
	16QAM	1	13	22.50	22.29	22.26	22.33
			24	22.50	22.24	22.17	22.29
			0	21.50	20.70	20.88	21.05
5MHz	QPSK	12	6	21.50	20.84	20.92	21.12
			13	21.50	20.78	20.85	21.07
			0	21.50	20.77	20.94	21.01
	16QAM	25	0	21.50	20.77	20.94	21.01
			0	21.50	20.77	20.94	21.01
			0	21.50	20.77	20.94	21.01

LTE-FDD Band 66				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		132022	132322	132622
					1715.0 MHz	1745.0MHz	1775.0 MHz
10MHz	QPSK	1	0	23.50	22.87	23.08	23.20
			25	23.50	22.91	23.03	23.22
			49	23.50	22.80	23.03	23.22
		25	0	22.50	21.72	21.94	22.08
			13	22.50	21.82	21.97	22.07
			25	22.50	21.84	21.91	22.01
	16QAM	1	0	22.50	21.82	21.95	22.05
			25	22.50	22.25	22.14	21.94
			49	22.50	22.24	22.10	21.93
		25	0	22.50	22.16	22.10	21.92
			13	21.50	20.77	20.96	21.07
			25	21.50	20.85	20.97	21.12
15MHz	QPSK	1	0	23.50	22.77	23.00	23.11
			38	23.50	22.83	22.99	23.21
			74	23.50	22.73	22.90	23.14
		36	0	22.50	21.79	22.02	22.12
			18	22.50	21.82	22.02	22.18
			39	22.50	21.81	21.96	22.07
	16QAM	1	0	22.50	21.86	22.00	22.12
			38	22.50	22.17	22.11	22.15
			74	22.50	22.19	22.11	22.23
		36	0	22.50	22.05	22.01	22.11
			18	21.50	20.81	21.06	21.04
			39	21.50	20.87	21.06	21.07
20MHz	QPSK	1	0	23.00	22.70	22.95	22.90
			50	23.50	22.87	23.10	23.16
			99	23.50	22.72	22.86	23.01
		50	0	22.50	21.71	22.02	22.00
			25	22.50	21.82	22.02	22.11
			50	22.00	21.80	21.93	21.99
	16QAM	100	0	22.00	21.79	21.95	21.97
			0	22.50	22.02	22.06	22.09
			50	22.50	22.19	22.23	22.35
		50	99	22.50	22.00	22.04	22.16
			0	21.50	20.78	20.98	21.02
			25	21.50	20.90	21.01	21.17
50	21.50	20.90	20.90	21.06			

10.1.16 Conducted Power of Wi-Fi 2.4G

Mode	802.11b		
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)
Average Power(dBm)	20.92	18.93	18.69
Mode	802.11g		
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)
Average Power(dBm)	21.4	21.78	21.65
Mode	802.11n(HT20)		
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)
Average Power(dBm)	22.29	22.66	22.55
Mode	802.11n(HT40)		
Channel/Frequency(MHz)	7(2422)	6(2437)	9(2452)
Average Power(dBm)	20.93	21.00	20.95

10.1.17 Conducted Power of Wi-Fi 5G

Band	Mode	Frequency (MHz)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
U-NII-1 (5150-5250)	802.11a	5180	15.50±1.0dbm	15.48	No
		5240	16.00±1.0dbm	15.84	No
	802.11n-HT20	5180	16.50±1.0dbm	16.02	No
		5240	16.50±1.0dbm	16.37	No
	802.11n-HT40	5190	17.00±1.0dbm	16.53	No
		5230	17.00±1.0dbm	16.62	Yes
	802.11ac-VHT20	5180	15.50±1.0dbm	15.19	No
		5240	15.50±1.0dbm	15.42	No
	802.11ac-VHT40	5190	16.00±1.0dbm	15.53	No
		5230	16.00±1.0dbm	15.52	No
U-NII-2a (5250-5350)	802.11a	5210	15.50±1.0dbm	15.14	No
		5260	16.00±1.0dbm	15.84	No
	802.11n-HT20	5320	16.50±1.0dbm	16.02	No
		5260	16.50±1.0dbm	16.36	No
	802.11n-HT40	5320	16.50±1.0dbm	16.41	No
		5270	17.00±1.0dbm	16.58	No
	802.11ac-VHT20	5310	17.50±1.0dbm	17.00	Yes
		5260	15.50±1.0dbm	15.5	No
	802.11ac-VHT40	5320	15.50±1.0dbm	15.39	No
		5270	15.50±1.0dbm	15.49	No
U-NII-2c (5470-5725)	802.11a	5310	16.00±1.0dbm	15.96	No
		5290	15.50±1.0dbm	15.11	No
	802.11n-HT20	5500	16.00±1.0dbm	15.66	No
		5700	16.50±1.0dbm	16.26	No
	802.11n-HT40	5500	16.50±1.0dbm	16.33	No
		5700	17.00±1.0dbm	16.71	No
	802.11ac-VHT20	5510	16.50±1.0dbm	16.01	No
		5670	17.00±1.0dbm	16.73	Yes
	802.11ac-VHT40	5500	15.50±1.0dbm	15.26	No
		5700	16.00±1.0dbm	15.80	No
U-NII-3 (5725-5825)	802.11a	5510	15.00±1.0dbm	14.87	No
		5670	16.00±1.0dbm	15.73	No
	802.11ac-VHT20	5530	15.50±1.0dbm	15.06	No
		5610	16.50±1.0dbm	16.27	No
	802.11n-HT20	5745	17.00±1.0dbm	16.56	No
		5825	17.00±1.0dbm	16.78	No
	802.11n-HT40	5745	17.00±1.0dbm	16.97	No
		5825	17.50±1.0dbm	17.40	No
	802.11ac-VHT20	5755	17.50±1.0dbm	17.12	No
		5795	17.50±1.0dbm	17.42	Yes
U-NII-3 (5725-5825)	802.11ac-VHT40	5745	16.50±1.0dbm	16.03	No
		5825	17.00±1.0dbm	16.52	No
	802.11ac-VHT40	5755	16.50±1.0dbm	16.09	No
		5795	16.50±1.0dbm	16.42	No
	802.11ac-VHT80	5775	16.50±1.0dbm	16.04	No

10.1.18 Conducted Power of BT

EDR	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)			
			0	39	78	
			2402MHz	2441MHz	2480MHz	
	GFSK	15.00	13.42	14.61	14.55	
	π/4DQPSK	14.50	12.55	14.26	14.24	
8DPSK	14.00	12.38	13.69	13.70		
BLE	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)			
			0	20	39	
			2402MHz	2440MHz	2480MHz	
	1Mbps	-3.00	-4.79	-3.13	-3.75	
	2Mbps	-3.00	-4.70	-3.15	-3.58	
Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Exclusion thresholds for 1-g SAR(mW)	SAR exposure evaluation required
39	2.441	15.00	14.61	0	3	Yes
20	2.440	-3.00	-3.13	0	3	No

Note

1. Per KDB 447498 D04 Interim General RF Exposure Guidance v01, the 1-g SAR test exclusion thresholds for 300 MHz to 6 GHz at test separation distances ≤ 40 cm are determined by:

$$P_{\text{th}} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{70 \text{ cm}, \sqrt{f}}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20\text{cm}}$ is per Formula (B.1).

*When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine estimated SAR.

2. Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
3. The output power of all data rate were prescan, just the worst case (the lowest data rate) of all mode were shown in report.

10.1.19 Tune-up power tolerance

Band	Tune-up power tolerance(dBm)		
GSM850	GSM/GPRS (GMSK)	GSM	Max output power =33.00±1.0dBm
		1TXslots	Max output power =30.00±1.0dBm
		2TXslots	Max output power =30.50±1.0dBm
		3TXslots	Max output power =30.50±1.0dBm
	EGPRS (8-PSK)	4TXslots	Max output power =30.50±1.0dBm
		1TXslots	Max output power =28.00±1.0dBm
		2TXslots	Max output power =27.50±1.0dBm
		3TXslots	Max output power =28.00±1.0dBm
GSM1900	GSM/GPRS (GMSK)	4TXslots	Max output power =28.50±1.0dBm
		GSM	Max output power =30.00±1.0dBm
		1TXslots	Max output power =27.00±1.0dBm
		2TXslots	Max output power =28.50±1.0dBm
	EGPRS (8-PSK)	3TXslots	Max output power =28.50±1.0dBm
		4TXslots	Max output power =27.50±1.0dBm
		1TXslots	Max output power =25.50±1.0dBm
		2TXslots	Max output power =26.00±1.0dBm
WCDMA 2		3TXslots	Max output power =26.00±1.0dBm
WCDMA 4		4TXslots	Max output power =25.50±1.0dBm
WCDMA 5			
LTE B2			
LTE B4			
LTE B5			
LTE B7			
LTE B12			
LTE B13			
LTE B17			
LTE B25			
LTE B26			
LTE B26			
LTE B38			
LTE B41			
LTE B66			
WIFI	2.4GWIFI	802.11b	Max output power =21.00±1.0dBm
		802.11g	Max output power =22.00±1.0dBm
		802.11n (HT20)	Max output power =23.00±1.0dBm
		802.11n (HT40)	Max output power =21.50±1.0dBm
		U-NII-1(5150-5250)	Max output power =17.00±1.0dBm
		U-NII-2a(5250-5350)	Max output power =17.50±1.0dBm
		U-NII-2c(5470-5725)	Max output power =17.00±1.0dBm
BT	GFSK	U-NII-3(5725-5825)	Max output power =17.50±1.0dBm
BLE	π/4DQPSK	8DPSK	Max output power =15.00±1.0dBm
		1Mbps	Max output power =14.50±1.0dBm
		2Mbps	Max output power =14.00±1.0dBm

10.2 SAR test results

Notes:

1) Per KDB447498 D01v05 r02, the SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the scaled SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR limit ($< 0.8 \text{ W/kg}$), testing at the high and low channels is optional.

2) Per KDB447498 D01v05r02, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is: $\leq 0.8 \text{ W/kg}$ or 2.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\leq 100 \text{ MHz}$. When the maximum output power variation across the required test channels is $> \frac{1}{2} \text{ dB}$, instead of the middle channel, the highest output power channel must be used.

3) Per KDB447498 D01v05r02, All measurement SAR result is scaled-up to account for tune-up tolerance is compliant.

4) Per KDB648474 D04v01r02, body-worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn with headset SAR.

5) Per KDB248227 D01v01r02, the procedures required to establish specific device operating configurations for testing the SAR of 802.11 a/b/g transmitters.

(1) For Headsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is $\leq 0.4 \text{ W/kg}$, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is $\leq 0.8 \text{ W/kg}$ or all test positions are measured.

(2) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is $\leq 0.8 \text{ W/kg}$, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is $> 1.2 \text{ W/kg}$, SAR is required for the third channel. 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 $\leq 1.2 \text{ W/kg}$.

(3) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is ≤ 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is ≤ 1.2 W/kg.

6) Per KDB865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/Kg; if the deviation among the repeated measurement is $\leq 20\%$, and the measured SAR < 1.45 W/Kg, only one repeated measurement is required.

7) Per KDB865664 D02v01r01, SAR plot is only required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination; Plots are also required when the measured SAR is > 1.5 W/kg, or > 7.0 W/kg for occupational exposure. The published RF exposure KDB procedures may require additional plots; for example, to support SAR to peak location separation ratio test exclusion and/or volume scan post-processing (Refer to appendix B for details).

8) Per KDB941225 D06v01r01, the DUT Dimension is bigger than 9 cm x 5 cm, so 10mm is chosen as the test separation distance for Hotspot mode. When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

9) Per KDB 941225 D01, 3G SAR Measurement Procedures, The mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. 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.

10) Per KDB 941225 D05, SAR Evaluation Considerations for LTE Devices

(1) QPSK with 1 RB and 50% RB allocation

Start with the largest channel bandwidth and measure SAR, 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; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

(2) QPSK with 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 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.

(3) Higher order modulations

SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> 1/2$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

(4) Other channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is $> 1/2$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

10.3 Test Result

10.3.1 Results overview of GSM

Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
GPRS 850+4slots	Front	128	824.2	-3.850	0.736	100	1.00	32.50	33.00	0.826	1.122
	Back	128	824.2	0.480	0.615	100	1.00	32.50	33.00	0.690	1.122
	Left	128	824.2	2.130	0.007	100	1.00	32.50	33.00	0.008	1.122
	Right	128	824.2	-4.320	0.145	100	1.00	32.50	33.00	0.163	1.122
	Top	128	824.2	-2.160	0.182	100	1.00	32.50	33.00	0.204	1.122
	Bottom	128	824.2	3.880	0.005	100	1.00	32.50	33.00	0.006	1.122

Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
GPRS 1900+4slots	Front	512	1850.2	3.490	0.802	100	1.00	30.00	30.50	0.900	1.122
	Back	512	1850.2	4.390	0.664	100	1.00	30.00	30.50	0.745	1.122
	Left	512	1850.2	1.810	0.005	100	1.00	30.00	30.50	0.006	1.122
	Right	512	1850.2	1.750	0.197	100	1.00	30.00	30.50	0.221	1.122
	Top	512	1850.2	4.880	0.205	100	1.00	30.00	30.50	0.230	1.122
	Bottom	512	1850.2	-1.980	0.006	100	1.00	30.00	30.50	0.007	1.122

10.3.2 Results overview of WCDMA

Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 2 (RMC*)	Front	9538	1907.6	4.740	0.673	100	1.00	23.46	23.50	0.679	1.009
	Back	9538	1907.6	-2.020	0.652	100	1.00	23.46	23.50	0.658	1.009
	Left	9538	1907.6	1.060	0.003	100	1.00	23.46	23.50	0.003	1.009
	Right	9538	1907.6	2.140	0.014	100	1.00	23.46	23.50	0.014	1.009
	Top	9538	1907.6	2.800	0.019	100	1.00	23.46	23.50	0.019	1.009
	Bottom	9538	1907.6	1.020	0.002	100	1.00	23.46	23.50	0.002	1.009

Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 4 (RMC*)	Front	1712.4	1312	-1.460	0.777	100	1.00	23.45	23.50	0.786	1.012
	Back	1712.4	1312	-2.230	0.711	100	1.00	23.45	23.50	0.719	1.012
	Left	1712.4	1312	4.260	0.009	100	1.00	23.45	23.50	0.009	1.012
	Right	1712.4	1312	1.350	0.017	100	1.00	23.45	23.50	0.017	1.012
	Top	1712.4	1312	2.410	0.035	100	1.00	23.45	23.50	0.035	1.012
	Bottom	1712.4	1312	-4.720	0.007	100	1.00	23.45	23.50	0.007	1.012

Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 5 (RMC*)	Front	4132	826.4	1.900	0.722	100	1.00	22.88	23.00	0.742	1.028
	Back	4132	826.4	4.200	0.684	100	1.00	22.88	23.00	0.703	1.028
	Left	4132	826.4	-4.050	0.084	100	1.00	22.88	23.00	0.086	1.028
	Right	4132	826.4	2.470	0.045	100	1.00	22.88	23.00	0.046	1.028
	Top	4132	826.4	-0.990	0.030	100	1.00	22.88	23.00	0.031	1.028
	Bottom	4132	826.4	4.150	0.022	100	1.00	22.88	23.00	0.023	1.028

10.3.3 Results overview of LTE

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 2 (BW: 20MHz)	1RB	Front	18700	1860.0	1.830	0.633	100	1.00	23.00	23.50	0.710	1.122
		Back	18700	1860.0	-2.510	0.594	100	1.00	23.00	23.50	0.666	1.122
		Left	18700	1860.0	-3.740	0.002	100	1.00	23.00	23.50	0.002	1.122
		Right	18700	1860.0	1.200	0.224	100	1.00	23.00	23.50	0.251	1.122
		Top	18700	1860.0	-0.510	0.385	100	1.00	23.00	23.50	0.432	1.122
		Bottom	18700	1860.0	-2.270	0.002	100	1.00	23.00	23.50	0.002	1.122
	50%RB	Front	18700	1860.0	4.250	0.615	100	1.00	23.00	23.50	0.690	1.122
		Back	18700	1860.0	-3.720	0.581	100	1.00	23.00	23.50	0.652	1.122
		Left	18700	1860.0	-0.820	0.003	100	1.00	23.00	23.50	0.003	1.122
		Right	18700	1860.0	-2.730	0.201	100	1.00	23.00	23.50	0.226	1.122
		Top	18700	1860.0	0.660	0.359	100	1.00	23.00	23.50	0.403	1.122
		Bottom	18700	1860.0	-3.310	0.004	100	1.00	23.00	23.50	0.004	1.122

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 4 (BW: 20MHz)	1RB	Front	20325	1747.5	-0.950	0.841	100	1.00	23.06	23.50	0.931	1.107
		Back	20325	1747.5	-1.530	0.799	100	1.00	23.06	23.50	0.884	1.107
		Left	20325	1747.5	-3.470	0.013	100	1.00	23.06	23.50	0.014	1.107
		Right	20325	1747.5	-4.850	0.022	100	1.00	23.06	23.50	0.024	1.107
		Top	20325	1747.5	-1.370	0.037	100	1.00	23.06	23.50	0.041	1.107
		Bottom	20325	1747.5	2.350	0.007	100	1.00	23.06	23.50	0.008	1.107
	50%RB	Front	20325	1747.5	1.900	0.825	100	1.00	23.06	23.50	0.913	1.107
		Back	20325	1747.5	-0.800	0.747	100	1.00	23.06	23.50	0.827	1.107
		Left	20325	1747.5	-0.120	0.032	100	1.00	23.06	23.50	0.035	1.107
		Right	20325	1747.5	3.180	0.048	100	1.00	23.06	23.50	0.053	1.107
		Top	20325	1747.5	2.440	0.056	100	1.00	23.06	23.50	0.062	1.107
		Bottom	20325	1747.5	2.360	0.006	100	1.00	23.06	23.50	0.007	1.107

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 5 (BW: 10MHz)	1RB	Front	20450	829.0	-1.590	0.577	100	1.00	23.04	23.50	0.641	1.112
		Back	20450	829.0	1.670	0.670	100	1.00	23.04	23.50	0.745	1.112
		Left	20450	829.0	-1.950	0.012	100	1.00	23.04	23.50	0.013	1.112
		Right	20450	829.0	1.660	0.021	100	1.00	23.04	23.50	0.023	1.112
		Top	20450	829.0	-3.210	0.031	100	1.00	23.04	23.50	0.034	1.112
		Bottom	20450	829.0	4.180	0.005	100	1.00	23.04	23.50	0.006	1.112
	50%RB	Front	20450	829.0	0.270	0.565	100	1.00	23.04	23.50	0.628	1.112
		Back	20450	829.0	-1.310	0.658	100	1.00	23.04	23.50	0.732	1.112
		Left	20450	829.0	1.580	0.009	100	1.00	23.04	23.50	0.010	1.112
		Right	20450	829.0	-4.650	0.017	100	1.00	23.04	23.50	0.019	1.112
		Top	20450	829.0	2.760	0.028	100	1.00	23.04	23.50	0.031	1.112
		Bottom	20450	829.0	-1.750	0.003	100	1.00	23.04	23.50	0.003	1.112

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 7 (BW: 20MHz)	1RB	Front	21100	2535.5	0.520	0.480	100	1.00	22.32	22.50	0.500	1.042
		Back	21100	2535.5	-2.220	0.426	100	1.00	22.32	22.50	0.444	1.042
		Left	21100	2535.5	-3.560	0.006	100	1.00	22.32	22.50	0.006	1.042
		Right	21100	2535.5	-3.130	0.015	100	1.00	22.32	22.50	0.016	1.042
		Top	21100	2535.5	3.000	0.020	100	1.00	22.32	22.50	0.021	1.042
		Bottom	21100	2535.5	2.660	0.002	100	1.00	22.32	22.50	0.002	1.042
	50%RB	Front	21100	2535.5	-3.260	0.464	100	1.00	22.32	22.50	0.484	1.042
		Back	21100	2535.5	3.860	0.443	100	1.00	22.32	22.50	0.462	1.042
		Left	21100	2535.5	-4.920	0.010	100	1.00	22.32	22.50	0.010	1.042
		Right	21100	2535.5	0.200	0.018	100	1.00	22.32	22.50	0.019	1.042
		Top	21100	2535.5	4.650	0.032	100	1.00	22.32	22.50	0.033	1.042
		Bottom	21100	2535.5	-0.260	0.005	100	1.00	22.32	22.50	0.005	1.042

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 12 (BW: 10MHz)	1RB	Front	23095	707.5	2.010	0.740	100	1.00	22.97	23.00	0.745	1.007
		Back	23095	707.5	2.240	0.806	100	1.00	22.97	23.00	0.812	1.007
		Left	23095	707.5	-1.400	0.025	100	1.00	22.97	23.00	0.025	1.007
		Right	23095	707.5	2.360	0.029	100	1.00	22.97	23.00	0.029	1.007
		Top	23095	707.5	1.810	0.045	100	1.00	22.97	23.00	0.045	1.007
		Bottom	23095	707.5	-3.460	0.009	100	1.00	22.97	23.00	0.009	1.007
	50%RB	Front	23095	707.5	-4.690	0.733	100	1.00	22.97	23.00	0.738	1.007
		Back	23095	707.5	3.240	0.787	100	1.00	22.97	23.00	0.792	1.007
		Left	23095	707.5	-3.480	0.020	100	1.00	22.97	23.00	0.020	1.007
		Right	23095	707.5	-2.490	0.025	100	1.00	22.97	23.00	0.025	1.007
		Top	23095	707.5	-3.670	0.042	100	1.00	22.97	23.00	0.042	1.007
		Bottom	23095	707.5	4.450	0.008	100	1.00	22.97	23.00	0.008	1.007

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 13 (BW: 5MHz)	1RB	Front	23230	728.0	-0.050	0.505	100	1.00	22.81	23.00	0.528	1.045
		Back	23230	728.0	0.440	0.731	100	1.00	22.81	23.00	0.764	1.045
		Left	23230	728.0	-1.820	0.021	100	1.00	22.81	23.00	0.022	1.045
		Right	23230	728.0	0.040	0.024	100	1.00	22.81	23.00	0.025	1.045
		Top	23230	728.0	-2.550	0.038	100	1.00	22.81	23.00	0.040	1.045
		Bottom	23230	728.0	-0.910	0.006	100	1.00	22.81	23.00	0.006	1.045
	50%RB	Front	23230	728.0	0.780	0.517	100	1.00	22.81	23.00	0.540	1.045
		Back	23230	728.0	-2.610	0.705	100	1.00	22.81	23.00	0.737	1.045
		Left	23230	728.0	1.230	0.018	100	1.00	22.81	23.00	0.019	1.045
		Right	23230	728.0	-4.920	0.015	100	1.00	22.81	23.00	0.016	1.045
		Top	23230	728.0	2.710	0.027	100	1.00	22.81	23.00	0.028	1.045
		Bottom	23230	728.0	0.770	0.003	100	1.00	22.81	23.00	0.003	1.045

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 17 (BW: 10MHz)	1RB	Front	23780	709.0	-0.720	0.678	100	1.00	22.82	23.00	0.707	1.042
		Back	23780	709.0	3.330	0.797	100	1.00	22.82	23.00	0.831	1.042
		Left	23780	709.0	-3.300	0.024	100	1.00	22.82	23.00	0.025	1.042
		Right	23780	709.0	-0.130	0.027	100	1.00	22.82	23.00	0.028	1.042
		Top	23780	709.0	0.650	0.031	100	1.00	22.82	23.00	0.032	1.042
		Bottom	23780	709.0	-3.080	0.016	100	1.00	22.82	23.00	0.017	1.042
	50%RB	Front	23780	709.0	-4.180	0.666	100	1.00	22.82	23.00	0.694	1.042
		Back	23780	709.0	-2.180	0.782	100	1.00	22.82	23.00	0.815	1.042
		Left	23780	709.0	1.510	0.020	100	1.00	22.82	23.00	0.021	1.042
		Right	23780	709.0	0.960	0.024	100	1.00	22.82	23.00	0.025	1.042
		Top	23780	709.0	3.710	0.027	100	1.00	22.82	23.00	0.028	1.042
		Bottom	23780	709.0	-1.200	0.014	100	1.00	22.82	23.00	0.015	1.042

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 25 (BW: 20MHz)	1RB	Front	26140	1860.0	0.790	0.684	100	1.00	23.21	23.50	0.731	1.069
		Back	26140	1860.0	-0.790	0.660	100	1.00	23.21	23.50	0.706	1.069
		Left	26140	1860.0	3.910	0.021	100	1.00	23.21	23.50	0.022	1.069
		Right	26140	1860.0	-1.860	0.024	100	1.00	23.21	23.50	0.026	1.069
		Top	26140	1860.0	2.120	0.031	100	1.00	23.21	23.50	0.033	1.069
		Bottom	26140	1860.0	-0.380	0.012	100	1.00	23.21	23.50	0.013	1.069
	50%RB	Front	26140	1860.0	-0.430	0.677	100	1.00	23.21	23.50	0.724	1.069
		Back	26140	1860.0	-2.670	0.651	100	1.00	23.21	23.50	0.696	1.069
		Left	26140	1860.0	-4.920	0.020	100	1.00	23.21	23.50	0.021	1.069
		Right	26140	1860.0	-0.220	0.022	100	1.00	23.21	23.50	0.024	1.069
		Top	26140	1860.0	-2.340	0.030	100	1.00	23.21	23.50	0.032	1.069
		Bottom	26140	1860.0	1.250	0.010	100	1.00	23.21	23.50	0.011	1.069

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 26 (814-824) (BW: 10MHz)	1RB	Front	26740	819.0	0.180	0.587	100	1.00	23.15	23.50	0.636	1.084
		Back	26740	819.0	-0.280	0.660	100	1.00	23.15	23.50	0.715	1.084
		Left	26740	819.0	-3.190	0.024	100	1.00	23.15	23.50	0.026	1.084
		Right	26740	819.0	2.360	0.031	100	1.00	23.15	23.50	0.034	1.084
		Top	26740	819.0	4.540	0.042	100	1.00	23.15	23.50	0.046	1.084
		Bottom	26740	819.0	4.610	0.018	100	1.00	23.15	23.50	0.020	1.084
	50%RB	Front	26740	819.0	-4.400	0.573	100	1.00	23.15	23.50	0.621	1.084
		Back	26740	819.0	1.360	0.651	100	1.00	23.15	23.50	0.706	1.084
		Left	26740	819.0	-3.100	0.018	100	1.00	23.15	23.50	0.020	1.084
		Right	26740	819.0	4.590	0.027	100	1.00	23.15	23.50	0.029	1.084
		Top	26740	819.0	3.070	0.038	100	1.00	23.15	23.50	0.041	1.084
		Bottom	26740	819.0	4.650	0.015	100	1.00	23.15	23.50	0.016	1.084

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 26 (824-849) (BW: 15MHz)	1RB	Front	26915	836.5	2.300	0.639	100	1.00	23.27	23.50	0.674	1.054
		Back	26915	836.5	0.230	0.720	100	1.00	23.27	23.50	0.759	1.054
		Left	26915	836.5	-3.080	0.435	100	1.00	23.27	23.50	0.459	1.054
		Right	26915	836.5	4.860	0.443	100	1.00	23.27	23.50	0.467	1.054
		Top	26915	836.5	4.860	0.370	100	1.00	23.27	23.50	0.390	1.054
		Bottom	26915	836.5	2.520	0.378	100	1.00	23.27	23.50	0.399	1.054
	50%RB	Front	26915	836.5	-3.470	0.631	100	1.00	23.27	23.50	0.665	1.054
		Back	26915	836.5	4.260	0.712	100	1.00	23.27	23.50	0.751	1.054
		Left	26915	836.5	0.990	0.424	100	1.00	23.27	23.50	0.447	1.054
		Right	26915	836.5	4.770	0.433	100	1.00	23.27	23.50	0.457	1.054
		Top	26915	836.5	3.590	0.350	100	1.00	23.27	23.50	0.369	1.054
		Bottom	26915	836.5	-2.100	0.366	100	1.00	23.27	23.50	0.386	1.054

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 38 (BW: 20MHz)	1RB	Front	37825	2577.5	4.880	0.612	100	1.00	22.34	22.50	0.635	1.038
		Back	37825	2577.5	-3.400	0.697	100	1.00	22.34	22.50	0.723	1.038
		Left	37825	2577.5	2.880	0.019	100	1.00	22.34	22.50	0.020	1.038
		Right	37825	2577.5	-1.040	0.021	100	1.00	22.34	22.50	0.022	1.038
		Top	37825	2577.5	-0.270	0.034	100	1.00	22.34	22.50	0.035	1.038
		Bottom	37825	2577.5	2.520	0.004	100	1.00	22.34	22.50	0.004	1.038
	50%RB	Front	37825	2577.5	1.700	0.601	100	1.00	22.34	22.50	0.624	1.038
		Back	37825	2577.5	-1.830	0.686	100	1.00	22.34	22.50	0.712	1.038
		Left	37825	2577.5	1.530	0.017	100	1.00	22.34	22.50	0.018	1.038
		Right	37825	2577.5	4.350	0.022	100	1.00	22.34	22.50	0.023	1.038
Band 41 (BW: 20MHz)	1RB	Top	37825	2577.5	-2.200	0.030	100	1.00	22.34	22.50	0.031	1.038
		Bottom	37825	2577.5	-1.820	0.006	100	1.00	22.34	22.50	0.006	1.038
	50%RB	Front	37825	2577.5	1.700	0.601	100	1.00	22.34	22.50	0.624	1.038
		Back	37825	2577.5	-1.830	0.686	100	1.00	22.34	22.50	0.712	1.038
		Left	37825	2577.5	1.530	0.017	100	1.00	22.34	22.50	0.018	1.038
		Right	37825	2577.5	4.350	0.022	100	1.00	22.34	22.50	0.023	1.038

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	1RB	Front	40620	2593.0	-2.010	0.685	100	1.00	22.28	22.50	0.721	1.052
		Back	40620	2593.0	-0.560	0.714	100	1.00	22.28	22.50	0.751	1.052
		Left	40620	2593.0	-2.960	0.021	100	1.00	22.28	22.50	0.022	1.052
		Right	40620	2593.0	3.020	0.025	100	1.00	22.28	22.50	0.026	1.052
		Top	40620	2593.0	3.060	0.036	100	1.00	22.28	22.50	0.038	1.052
		Bottom	40620	2593.0	0.960	0.008	100	1.00	22.28	22.50	0.008	1.052
	50%RB	Back	39750	2506.0	1.250	0.676	100	1.00	22.28	22.50	0.711	1.052
		Back	41490	2680.0	-0.400	0.511	100	1.00	22.28	22.50	0.538	1.052
		Back	40185	2549.0	0.740	0.534	100	1.00	22.28	22.50	0.562	1.052
		Back	41055	2635.5	2.650	0.487	100	1.00	22.28	22.50	0.512	1.052
Band 41 (BW: 20MHz)	1RB	Front	40620	2593.0	-4.610	0.673	100	1.00	22.28	22.50	0.708	1.052
		Back	40620	2593.0	2.150	0.702	100	1.00	22.28	22.50	0.738	1.052
		Left	40620	2593.0	-4.120	0.027	100	1.00	22.28	22.50	0.028	1.052
		Right	40620	2593.0	-0.890	0.030	100	1.00	22.28	22.50	0.032	1.052
		Top	40620	2593.0	2.930	0.042	100	1.00	22.28	22.50	0.044	1.052
		Bottom	40620	2593.0	1.530	0.006	100	1.00	22.28	22.50	0.006	1.052

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 66 (BW: 20MHz)	1RB	Front	132622	1775.0	-0.280	0.472	100	1.00	23.22	23.50	0.503	1.067
		Back	132622	1775.0	-0.670	0.397	100	1.00	23.22	23.50	0.423	1.067
		Left	132622	1775.0	-3.260	0.003	100	1.00	23.22	23.50	0.003	1.067
		Right	132622	1775.0	0.080	0.013	100	1.00	23.22	23.50	0.014	1.067
		Top	132622	1775.0	-3.560	0.018	100	1.00	23.22	23.50	0.019	1.067
		Bottom	132622	1775.0	-4.310	0.002	100	1.00	23.22	23.50	0.002	1.067
	50%RB	Front	132622	1775.0	2.570	0.466	100	1.00	23.22	23.50	0.497	1.067
		Back	132622	1775.0	-4.530	0.384	100	1.00	23.22	23.50	0.410	1.067
		Left	132622	1775.0	3.450	0.005	100	1.00	23.22	23.50	0.005	1.067
		Right	132622	1775.0	2.890	0.011	100	1.00	23.22	23.50	0.012	1.067
		Top	132622	1775.0	1.150	0.021	100	1.00	23.22	23.50	0.022	1.067
		Bottom	132622	1775.0	1.040	0.003	100	1.00	23.22	23.50	0.003	1.067

10.3.4 Results overview of Wifi

Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
2.4g (2.4~2.4835) 802.11b	Front	6	2437	-0.250	0.344	100	1.00	22.66	23.00	0.372	1.081
	Back	6	2437	4.610	0.597	100	1.00	22.66	23.00	0.646	1.081
	Left	6	2437	-1.740	0.028	100	1.00	22.66	23.00	0.030	1.081
	Right	6	2437	1.130	0.005	100	1.00	22.66	23.00	0.005	1.081
	Top	6	2437	4.990	0.043	100	1.00	22.66	23.00	0.047	1.081
	Bottom	6	2437	-3.810	0.007	100	1.00	22.66	23.00	0.008	1.081

Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band1 5180-5240	Front	46	5230	0.460	0.419	100	1.00	16.62	17.00	0.457	1.091
	Back	46	5230	-2.690	0.558	100	1.00	16.62	17.00	0.609	1.091
	Left	46	5230	0.940	0.206	100	1.00	16.62	17.00	0.225	1.091
	Right	46	5230	0.910	0.005	100	1.00	16.62	17.00	0.005	1.091
	Top	46	5230	-3.550	0.218	100	1.00	16.62	17.00	0.238	1.091
	Bottom	46	5230	0.660	0.009	100	1.00	16.62	17.00	0.010	1.091

Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band2 5260-5320	Front	62	5310	3.270	0.502	100	1.00	17.00	17.50	0.563	1.122
	Back	62	5310	3.760	0.537	100	1.00	17.00	17.50	0.603	1.122
	Left	62	5310	0.830	0.197	100	1.00	17.00	17.50	0.221	1.122
	Right	62	5310	-3.960	0.005	100	1.00	17.00	17.50	0.006	1.122
	Top	62	5310	-3.670	0.182	100	1.00	17.00	17.50	0.204	1.122
	Bottom	62	5310	0.890	0.009	100	1.00	17.00	17.50	0.010	1.122

Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band3 5500-5700	Front	134	5670	-0.250	0.516	100	1.00	16.73	17.00	0.549	1.064
	Back	134	5670	-2.710	0.558	100	1.00	16.73	17.00	0.594	1.064
	Left	134	5670	4.470	0.187	100	1.00	16.73	17.00	0.199	1.064
	Right	134	5670	-4.030	0.006	100	1.00	16.73	17.00	0.006	1.064
	Top	134	5670	-1.910	0.190	100	1.00	16.73	17.00	0.202	1.064
	Bottom	134	5670	0.630	0.010	100	1.00	16.73	17.00	0.011	1.064

Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band4 5745-5825	Front	159	5795	-0.450	0.514	100	1.00	17.42	17.50	0.524	1.019
	Back	159	5795	1.050	0.608	100	1.00	17.42	17.50	0.619	1.019
	Left	159	5795	1.210	0.219	100	1.00	17.42	17.50	0.223	1.019
	Right	159	5795	1.760	0.007	100	1.00	17.42	17.50	0.007	1.019
	Top	159	5795	2.070	0.228	100	1.00	17.42	17.50	0.232	1.019
	Bottom	159	5795	4.570	0.011	100	1.00	17.42	17.50	0.011	1.019

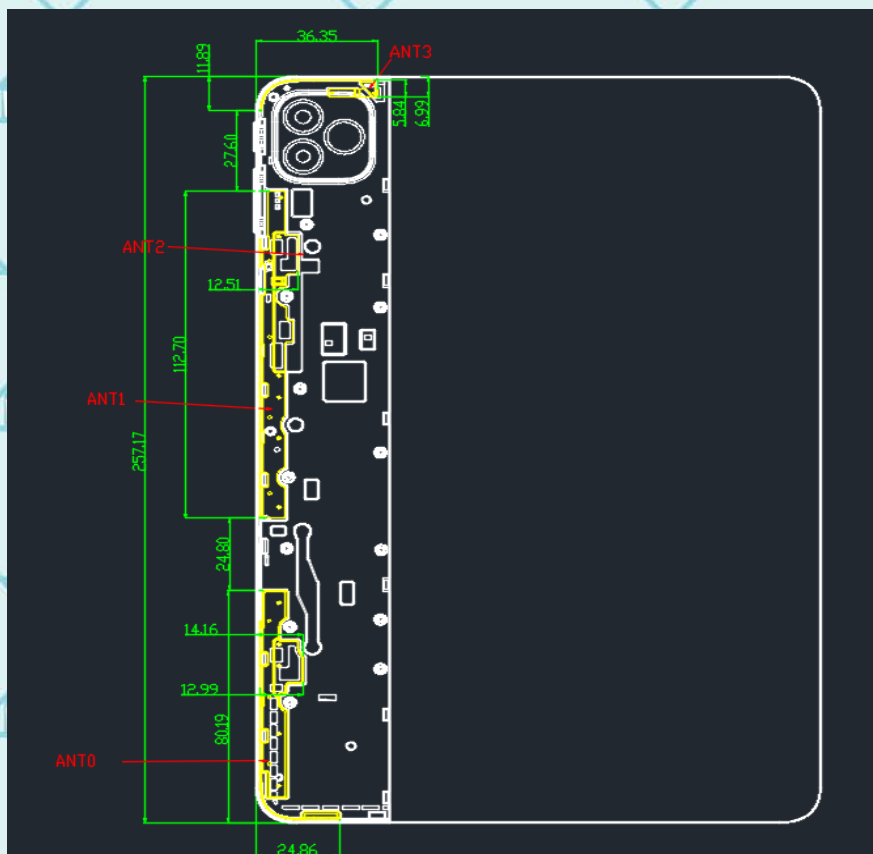
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Bluetooth	Front	39	2441	0.170	0.108	100	1.00	14.61	15.00	0.118	1.094
	Back	39	2441	0.360	0.133	100	1.00	14.61	15.00	0.145	1.094
	Left	39	2441	2.120	0.012	100	1.00	14.61	15.00	0.013	1.094
	Right	39	2441	-0.080	0.020	100	1.00	14.61	15.00	0.022	1.094
	Top	39	2441	-3.420	0.031	100	1.00	14.61	15.00	0.034	1.094
	Bottom	39	2441	-0.810	0.007	100	1.00	14.61	15.00	0.008	1.094

Note:

- 1.The maximum SAR Value of each test band is marked bold.
- 2.SAR plot is provided only for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
- 3.Per KDB 447498 D01 v06, for each exposure position, if the highest output power channel Reported SAR $\leq 0.8\text{W/kg}$, other channels SAR testing is not necessary.
- 4.Per KDB 447498 D01 v06, head/body-worn use is evaluated with the device positioned at 0mm/10 mm from a head/flat phantom respectively filled with head tissue-equivalent medium.
- 5.Per KDB Publication 941225 D06 where SAR test considerations for handsets ($L \times W \geq 9\text{ cm} \times 5\text{ cm}$) are based on a composite test separation distance of 10 mm from the front, back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.
- 6.Per KDB 447498 D01 v06, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor= $10^{[(\text{tune-up limit power(dBm)} - \text{Ave.power power (dBm)})/10]}$, where tune-up limit is the maximum rated power among all production units.
- 7.Reported SAR(W/kg)=Measured SAR (W/kg)*Scaling Factor.

11 Multiple Transmitter Information

The SAR measurement positions of each side are as below:



< Rear Side >

Mode	Front side	Rear side	Left side	Right side	Top side	Bottom side
2G/3G/4G Antenna	Yes	Yes	Yes	Yes	Yes	Yes
Wi-Fi/BT Antenna	Yes	Yes	Yes	Yes	Yes	Yes

Per KDB941225 D06V01r01, the DUT Dimension is bigger than 9 cm x 5 cm, so 10mm is chosen as the test separation distance for Hotspot mode. When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

11.1 Simultaneous Transmission Possibilities

The Simultaneous Transmission Possibilities are as below:

Simultaneous Transmission Possibilities			
Simultaneous Tx Combination	Configuration	Body	Hotspot
1	GSM/GPRS/UMTS/LTE +Wi-Fi	YES	YES
2	GSM/GPRS/UMTS/LTE +BT	NO	NO

Note: The device does not support simultaneous BT and Wi-Fi ,because the BT and Wi-Fi share the same antenna and can't transmit simultaneously.

11.2 SAR Summation Scenario

Hotspot(body-worn0mm)

Band	Test Position	Scaled SAR			BT SAR 1g(W/kg)	Σ SAR (W/kg)	Limit (W/kg)
		WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	Wi-Fi 5G(Band 4) 1g(W/kg)			
GSM850 (GPRS 4slots)	Front	0.826	0.372	0.524	0.118	1.198	1.6
	Back	0.690	0.646	0.619	0.145	1.336	
	Left	0.008	0.030	0.223	0.013	0.038	
	Right	0.163	0.005	0.007	0.022	0.168	
	Top	0.204	0.047	0.232	0.034	0.251	
	Bottom	0.006	0.008	0.011	0.008	0.014	
GSM1900 (GPRS 4slots)	Front	0.900	0.372	0.524	0.118	1.272	
	Back	0.745	0.646	0.619	0.145	1.391	
	Left	0.006	0.030	0.223	0.013	0.036	
	Right	0.221	0.005	0.007	0.022	0.226	
	Top	0.230	0.047	0.232	0.034	0.277	
	Bottom	0.007	0.008	0.011	0.008	0.015	
WCDMA Band 2	Front	0.679	0.372	0.524	0.118	1.051	
	Back	0.658	0.646	0.619	0.145	1.304	
	Left	0.003	0.030	0.223	0.013	0.033	
	Right	0.014	0.005	0.007	0.022	0.019	
	Top	0.019	0.047	0.232	0.034	0.066	
	Bottom	0.002	0.008	0.011	0.008	0.010	
WCDMA Band 4	Front	0.786	0.372	0.524	0.118	1.158	
	Back	0.719	0.646	0.619	0.145	1.365	
	Left	0.009	0.030	0.223	0.013	0.039	
	Right	0.017	0.005	0.007	0.022	0.022	
	Top	0.035	0.047	0.232	0.034	0.082	
	Bottom	0.007	0.008	0.011	0.008	0.015	
WCDMA Band 5	Front	0.742	0.372	0.524	0.118	1.114	
	Back	0.703	0.646	0.619	0.145	1.349	
	Left	0.086	0.030	0.223	0.013	0.116	
	Right	0.046	0.005	0.007	0.022	0.051	
	Top	0.031	0.047	0.232	0.034	0.078	
	Bottom	0.023	0.008	0.011	0.008	0.031	

Band	Test Position	RB allocation	Scaled SAR			BT SAR 1g(W/kg)	Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	Wi-Fi 5G(Band 4) 1g(W/kg)			
LTE Band 2	Front	1RB	0.710	0.372	0.524	0.118	1.082	1.6
	Back		0.666	0.646	0.619	0.145	1.312	
	Left		0.002	0.030	0.223	0.013	0.032	
	Right		0.251	0.005	0.007	0.022	0.256	
	Top		0.432	0.047	0.232	0.034	0.479	
	Bottom		0.002	0.008	0.011	0.008	0.010	
	Front	50%RB	0.690	0.372	0.524	0.118	1.062	
	Back		0.652	0.646	0.619	0.145	1.298	
	Left		0.003	0.030	0.223	0.013	0.033	
	Right		0.226	0.005	0.007	0.022	0.231	
	Top		0.403	0.047	0.232	0.034	0.450	
	Bottom		0.004	0.008	0.011	0.008	0.012	
LTE Band 4	Front	1RB	0.931	0.372	0.524	0.118	1.303	
	Back		0.884	0.646	0.619	0.145	1.530	
	Left		0.014	0.030	0.223	0.013	0.044	
	Right		0.024	0.005	0.007	0.022	0.029	
	Top		0.041	0.047	0.232	0.034	0.088	
	Bottom		0.008	0.008	0.011	0.008	0.016	
	Front	50%RB	0.913	0.372	0.524	0.118	1.285	
	Back		0.827	0.646	0.619	0.145	1.473	
	Left		0.035	0.030	0.223	0.013	0.065	
	Right		0.053	0.005	0.007	0.022	0.058	
	Top		0.062	0.047	0.232	0.034	0.109	
	Bottom		0.007	0.008	0.011	0.008	0.015	
LTE Band 5	Front	1RB	0.641	0.372	0.524	0.118	1.013	
	Back		0.745	0.646	0.619	0.145	1.391	
	Left		0.013	0.030	0.223	0.013	0.043	
	Right		0.023	0.005	0.007	0.022	0.028	
	Top		0.034	0.047	0.232	0.034	0.081	
	Bottom		0.006	0.008	0.011	0.008	0.014	
	Front	50%RB	0.628	0.372	0.524	0.118	1.000	
	Back		0.732	0.646	0.619	0.145	1.378	
	Left		0.010	0.030	0.223	0.013	0.040	
	Right		0.019	0.005	0.007	0.022	0.024	
	Top		0.031	0.047	0.232	0.034	0.078	
	Bottom		0.003	0.008	0.011	0.008	0.011	
LTE Band 7	Front	1RB	0.500	0.372	0.524	0.118	0.872	
	Back		0.444	0.646	0.619	0.145	1.090	
	Left		0.006	0.030	0.223	0.013	0.036	
	Right		0.016	0.005	0.007	0.022	0.021	
	Top		0.021	0.047	0.232	0.034	0.068	
	Bottom		0.002	0.008	0.011	0.008	0.010	
	Front	50%RB	0.484	0.372	0.524	0.118	0.856	
	Back		0.462	0.646	0.619	0.145	1.108	
	Left		0.010	0.030	0.223	0.013	0.040	
	Right		0.019	0.005	0.007	0.022	0.024	
	Top		0.033	0.047	0.232	0.034	0.080	
	Bottom		0.005	0.008	0.011	0.008	0.013	

Band	Test Position	RB allocation	Scaled SAR			BT SAR 1g(W/kg)	Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	Wi-Fi 5G(Band 4) 1g(W/kg)			
LTE Band 12	Front	1RB	0.745	0.372	0.524	0.118	1.117	1.6
	Back		0.812	0.646	0.619	0.145	1.458	
	Left		0.025	0.030	0.223	0.013	0.055	
	Right		0.029	0.005	0.007	0.022	0.034	
	Top		0.045	0.047	0.232	0.034	0.092	
	Bottom		0.009	0.008	0.011	0.008	0.017	
	Front	50%RB	0.738	0.372	0.524	0.118	1.110	
	Back		0.792	0.646	0.619	0.145	1.438	
	Left		0.020	0.030	0.223	0.013	0.050	
	Right		0.025	0.005	0.007	0.022	0.030	
	Top		0.042	0.047	0.232	0.034	0.089	
	Bottom		0.008	0.008	0.011	0.008	0.016	
LTE Band 13	Front	1RB	0.528	0.372	0.524	0.118	0.900	
	Back		0.764	0.646	0.619	0.145	1.410	
	Left		0.022	0.030	0.223	0.013	0.052	
	Right		0.025	0.005	0.007	0.022	0.030	
	Top		0.040	0.047	0.232	0.034	0.087	
	Bottom		0.006	0.008	0.011	0.008	0.014	
	Front	1RB	0.540	0.372	0.524	0.118	0.912	
	Back		0.737	0.646	0.619	0.145	1.383	
	Left		0.019	0.030	0.223	0.013	0.049	
	Right		0.016	0.005	0.007	0.022	0.021	
	Top		0.028	0.047	0.232	0.034	0.075	
	Bottom		0.003	0.008	0.011	0.008	0.011	
LTE Band 17	Front	1RB	0.707	0.372	0.524	0.118	1.079	
	Back		0.831	0.646	0.619	0.145	1.477	
	Left		0.025	0.030	0.223	0.013	0.055	
	Right		0.028	0.005	0.007	0.022	0.033	
	Top		0.032	0.047	0.232	0.034	0.079	
	Bottom		0.017	0.008	0.011	0.008	0.025	
	Front	50%RB	0.694	0.372	0.524	0.118	1.066	
	Back		0.815	0.646	0.619	0.145	1.461	
	Left		0.021	0.030	0.223	0.013	0.051	
	Right		0.025	0.005	0.007	0.022	0.030	
	Top		0.028	0.047	0.232	0.034	0.075	
	Bottom		0.015	0.008	0.011	0.008	0.023	
LTE Band 25	Front	1RB	0.731	0.372	0.524	0.118	1.103	
	Back		0.706	0.646	0.619	0.145	1.352	
	Left		0.022	0.030	0.223	0.013	0.052	
	Right		0.026	0.005	0.007	0.022	0.031	
	Top		0.033	0.047	0.232	0.034	0.080	
	Bottom		0.013	0.008	0.011	0.008	0.021	
	Front	50%RB	0.724	0.372	0.524	0.118	1.096	
	Back		0.696	0.646	0.619	0.145	1.342	
	Left		0.021	0.030	0.223	0.013	0.051	
	Right		0.024	0.005	0.007	0.022	0.029	
	Top		0.032	0.047	0.232	0.034	0.079	
	Bottom		0.011	0.008	0.011	0.008	0.019	

Band	Test Position	RB allocation	Scaled SAR			BT SAR 1g(W/kg)	Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	Wi-Fi 5G(Band 4) 1g(W/kg)			
LTE Band 26	Front	1RB	0.636	0.372	0.524	0.118	1.008	1.6
	Back		0.715	0.646	0.619	0.145	1.361	
	Left		0.026	0.030	0.223	0.013	0.056	
	Right		0.034	0.005	0.007	0.022	0.039	
	Top		0.046	0.047	0.232	0.034	0.093	
	Bottom		0.020	0.008	0.011	0.008	0.028	
	Front	50%RB	0.621	0.372	0.524	0.118	0.993	
	Back		0.706	0.646	0.619	0.145	1.352	
	Left		0.020	0.030	0.223	0.013	0.050	
	Right		0.029	0.005	0.007	0.022	0.034	
	Top		0.041	0.047	0.232	0.034	0.088	
LTE Band 26	Bottom	1RB	0.016	0.008	0.011	0.008	0.024	
	Front		0.674	0.372	0.524	0.118	1.046	
	Back		0.759	0.646	0.619	0.145	1.405	
	Left		0.459	0.030	0.223	0.013	0.489	
	Right		0.467	0.005	0.007	0.022	0.472	
	Top		0.390	0.047	0.232	0.034	0.437	
	Bottom		0.399	0.008	0.011	0.008	0.407	
	Front	50%RB	0.665	0.372	0.524	0.118	1.037	
	Back		0.751	0.646	0.619	0.145	1.397	
	Left		0.447	0.030	0.223	0.013	0.477	
LTE Band 38	Right		0.457	0.005	0.007	0.022	0.462	
	Top		0.369	0.047	0.232	0.034	0.416	
	Bottom		0.386	0.008	0.011	0.008	0.394	
	Front	1RB	0.635	0.372	0.524	0.118	1.007	
	Back		0.723	0.646	0.619	0.145	1.369	
	Left		0.020	0.030	0.223	0.013	0.050	
	Right		0.022	0.005	0.007	0.022	0.027	
	Top		0.035	0.047	0.232	0.034	0.082	
	Bottom		0.004	0.008	0.011	0.008	0.012	
	Front	50%RB	0.624	0.372	0.524	0.118	0.996	
LTE Band 41	Back		0.712	0.646	0.619	0.145	1.358	
	Left		0.018	0.030	0.223	0.013	0.048	
	Right		0.023	0.005	0.007	0.022	0.028	
	Top		0.031	0.047	0.232	0.034	0.078	
	Bottom		0.006	0.008	0.011	0.008	0.014	
	Front	1RB	0.721	0.372	0.524	0.118	1.093	
	Back		0.751	0.646	0.619	0.145	1.397	
	Left		0.022	0.030	0.223	0.013	0.052	
	Right		0.026	0.005	0.007	0.022	0.031	
	Top		0.038	0.047	0.232	0.034	0.085	
LTE Band 41	Bottom	1RB	0.008	0.008	0.011	0.008	0.016	
	Back		0.711	0.372	0.524	0.118	1.083	
	Back		0.538	0.646	0.619	0.145	1.184	
	Back		0.562	0.030	0.223	0.013	0.592	
	Back		0.512	0.005	0.007	0.022	0.517	
	Front	50%RB	0.708	0.047	0.232	0.034	0.755	
	Back		0.738	0.008	0.011	0.008	0.746	
	Left		0.028	0.372	0.524	0.118	0.400	
	Right		0.032	0.646	0.619	0.145	0.678	
	Top		0.044	0.030	0.223	0.013	0.074	
LTE Band 66	Bottom		0.006	0.005	0.007	0.022	0.011	
	Front	1RB	0.503	0.047	0.232	0.034	0.550	
	Back		0.423	0.008	0.011	0.008	0.431	
	Left		0.003	0.372	0.524	0.118	0.375	
	Right		0.014	0.646	0.619	0.145	0.660	
	Top		0.019	0.030	0.223	0.013	0.049	
	Bottom	50%RB	0.002	0.005	0.007	0.022	0.007	
	Front		0.497	0.047	0.232	0.034	0.544	
	Back		0.410	0.008	0.011	0.008	0.418	
	Left		0.005	0.372	0.524	0.118	0.377	
	Right		0.012	0.646	0.619	0.145	0.658	
LTE Band 66	Top	50%RB	0.022	0.030	0.223	0.013	0.052	
	Bottom		0.003	0.005	0.007	0.022	0.008	

12 Measurement uncertainty evaluation

12.1 Measurement uncertainty evaluation for SAR test

The following table includes the uncertainty table of the IEEE 1528. The values are determined by Satimo. The breakdown of the individual uncertainties is as follows:

Measurement Uncertainty evaluation for SAR test								
Uncertainty Component	Tol. (±%)	Prob. Dist.	Div.	C _i (1g)	C _i (10g)	1g U _i (±%)	10g U _i (±%)	V _i
measurement system								
Probe Calibration	5.8	N	1	1	1	5.8	5.8	∞
Axial Isotropy	3.5	R	$\sqrt{3}$	$(1-C_p)^{1/2}$	$(1-C_p)^{1/2}$	1.43	1.43	∞
Hemispherical Isotropy	5.9	R	$\sqrt{3}$	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	∞
Boundary Effect	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
system Detection Limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	3	N	1	1	1	3.00	3.00	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
RF Ambient Conditions-Noise	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF Ambient Conditions-Reflections	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe Positioner Mechanical Tolerance	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to Phantom Shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, interpolation and Integration Algorithms for Max.SAR Evaluation	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
Test sample Related								
Test Sample Positioning	2.6	N	1	1	1	2.60	2.60	11
Device Holder Uncertainty	3	N	1	1	1	3.00	3.00	7
Output Power Variation-SAR drift measurement	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	2	R	$\sqrt{3}$	1	1	1.15	1.15	∞

Phantom and Tissue Parameters								
Phantom Uncertainty (shape and thickness tolerances)	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviation (in permittivity and conductivity)	2	N	1	1	0.84	2.00	1.68	∞
Liquid conductivity (meas.)	2.5	N	1	0.64	0.43	1.60	1.08	5
Liquid conductivity (target.)	5	R	$\sqrt{3}$	0.64	0.43	1.85	1.24	5
Liquid Permittivity (meas.)	2.5	N	1	0.60	0.49	1.50	1.23	∞
Liquid Permittivity (target.)	5	R	$\sqrt{3}$	0.60	0.49	1.73	1.42	∞
Combined Standard Uncertainty		Rss				10.63	10.54	
Expanded Uncertainty{95% CONFIDENCE INTERVAL}		k				21.26	21.08	

12.2 Measurement uncertainty evaluation for system check

The following table includes the uncertainty table of the IEEE 1528. The values are determined by Satimo. The breakdown of the individual uncertainties is as follows:

Uncertainty For System Performance Check								
Uncertainty Component	Tol. (±%)	Prob. Dist.	Div.	C _i 1g	C _i 10g	1g U _i (±%)	10g U _i (±%)	V _i
measurement system								
Probe Calibration	5.8	N	1	1	1	5.80	5.80	∞
Axial Isotropy	3.5	R	$\sqrt{3}$	$(1-C_p)^{1/2}$	$(1-C_p)^{1/2}$	1.43	1.43	∞
Hemispherical Isotropy	5.9	R	$\sqrt{3}$	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	∞
Boundary Effect	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
system detection Limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	0	N	1	1	1	0.00	0.00	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
RF ambient Conditions - Noise	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient Conditions – Reflections	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioned Mechanical Tolerance	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to Phantom Shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
Dipole								
Deviation of experimental source from numerical source	4	N	1	1	1	4.00	4.00	∞
Input power and SAR drift measurement	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid Distance	2	R	$\sqrt{3}$	1	1	1.16	1.16	∞
Phantom and Tissue Parameters								
Phantom Uncertainty (shape and thickness tolerances)	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviation (in permittivity and conductivity)	2	N	1	1	0.84	2.00	1.68	∞
Liquid conductivity (meas.)	2.5	N	1	0.64	0.43	1.60	1.08	5
Liquid conductivity (target.)	5	R	$\sqrt{3}$	0.64	0.43	1.85	1.24	5
Liquid Permittivity (meas.)	2.5	N	1	0.60	0.49	1.50	1.23	∞
Liquid Permittivity (target.)	5	R	$\sqrt{3}$	0.60	0.49	1.73	1.41	∞
Combined Standard Uncertainty		Rss				10.28	9.98	
Expanded Uncertainty (95% Confidence interval)		k				20.57	19.95	

13 Test equipment and ancillaries used for tests

To simplify the identification of the test equipment and/or ancillaries which were used, the reporting of the relevant test cases only refer to the test item number as specified in the table below.

	Manufacturer	Device Type	Type(Model)	Serial number	calibration	
					Last Cal.	Due Date
☒	SATIMO	COMOSAR DOSIMETRIC E FIELD PROBE	SSE2	3523-EPGO-428	2024-06-18	2025-06-17
☒	SATIMO	COMOSAR 750 MHz REFERENCE DIPOLE	SID750	SN 48/16 DIP0G750-444	2023-06-25	2026-06-24
☒	SATIMO	COMOSAR 835 MHz REFERENCE DIPOLE	SID835	SN 14/13 DIP0G835-235	2023-06-25	2026-06-24
☒	SATIMO	COMOSAR 900 MHz REFERENCE DIPOLE	SID900	SN 14/13 DIP0G900-231	2023-06-25	2026-06-24
☒	SATIMO	COMOSAR 1800 MHz REFERENCE DIPOLE	SID1800	SN 14/13 DIP1G800-232	2023-06-25	2026-06-24
☐	SATIMO	COMOSAR 1900 MHz REFERENCE DIPOLE	SID1900	SN 14/13 DIP1G900-236	2023-06-25	2026-06-24
☒	SATIMO	COMOSAR 2000 MHz REFERENCE DIPOLE	SID2000	SN 14/13 DIP2G000-237	2023-06-25	2026-06-24
☒	SATIMO	COMOSAR 2450 MHz REFERENCE DIPOLE	SID2450	SN 14/13 DIP2G450-238	2023-06-25	2026-06-24
☒	SATIMO	COMOSAR 2600 MHz REFERENCE DIPOLE	SID2600	SN 28/14 DIP2G600-327	2023-06-25	2026-06-24
☒	SATIMO	Software	OPENSAR	N/A	N/A	N/A
☒	SATIMO	Phantom	COMOSAR IEEE SAM PHANTOM	SN 14/13 SAM99	N/A	N/A
☒	R & S	Universal Radio Communication Tester	CMU 200	119733	2024-10-21	2025-10-20
☒	R & S	Universal Radio Communication Tester	CMW500	144459	2024-10-21	2025-10-20
☒	R & S	UXM5G Wireless Test Platform	E7515B	MY60192341	2024-10-21	2025-10-20
☒	HP	Network Analyser	8753D	3410A08889	2024-10-21	2025-10-20
☒	HP	Signal Generator	E4421B	GB39340770	2024-10-28	2025-10-27
☒	Keithley	Multimeter	Keithley 2000	4014539	2024-10-28	2025-10-27
☒	SATIMO	Amplifier	Power Amplifier	MODU-023-A-0004	2024-10-21	2025-10-20
☒	Agilent	Power Meter	E4418B	GB43312909	2024-10-21	2025-10-20
☒	Agilent	Power Meter Sensor	E4412A	MY41500046	2024-10-21	2025-10-20

Annex A: System performance verification

(Please See the SAR Measurement Plots of annex A.)

Annex B: Measurement results

(Please See the SAR Measurement Plots of annex B.)

Annex C: Calibration reports

(Please See the Calibration reports of annex C.)

	Annex A: System Check
	Tested Model : X1101B
	Report Number: WSCT-ANAB-R&E241100056A-SAR

I. RESULTS

<u>TYPE</u>	<u>BAND</u>	<u>PARAMETERS</u>
Validation	CW835	<u>Measurement 1</u> : Validation Plane with Dipole device position on Middle Channel in CW mode
Validation	CW1800	<u>Measurement 2</u> : Validation Plane with Dipole device position on Middle Channel in CW mode
Validation	CW1900	<u>Measurement 3</u> : Validation Plane with Dipole device position on Middle Channel in CW mode
Validation	CW2450	<u>Measurement 4</u> : Validation Plane with Dipole device position on Middle Channel in CW mode
Validation	CW2600	<u>Measurement 5</u> : Validation Plane with Dipole device position on Middle Channel in CW mode

MEASUREMENT 1

BODY

Type: Validation measurement (Complete)

Date of measurement: 30/09/2024

Measurement duration: 11 minutes 54 seconds

A. Experimental conditions.

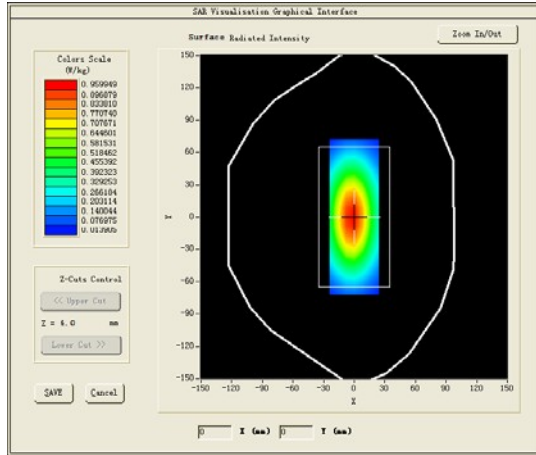
<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW835</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

B. SAR Measurement Results

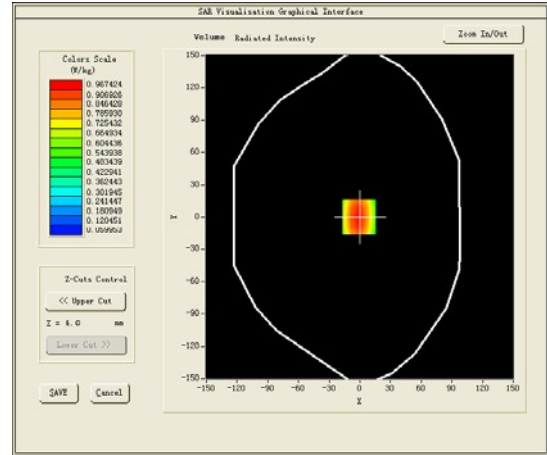
Middle Band SAR (Channel -1):

Frequency (MHz)	835.000000
Relative permittivity (real part)	53.927799
Relative permittivity (imaginary part)	21.281300
Conductivity (S/m)	0.987216
Variation (%)	0.120000

SURFACE SAR



VOLUME SAR

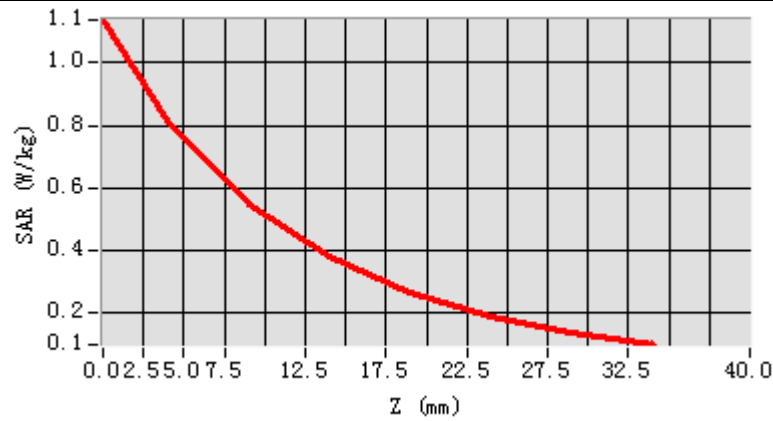


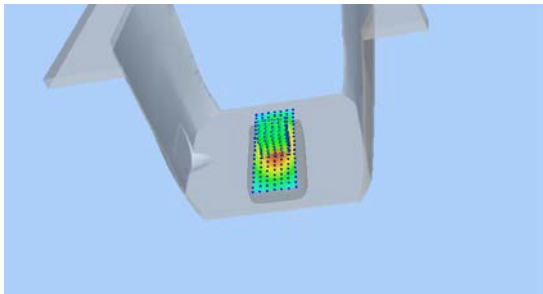
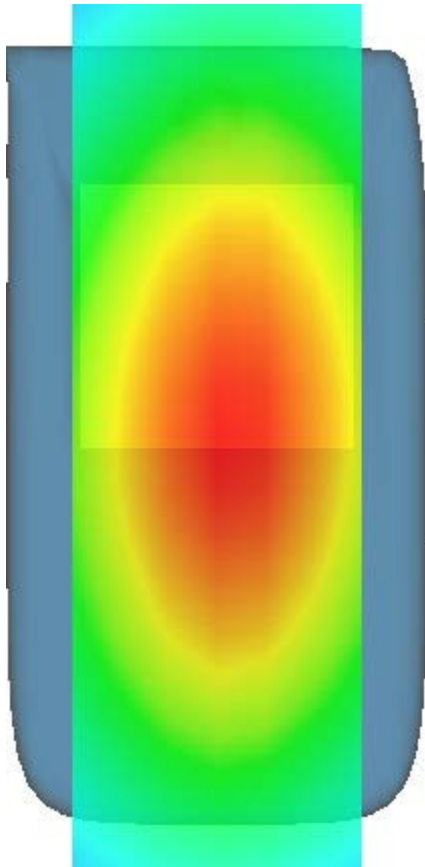
Maximum location: X=-1.00, Y=0.00

SAR Peak: 1.44 W/kg

SAR 10g (W/Kg)	0.644746
SAR 1g (W/Kg)	1.014583

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.1418	0.9674	0.6426	0.4358	0.2947	0.1989	0.1326



3D screen shot	Hot spot position
	

MEASUREMENT 2

BODY

Type: Validation measurement (Complete)

Date of measurement: 08/10/2024

Measurement duration: 11 minutes 22 seconds

A. Experimental conditions.

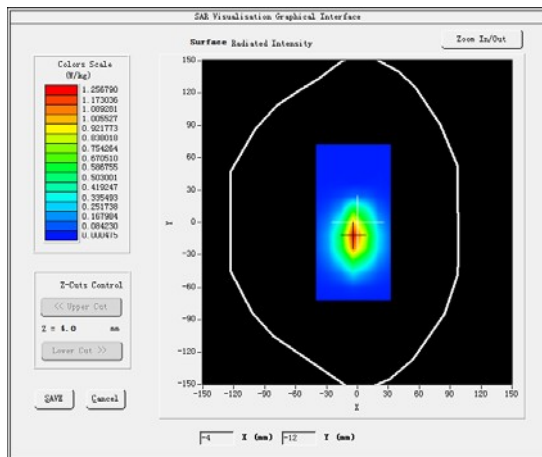
<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

B. SAR Measurement Results

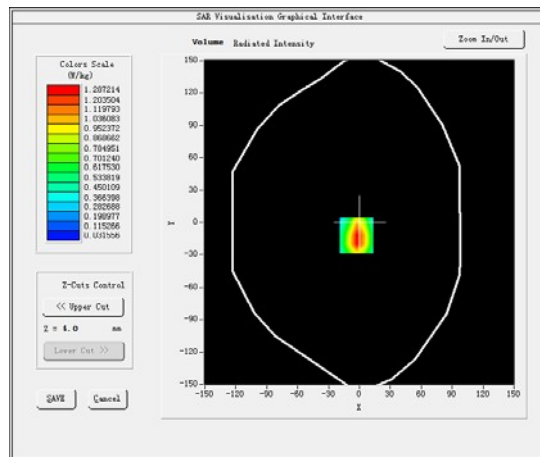
Middle Band SAR (Channel -1):

Frequency (MHz)	1800.000000
Relative permittivity (real part)	53.112099
Relative permittivity (imaginary part)	15.286700
Conductivity (S/m)	1.528670
Variation (%)	-0.410000

SURFACE SAR



VOLUME SAR

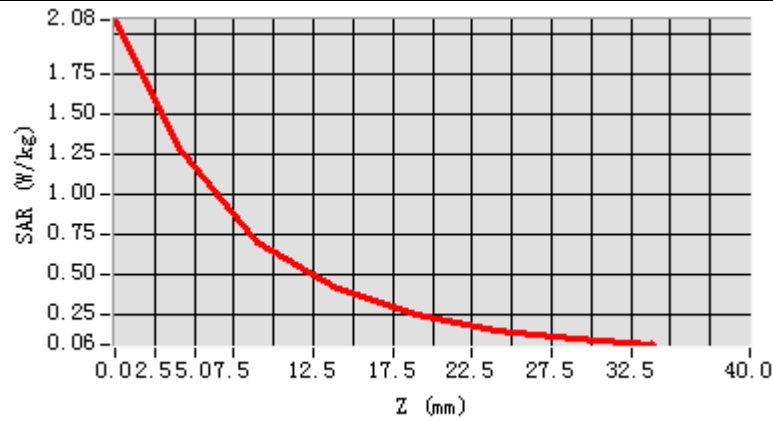


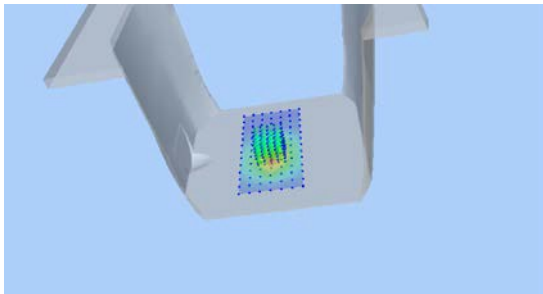
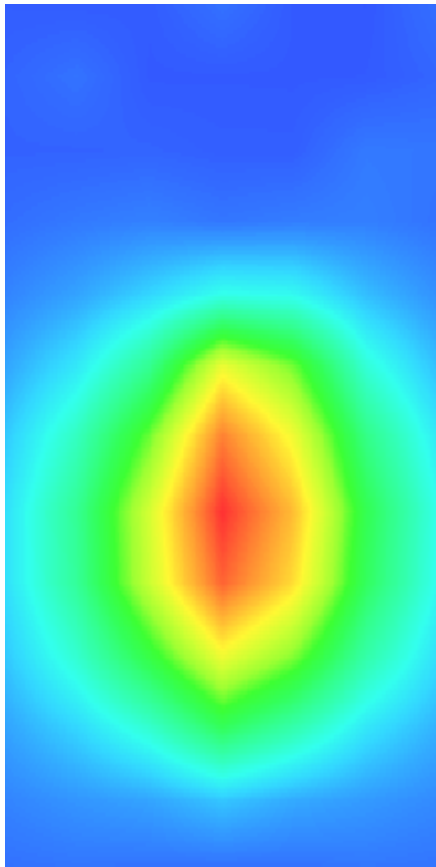
Maximum location: X=-0.00, Y=-0.00

SAR Peak: 7.72 W/kg

SAR 10g (W/Kg)	2.171888
SAR 1g (W/Kg)	4.156173

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	7.7941	4.9087	2.6873	1.5154	0.8724	0.5075	0.2958



3D screen shot	Hot spot position
	

MEASUREMENT 3

BODY

Type: Validation measurement (Complete)

Date of measurement: 11/10/2024

Measurement duration: 14 minutes 21 seconds

A. Experimental conditions.

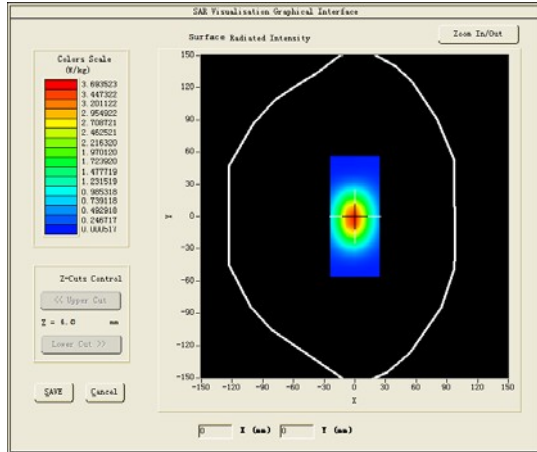
<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

B. SAR Measurement Results

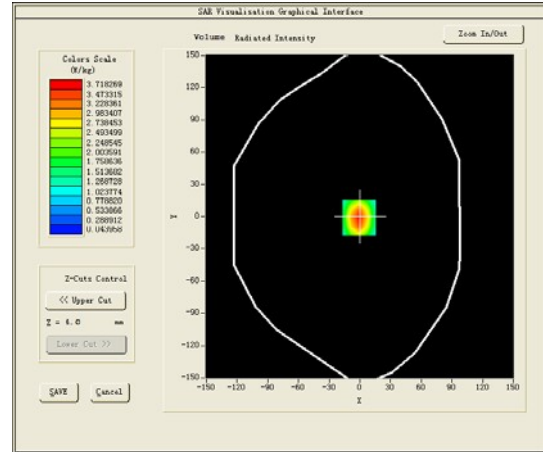
Middle Band SAR (Channel -1):

Frequency (MHz)	1900.000000
Relative permittivity (real part)	53.365299
Relative permittivity (imaginary part)	14.757600
Conductivity (S/m)	1.557747
Variation (%)	-0.450000

SURFACE SAR



VOLUME SAR

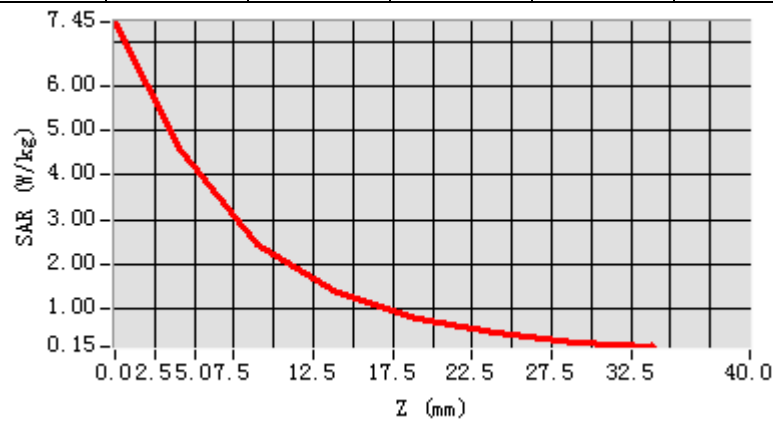


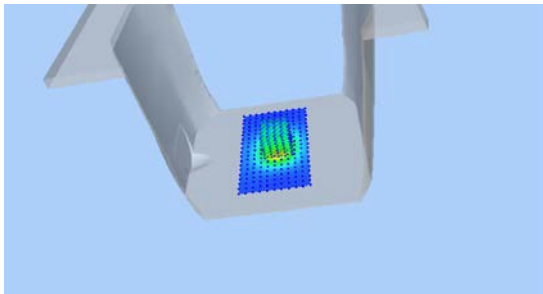
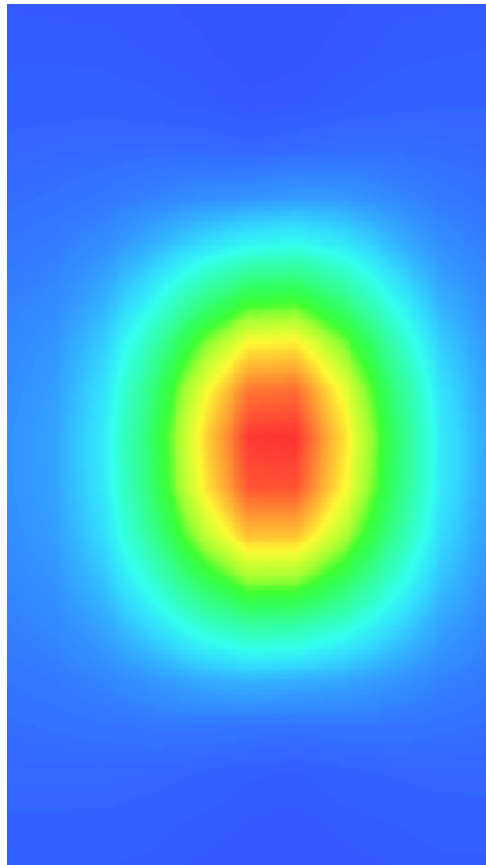
Maximum location: X=1.00, Y=-1.00

SAR Peak: 7.40 W/kg

SAR 10g (W/Kg)	2.093533
SAR 1g (W/Kg)	3.932904

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.7034	3.7183	2.1347	1.2560	0.7338	0.4260	0.2429



3D screen shot	Hot spot position
	

MEASUREMENT 4

BODY

Type: Validation measurement (Complete)

Date of measurement: 17/10/2024

Measurement duration: 13 minutes 46 seconds

A. Experimental conditions.

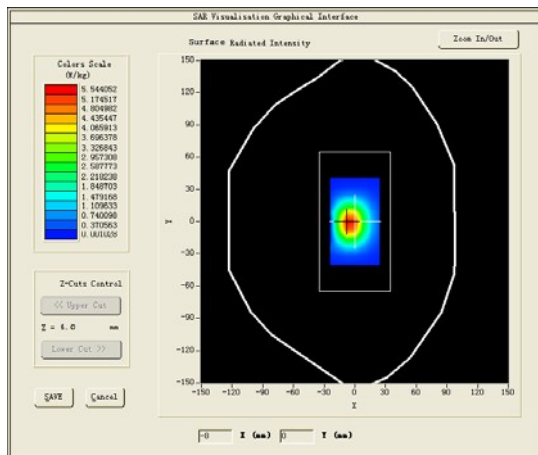
<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2450</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

B. SAR Measurement Results

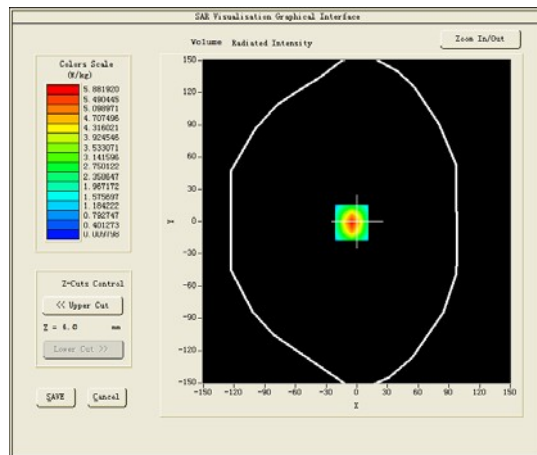
Middle Band SAR (Channel -1):

Frequency (MHz)	2450.000000
Relative permittivity (real part)	52.735699
Relative permittivity (imaginary part)	14.017300
Conductivity (S/m)	1.907910
Variation (%)	0.390000

SURFACE SAR



VOLUME SAR

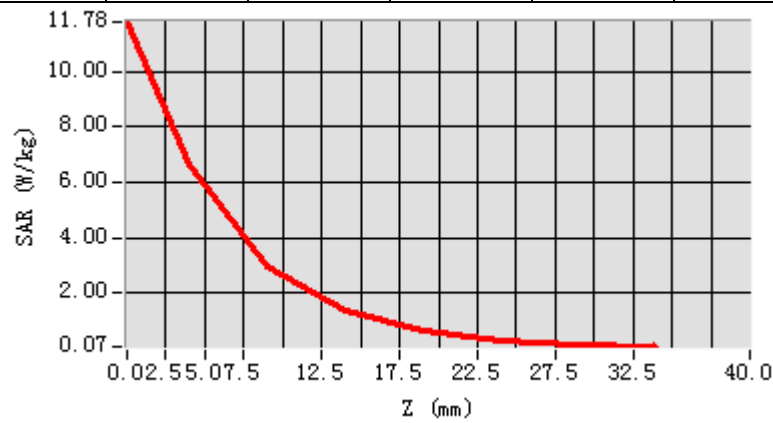


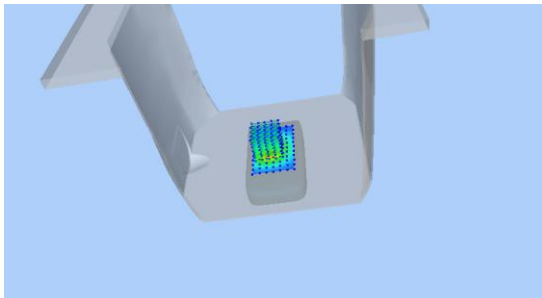
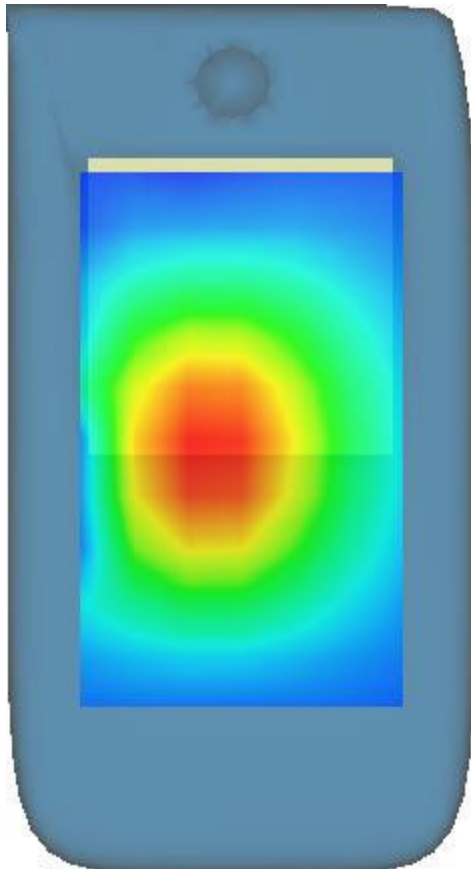
Maximum location: X=5.00, Y=-1.00

SAR Peak: 10.96 W/kg

SAR 10g (W/Kg)	2.333453
SAR 1g (W/Kg)	5.433343

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	10.2188	5.8819	2.7478	1.3151	0.6266	0.2969	0.1341



3D screen shot	Hot spot position
	

MEASUREMENT 5

BODY

Type: Validation measurement (Complete)

Date of measurement: 24/10/2024

Measurement duration: 29 minutes 30 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>
<u>ZoomScan</u>	<u>8x8x7,dx=4mm dy=4mm</u> <u>dz=2mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2600</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Duty cycle:1.0)</u>

B. SAR Measurement Results

Middle Band SAR (Channel -1):

Frequency (MHz)	2600.000000
Relative permittivity (real part)	52.007900
Relative permittivity (imaginary part)	14.458500
Conductivity (S/m)	2.088450
Variation (%)	-0.220000