



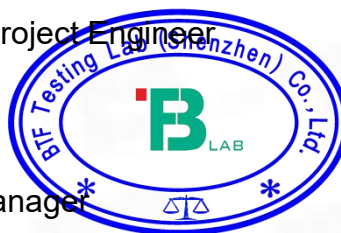
SAR Test Report

For

Applicant Name: UNNECTO HOLDING LIMITED
Address: 13/F HARBOUR COMMERCIAL BUILDING 122-124
CONNAUGHT ROAD CENTRAL SHEUNG WAN HK
EUT Name: Mobile Phone
Model Name: Eco 10
Brand Name: unnecto ™

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: 101/201/301, Building 1, Block 2, Tantou Industrial Park,
Tantou Community, Songgang Subdistrict, Bao'an District,
Shenzhen, China
Report Number: BTF251107R00201
Test Standards: FCC 47 CFR§2.1093 IEEE Std. 1528-2013 IEEE C95.1-2019
FCC ID: 2ADR3UE010
Test Conclusion: Pass
Test Date: 2025-11-16 to 2025-11-25
Date of Issue: 2025-12-09
Tested By: Kris . Li
Kris Li / Tester
Date: 2025-12-09
Prepared By: Amenda Zhong
Amenda Zhong / Project Engineer
Date: 2025-12-09
Approved By: Ryan.CJ
Ryan.CJ / EMC Manager
Date: 2025-12-09



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Revision History		
Version	Issue Date	Revisions Content
R_V0	2025-12-09	Original
Note:		Once the revision has been made, then previous versions reports are invalid.

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1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Description:	All measurement facilities used to collect the measurement data are located at 101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
FCC Registration Number	518915
Designation Number	CN1409

1.3 Laboratory Condition

Ambient Temperature:	21°C to 25°C
Ambient Relative Humidity:	48% to 59%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2. Product Information

2.1 Application Information

Company Name:	UNNECTO HOLDING LIMITED
Address:	13/F HARBOUR COMMERCIAL BUILDING 122-124 CONNAUGHT ROAD CENTRAL SHEUNG WAN HK

2.2 Manufacturer Information

Company Name:	COOSEA GROUP (HK) COMPANY LIMITED
Address:	UNIT 503 5/F SILVERCORD TOWER 2 30 CANTON ROAD TSIMSHATSUI KL HONG KONG

2.3 Factory Information

Company Name:	Sichuan koobee communication equipment Co., Ltd.
Address:	Building 2, No.69, West of gangyuan Road, Lingang economic and technological development zone, Yibin City, Sichuan Province, P.R.China

2.4 General Description of Equipment under Test (EUT)

EUT Name	Mobile Phone
Under Test Model Name	Eco 10
Sample No.	BTFSN251107025

2.5 Equipment under Test Ancillary Equipment

Ancillary Equipment 1	Rechargeable Battery	
	Rated Capacity	4900mAh
	Nominal Voltage	3.87V

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EGPRS 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/7/12/13/17/25/26/30/66/71 TDD LTE Band 38/41 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) BT (EDR+BLE)
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM, WCDMA, LTE, WLAN, Bluetooth, NFC		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 698 ~ 716 MHz	RX: 728 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	LTE Band 26 part 90	TX: 814.7 ~ 823.3 MHz	RX: 859.7 ~ 868.3 MHz
	LTE Band 26 part 22	TX: 824.7 ~ 848.3 MHz	RX: 869.7 ~ 893.3 MHz
	LTE Band 30	2305 ~ 2315 MHz	
	LTE Band 38	2570 ~ 2620 MHz	
	LTE Band 41	2535 ~ 2655 MHz	
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2200 MHz
	LTE Band 71	TX: 663 ~ 698 MHz	RX: 617 ~ 652 MHz
	802.11b/g/n(HT20)	2412 ~ 2462 MHz	
	802.11n(HT40)	2422 ~ 2452 MHz	
	802.11a /802.11n(HT20/40) /802.11ac(HT20/40/80)	U-NII-1: 5180 MHz ~ 5240 MHz, U-NII-2A: 5260 MHz ~ 5320 MHz, U-NII-2C: 5500 MHz ~ 5700 MHz, U-NII-3: 5745 MHz ~ 5825 MHz	
	Bluetooth	2402 ~ 2480 MHz	
	NFC	13.56 MHz	
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna BT: PIFA Antenna NFC: Loop Coil Antenna		
Hotspot Function	Support		
Power Reduction	Not Support		
Exposure Category	General Population/Uncontrolled exposure		
EUT Stage	Portable Device		
Product	Type		
	☒ Production unit	☐ Identical prototype	

3. Summary of Test Results

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
3	IEEE C95.1-2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
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

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ Controlled Exposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure. In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

3.3 Test Result Summary

The maximum results of Specific Absorption Rate (SAR) found during test as follows:

<Highest Reported standalone SAR Summary>

Exposure Position	Frequency Band	Reported SAR (W/kg)	Equipment Class	Highest Reported SAR (W/kg)
Head 1-g SAR (0 mm Gap)	GSM 850	0.799	PCE	0.799
	GSM 1900	0.168		
	WCDMA Band II	0.299		
	WCDMA Band IV	0.224		
	WCDMA Band V	0.573		
	LTE Band 2	0.123		
	LTE Band 4	0.063		
	LTE Band 5	0.307		
	LTE Band 7	0.065		
	LTE Band 12	0.392		
	LTE Band 13	0.158		
	LTE Band 17	0.364		
	LTE Band 25	0.112		
	LTE Band 26 part 90	0.330		
	LTE Band 26 part 22	0.197		
	LTE Band 30	0.090		
	LTE Band 38	0.467		
	LTE Band 41	0.220		
	LTE Band 66	0.027		
	LTE Band 71	0.158		
	WLAN 2.4 GHz	0.230	DTS	
	WLAN 5.2 GHz	0.444	NII	
	WLAN 5.4 GHz	0.480		
	WLAN 5.6 GHz	0.533		
WLAN 5.8 GHz	0.649	DSS		
Bluetooth	0.004			
Exposure Position	Frequency Band	Reported SAR (W/kg)	Equipment Class	Highest Reported SAR (W/kg)
Hotspot(Body) 1-g SAR (10 mm Gap)	GSM 850	0.386	PCE	0.448
	GSM 1900	0.066		
	WCDMA Band II	0.107		
	WCDMA Band IV	0.085		
	WCDMA Band V	0.239		
	LTE Band 2	0.293		
	LTE Band 4	0.161		
	LTE Band 5	0.250		
	LTE Band 7	0.273		
	LTE Band 12	0.253		
	LTE Band 13	0.155		
	LTE Band 17	0.261		
	LTE Band 25	0.144		
	LTE Band 26 part 90	0.204		
	LTE Band 26 part 22	0.213		
	LTE Band 30	0.404		
	LTE Band 38	0.448		
	LTE Band 41	0.430		
	LTE Band 66	0.142		
	LTE Band 71	0.237		
	WLAN 2.4 GHz	0.154	DTS	
	WLAN 5.2 GHz	0.242	NII	
	WLAN 5.4 GHz	0.293		
	WLAN 5.6 GHz	0.280		
WLAN 5.8 GHz	0.414	DSS		
Bluetooth	0.003			

This device is in compliance with Specific Absorption Rate(SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC47 CFR part 2(2.1093) and ANSI/IEEE C95.1-2019, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std. 1528-2013.

<Highest Reported Simultaneous SAR>

Exposure Position	Simultaneous Configuration	Highest Reported Simultaneous Transmission SAR (W/kg)	Limit (W/kg)	Verdict
Head 1-g SAR (0 mm Gap)	GSM 850 + 5.8G WIFI	1.448	1.6	Pass
Hotspot(Body) 1-g SAR (10 mm Gap)	LTE Band 38 + 5.8G WIFI	0.862	1.6	Pass

3.4 Test Uncertainty

3.4.1 Measurement uncertainty evaluation for SAR test

Measurement uncertainty evaluation for SAR test (450MHz to 6GHz)

Uncertainty Component	Tol (+-%)	Prob. Dist.	Div.	Unc. $u(x_i)=a(x_i)/q_i$	Ci (1g)	Ci (10g)	1g U_i (+-%)	10 g U_i (+-%)	V_i v_{eff}
Measurement System									
Probe calibration	14	N (k = 2)	2	7.00	1	1	7.00	7.00	∞
Probe calibration drift	4	R	$\sqrt{3}$	2.31	1	1	2.31	2.31	∞
Probe linearity	4.7	R	$\sqrt{3}$	2.71	1	1	2.71	2.71	∞
detection limit	1	R	$\sqrt{3}$	0.58	1	1	0.58	0.58	∞
Probe isotropy	3.5	R	$\sqrt{3}$	2.02	0.71	0.71	1.43	1.43	∞
Hemispherical Isotropy	5.9	N	1	5.90	0.71	0.71	4.19	4.19	∞
Boundary effect	1	R	1.73	0.58	1	1	0.58	0.58	∞
Integration time	1.4	R	1.73	0.81	1	1	0.81	0.81	∞
Response time	0	R	1.73	0.00	1	1	0.00	0.00	∞
Readout electronics	0.5	N	1	0.50	1	1	0.50	0.50	∞
RF ambient and noise	3	R	$\sqrt{3}$	1.73	1	1	1.73	1.73	∞
Probe positioning errors	3.28	N	1	3.28	0.33	0.33	1.08	1.08	∞
Data processing errors	2.3	R	1	1.33	1	1	1.33	1.33	∞
Conductivity measurement	4.07	N	1	2.35	0.79	0.77	1.86	1.81	∞
Permittivity measurement	5.06	N	1	2.92	0.23	0.26	0.67	0.76	∞
Liquid Conductivity - Temperature Uncertainty	2.5	R	1	1.44	0.79	0.77	1.14	1.11	∞
Liquid Permittivity - Temperature Uncertainty	2.5	R	$\sqrt{3}$	1.44	0.23	0.26	0.33	0.38	∞
Shell permittivity	2.9	R	$\sqrt{3}$	1.67	0.25	0.25	0.42	0.42	∞
Repeatability of positioning the DUT or source against the phantom	2.7	N	1	2.70	2	2	5.40	5.40	∞
Uncertainty in accepted power	3	R	1	3.00	1	1	3.00	3.00	∞
Effect of operating mode on probe sensitivity	2.3	R	$\sqrt{3}$	1.33	1	1	1.33	1.33	∞
Variation in SAR due to drift in output of DUT	2.2	N	1	2.20	1	1	2.20	2.20	∞
Phantom deviation from target (ϵ' , σ)	1.9	N	1	1.90	1	1	1.90	1.90	∞
SAR scaling	0	R	$\sqrt{3}$	0.00	1	1	0.00	0.00	∞
Probe calibration	14	N (k = 2)	2	7.00	1	1	7.00	7.00	∞
Combined uncertainty	/						11.94	11.94	
Expanded Uncertainty (95% Confidence interval)	/						23.89	23.88	

* This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.4.2 Measurement uncertainty evaluation for system check

Uncertainty Component	Tol (+-%)	Prob. Dist.	Div.	Unc. $u(x_i)=a(x_i)/q_i$	Ci (1g)	Ci (10 g)	1g Ui (+-%)	10 g Ui (+-%)	Vi veff
Measurement System									
Probe calibration	14	N (k = 2)	2	7.00	1	1	7.00	7.00	∞
Probe calibration drift	4	R	1.73	2.31	1	1	2.31	2.31	∞
Probe linearity	4.7	R	1.73	2.72	1	1	2.72	2.72	∞
Detection limit	1	R	1.73	0.58	1	1	0.58	0.58	∞
Axial Isotropy	3.5	R	1.73	2.02	1	1	2.02	2.02	∞
Hemispherical Isotropy	5.9	R	1.73	3.41	0.71	0.71	2.42	2.42	∞
Boundary effect	1	R	1.73	0.58	0.71	0.71	0.41	0.41	∞
Integration time	1.4	R	1.73	0.81	1	1	0.81	0.81	∞
Response time	0	R	1.73	0.00	1	1	0.00	0.00	∞
Readout electronics	0.5	N	1	0.50	1	1	0.50	0.50	∞
Noise	3	R	1.73	1.73	1	1	1.73	1.73	∞
Reflections	3	R	1.73	1.73	1	1	1.73	1.73	∞
Positioner Mechanical Tolerance	3.28	R	1.73	1.90	0.33	0.33	0.63	0.63	∞
Positioning with respect to Phantom Shell	3.28	R	1.73	1.90	0.33	0.33	0.63	0.63	∞
Data processing errors	2.3	R	1.73	1.33	1	1	1.33	1.33	∞
Conductivity measurement	4.07	N	1	4.07	0.79	0.77	3.22	3.13	∞
Permittivity measurement	5.06	N	1	5.06	0.23	0.26	1.16	1.32	∞
Liquid Conductivity - Temperature Uncertainty	2.5	R	1.73	1.45	0.79	0.77	1.14	1.11	∞
Liquid Permittivity - Temperature Uncertainty	2.5	R	1.73	1.45	0.23	0.26	0.33	0.38	∞
Shell permittivity	2.9	R	1.73	1.68	0.25	0.25	0.42	0.42	∞
Distance between the radiating element of the DUT and the phantom medium	2.7	N	1	2.70	2	2	5.40	5.40	∞
Deviation of experimental antennas	4.5	N	1.73	2.60	1	1	2.60	2.60	∞
Other uncertainty contributions	2	R	1	2.00	1	1	2.00	2.00	∞
Uncertainty in accepted power	3	R	1.73	1.73	1	1	1.73	1.73	∞
Phantom deviation from target (ϵ', σ)	1.9	N	1	1.90	1	0.87	1.90	1.65	∞
$u(\Delta SAR)$	/						11.89	11.85	
Expanded uncertainty (95% confidence interval)	/						23.79	23.70	

4.2.2 Robot



A standard high precision 6-axis robot (Denso) with teaches pendant with Scanning System

- It must be able to scan all the volume of the phantom to evaluate the tridimensional distribution of SAR.
- Must be able to set the probe orthogonal of the surface of the phantom ($\pm 30^\circ$).
- Detects stresses on the probe and stop itself if necessary to keep the integrity of the probe.

4.2.3 E-Field Probe

For the measurements, the Specific Dosimetric SSE2 E-Field Probe with following specifications is used:

- Dynamic range: 0.01-100 W/kg
- Tip diameter: 2mm for SSE2
- Distance between probe tip and sensor centre: 1mm for SSE2
- Distance between sensor centre and the inner phantom surface: 2mm for $f \geq 4\text{GHz}$.
- Probe linearity: $<0.25\text{dB}$.
- Axial Isotropy: $<0.25\text{dB}$.
- Spherical Isotropy: $<0.50\text{dB}$.
- Calibration range: 150 to 6000 MHz for head & body simulating liquid
- Angle between probe axis (evaluation axis) and surface normal line: less than 20° .



4.2.4 Phantoms

SAM Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The probe scanning of the E-Field is done in the 2 halves of the normalized head. The normalized shape of the phantom corresponds to the dimensions of 90% of an adult head size. It enables the dosimetric evaluation of left and right-hand phone usage and includes an additional flat phantom part for the simplified body performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



SAM Phantom

The thickness of the phantom amounts to $2\text{ mm} \pm 0.2\text{ mm}$. The materials for the phantom do not affect the radiation of the device under test (DUT) : $\epsilon_r' < 5$
The head is filled with tissue simulating liquid. The hand do not have to be modeled.

TWIN SAM phantom

	Mechanical	Electrical	
Overall thickness	$2 \pm 0.2\text{ mm}$ (except ear area)	Relative permittivity	3.4
Dimensions	1000 mm(L) x 500 mm(W) x 200 mm(H)	Loss tangent	0.02
Maximum volume	27 L		
Material	Fiberglass based		

ELLIPTICAL Phantom

The phantom is for Body performance check filled with tissue-equivalent liquid to a depth of at least 150 mm, whose shell material is resistant to damage or reaction with tissue-equivalent liquid chemicals.



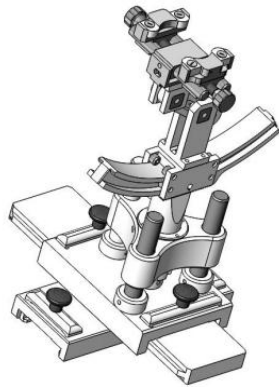
ELLI Phantom

The shape of the phantom is an ellipse with length $600\text{ mm} \pm 5\text{ mm}$ and width $400\text{ mm} \pm 5\text{ mm}$.
The phantom shell is made of low-loss and low-permittivity material, having loss tangent $\tan \delta \leq 0.05$ and relative permittivity:
 $\epsilon_r' \leq 5$ for $f \leq 3\text{ GHz}$
 $3 \leq \epsilon_r' \leq 5$ for $f > 3\text{ GHz}$
The thickness of the bottom-wall of the flat phantom is 2.0 mm with a tolerance of $\pm 0.2\text{ mm}$.

Technical & mechanical characteristics

Shell thickness	$2\text{ mm} \pm 0.2\text{ mm}$
Filling volume	25 L
Dimensions	600 mm x 400 mm x 200 mm
Permittivity	4.4
Loss tangent	0.017

4.2.5 Device Holder



System Material	Permittivity	Loss tangent
Delrin	3.7	0.005

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

System Material	Permittivity	Loss tangent
PMMA	2.9	0.028

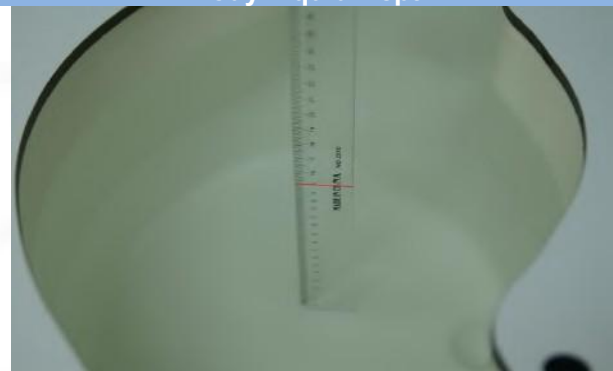
4.2.6 Simulating Liquid

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 nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.

Head Liquid Depth



Body Liquid Depth



The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

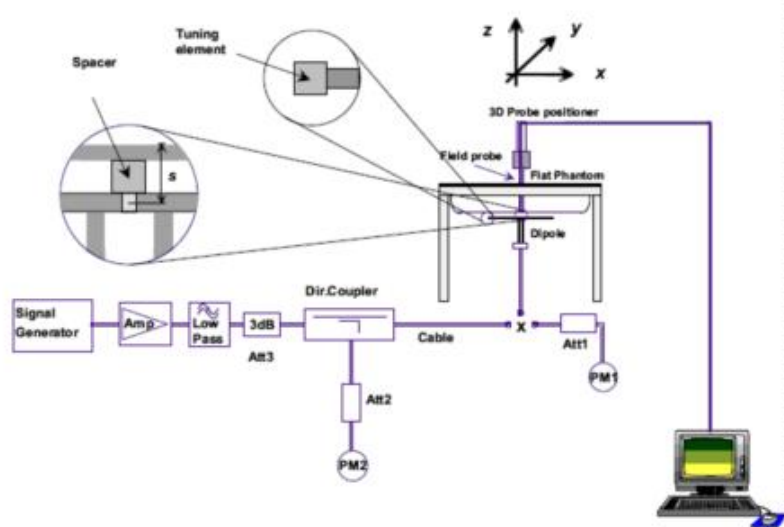
Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ε
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency (MHz)	Water (%)	Hexyl Carbitol (%)			Triton X-100 (%)		Conductivity σ (S/m)	Permittivity ε
5200	62.52	17.24			17.24		4.66	36.0
5800	62.52	17.24			17.24		5.27	35.3
Body (From instrument manufacturer)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ε
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5
Frequency(MHz)	Water	DGBE (%)			Salt (%)		Conductivity σ (S/m)	Permittivity ε
5200	78.60	21.40			/		5.30	49.00
5800	78.50	21.40			0.1		6.00	48.20

5. System Verification

5.1 Purpose of System Check

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

5.2 System Check Setup



6. TEST POSITION CONFIGURATIONS

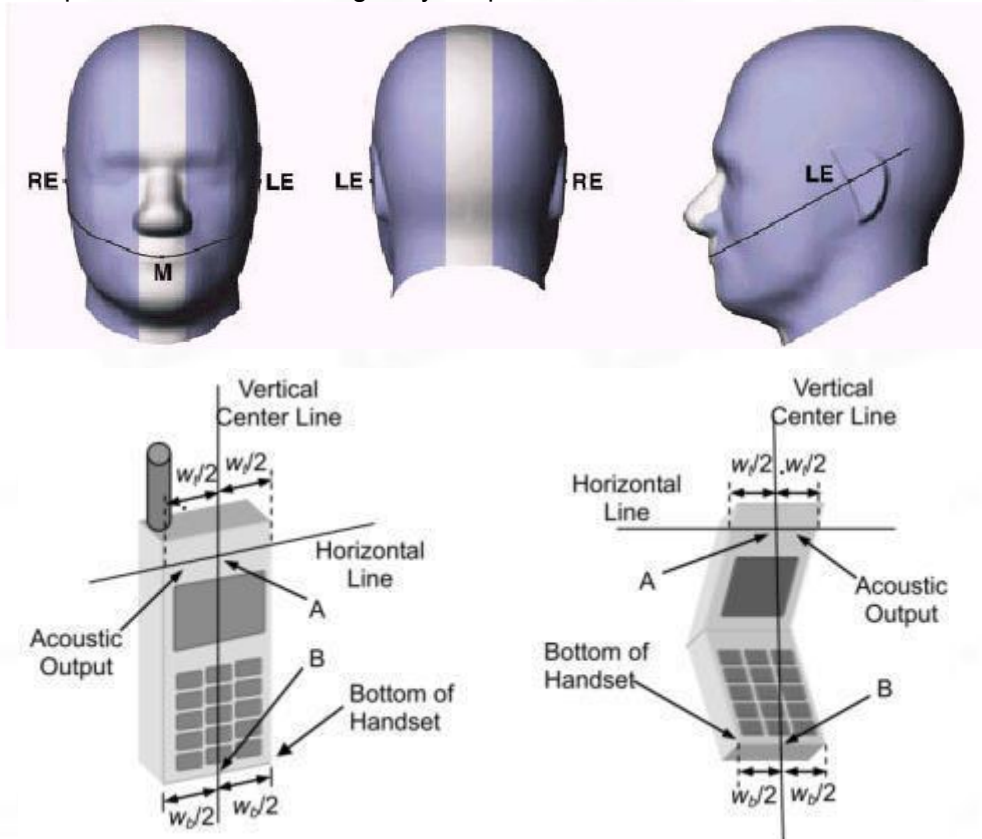
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

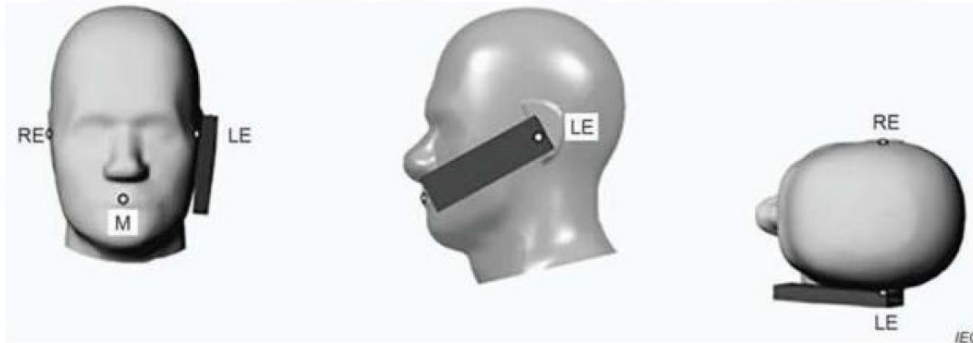
6.1.1 Two Imaginary Lines on the Handset

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



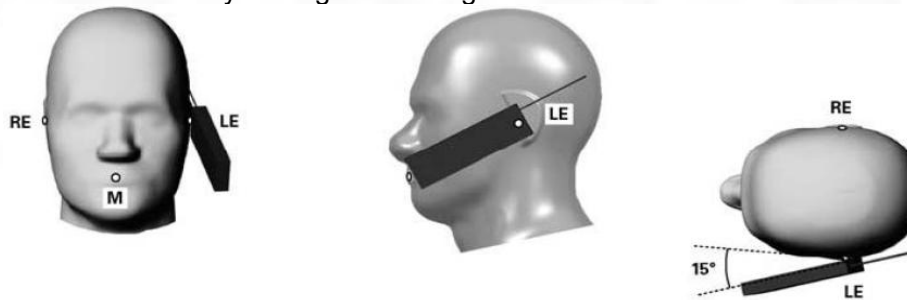
6.1.2 Two Imaginary Lines on the Handset

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



6.1.3 Titled Position

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

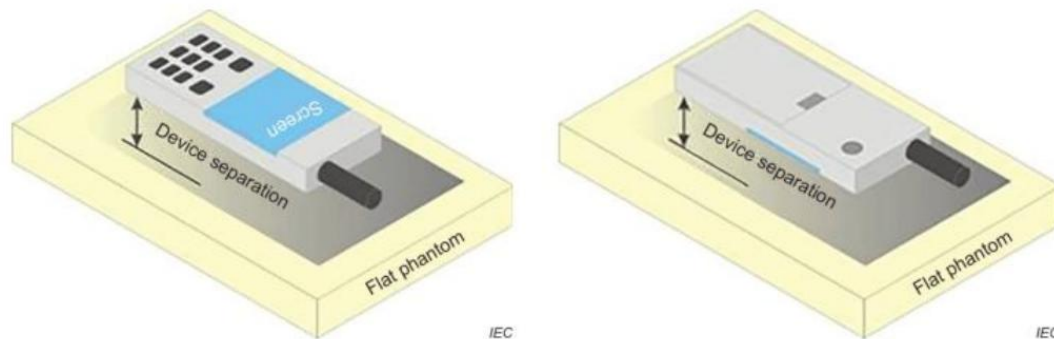


6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

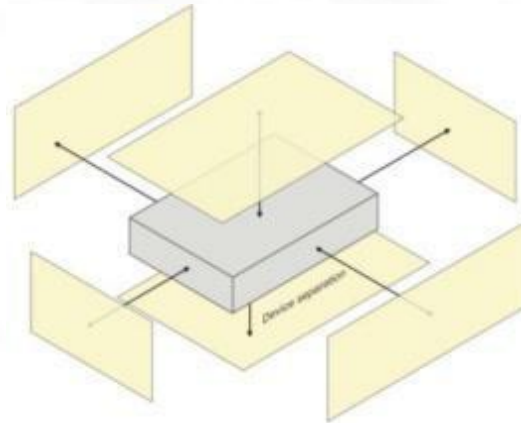
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance ≤ 5 mm to support compliance.



6.3 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



6.4 Product Specific 10g Exposure Consideration

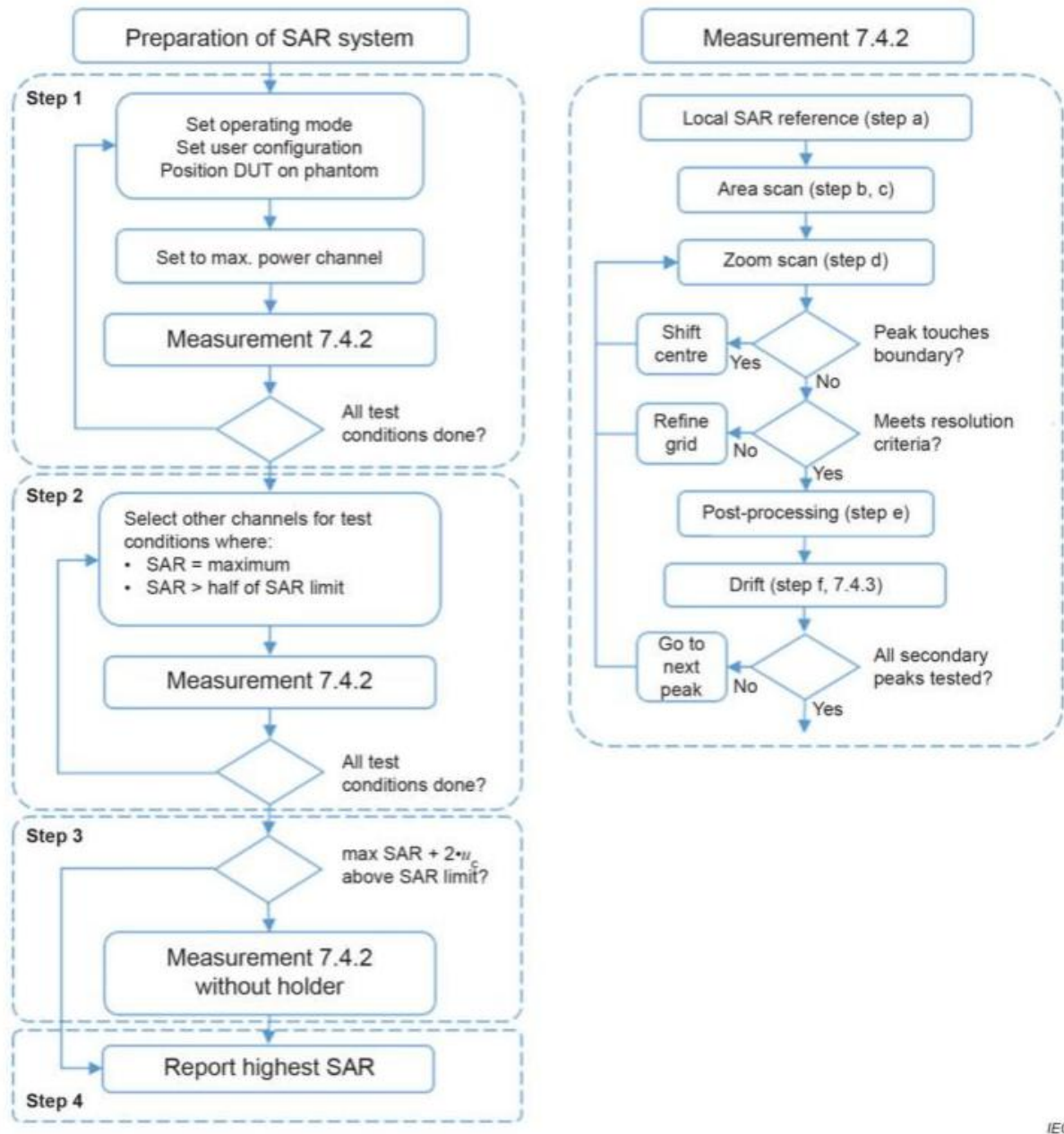
According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

7. Measurement Procedure

7.1 Measurement Process Diagram

Body SAR



IEC

7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013.

			≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5±1 mm	½ δ·ln(2)±0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±1°	20°±1°
Maximum area scan spatial resolution: Δx Area , Δy Area			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom			≤ 2 GHz: ≤ 8 mm 2–3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz Zoom (n)		≤ 5 mm	3–4 GHz: ≤ 4 mm
				4–5 GHz: ≤ 3 mm
				5–6 GHz: ≤ 2 mm
	graded grid	Δz Zoom (1): between 1st two points closest to phantom surface	≤ 4 mm	3–4 GHz: ≤ 3 mm
				4–5 GHz: ≤ 2.5 mm
				5–6 GHz: ≤ 2 mm
		≤ 1.5·Δz Zoom (n-1)		
Minimum zoom scan volume	x, y, z		≥30 mm	3–4 GHz: ≥ 28 mm
				4–5 GHz: ≥ 25 mm
				5–6 GHz: ≥ 22 mm
Note:				
1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528- 2011 for details.				
2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB				
447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

7.3 Measurement Procedure

The following steps are used for each test position

- a. 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
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot 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.
- d. 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.

7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g.

When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

8. Conducted RF Output Power

8.1 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		31.00	30.59	30.79	30.40	-9.03	21.56	21.76	21.37
GPRS (GMSK)	1Tx slot	31.00	30.60	30.78	30.39	-9.03	21.57	21.75	21.36
	2Tx slots	30.00	29.44	29.68	29.24	-6.02	23.42	23.66	23.22
	3Tx slots	28.00	27.29	27.53	27.05	-4.26	23.03	23.27	22.79
	4Tx slots	26.50	26.17	26.44	25.93	-3.01	23.16	23.43	22.92
EGPRS (8PSK)	1Tx slot	26.00	25.73	23.44	23.08	-9.03	16.70	14.41	14.05
	2Tx slots	23.00	22.50	22.43	22.17	-6.02	16.48	16.41	16.15
	3Tx slots	22.50	20.43	20.24	22.17	-4.26	16.17	15.98	17.91
	4Tx slots	19.50	19.14	19.21	18.97	-3.01	16.13	16.20	15.96
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		25.50	25.38	25.21	24.80	-9.03	16.35	16.18	15.77
GPRS (GMSK)	1Tx slot	25.50	25.39	25.19	24.78	-9.03	16.36	16.16	15.75
	2Tx slots	24.50	24.40	24.25	23.83	-6.02	18.38	18.23	17.81
	3Tx slots	22.50	22.38	22.24	21.84	-4.26	18.12	17.98	17.58
	4Tx slots	21.50	21.31	21.18	20.76	-3.01	18.30	18.17	17.75
EGPRS (8PSK)	1Tx slot	22.00	21.76	20.82	20.23	-9.03	12.73	11.79	11.20
	2Tx slots	20.00	19.97	19.93	19.32	-6.02	13.95	13.91	13.30
	3Tx slots	19.00	18.07	17.89	18.82	-4.26	13.81	13.63	14.56
	4Tx slots	17.00	16.98	16.84	16.33	-3.01	13.97	13.83	13.32
Note: 1) Division Factors To average the power, the division factor is as follows: 1Tx-slot = 1 transmit time slot 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									

8.2 WCDMA

Mode		Maximum Tune-up(dBm)	WCDMA Band II		
			Conducted Power (dBm)		
			CH9262	CH9400	CH9538
			1852.4	1880.0	1907.6
RMC 12.2K		18.00	17.82	17.80	17.23
HSDPA	Subtest-1	16.00	15.48	15.64	15.03
	Subtest-2	16.00	15.50	15.62	15.03
	Subtest-3	16.00	15.49	15.62	15.04
	Subtest-4	16.00	15.50	15.65	15.04
HSUPA	Subtest-1	14.50	13.74	14.01	12.73
	Subtest-2	14.00	13.65	13.42	13.10
	Subtest-3	13.50	12.87	13.38	12.33
	Subtest-4	14.00	13.37	13.88	12.82
	Subtest-5	14.00	12.83	13.79	12.60
Mode		Maximum Tune-up(dBm)	WCDMA Band IV		
			Conducted Power (dBm)		
			CH1312	CH1413	CH1513
			1712.4	1732.6	1752.6
RMC 12.2K		18.50	18.43	18.16	18.16
HSDPA	Subtest-1	16.00	15.93	15.78	15.84
	Subtest-2	16.00	15.97	15.75	15.85
	Subtest-3	16.00	15.95	15.73	15.87
	Subtest-4	16.00	15.95	15.75	15.85
HSUPA	Subtest-1	14.50	13.94	14.37	14.36
	Subtest-2	14.50	14.29	13.75	14.05
	Subtest-3	14.50	13.71	14.00	13.94
	Subtest-4	14.50	14.21	14.47	14.26
	Subtest-5	14.00	13.54	13.85	13.85
Mode		Maximum Tune-up(dBm)	WCDMA Band V		
			Conducted Power (dBm)		
			CH4132	CH4183	CH4233
			826.4	836.6	846.6
RMC 12.2K		20.00	19.66	19.73	19.72
HSDPA	Subtest-1	18.50	18.01	18.17	18.19
	Subtest-2	18.50	18.04	18.15	18.21
	Subtest-3	18.50	18.08	18.16	18.19
	Subtest-4	18.50	18.03	18.15	18.20
HSUPA	Subtest-1	16.00	15.41	15.63	15.69
	Subtest-2	16.00	15.41	15.19	15.51
	Subtest-3	15.50	14.79	15.37	14.91
	Subtest-4	16.00	15.45	15.51	15.78
	Subtest-5	17.00	16.26	16.37	16.56
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.					

8.3 LTE

Band 2

LTE-FDD Band 2				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		18607 1850.7MHz	18900 1880.0MHz	19193 1909.3MHz
1.4MHz	QPSK	1	0	22.00	21.53	21.58	21.25
			2	22.00	21.64	21.68	21.33
			5	22.00	21.52	21.56	21.22
		3	0	22.00	21.62	21.72	21.44
			2	22.00	21.63	21.73	21.42
			3	22.00	21.62	21.74	21.40
		6	0	21.00	20.56	20.66	20.33
	16QAM	1	0	21.00	20.53	20.76	20.27
			2	21.00	20.69	20.88	20.37
			5	21.00	20.57	20.76	20.29
		3	0	21.00	20.69	20.70	20.63
			2	21.00	20.70	20.73	20.64
			3	21.00	20.68	20.72	20.61
		6	0	20.00	19.52	19.77	19.42
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18615 1851.5MHz	18900 1880.0MHz	19185 1908.5MHz
3MHz	QPSK	1	0	22.00	21.62	21.66	21.36
			7	22.00	21.74	21.79	21.49
			14	22.00	21.63	21.64	21.30
		8	0	21.00	20.55	20.70	20.39
			4	21.00	20.61	20.74	20.40
			7	21.00	20.57	20.67	20.36
		15	0	21.00	20.55	20.70	20.36
	16QAM	1	0	21.00	20.60	20.88	20.94
			7	21.50	20.72	21.03	21.10
			14	21.00	20.54	20.84	20.93
		8	0	20.00	19.69	19.75	19.65
			4	20.00	19.73	19.80	19.69
			7	20.00	19.71	19.75	19.63
		15	0	20.00	19.68	19.76	19.58
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18625 1852.5MHz	18900 1880.0MHz	19175 1907.5MHz
5MHz	QPSK	1	0	22.00	21.48	21.61	21.34
			13	22.00	21.64	21.75	21.52
			24	22.00	21.48	21.56	21.29
		12	0	21.00	20.49	20.69	20.45
			6	21.00	20.61	20.75	20.50
			13	21.00	20.65	20.71	20.46
		25	0	21.00	20.55	20.73	20.46
	16QAM	1	0	21.00	20.56	20.91	20.24
			13	21.50	20.72	21.06	20.35
			24	21.00	20.53	20.84	20.19
		12	0	20.00	19.50	19.81	19.52
			6	20.00	19.70	19.91	19.59
			13	20.00	19.67	19.84	19.53
		25	0	20.00	19.66	19.82	19.61

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	22.00	21.52	21.64	21.44			
			25	22.00	21.79	21.82	21.50			
			49	22.00	21.62	21.66	21.35			
		25	0	21.00	20.43	20.71	20.56			
			13	21.00	20.59	20.75	20.47			
			25	21.00	20.62	20.77	20.47			
		50	0	21.00	20.53	20.78	20.52			
			16QAM	1	0	21.00	20.55	20.84	20.99	
					25	21.50	20.72	21.03	21.16	
	49	21.00			20.55	20.75	20.93			
	25	0		20.00	19.62	19.86	19.75			
		13		20.00	19.75	19.86	19.65			
		25		20.00	19.77	19.87	19.63			
	50	0		20.00	19.65	19.88	19.71			
		Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18675	18900	19125
								1857.5MHz	1880.0MHz	1902.5MHz
	15MHz	QPSK	1	0	22.00	21.51	21.61	21.47		
				38	22.00	21.71	21.71	21.46		
74				22.00	21.53	21.55	21.30			
36			0	21.00	20.49	20.76	20.66			
			18	21.00	20.65	20.74	20.55			
			39	21.00	20.65	20.73	20.46			
75			0	21.00	20.56	20.75	20.57			
			16QAM	1	0	21.00	20.84	20.74	20.94	
					38	21.50	20.88	20.89	21.05	
74		21.00			20.81	20.71	20.89			
36		0		20.00	19.50	19.84	19.66			
		18		20.00	19.63	19.82	19.62			
		39		20.00	19.58	19.79	19.54			
75		0		20.00	19.57	19.83	19.63			
		Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18700	18900	19100
								1860.0MHz	1880.0MHz	1900.0MHz
20MHz		QPSK	1	0	22.00	21.42	21.55	21.47		
				50	22.00	21.77	21.89	21.65		
	99			22.00	21.54	21.54	21.23			
	50		0	21.00	20.39	20.69	20.65			
			25	21.00	20.60	20.74	20.54			
			50	21.00	20.48	20.67	20.35			
	100		0	21.00	20.45	20.68	20.58			
			16QAM	1	0	21.00	20.91	20.80	20.71	
					50	21.50	21.22	21.08	20.92	
	99	21.50			21.05	20.62	20.60			
	50	0		20.00	19.48	19.78	19.77			
		25		20.00	19.66	19.83	19.64			
		50		20.00	19.57	19.82	19.42			
	100	0		20.00	19.52	19.79	19.65			

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	22.00	21.91	21.63	21.58		
			2	22.50	22.05	21.74	21.68		
			5	22.00	21.93	21.63	21.55		
		3	0	22.00	21.97	21.76	21.70		
			2	22.50	22.02	21.77	21.76		
			3	22.00	21.98	21.74	21.67		
		6	0	21.50	21.02	20.79	20.77		
			16QAM	1	0	21.00	20.97	20.90	20.60
					2	21.50	21.07	20.99	20.70
	5	21.50			21.02	20.86	20.61		
	3	0		21.50	21.10	20.80	20.91		
		2		21.50	21.13	20.83	20.94		
		3		21.50	21.09	20.82	20.91		
	6	0		20.00	19.96	19.82	19.72		
	Bandwidth	Modulation		RB allocation	RB offset	Maximum Tune-up(dBm)	19965	20175	20385
							1711.5MHz	1732.5MHz	1753.5MHz
	3MHz	QPSK	1	0	22.00	21.96	21.64	21.62	
				7	22.50	22.10	21.78	21.79	
14				22.00	21.95	21.59	21.59		
8			0	21.00	20.99	20.72	20.74		
			4	21.50	21.04	20.75	20.78		
			7	21.00	20.98	20.69	20.72		
15			0	21.00	20.98	20.69	20.69		
16QAM			1	0	21.50	21.03	20.87	21.21	
				7	21.50	21.17	21.03	21.33	
		14		21.50	20.98	20.85	21.15		
		8	0	20.50	20.03	19.72	19.82		
			4	20.50	20.10	19.74	19.90		
			7	20.50	20.03	19.70	19.84		
		15	0	20.50	20.06	19.69	19.75		
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19976	20175	20375
							1712.5MHz	1732.5MHz	1752.5MHz
5MHz		QPSK	1	0	22.00	21.85	21.55	21.45	
				13	22.00	21.99	21.65	21.60	
	24			22.00	21.75	21.49	21.45		
	12		0	21.00	20.92	20.69	20.63		
			6	21.50	21.01	20.78	20.69		
			13	21.00	20.92	20.68	20.61		
	25		0	21.00	20.93	20.72	20.61		
			16QAM	1	0	21.00	20.95	20.89	20.31
					13	21.50	21.10	20.96	20.48
	24	21.00			20.90	20.89	20.35		
	12	0		20.00	19.91	19.75	19.62		
		6		20.50	20.01	19.81	19.69		
		13		20.00	19.91	19.71	19.61		
	25	0		20.00	19.97	19.73	19.65		

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	22.00	21.93	21.62	21.51	
			25	22.50	22.09	21.79	21.78	
			49	22.00	21.82	21.53	21.51	
		25	0	21.00	20.97	20.76	20.68	
			13	21.00	20.97	20.75	20.67	
			25	21.00	20.99	20.70	20.66	
	16QAM	50	0	21.00	20.99	20.76	20.70	
			1	0	21.50	20.95	20.87	21.05
				25	21.50	21.12	21.03	21.29
		49		21.50	20.89	20.79	21.06	
		25	0	20.50	20.08	19.82	19.72	
			13	20.50	20.08	19.80	19.75	
			25	20.50	20.09	19.79	19.75	
		50	0	20.50	20.02	19.80	19.70	
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20025	20175	20325	
					1717.5MHz	1732.5MHz	1747.5MHz	
15MHz	QPSK	1	0	22.00	21.84	21.53	21.48	
			38	22.00	21.81	21.63	21.59	
			74	22.00	21.62	21.51	21.47	
		36	0	21.00	20.96	20.75	20.68	
			18	21.00	20.93	20.78	20.73	
			39	21.00	20.88	20.79	20.75	
	16QAM	75	0	21.00	20.94	20.78	20.69	
			1	0	21.50	21.20	20.89	21.01
				38	21.50	21.20	20.82	21.12
		74		21.50	21.05	20.75	21.02	
		36	0	20.00	19.88	19.71	19.62	
			18	20.00	19.91	19.73	19.71	
			39	20.00	19.84	19.68	19.68	
		75	0	20.00	19.84	19.74	19.70	
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20050	20175	20300	
					1720.0MHz	1732.5MHz	1745.0MHz	
20MHz	QPSK	1	0	22.00	21.80	21.61	21.43	
			50	22.00	21.93	21.80	21.70	
			99	22.00	21.55	21.45	21.41	
		50	0	21.00	20.86	20.72	20.55	
			25	21.00	20.89	20.77	20.61	
			50	21.00	20.78	20.71	20.64	
	16QAM	100	0	21.00	20.84	20.72	20.60	
			1	0	21.50	21.36	20.84	20.77
				50	22.00	21.52	21.07	20.97
		99		21.50	21.11	20.66	20.73	
		50	0	20.00	19.86	19.78	19.54	
			25	20.00	19.93	19.74	19.63	
			50	20.00	19.81	19.70	19.64	
		100	0	20.00	19.86	19.77	19.63	

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	22.51	22.46	22.38
			2	23.00	22.60	22.55	22.44
			5	22.50	22.48	22.46	22.34
		3	0	23.00	22.53	22.56	22.52
			2	23.00	22.59	22.61	22.51
			3	23.00	22.57	22.56	22.49
	6	0	22.00	21.49	21.53	21.46	
	16QAM	1	0	22.00	21.48	21.60	21.39
			2	22.00	21.58	21.77	21.47
			5	22.00	21.56	21.62	21.37
		3	0	22.00	21.68	21.57	21.65
			2	22.00	21.61	21.51	21.70
			3	22.00	21.62	21.55	21.67
		6	0	21.00	20.44	20.52	20.45
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20415	20525
	825.5MHz					836.5MHz	847.5MHz
3MHz	QPSK	1	0	23.00	22.64	22.51	22.53
			7	23.00	22.74	22.67	22.65
			14	23.00	22.54	22.52	22.40
		8	0	22.00	21.55	21.53	21.52
			4	22.00	21.60	21.61	21.55
			7	22.00	21.54	21.55	21.49
	15	0	22.00	21.54	21.57	21.52	
	16QAM	1	0	22.50	21.58	21.68	22.02
			7	22.50	21.75	21.86	22.14
			14	22.00	21.51	21.70	21.96
		8	0	21.00	20.61	20.54	20.69
			4	21.00	20.70	20.56	20.72
			7	21.00	20.60	20.55	20.67
		15	0	21.00	20.62	20.56	20.59
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	22.50	22.46	22.41	22.41
			13	23.00	22.58	22.58	22.54
			24	22.50	22.44	22.42	22.38
		12	0	22.00	21.55	21.56	21.50
			6	22.00	21.56	21.57	21.57
			13	22.00	21.46	21.55	21.41
	25	0	22.00	21.49	21.56	21.46	
	16QAM	1	0	22.00	21.55	21.67	21.26
			13	22.00	21.66	21.83	21.35
			24	22.00	21.49	21.70	21.23
		12	0	21.00	20.48	20.58	20.51
			6	21.00	20.57	20.63	20.57
			13	21.00	20.48	20.60	20.40
		25	0	21.00	20.54	20.57	20.53

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20450	20525	20600
					829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	23.00	22.55	22.51	22.51
			25	23.00	22.74	22.69	22.67
			49	23.00	22.56	22.50	22.46
		25	0	22.00	21.52	21.61	21.59
			13	22.00	21.50	21.59	21.52
			25	22.00	21.44	21.61	21.40
		50	0	22.00	21.50	21.61	21.51
			0	22.50	21.54	21.66	22.04
			25	22.50	21.66	21.86	22.16
	16QAM	1	49	22.50	21.50	21.67	22.00
			0	21.00	20.65	20.67	20.68
			13	21.00	20.61	20.65	20.61
		25	25	21.00	20.56	20.66	20.51
			0	21.00	20.54	20.63	20.56
			0	21.00	20.54	20.63	20.56
		50	0	21.00	20.54	20.63	20.56

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	21.72	21.97	22.43			
			13	23.00	21.89	22.14	22.58			
			24	23.00	21.70	22.07	22.50			
		12	0	22.00	20.75	21.06	21.52			
			6	22.00	20.86	21.14	21.59			
			13	22.00	20.84	21.11	21.54			
		25	0	22.00	20.81	21.07	21.52			
			16QAM	1	0	22.00	20.57	20.99	21.64	
					13	22.00	20.69	21.18	21.81	
	24	22.00			20.61	21.09	21.68			
	12	0		21.00	19.71	19.97	20.50			
		6		21.00	19.83	20.05	20.57			
		13		21.00	19.80	20.06	20.54			
	25	0		20.50	19.81	20.03	20.49			
		Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20800	21100	21400
								2505.0MHz	2535.0MHz	2565.0MHz
10MHz	QPSK	1	0	22.50	21.87	21.95	22.46			
			25	23.00	22.09	22.25	22.70			
			49	23.00	21.87	22.15	22.57			
		25	0	22.00	20.83	21.11	21.55			
			13	22.00	20.86	21.14	21.60			
			25	22.00	20.85	21.12	21.57			
		50	0	22.00	20.84	21.09	21.53			
			16QAM	1	0	22.00	20.82	21.08	21.94	
					25	22.50	21.01	21.42	22.11	
	49	22.50			20.77	21.32	22.00			
	25	0		21.00	19.88	20.09	20.55			
		13		21.00	19.92	20.11	20.60			
		25		21.00	19.91	20.15	20.60			
	50	0		21.00	19.83	20.05	20.51			

LTE-FDD Band 7				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20825	21100	21375
					2507.5MHz	2535.0MHz	2562.5MHz
15MHz	QPSK	1	0	22.50	21.78	21.85	22.30
			38	23.00	21.89	22.09	22.51
			74	22.50	21.79	22.07	22.48
		38	0	22.00	20.89	21.10	21.54
			18	22.00	20.93	21.19	21.58
			39	22.00	20.95	21.19	21.60
		75	0	22.00	20.89	21.13	21.52
	16QAM	1	0	22.00	21.06	20.98	21.81
			38	22.00	21.16	21.24	21.97
			74	22.00	21.09	21.21	21.91
		38	0	20.50	19.80	19.95	20.47
			18	21.00	19.80	20.09	20.52
			39	21.00	19.80	20.12	20.53
		75	0	20.50	19.83	20.08	20.47
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20850	21100	21350
					2510.0MHz	2535.0MHz	2560.0MHz
20MHz	QPSK	1	0	22.50	21.65	21.80	22.24
			50	23.00	21.93	22.26	22.63
			99	22.50	21.69	22.10	22.44
		50	0	21.50	20.72	20.88	21.39
			25	21.50	20.86	21.15	21.48
			50	21.50	20.83	21.04	21.44
		100	0	21.50	20.81	20.99	21.48
	16QAM	1	0	22.00	21.15	20.92	21.50
			50	22.00	21.43	21.38	21.85
			99	22.00	21.20	21.28	21.67
		50	0	20.50	19.67	19.91	20.38
			25	20.50	19.79	20.04	20.41
			50	20.50	19.77	20.02	20.37
		100	0	20.50	19.81	19.98	20.41

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	715.3MHz
1.4MHz	QPSK	1	0	22.00	21.58	21.53	21.56
			2	22.00	21.67	21.61	21.73
			5	22.00	21.65	21.51	21.60
		3	0	22.00	21.65	21.69	21.63
			2	22.00	21.75	21.71	21.72
			3	22.00	21.74	21.68	21.64
		6	0	21.00	20.66	20.68	20.61
	16QAM	1	0	21.00	20.70	20.61	20.57
			2	21.00	20.88	20.78	20.63
			5	21.00	20.88	20.60	20.61
		3	0	21.00	20.63	20.94	20.64
			2	21.00	20.75	20.96	20.65
			3	21.00	20.77	20.85	20.61
		6	0	20.00	19.74	19.74	19.60

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23025	23095	23165
					700.5MHz	707.5MHz	714.5MHz
3MHz	QPSK	1	0	22.00	21.69	21.62	21.63
			7	22.00	21.94	21.77	21.76
			14	22.00	21.77	21.60	21.64
		8	0	21.00	20.70	20.73	20.71
			4	21.00	20.83	20.73	20.69
			7	21.00	20.88	20.69	20.60
		15	0	21.00	20.76	20.74	20.69
	16QAM	1	0	21.50	20.68	20.89	21.15
			7	21.50	20.99	21.00	21.27
			14	21.50	20.79	20.86	21.06
		8	0	20.00	19.80	19.73	19.87
			4	20.00	19.92	19.73	19.93
			7	20.00	19.94	19.71	19.85
		15	0	20.00	19.85	19.74	19.80
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23035	23095	23155
					701.5MHz	707.5MHz	713.5MHz
5MHz	QPSK	1	0	22.00	21.56	21.54	21.47
			13	22.00	21.79	21.66	21.62
			24	22.00	21.63	21.54	21.53
		12	0	21.00	20.61	20.75	20.64
			6	21.00	20.87	20.77	20.73
			13	21.00	20.81	20.79	20.46
		25	0	21.00	20.70	20.76	20.55
	16QAM	1	0	21.00	20.69	20.85	20.40
			13	21.50	20.89	21.03	20.48
			24	21.00	20.76	20.88	20.35
		12	0	20.00	19.62	19.83	19.62
			6	20.00	19.84	19.84	19.75
			13	20.00	19.78	19.79	19.50
		25	0	20.00	19.74	19.80	19.67
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23060	23095	23130
					704.0MHz	707.5MHz	711.0MHz
10MHz	QPSK	1	0	22.00	21.63	21.64	21.56
			25	22.00	21.89	21.77	21.73
			49	22.00	21.66	21.55	21.61
		25	0	21.50	20.69	21.00	20.67
			13	21.00	20.80	20.78	20.74
			25	21.00	20.67	20.94	20.58
		50	0	21.00	20.70	20.98	20.63
	16QAM	1	0	21.50	20.65	20.86	21.21
			25	21.50	20.90	21.05	21.34
			49	21.50	20.74	20.82	21.05
		25	0	20.50	19.79	20.05	19.77
			13	20.00	19.89	19.86	19.84
			25	20.50	19.75	20.00	19.67
		50	0	20.00	19.74	19.98	19.71

Band 13

LTE-FDD 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	22.50	22.40	22.36	22.37
			13	23.00	22.55	22.52	22.46
			24	22.50	22.41	22.40	22.48
		12	0	22.00	21.50	21.42	21.48
			6	22.00	21.49	21.53	21.54
			13	22.00	21.48	21.58	21.44
		25	0	22.00	21.48	21.51	21.44
	16QAM	1	0	22.00	21.18	21.48	21.66
			13	22.00	21.36	21.64	21.82
			24	22.00	21.28	21.48	21.76
		12	0	21.00	20.54	20.44	20.55
			6	21.00	20.55	20.60	20.68
			13	21.00	20.52	20.68	20.55
		25	0	21.00	20.60	20.64	20.53
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23230		
					782.0MHz		
10MHz	QPSK	1	0	22.50	22.40		
			25	23.00	22.67		
			49	23.00	22.51		
		25	0	22.00	21.52		
			13	22.00	21.60		
			25	22.00	21.59		
		50	0	22.00	21.58		
	16QAM	1	0	22.00	21.95		
			25	22.50	22.23		
			49	22.50	22.12		
		25	0	21.00	20.68		
			13	21.00	20.72		
			25	21.00	20.69		
		50	0	21.00	20.71		

Band 17

LTE-FDD Band 17				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23755	23790	23825
					706.5MHz	710MHz	713.5MHz
5MHz	QPSK	1	0	22.00	21.65	21.56	21.52
			13	22.00	21.78	21.71	21.64
			24	22.00	21.56	21.54	21.55
		12	0	21.00	20.90	20.68	20.65
			6	21.00	20.85	20.78	20.73
			13	21.00	20.79	20.79	20.46
		25	0	21.00	20.84	20.76	20.56
	16QAM	1	0	21.00	20.51	20.75	20.85
			13	21.00	20.68	20.84	20.93
			24	21.00	20.55	20.70	20.73
		12	0	20.00	19.91	19.72	19.61
			6	20.00	19.87	19.76	19.77
			13	20.00	19.76	19.74	19.51
		25	0	20.00	19.92	19.78	19.58

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23780	23790	23800
					709MHz	710MHz	711MHz
10MHz	QPSK	1	0	22.00	21.73	21.66	21.63
			25	22.00	21.86	21.74	21.79
			49	22.00	21.67	21.58	21.65
		25	0	21.00	20.93	20.78	20.71
			13	21.00	20.80	20.74	20.76
			25	21.00	20.92	20.80	20.58
		50	0	21.00	20.94	20.80	20.69
			0	21.50	20.74	20.86	21.24
			25	21.50	20.92	21.05	21.37
	16QAM	1	49	21.50	20.70	20.84	21.10
			0	20.50	20.07	19.85	19.84
			13	20.00	19.90	19.83	19.83
		25	25	20.50	20.05	19.84	19.66
			0	20.50	20.01	19.84	19.72
			0	20.50	20.01	19.84	19.72
		50	0	20.50	20.01	19.84	19.72

Band 25

LTE-FDD Band 25				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26047	26365	26683
					1850.7MHz	1882.5MHz	1914.3MHz
1.4MHz	QPSK	1	0	21.50	21.35	21.36	21.01
			2	22.00	21.50	21.48	21.12
			5	21.50	21.31	21.37	20.97
		3	0	22.00	21.42	21.51	21.20
			2	22.00	21.43	21.58	21.18
			3	21.50	21.43	21.49	21.16
		6	0	20.50	20.35	20.40	20.09
	16QAM	1	0	21.00	20.36	20.54	20.00
			2	21.00	20.44	20.69	20.13
			5	21.00	20.34	20.56	20.02
		3	0	21.00	20.50	20.49	20.34
			2	21.00	20.51	20.54	20.39
			3	21.00	20.49	20.54	20.36
		6	0	20.00	19.39	19.56	19.20
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26055	26365	26675
					1851.5MHz	1882.5MHz	1913.5MHz
3MHz	QPSK	1	0	21.50	21.33	21.37	21.00
			7	22.00	21.46	21.54	21.19
			14	21.50	21.30	21.34	21.03
		8	0	20.50	20.27	20.40	20.05
			4	20.50	20.36	20.42	20.09
			7	20.50	20.30	20.41	20.04
		15	0	20.50	20.29	20.39	20.07
	16QAM	1	0	21.00	20.38	20.59	20.67
			7	21.00	20.47	20.73	20.76
			14	21.00	20.30	20.56	20.57
		8	0	20.00	19.44	19.52	19.35
			4	20.00	19.50	19.54	19.38
			7	19.50	19.46	19.48	19.31
		15	0	20.00	19.46	19.51	19.23

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26065	26365	26665
					1852.5MHz	1882.5MHz	1912.5MHz
5MHz	QPSK	1	0	21.50	21.24	21.40	21.03
			13	21.50	21.37	21.47	21.12
			24	21.50	21.19	21.32	20.97
		12	0	20.50	20.25	20.41	20.11
			6	21.00	20.36	20.53	20.14
			13	20.50	20.42	20.49	20.08
	25	0	20.50	20.32	20.43	20.13	
	16QAM	1	0	21.00	20.36	20.69	19.94
			13	21.00	20.44	20.74	20.02
			24	21.00	20.27	20.62	19.86
		12	0	20.00	19.32	19.56	19.21
			6	20.00	19.43	19.66	19.26
			13	20.00	19.40	19.61	19.17
		25	0	20.00	19.43	19.55	19.27
LTE-FDD Band 25				Conducted Power(dBm)			
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26090	26365
	1855.0MHz					1882.5MHz	1910.0MHz
10MHz	QPSK	1	0	21.50	21.33	21.39	21.10
			25	22.00	21.53	21.61	21.30
			49	21.50	21.33	21.36	21.02
		25	0	20.50	20.19	20.44	20.21
			13	21.00	20.34	20.51	20.19
			25	21.00	20.39	20.54	20.17
	50	0	21.00	20.29	20.50	20.21	
	16QAM	1	0	21.00	20.31	20.57	20.66
			25	21.00	20.48	20.78	20.87
			49	21.00	20.28	20.52	20.58
		25	0	20.00	19.36	19.60	19.36
			13	20.00	19.53	19.65	19.35
			25	20.00	19.51	19.62	19.33
		50	0	20.00	19.45	19.60	19.34
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26115	26365
	1857.5MHz					1882.5MHz	1907.5MHz
15MHz	QPSK	1	0	21.50	21.22	21.38	21.12
			38	21.50	21.42	21.48	21.21
			74	21.50	21.24	21.28	21.05
		36	0	20.50	20.30	20.48	20.29
			18	21.00	20.44	20.53	20.26
			39	20.50	20.40	20.48	20.23
	75	0	21.00	20.32	20.53	20.28	
	16QAM	1	0	21.00	20.65	20.55	20.69
			38	21.00	20.69	20.71	20.82
			74	21.00	20.66	20.44	20.59
		36	0	20.00	19.35	19.56	19.40
			18	20.00	19.43	19.58	19.37
			39	20.00	19.39	19.54	19.28
		75	0	20.00	19.34	19.57	19.35

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26140	26365	26590
					1860.0MHz	1882.5MHz	1905.0MHz
20MHz	QPSK	1	0	21.50	21.19	21.35	21.11
			50	22.00	21.50	21.64	21.37
			99	21.50	21.22	21.22	20.95
		50	0	21.00	20.16	20.45	20.50
			25	21.00	20.34	20.51	20.26
			50	20.50	20.25	20.46	20.22
		100	0	20.50	20.22	20.44	20.34
			0	21.00	20.74	20.58	20.43
			50	21.00	20.99	20.84	20.67
	16QAM	1	99	21.00	20.83	20.42	20.29
			0	20.00	19.26	19.56	19.54
			25	20.00	19.43	19.62	19.39
		50	50	20.00	19.34	19.58	19.32
			0	20.00	19.31	19.57	19.45

Band 26 Part 90

LTE-FDD Band 26 Part 90				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26697	26740	26783
					814.7MHz	819.0MHz	823.3MHz
1.4MHz	QPSK	1	0	23.00	22.65	22.56	22.50
			2	23.00	22.71	22.67	22.60
			5	23.00	22.59	22.52	22.53
		3	0	23.00	22.62	22.61	22.59
			2	23.00	22.63	22.69	22.67
			3	23.00	22.59	22.65	22.61
		6	0	22.00	21.64	21.56	21.58
	16QAM	1	0	22.00	21.46	21.52	21.70
			2	22.00	21.56	21.64	21.80
			5	22.00	21.44	21.60	21.69
		3	0	22.00	21.74	21.67	21.61
			2	22.00	21.74	21.68	21.65
			3	22.00	21.70	21.67	21.62
		6	0	21.00	20.58	20.52	20.61
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26705	26740	26775
					815.5MHz	819.0MHz	822.5MHz
3MHz	QPSK	1	0	23.00	22.82	22.63	22.65
			7	23.00	22.89	22.75	22.72
			14	23.00	22.70	22.58	22.56
		8	0	22.00	21.69	21.63	21.58
			4	22.00	21.71	21.66	21.63
			7	22.00	21.68	21.60	21.56
		15	0	22.00	21.63	21.61	21.61
	16QAM	1	0	22.50	21.67	21.79	22.20
			7	22.50	21.78	21.94	22.27
			14	22.50	21.62	21.77	22.17
		8	0	21.00	20.69	20.60	20.76
			4	21.00	20.74	20.66	20.83
			7	21.00	20.68	20.62	20.78
		15	0	21.00	20.66	20.63	20.70

LTE-FDD Band 26 Part 90				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26715	26740	26765
					816.5MHz	819.0MHz	821.5MHz
5MHz	QPSK	1	0	23.00	22.67	22.56	22.54
			13	23.00	22.69	22.67	22.65
			24	23.00	22.55	22.51	22.51
		12	0	22.00	21.63	21.57	21.61
			6	22.00	21.68	21.67	21.66
			13	22.00	21.61	21.60	21.64
	25	0	22.00	21.62	21.61	21.59	
	16QAM	1	0	22.00	21.61	21.71	21.40
			13	22.00	21.70	21.90	21.52
			24	22.00	21.65	21.78	21.43
		12	0	21.00	20.55	20.61	20.62
			6	21.00	20.64	20.72	20.69
			13	21.00	20.59	20.64	20.59
		25	0	21.00	20.61	20.63	20.68
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26740	
	819.0MHz						
10MHz	QPSK	1	0	23.00	22.84		
			25	23.00	22.92		
			49	23.00	22.70		
		25	0	22.00	21.72		
			13	22.00	21.76		
			25	22.00	21.77		
	50	0	22.00	21.78			
	16QAM	1	0	22.50	22.09		
			25	22.50	22.32		
			49	22.50	22.24		
		25	0	21.00	20.76		
			13	21.00	20.82		
			25	21.00	20.82		
		50	0	21.00	20.76		

Band 26 Part 22

LTE-FDD Band 26 Part 22				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		26797	26915	27033	
					824.7MHz	836.5MHz	848.3MHz	
1.4MHz	QPSK	1	0	23.00	22.69	22.57	22.61	
			2	23.00	22.77	22.71	22.69	
			5	23.00	22.61	22.56	22.61	
		3	0	23.00	22.73	22.70	22.67	
			2	23.00	22.76	22.72	22.65	
			3	23.00	22.80	22.69	22.65	
		6	0	22.00	21.66	21.65	21.58	
		16QAM	1	0	22.00	21.61	21.71	21.56
				2	22.00	21.71	21.83	21.65
	5			22.00	21.65	21.80	21.59	
	3		0	22.00	21.79	21.62	21.66	
			2	22.00	21.77	21.64	21.69	
			3	22.00	21.73	21.65	21.66	
	6		0	21.00	20.59	20.62	20.53	

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26805	26915	27025
					825.5MHz	836.5MHz	847.5MHz
3MHz	QPSK	1	0	23.00	22.77	22.60	22.66
			7	23.00	22.86	22.75	22.74
			14	23.00	22.65	22.59	22.56
		8	0	22.00	21.67	21.64	21.65
			4	22.00	21.69	21.66	21.67
			7	22.00	21.66	21.63	21.59
		15	0	22.00	21.65	21.65	21.63
	16QAM	1	0	22.50	21.73	21.79	22.12
			7	22.50	21.85	21.95	22.22
			14	22.50	21.66	21.81	22.07
		8	0	21.00	20.73	20.62	20.79
			4	21.00	20.79	20.67	20.84
			7	21.00	20.72	20.63	20.76
		15	0	21.00	20.73	20.64	20.70
LTE-FDD Band 26 Part 22				Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26815	26915	27015
					826.5MHz	836.5MHz	846.5MHz
5MHz	QPSK	1	0	23.00	22.61	22.50	22.49
			13	23.00	22.67	22.63	22.64
			24	23.00	22.56	22.53	22.48
		12	0	22.00	21.61	21.61	21.65
			6	22.00	21.65	21.67	21.66
			13	22.00	21.60	21.63	21.54
		25	0	22.00	21.63	21.65	21.56
	16QAM	1	0	22.00	21.68	21.76	21.38
			13	22.00	21.77	21.93	21.46
			24	22.00	21.62	21.83	21.36
		12	0	21.00	20.59	20.68	20.63
			6	21.00	20.67	20.73	20.67
			13	21.00	20.55	20.66	20.50
		25	0	21.00	20.63	20.69	20.65
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26840	26915	26990
					829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	23.00	22.70	22.59	22.55
			25	23.00	22.83	22.75	22.78
			49	23.00	22.61	22.57	22.55
		25	0	22.00	21.69	21.73	21.70
			13	22.00	21.62	21.67	21.68
			25	22.00	21.58	21.66	21.50
		50	0	22.00	21.61	21.69	21.62
	16QAM	1	0	22.50	21.62	21.69	22.10
			25	22.50	21.79	21.95	22.27
			49	22.50	21.57	21.79	22.07
		25	0	21.00	20.75	20.77	20.80
			13	21.00	20.73	20.73	20.74
			25	21.00	20.65	20.74	20.63
		50	0	21.00	20.63	20.76	20.68

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26865	26915	26965
					831.5MHz	836.5MHz	841.5MHz
15MHz	QPSK	1	0	23.00	22.57	22.54	22.50
			38	23.00	22.69	22.65	22.63
			74	23.00	22.56	22.57	22.51
		36	0	22.00	21.70	21.74	21.66
			18	22.00	21.75	21.73	21.65
			39	22.00	21.70	21.68	21.66
		75	0	22.00	21.70	21.72	21.65
	16QAM	1	0	22.50	21.91	21.68	22.03
			38	22.50	21.94	21.80	22.15
			74	22.50	21.93	21.73	22.06
		36	0	21.00	20.67	20.70	20.65
			18	21.00	20.67	20.70	20.67
			39	21.00	20.65	20.70	20.64
		75	0	21.00	20.66	20.69	20.65

Band 30

LTE-FDD Band 30				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		27685	27710	27735
					2307.5MHz	2310.0MHz	2312.5MHz
5MHz	QPSK	1	0	22.00	21.55	21.53	21.49
			12	22.00	21.73	21.51	21.61
			24	22.00	21.68	21.52	21.60
		12	0	21.00	20.77	20.57	20.62
			6	21.00	20.67	20.54	20.58
			13	21.00	20.60	20.55	20.56
		25	0	21.00	20.59	20.60	20.56
	16QAM	1	0	21.00	20.62	20.68	20.63
			12	21.00	20.65	20.85	20.73
			24	21.00	20.55	20.71	20.67
		12	0	20.00	19.58	19.53	19.47
			6	20.00	19.61	19.65	19.57
			13	19.50	19.39	19.48	19.47
		25	0	20.00	19.48	19.65	19.54
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	27710
2310.0MHz							
10MHz	QPSK	1	0	22.00	21.70		
			25	22.00	21.71		
			49	22.00	21.64		
		25	0	21.00	20.55		
			13	21.00	20.54		
			25	20.50	20.48		
		50	0	21.00	20.50		
	16QAM	1	0	21.00	20.81		
			25	21.00	20.75		
			49	21.00	20.66		
		25	0	20.00	19.56		
			13	20.00	19.59		
			25	20.00	19.51		
		50	0	19.50	19.49		

Band 38

LTE-TDD Band 38				Maximum Tune-up(dBm)	Conducted Power(dBm)				
Bandwidth	Modulation	RB allocation	RB offset		37775	38000	38225		
					2572.5MHz	2595.0MHz	2617.5MHz		
5MHz	QPSK	1	0	22.00	21.69	21.75	21.80		
			13	22.50	22.01	21.96	21.89		
			24	22.00	21.81	21.77	21.73		
		12	0	21.00	20.77	20.93	20.75		
			6	21.00	20.96	20.93	20.90		
			13	21.00	20.78	20.86	20.87		
		25	0	21.00	20.89	20.90	20.79		
			16QAM	1	0	21.50	20.77	20.92	21.03
					13	21.00	20.94	20.71	20.85
	24	21.00			20.98	20.80	20.82		
	12	0		20.00	19.82	19.81	19.74		
		6		20.50	19.85	20.07	20.02		
		13		20.00	19.83	19.79	19.77		
	25	0		20.00	19.90	19.86	19.79		
		Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	37800	38000
2575.00MHz								2595.00MHz	2615.00MHz
10MHz	QPSK	1	0	22.00	21.97	21.96	21.80		
			25	22.50	22.09	22.07	22.09		
			49	22.00	21.81	21.85	21.81		
		25	0	21.00	20.95	20.92	20.87		
			13	21.00	20.99	20.85	20.83		
			25	21.00	20.94	20.83	20.77		
		50	0	21.00	20.94	20.85	20.91		
	16QAM	1	0	21.00	20.80	20.74	20.90		
			25	21.50	20.75	20.93	21.14		
			49	21.00	20.76	20.71	20.93		
		25	0	20.50	19.96	19.97	20.02		
			13	20.50	20.01	19.94	19.95		
			25	20.00	19.93	19.92	19.92		
		50	0	20.00	19.91	19.96	19.96		
			LTE-TDD Band 38				Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	37825	38000	38175		
					2577.5MHz	2595.0MHz	2612.5MHz		
15MHz	QPSK	1	0	22.00	21.92	21.86	21.73		
			38	22.50	21.92	22.01	21.97		
			74	22.00	21.86	21.84	21.76		
		36	0	21.00	20.96	20.88	20.85		
			18	21.00	20.98	20.94	20.85		
			39	21.00	20.89	20.81	20.79		
		75	0	21.00	20.94	20.93	20.80		
	16QAM	1	0	21.00	20.92	20.65	20.80		
			38	21.00	20.75	20.79	20.99		
			74	21.00	20.59	20.62	20.82		
		36	0	20.50	20.01	19.85	19.87		
			18	20.00	19.87	19.90	19.93		
			39	20.00	19.86	19.85	19.87		
		75	0	20.00	19.81	19.95	19.85		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	37850	38000	38150
					2580.0MHz	2595.0MHz	2610.0MHz
20MHz	QPSK	1	0	22.00	21.72	21.74	21.79
			50	22.50	22.06	21.99	22.07
			99	22.00	21.81	21.81	21.68
		50	0	21.00	20.93	20.97	20.93
			25	21.00	20.91	20.85	20.79
			50	21.00	20.83	20.74	20.65
		100	0	21.00	20.88	20.88	20.81
	16QAM	1	0	21.00	20.82	20.45	20.77
			50	21.50	20.53	20.85	21.06
			99	21.00	20.85	20.58	20.78
		50	0	20.00	19.89	19.95	19.97
			25	20.00	19.86	19.97	19.96
			50	20.00	19.82	19.84	19.75
		100	0	20.00	19.87	19.95	19.84

Band 41

LTE-TDD Band 41				Maximum Tune-up(dBm)	Conducted Power(dBm)				
Bandwidth	Modulation	RB allocation	RB offset		40065	40640	41215		
					2537.5MHz	2595.0MHz	2652.5MHz		
5MHz	QPSK	1	0	22.00	21.43	21.74	21.50		
			13	22.00	21.53	21.74	21.61		
			24	22.00	21.57	21.54	21.45		
		12	0	21.00	20.41	20.77	20.58		
			6	21.00	20.51	20.73	20.83		
			13	21.00	20.45	20.72	20.54		
		25	0	21.00	20.53	20.70	20.84		
			16QAM	1	0	21.00	20.72	20.67	20.45
					13	21.00	20.57	20.99	20.57
	24	21.00			20.52	20.65	20.68		
	12	0		20.00	19.35	19.76	19.56		
		6		20.00	19.57	19.80	19.72		
		13		20.00	19.35	19.71	19.57		
	25	0	20.00	19.47	19.75	19.77			
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	40090	40640	41190	
						2540.0MHz	2595.0MHz	2650.0MHz	
10MHz	QPSK	1	0	22.00	21.47	21.86	21.75		
			25	22.00	21.78	21.86	21.94		
			49	22.00	21.60	21.73	21.75		
		25	0	21.00	20.50	20.78	20.89		
			13	21.00	20.61	20.73	20.66		
			25	21.00	20.68	20.68	20.81		
		50	0	21.00	20.62	20.75	20.81		
			16QAM	1	0	21.00	20.37	20.64	20.82
					25	21.00	20.60	20.80	20.79
	49	21.00			20.55	20.58	20.77		
	25	0		20.00	19.60	19.94	19.71		
		13		20.00	19.58	19.80	19.79		
		25		20.00	19.66	19.83	19.64		
	50	0	20.00	19.50	19.77	19.76			

LTE-TDD Band 41				Maximum Tune-up(dBm)	Conducted Power(dBm)				
Bandwidth	Modulation	RB allocation	RB offset		40115	40640	41165		
					2542.5MHz	2595.0MHz	2647.5MHz		
15MHz	QPSK	1	0	22.00	21.38	21.69	21.59		
			38	22.00	21.68	21.74	21.68		
			74	22.00	21.63	21.60	21.51		
		36	0	21.00	20.55	20.88	20.73		
			18	21.00	20.62	20.91	20.70		
			39	21.00	20.70	20.70	20.83		
		75	0	21.00	20.56	20.84	20.71		
			16QAM	1	0	21.00	20.71	20.51	20.75
					38	21.00	20.91	20.55	20.75
	74	21.00			20.71	20.52	20.53		
	36	0		20.00	19.59	19.80	19.78		
		18		20.00	19.52	19.84	19.69		
		39		20.00	19.69	19.71	19.63		
	75	0		20.00	19.52	19.82	19.67		
	Bandwidth	Modulation		RB allocation	RB offset	Maximum Tune-up(dBm)	40140	40640	41140
							2545.0MHz	2595.0MHz	2645.0MHz
	20MHz	QPSK	1	0	22.00	21.41	21.66	21.70	
				50	22.00	21.75	21.79	21.92	
99				22.00	21.65	21.68	21.64		
50			0	21.00	20.55	20.73	20.67		
			25	21.00	20.58	20.74	20.80		
			50	21.00	20.64	20.56	20.58		
100			0	21.00	20.63	20.64	20.66		
			16QAM	1	0	21.50	20.45	20.77	21.00
					50	21.00	20.92	20.71	20.89
99		21.00			20.70	20.25	20.64		
50		0		20.00	19.46	19.88	19.80		
		25		20.00	19.60	19.81	19.67		
		50		20.00	19.69	19.63	19.69		
100		0		20.00	19.61	19.73	19.65		

Band 66

LTE-FDD Band 66				Maximum Tune-up(dBm)	Conducted Power(dBm)				
Bandwidth	Modulation	RB allocation	RB offset		131979	132322	132665		
					1710.7MHz	1745.0MHz	1779.3MHz		
1.4MHz	QPSK	1	0	22.50	22.00	21.70	21.67		
			2	22.50	22.10	21.80	21.79		
			5	22.00	21.95	21.66	21.64		
		3	0	22.50	22.04	21.79	21.71		
			2	22.50	22.07	21.79	21.77		
			3	22.50	22.06	21.74	21.75		
		6	0	21.50	21.06	20.80	20.73		
			16QAM	1	0	21.50	21.05	20.68	20.70
					2	21.50	21.13	20.81	20.81
	5	21.50			21.10	20.69	20.75		
	3	0		21.50	21.17	20.97	20.85		
		2		21.50	21.16	21.03	20.83		
		3		21.50	21.16	20.99	20.81		
	6	0		20.50	20.00	19.79	19.68		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131987	132322	132657
					1711.5MHz	1745.0MHz	1778.5MHz
3MHz	QPSK	1	0	22.50	22.05	21.63	21.71
			7	22.50	22.17	21.78	21.79
			14	22.00	21.96	21.60	21.59
		8	0	21.50	21.06	20.72	20.73
			4	21.50	21.08	20.76	20.76
			7	21.50	21.02	20.70	20.67
		15	0	21.50	21.04	20.71	20.76
			0	21.50	21.09	20.83	21.27
			7	21.50	21.21	20.99	21.40
	16QAM	1	14	21.50	21.04	20.81	21.18
			0	20.50	20.13	19.68	19.93
			4	20.50	20.16	19.69	19.93
		8	7	20.50	20.10	19.68	19.89
			0	20.50	20.11	19.66	19.85
			0	20.50	20.11	19.66	19.85
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131997	132322	132647
					1712.5MHz	1745.0MHz	1777.5MHz
5MHz	QPSK	1	0	22.00	21.87	21.51	21.52
			13	22.50	22.00	21.63	21.64
			24	22.00	21.80	21.50	21.47
		12	0	21.00	20.99	20.65	20.72
			6	21.50	21.04	20.70	20.75
			13	21.50	21.01	20.68	20.64
		25	0	21.00	20.97	20.65	20.69
			0	21.50	21.03	20.81	20.44
			13	21.50	21.14	20.93	20.55
	16QAM	1	24	21.00	20.92	20.78	20.43
			0	20.00	19.92	19.66	19.68
			6	20.50	20.04	19.76	19.77
		12	13	20.50	20.01	19.72	19.65
			0	20.50	20.03	19.65	19.74
			0	20.50	20.03	19.65	19.74
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132022	132322	132622
					1715.0MHz	1745.0MHz	1775.0MHz
10MHz	QPSK	1	0	22.00	21.99	21.59	21.58
			25	22.50	22.14	21.78	21.75
			49	22.00	21.85	21.58	21.49
		25	0	21.50	21.00	20.68	20.77
			13	21.50	21.03	20.72	20.78
			25	21.50	21.01	20.74	20.71
		50	0	21.50	21.02	20.73	20.74
			0	21.50	21.04	20.80	21.24
			25	21.50	21.18	20.98	21.42
	16QAM	1	49	21.50	20.91	20.78	21.14
			0	20.50	20.09	19.71	19.86
			13	20.50	20.13	19.75	19.85
		25	25	20.50	20.16	19.76	19.79
			0	20.50	20.05	19.73	19.84
			0	20.50	20.05	19.73	19.84

LTE-FDD Band 66				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		132047	132322	132597	
					1717.5MHz	1745.0MHz	1772.5MHz	
15MHz	QPSK	1	0	22.00	21.89	21.52	21.56	
			38	22.00	21.96	21.62	21.65	
			74	22.00	21.66	21.53	21.49	
		36	0	21.50	21.02	20.74	20.79	
			18	21.50	21.00	20.78	20.82	
			39	21.00	20.92	20.81	20.74	
		75	0	21.00	20.97	20.76	20.81	
			0	21.50	21.34	20.78	21.24	
			38	21.50	21.34	20.82	21.35	
	16QAM	1	74	21.50	21.16	20.75	21.13	
			36	0	20.00	19.96	19.70	19.82
				18	20.00	19.97	19.73	19.83
		39		20.00	19.91	19.72	19.74	
		75	0	20.00	19.95	19.68	19.79	
			Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132072
1720.0MHz	1745.0MHz	1770.0MHz						
20MHz	QPSK	1	0	22.00	21.82	21.47	21.48	
			50	22.50	22.01	21.77	21.79	
			99	22.00	21.60	21.51	21.42	
		50	0	21.00	20.86	20.58	20.82	
			25	21.00	20.90	20.68	20.77	
			50	21.00	20.82	20.67	20.65	
		100	0	21.00	20.83	20.66	20.74	
			0	21.50	21.36	20.78	20.82	
			50	22.00	21.59	20.95	21.14	
	16QAM	1	99	21.50	21.16	20.73	20.78	
			50	0	20.00	19.92	19.65	19.75
				25	20.00	19.93	19.70	19.74
		50		20.00	19.84	19.72	19.66	
		100	0	20.00	19.91	19.67	19.72	

Band 71

LTE-FDD Band 71				Maximum Tune-up(dBm)	Conducted Power(dBm)				
Bandwidth	Modulation	RB allocation	RB offset		133147	133297	133447		
					665.5MHz	680.5MHz	695.5MHz		
5MHz	QPSK	1	0	22.50	22.29	21.68	21.50		
			13	22.50	22.41	21.78	21.62		
			24	22.50	22.25	21.65	21.47		
		12	0	21.50	21.22	20.76	20.68		
			6	21.50	21.38	20.87	20.76		
			13	21.50	21.43	20.89	20.66		
		25	0	21.50	21.32	20.85	20.70		
			16QAM	1	0	21.50	21.06	20.87	20.83
					13	21.50	21.24	20.99	20.99
	24	21.50			21.14	20.85	20.84		
	12	0		20.50	20.20	19.83	19.73		
		6		20.50	20.39	19.88	19.84		
		13		20.50	20.41	19.84	19.73		
	25	0	20.50	20.36	19.91	19.73			

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133172	133297	133422
					668.0MHz	680.5MHz	693.0MHz
10MHz	QPSK	1	0	22.50	22.35	21.71	21.56
			25	23.00	22.51	21.84	21.78
			49	22.50	22.31	21.68	21.61
		25	0	21.50	21.19	20.81	20.79
			13	21.50	21.34	20.89	20.79
			25	21.50	21.32	20.91	20.69
		50	0	21.50	21.30	20.89	20.75
			0	21.50	21.31	20.93	21.26
			25	22.00	21.51	21.19	21.36
	16QAM	1	49	21.50	21.25	20.96	21.20
			0	20.50	20.27	19.88	19.88
			13	21.00	20.53	19.97	19.87
		25	25	20.50	20.47	19.94	19.84
			0	20.50	20.31	19.94	19.82
			0	20.50	20.31	19.94	19.82
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133197	133297	133397
					670.5MHz	680.5MHz	690.5MHz
15MHz	QPSK	1	0	22.50	22.38	22.08	21.72
			38	22.50	22.49	21.85	21.87
			74	22.00	21.91	21.75	21.70
		36	0	21.50	21.44	20.99	20.87
			18	21.50	21.49	21.01	20.94
			39	21.50	21.38	21.04	20.94
		75	0	21.50	21.42	20.95	20.96
			0	22.00	21.47	21.69	21.19
			38	22.00	21.59	21.54	21.27
	16QAM	1	74	21.50	21.07	21.43	21.09
			0	20.50	20.36	19.94	19.89
			18	21.00	20.55	20.02	19.89
		36	39	20.50	20.31	19.99	19.86
			0	20.50	20.38	19.98	19.90
			0	20.50	20.38	19.98	19.90
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133222	133322	133372
					673.0MHz	683.0MHz	688.0MHz
20MHz	QPSK	1	0	22.50	22.24	21.94	21.70
			50	23.00	22.53	21.96	21.92
			99	22.00	21.75	21.60	21.60
		50	0	21.50	21.34	20.76	20.81
			25	21.50	21.34	20.97	20.90
			50	21.50	21.14	20.93	20.84
		100	0	21.50	21.26	20.86	20.84
			0	22.00	21.46	21.58	21.00
			50	22.00	21.76	21.59	21.19
	16QAM	1	99	21.50	21.09	21.24	20.82
			0	20.50	20.33	19.85	19.91
			25	20.50	20.29	20.00	19.94
		50	50	20.50	20.15	19.94	19.86
			0	20.50	20.27	19.90	19.91
			0	20.50	20.27	19.90	19.91

8.4 Wi-Fi

2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
2.4g Wifi (2.4~2.4835)	802.11b	1	2412	14.89	15.00	No
		6	2437	15.92	16.00	Yes
		11	2462	15.00	15.50	No
	802.11g	1	2412	14.81	15.00	No
		6	2437	15.94	16.00	No
		11	2462	14.83	15.00	No
	802.11n(HT20)	1	2412	14.76	15.00	No
		6	2437	15.83	16.00	No
		11	2462	14.68	15.00	No
	802.11n(HT40)	3	2422	15.79	16.00	No
		6	2437	15.87	16.00	No
		9	2452	15.21	15.50	No

Note: SAR is not required for the following 2.4 GHz OFDM conditions as the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leq 1.2W/kg$.

5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
U-NII-1 (5.150~5.250)	802.11a	36	5180	14.91	15.00	No
		40	5200	14.91	15.00	No
		48	5240	13.01	13.50	No
	802.11n(HT20)	36	5180	14.88	15.00	No
		40	5200	14.81	15.00	No
		48	5240	14.32	14.50	No
	802.11ac(VHT20)	36	5180	14.79	15.00	No
		40	5200	14.84	15.00	No
		48	5240	14.20	14.50	No
	802.11n(HT40)	38	5190	15.08	15.50	No
		46	5230	14.72	15.00	No
	802.11ac(VHT40)	38	5190	14.91	15.00	No
		46	5230	14.64	15.00	No
	802.11ac(VHT80)	42	5210	15.08	15.50	Yes

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
U-NII-2a (5.250~5.350)	802.11a	52	5260	14.19	14.50	No
		56	5300	13.73	14.00	No
		64	5320	13.84	14.00	No
	802.11n(HT20)	52	5260	13.97	14.00	No
		56	5300	13.68	14.00	No
		64	5320	13.64	14.00	No
	802.11ac(VHT20)	52	5260	13.92	14.00	No
		56	5300	13.64	14.00	No
		64	5320	13.58	14.00	No
	802.11n(HT40)	54	5270	14.18	14.50	No
		62	5310	13.93	14.00	No
	802.11ac(VHT40)	54	5270	14.14	14.50	No
		62	5310	13.88	14.00	No
	802.11ac(VHT80)	58	5290	14.45	14.50	Yes

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
U-NII-2c (5.470~5.725)	802.11a	100	5500	13.28	13.50	No
		120	5580	14.02	14.50	No
		140	5700	13.50	14.00	No
	802.11n(HT20)	100	5500	13.25	13.50	No
		120	5580	13.86	14.00	No
		140	5700	13.37	13.50	No
	802.11ac(VHT20)	100	5500	13.06	13.50	No
		120	5580	13.52	14.00	No
		140	5700	13.30	13.50	No
	802.11n(HT40)	102	5510	13.55	14.00	No
		118	5550	13.93	14.00	No
		134	5670	13.80	14.00	No
	802.11ac(VHT40)	102	5510	13.51	14.00	No
		118	5550	13.99	14.00	No
		134	5670	13.33	13.50	No
	802.11ac(VHT80)	106	5530	13.96	14.00	No
		122	5610	14.09	14.50	Yes

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
U-NII-3 (5.725~5.850)	802.11a	149	5745	14.76	15.00	No
		157	5785	14.13	14.50	No
		165	5825	14.46	14.50	No
	802.11n(HT20)	149	5745	14.54	15.00	No
		157	5785	13.98	14.00	No
		165	5825	14.20	14.50	No
	802.11ac(VHT20)	149	5745	14.44	14.50	No
		157	5785	13.92	14.00	No
		165	5825	14.02	14.50	No
	802.11n(HT40)	151	5755	14.58	15.00	No
		159	5795	14.41	14.50	No
	802.11ac(VHT40)	151	5755	14.54	15.00	No
		159	5795	14.31	14.50	No
	802.11ac(VHT80)	155	5775	15.15	15.50	Yes

8.5 Bluetooth

EDR	Mode	Maximum Tune-up(dBm)	Conducted Output Power (dBm)		
			0	39	78
			2402MHz	2441MHz	2480MHz
	GFSK	3.00	1.09	2.73	2.69
	$\pi/4$ QPSK	2.00	0.29	1.93	1.86
BLE	8DPSK	2.50	0.42	2.11	2.05
	Mode	Maximum Tune-up(dBm)	Conducted Output Power (dBm)		
			0	20	39
			2402MHz	2440MHz	2480MHz
	1Mbps	4.00	2.09	3.76	3.79
	2Mbps	4.00	2.23	3.86	3.86

8.6 NFC

Maximum Tune-up(dBm)	Conducted Output Power(dBm)	$E_{dB\mu V/m}$
	13.56MHz	13.56MHz
-51.00	-51.31	43.89
Note: Nominal rated field strength: 43.89 dBuV/m at 3 meter. $P_{dBm}=E_{dB\mu V/m}-95.2$		

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Exclusion thresholds for 1-g SAR(mW)	RF exposure evaluation required
/	0.01356	-51.00	0.000007943	0	443	No

Note

- 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:

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

where

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

$$x = -\log_{10} \left(\frac{60}{ERP_{20\text{ cm}} \sqrt{f}} \right)$$

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.

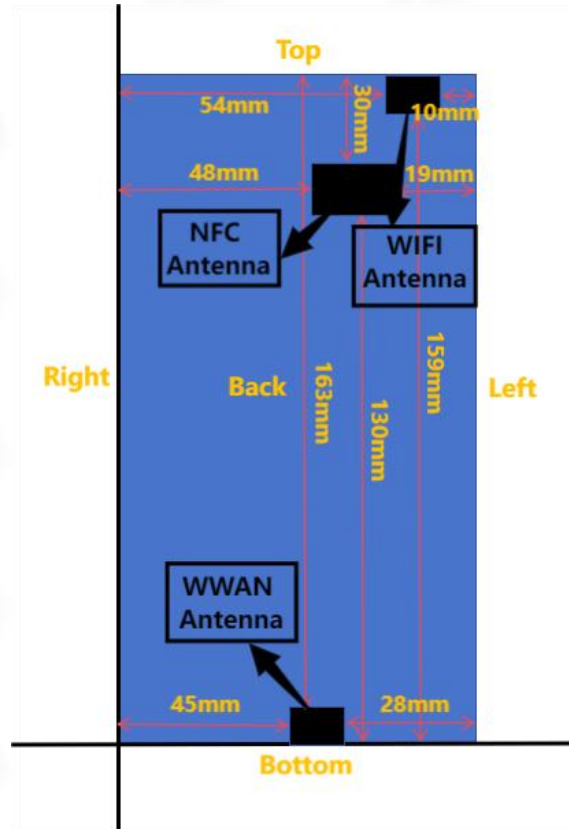
- Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
- The output power of all data rate were prescan, just the worst case (the lowest data rate) of all mode were shown in report.
- Conducted Power=0.000007943 mW.
The SAR Exclusion Threshold Level for 13.56MHz when the minimum test separation distance is < 50 mm.

$$= [474 * (1 + \log_{10}(f(\text{MHz}))) / 2]$$

$$= 443\text{mW}$$
- Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

9. Test Exclusion Consideration

Antenna information:



WWAN Antenna	GSM/WCDMA/LTE TX/RX
WLAN/BT Antenna	WLAN/BT TX/RX
NFC Antenna	NFC TX/RX
Note: 1. KDB 447498 D04v01, particular DUT edges were not required to be evaluated for SAR if the antenna-to-edge distance is greater than 2.5cm. 2. Per KDB648474 D04, 10-g extremity SAR is not required when Body-Worn mode 1-g reported SAR < 1.2W/Kg.	

Distance of The Antenna to the EUT surface and edge (mm)						
Antenna	Front Side (mm)	Back Side (mm)	Left Edge (mm)	Right Edge (mm)	Top Edge (mm)	Bottom Edge (mm)
WWAN	<25	<25	28	45	163	<25
BT/Wifi	<25	<25	<25	54	<25	159
NFC	<25	<25	<25	48	30	130
Positions for SAR tests: Hotspot mode						
Antenna	Front Side (mm)	Back Side (mm)	Left Edge (mm)	Right Edge (mm)	Top Edge (mm)	Bottom Edge (mm)
WWAN	Yes	Yes	No	No	No	Yes
BT/Wifi	Yes	Yes	Yes	No	Yes	No
NFC	Yes	Yes	Yes	No	No	No

10. Test Result

Head(0mm gap)												
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)	Meas. No.
GSM 850 (voice)	Left Cheek	190	836.6	-1.320	0.597	100.00	1.000	30.79	31.00	1.050	0.627	/
	Left Tilt	190	836.6	-3.010	0.298	100.00	1.000	30.79	31.00	1.050	0.313	/
	Right Cheek	190	836.6	-1.890	0.761	100.00	1.000	30.79	31.00	1.050	0.799	1#
	Right Tilt	190	836.6	1.300	0.382	100.00	1.000	30.79	31.00	1.050	0.401	/
Body(10mm Gap)												
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)	Meas. No.
GSM 850 (voice)	Front	190	836.6	-2.430	0.261	100.00	1.000	29.68	30.00	1.076	0.281	/
	Back	190	836.6	2.770	0.316	100.00	1.000	29.68	30.00	1.076	0.340	/
	Bottom	190	836.6	1.930	0.287	100.00	1.000	29.68	30.00	1.076	0.309	/
Body(hotspot open, 10mm Gap)												
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)	Meas. No.
GPRS 850+2slots	Front	190	836.6	-2.200	0.298	100.00	1.000	29.68	30.00	1.076	0.321	/
	Back	190	836.6	1.040	0.359	100.00	1.000	29.68	30.00	1.076	0.386	2#
	Bottom	190	836.6	3.210	0.325	100.00	1.000	29.68	30.00	1.076	0.350	/

Head(0mm gap)												
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)	Meas. No.
GSM 1900 (voice)	Left Cheek	512	1850.2	-0.880	0.112	100.00	1.000	25.38	25.50	1.028	0.115	/
	Left Tilt	512	1850.2	1.060	0.056	100.00	1.000	25.38	25.50	1.028	0.058	/
	Right Cheek	512	1850.2	-3.690	0.163	100.00	1.000	25.38	25.50	1.028	0.168	3#
	Right Tilt	512	1850.2	-1.140	0.081	100.00	1.000	25.38	25.50	1.028	0.083	/
Body(hotspot open, 10mm Gap)												
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)	Meas. No.
GSM 1900 (voice)	Front	512	1850.2	-3.100	0.025	100.00	1.000	24.40	24.50	1.023	0.026	/
	Back	512	1850.2	-4.540	0.058	100.00	1.000	24.40	24.50	1.023	0.059	/
	Bottom	512	1850.2	-0.750	0.041	100.00	1.000	24.40	24.50	1.023	0.042	/
Body(hotspot open, 10mm Gap)												
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)	Meas. No.
GPRS 1900+2slots	Front	512	1850.2	-0.440	0.039	100.00	1.000	24.40	24.50	1.023	0.040	/
	Back	512	1850.2	2.380	0.065	100.00	1.000	24.40	24.50	1.023	0.066	4#
	Bottom	512	1850.2	3.180	0.054	100.00	1.000	24.40	24.50	1.023	0.055	/

Head(0mm gap)												
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)	Meas. No.
WCDMA Band 2 (RMC*)	Left Cheek	9262	1852.4	-1.220	0.229	100.00	1.000	17.82	18.00	1.042	0.239	/
	Left Tilt	9262	1852.4	-3.050	0.114	100.00	1.000	17.82	18.00	1.042	0.119	/
	Right Cheek	9262	1852.4	-1.200	0.287	100.00	1.000	17.82	18.00	1.042	0.299	5#
	Right Tilt	9262	1852.4	-4.010	0.143	100.00	1.000	17.82	18.00	1.042	0.149	/
Body(hotspot open, 10mm Gap)												
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)	Meas. No.
WCDMA Band 2 (RMC*)	Front	9262	1852.4	1.450	0.064	100.00	1.000	17.82	18.00	1.042	0.067	/
	Back	9262	1852.4	-4.050	0.103	100.00	1.000	17.82	18.00	1.042	0.107	6#
	Bottom	9262	1852.4	-0.930	0.085	100.00	1.000	17.82	18.00	1.042	0.089	/

Head(0mm gap)												
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)	Meas. No.
WCDMA Band 4 (RMC*)	Left Cheek	1312	1712.4	2.180	0.208	100.00	1.000	18.43	18.50	1.016	0.211	/
	Left Tilt	1312	1712.4	-2.880	0.105	100.00	1.000	18.43	18.50	1.016	0.107	/
	Right Cheek	1312	1712.4	-1.510	0.220	100.00	1.000	18.43	18.50	1.016	0.224	7#
	Right Tilt	1312	1712.4	1.950	0.112	100.00	1.000	18.43	18.50	1.016	0.114	/

Body(hotspot open, 10mm Gap)												
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)	Meas. No.
WCDMA Band 4 (RMC*)	Front	1312	1712.4	0.310	0.055	100.00	1.000	18.43	18.50	1.016	0.056	/
	Back	1312	1712.4	-0.240	0.084	100.00	1.000	18.43	18.50	1.016	0.085	8#
	Bottom	1312	1712.4	2.110	0.073	100.00	1.000	18.43	18.50	1.016	0.074	/

Head(0mm gap)												
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)	Meas. No.
WCDMA Band 5 (RMC*)	Left Cheek	4183	836.6	3.400	0.495	100.00	1.000	19.73	20.00	1.064	0.527	/
	Left Tilt	4183	836.6	1.650	0.247	100.00	1.000	19.73	20.00	1.064	0.263	/
	Right Cheek	4183	836.6	-0.460	0.539	100.00	1.000	19.73	20.00	1.064	0.573	9#
	Right Tilt	4183	836.6	2.880	0.270	100.00	1.000	19.73	20.00	1.064	0.287	/

Body(hotspot open, 10mm Gap)												
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)	Meas. No.
WCDMA Band 5 (RMC*)	Front	4183	836.6	3.760	0.186	100.00	1.000	19.73	20.00	1.064	0.198	/
	Back	4183	836.6	0.480	0.225	100.00	1.000	19.73	20.00	1.064	0.239	10#
	Bottom	4183	836.6	0.930	0.207	100.00	1.000	19.73	20.00	1.064	0.220	/

Head(0mm gap)													
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)	Meas. No.
Band 2 (BW: 20MHz)	1RB	Left Cheek	18900	1880.0	2.890	0.105	100.00	1.000	21.89	22.00	1.026	0.108	/
		Left Tilt	18900	1880.0	-2.200	0.052	100.00	1.000	21.89	22.00	1.026	0.053	/
		Right Cheek	18900	1880.0	0.970	0.120	100.00	1.000	21.89	22.00	1.026	0.123	11#
		Right Tilt	18900	1880.0	-1.770	0.061	100.00	1.000	21.89	22.00	1.026	0.063	/
	50%RB	Left Cheek	18900	1880.0	1.780	0.076	100.00	1.000	20.74	21.00	1.062	0.081	/
		Left Tilt	18900	1880.0	-3.700	0.038	100.00	1.000	20.74	21.00	1.062	0.040	/
		Right Cheek	18900	1880.0	3.160	0.098	100.00	1.000	20.74	21.00	1.062	0.104	/
		Right Tilt	18900	1880.0	-1.080	0.050	100.00	1.000	20.74	21.00	1.062	0.053	/

Body(hotspot open, 10mm Gap)													
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)	Meas. No.
Band 2 (BW: 20MHz)	1RB	Front	18900	1880.0	-3.840	0.209	100.00	1.000	21.89	22.00	1.026	0.214	/
		Back	18900	1880.0	0.460	0.286	100.00	1.000	21.89	22.00	1.026	0.293	12#
		Bottom	18900	1880.0	-0.160	0.246	100.00	1.000	21.89	22.00	1.026	0.252	/
	50%RB	Front	18900	1880.0	-3.570	0.184	100.00	1.000	20.74	21.00	1.062	0.195	/
		Back	18900	1880.0	2.910	0.215	100.00	1.000	20.74	21.00	1.062	0.228	/
		Bottom	18900	1880.0	-1.370	0.201	100.00	1.000	20.74	21.00	1.062	0.213	/

Head(0mm gap)													
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)	Meas. No.
Band 4 (BW: 20MHz)	1RB	Left Cheek	20050	1720.0	2.880	0.047	100.00	1.000	21.93	22.00	1.016	0.048	/
		Left Tilt	20050	1720.0	-2.060	0.023	100.00	1.000	21.93	22.00	1.016	0.023	/
		Right Cheek	20050	1720.0	-2.370	0.062	100.00	1.000	21.93	22.00	1.016	0.063	13#
		Right Tilt	20050	1720.0	0.440	0.031	100.00	1.000	21.93	22.00	1.016	0.031	/
	50%RB	Left Cheek	20050	1720.0	-1.010	0.016	100.00	1.000	20.89	21.00	1.026	0.016	/
		Left Tilt	20050	1720.0	-1.560	0.008	100.00	1.000	20.89	21.00	1.026	0.008	/
		Right Cheek	20050	1720.0	-3.500	0.038	100.00	1.000	20.89	21.00	1.026	0.039	/
		Right Tilt	20050	1720.0	0.250	0.019	100.00	1.000	20.89	21.00	1.026	0.019	/

Body(hotspot open, 10mm Gap)													
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)	Meas. No.
Band 4 (BW: 20MHz)	1RB	Front	20050	1720.0	-1.160	0.109	100.00	1.000	21.93	22.00	1.016	0.111	/
		Back	20050	1720.0	2.970	0.158	100.00	1.000	21.93	22.00	1.016	0.161	14#
		Bottom	20050	1720.0	-4.460	0.124	100.00	1.000	21.93	22.00	1.016	0.126	/
	50%RB	Front	20050	1720.0	0.740	0.068	100.00	1.000	20.89	21.00	1.026	0.070	/
		Back	20050	1720.0	-0.870	0.106	100.00	1.000	20.89	21.00	1.026	0.109	/
		Bottom	20050	1720.0	4.650	0.082	100.00	1.000	20.89	21.00	1.026	0.084	/

Head(0mm gap)													
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)	Meas. No.
Band 5 (BW: 10MHz)	1RB	Left Cheek	20450	829.0	1.380	0.257	100.00	1.000	22.74	23.00	1.062	0.273	/
		Left Tilt	20450	829.0	-4.760	0.128	100.00	1.000	22.74	23.00	1.062	0.136	/
		Right Cheek	20450	829.0	-1.460	0.289	100.00	1.000	22.74	23.00	1.062	0.307	15#
		Right Tilt	20450	829.0	-0.220	0.145	100.00	1.000	22.74	23.00	1.062	0.154	/
	50%RB	Left Cheek	20450	829.0	-1.870	0.191	100.00	1.000	21.52	22.00	1.117	0.213	/
		Left Tilt	20450	829.0	-4.830	0.095	100.00	1.000	21.52	22.00	1.117	0.106	/
		Right Cheek	20450	829.0	-3.170	0.207	100.00	1.000	21.52	22.00	1.117	0.231	/
		Right Tilt	20450	829.0	-3.410	0.103	100.00	1.000	21.52	22.00	1.117	0.115	/

Body(hotspot open, 10mm Gap)													
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)	Meas. No.
Band 5 (BW: 10MHz)	1RB	Front	20450	829.0	-1.230	0.197	100.00	1.000	22.74	23.00	1.062	0.209	/
		Back	20450	829.0	-0.600	0.235	100.00	1.000	22.74	23.00	1.062	0.250	16#
		Bottom	20450	829.0	-1.800	0.211	100.00	1.000	22.74	23.00	1.062	0.224	/
	50%RB	Front	20450	829.0	0.730	0.155	100.00	1.000	21.52	22.00	1.117	0.173	/
		Back	20450	829.0	-1.630	0.184	100.00	1.000	21.52	22.00	1.117	0.206	/
		Bottom	20450	829.0	-2.190	0.179	100.00	1.000	21.52	22.00	1.117	0.200	/

Head(0mm gap)													
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)	Meas. No.
Band 7 (BW: 10MHz)	1RB	Left Cheek	21350	2560.0	2.630	0.051	100.00	1.000	22.63	23.00	1.089	0.056	/
		Left Tilt	21350	2560.0	1.140	0.025	100.00	1.000	22.63	23.00	1.089	0.027	/
		Right Cheek	21350	2560.0	-4.030	0.060	100.00	1.000	22.63	23.00	1.089	0.065	17#
		Right Tilt	21350	2560.0	-2.320	0.031	100.00	1.000	22.63	23.00	1.089	0.034	/
	50%RB	Left Cheek	21350	2560.0	0.520	0.028	100.00	1.000	21.48	21.50	1.005	0.028	/
		Left Tilt	21350	2560.0	3.580	0.015	100.00	1.000	21.48	21.50	1.005	0.015	/
		Right Cheek	21350	2560.0	-4.380	0.034	100.00	1.000	21.48	21.50	1.005	0.034	/
		Right Tilt	21350	2560.0	-2.140	0.018	100.00	1.000	21.48	21.50	1.005	0.018	/

Body(hotspot open, 10mm Gap)													
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)	Meas. No.
Band 7 (BW: 10MHz)	1RB	Front	21350	2560.0	1.320	0.214	100.00	1.000	22.63	23.00	1.089	0.233	/
		Back	21350	2560.0	1.410	0.251	100.00	1.000	22.63	23.00	1.089	0.273	18#
		Bottom	21350	2560.0	-3.500	0.233	100.00	1.000	22.63	23.00	1.089	0.254	/
	50%RB	Front	21350	2560.0	2.650	0.169	100.00	1.000	21.48	21.50	1.005	0.170	/
		Back	21350	2560.0	-0.360	0.184	100.00	1.000	21.48	21.50	1.005	0.185	/
		Bottom	21350	2560.0	1.240	0.180	100.00	1.000	21.48	21.50	1.005	0.181	/

Head(0mm gap)													
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)	Meas. No.
Band 12 (BW: 10MHz)	1RB	Left Cheek	23060	704.0	-0.100	0.371	100.00	1.000	21.89	22.00	1.026	0.381	/
		Left Tilt	23060	704.0	3.610	0.186	100.00	1.000	21.89	22.00	1.026	0.191	/
		Right Cheek	23060	704.0	-3.130	0.382	100.00	1.000	21.89	22.00	1.026	0.392	19#
		Right Tilt	23060	704.0	-2.780	0.191	100.00	1.000	21.89	22.00	1.026	0.196	/
	50%RB	Left Cheek	23060	704.0	-3.420	0.304	100.00	1.000	20.80	21.00	1.047	0.318	/
		Left Tilt	23060	704.0	-0.190	0.153	100.00	1.000	20.80	21.00	1.047	0.160	/
		Right Cheek	23060	704.0	3.140	0.315	100.00	1.000	20.80	21.00	1.047	0.330	/
		Right Tilt	23060	704.0	0.330	0.157	100.00	1.000	20.80	21.00	1.047	0.164	/

Body(hotspot open, 10mm Gap)													
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)	Meas. No.
Band 12 (BW: 10MHz)	1RB	Front	23060	704.0	-1.470	0.229	100.00	1.000	21.89	22.00	1.026	0.235	/
		Back	23060	704.0	2.790	0.247	100.00	1.000	21.89	22.00	1.026	0.253	20#
		Bottom	23060	704.0	2.630	0.243	100.00	1.000	21.89	22.00	1.026	0.249	/
	50%RB	Front	23060	704.0	3.370	0.174	100.00	1.000	20.80	21.00	1.047	0.182	/
		Back	23060	704.0	-1.050	0.201	100.00	1.000	20.80	21.00	1.047	0.210	/
		Bottom	23060	704.0	2.860	0.196	100.00	1.000	20.80	21.00	1.047	0.205	/