



SAR TEST REPORT

Product Name: Smart Pos Payment Terminal

Model Name: SP60

FCC ID: SS4SP60F1

Issued For : Bluebird Inc.

3F, 115, Irwon ro, Gangnam gu, Seoul, Republic of Korea
(06355)

Issued By : Shenzhen LGT Test Service Co., Ltd.

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Report Number: LGT24L008HA01

Sample Received Date: Dec. 05, 2024

Date of Test: Dec. 05, 2024 ~Jan. 20, 2025

Date of Issue: Feb. 13, 2025

Max. SAR: Body: 1.082 W/kg(1g)

Limbs: 3.168 W/kg(10g)

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Revision History

Rev.	Issue Date	Contents
00	Feb. 13, 2025	Initial Issue



TEST REPORT CERTIFICATION

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Product Name Smart Pos Payment Terminal

Trademark Bluebird

Model Name SP60

Sample number LGT2412017-1

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
ANSI/IEEE Std. C95.1-1992 FCC 47 CFR Part 2 (2.1093) IEEE 1528: 2013	PASS

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1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

Product Name	Smart Pos Payment Terminal		
Trademark	Bluebird		
Model Name	SP60		
Series Model	N/A		
Model Difference	Please refer to the Note 2.		
Device Category	Portable		
Product stage	Production unit		
RF Exposure Environment	General Population / Uncontrolled		
Hardware Version	V1.0		
Software Version	R1.01		
Frequency Range	GSM 850: 824 ~ 849 MHz PCS 1900: 1850 ~ 1910 MHz WCDMA Band II: 1850 ~ 1910 MHz WCDMA Band IV: 1710 ~ 1755 MHz WCDMA Band V: 824 ~ 849 MHz LTE Band 2: 1850 ~ 1910 MHz LTE Band 4: 1710 ~ 1755 MHz LTE Band 5: 824 ~ 849 MHz LTE Band 7: 2500 ~ 2570 MHz LTE Band 12: 699 ~ 716 MHz LTE Band 13: 777 ~ 787 MHz LTE Band 14: 788 ~ 798 MHz LTE Band 17: 704 ~ 716 MHz (Note: Band 17 is completely within the working range of Band 12 and does not require additional testing.) LTE Band 25: 1850 ~ 1915 MHz LTE Band 26: 814 ~ 824 MHz / 824 ~ 849 MHz LTE Band 38: 2570 ~ 2620 MHz LTE Band 41: 2496 ~ 2690 MHz LTE Band 66: 1710 ~ 1780 MHz WLAN 802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5250 ~ 5350 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5470 ~ 5725 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5725 ~ 5850 MHz Bluetooth: 2402 ~ 2480 MHz NFC: 13.56 MHz		
Max. Reported SAR: Test distance: Body: 10mm (Configured 1 Back side: 0mm) Limbs: 0mm	SP60 With Printer (Configure 1)		
	Mode	Body Worn and Hotspot (W/kg)(1g)	Limb(W/kg)(10g)
	GSM 850	0.910	0.585
	PCS 1900	0.403	0.236
	WCDMA Band II	0.694	0.367
	WCDMA Band IV	0.684	0.365



	WCDMA Band V	1.007	0.656
	LTE Band 2	0.897	0.452
	LTE Band 4	0.748	0.389
	LTE Band 5	0.767	0.492
	LTE Band 7	0.691	0.334
	LTE Band 12	1.082	0.615
	LTE Band 13	0.513	0.284
	LTE Band 14	0.604	0.305
	LTE Band 25	0.803	0.419
	LTE Band 26	0.788	0.488
	LTE Band 38	0.904	0.412
	LTE Band 41	0.738	0.353
	LTE Band 66	0.778	0.397
	2.4G WLAN	0.293	0.524
	5.2G WLAN	0.399	0.445
	5.3G WLAN	0.316	0.303
	5.6G WLAN	0.289	0.264
	5.8G WLAN	0.376	0.271
	BT ^{Note1}	0.117	0.048
	NFC ^{Note1}	0.0000002	0.0000001
	SP60 Without Printer (Configure 2)		
	Mode	Body Worn and Hotspot (W/kg)(1g)	Limb(W/kg)(10g)
	GSM 850	0.456	0.885
	PCS 1900	1.003	1.256
	WCDMA Band II	0.646	1.684
	WCDMA Band IV	0.582	2.128
	WCDMA Band V	0.425	1.135
	LTE Band 2	0.748	1.860
	LTE Band 4	0.609	1.789
	LTE Band 5	0.449	1.384
	LTE Band 7	0.575	2.469
	LTE Band 12	0.411	1.166
	LTE Band 13	0.167	0.545
	LTE Band 14	0.352	0.434
	LTE Band 25	0.694	1.809
	LTE Band 26	0.506	1.359
	LTE Band 38	0.698	2.646
	LTE Band 41	0.908	3.168
	LTE Band 66	0.667	2.024
	2.4G WLAN	0.300	0.586
	5.2G WLAN	0.399	0.540
	5.3G WLAN	0.379	0.491
	5.6G WLAN	0.389	0.383
	5.8G WLAN	0.499	0.376
	BT ^{Note1}	0.117	0.048
	NFC ^{Note1}	0.0000002	0.0000001
Limit		1.6	4
Battery:	BAT-202001 Capacity: 2000mAh Rated Voltage:7.7V BAT-342001 Capacity: 3420mAh Rated Voltage:7.7V		
Description test modes	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested		



Operating Mode:	GSM: GSM Voice; GPRS/EGPRS Class 12 WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM 2.4G WLAN: 802.11b(DSSS): CCK, DQPSK, DBPSK 802.11g(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 5G WLAN: 802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM Bluetooth: GFSK + π /4DQPSK+8DPSK BLE: GFSK NFC: ASK
Antenna Specification	GSM/WCDMA/LTE: FPC Antenna Bluetooth: FPC Antenna WLAN: FPC Antenna NFC: Coil Antenna
Operating Mode	Maximum continuous output
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot trans mitting at the same time
Hotspot Mode	Support
DTM Mode	Not Support

Note

1: The BT and NFC value was Estimated.

2.

Model	Battery capacity	Print head	charging stand
SP60 (Configuration 1)	3420mAh	Yes	High configuration: USB1 Output: 5Vdc, 1.0A USB2 Output: 5Vdc, 0.5A
	3420mAh	Yes	Low configuration: No
SP60 (Configuration 2)	2000mAh	No	High configuration: USB1 Output: 5Vdc, 1.0A USB2 Output: 5Vdc, 0.5A
	2000mAh	No	Low configuration: No



1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (°C)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate	FCC Registration No.: 746540
	A2LA Certificate No.: 6727.01
	IC Registration No.: CN0136



2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	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
4	FCC KDB 447498 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
9	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
11	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices

(A). Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.4 8.0 20.0

(B). Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.08 1.6 4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

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

Occupational/Controlled Environments:

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

NOTE
GENERAL POPULATION/UNCONTROLLED EXPOSURE
PARTIAL BODY LIMIT
1.6 W/kg



3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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

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

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

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

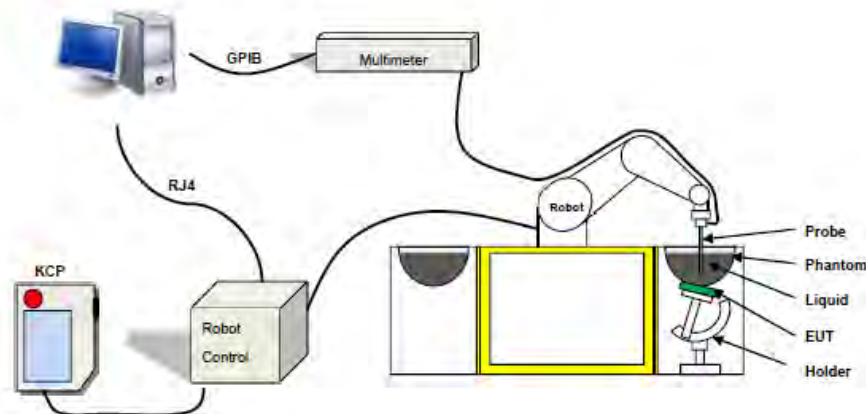
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue;

ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

MVG SAR System Diagram:



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

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

The following figure shows the system.



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

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 04/22 EPG0364 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: <0.10 dB
- Spherical Isotropy: <0.10 dB
- Calibration range: 600 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Probe



3.2.2 Phantom

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

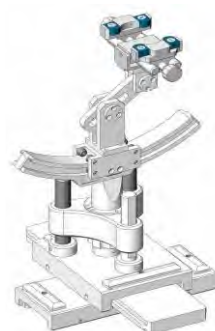


Figure-SN 06/22 SAM 148



Figure-SN 06/22 ELLI 51

3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values

The uncertainty due to the liquid conductivity and permittivity arises from two different sources. The first source of error is the deviation of the liquid conductivity from its target value (max _ 5 %) and the second source of error arises from the measurement procedures used to assess conductivity. The uncertainty shall be assessed using a rectangular probability For 1 g averaging, the maximum weighting coefficient for SAR is 0,5.

IEEE SCC-34/SC-2 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 have been incorporated in the following table.

Frequency	ϵ_r	σ 10g S/m
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1800 to 2000	40.0	1.40
2100	39.8	1.49
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27



LIQUID MEASUREMENT RESULTS

Date	Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Frequency(MHz)	Temp. [°C]					
2024-12-11	704	21.7	Permittivity	42.15	42.52	0.88	±5
			Conductivity	0.89	0.90	1.12	±5
2024-12-11	707.5	21.7	Permittivity	42.13	42.91	1.85	±5
			Conductivity	0.89	0.91	2.25	±5
2024-12-11	711	21.7	Permittivity	42.11	42.52	0.97	±5
			Conductivity	0.89	0.90	1.12	±5
2024-12-25	782	21.9	Permittivity	41.73	42.55	1.97	±5
			Conductivity	0.89	0.92	3.37	±5
2024-12-11	750	21.7	Permittivity	41.90	42.01	0.26	±5
			Conductivity	0.89	0.85	-4.49	±5
2024-12-25	750	21.8	Permittivity	41.90	42.15	0.60	±5
			Conductivity	0.89	0.88	-1.12	±5
2025-01-04	750	21.9	Permittivity	41.90	40.98	-2.20	±5
			Conductivity	0.89	0.92	3.37	±5
2024-12-26	824.2	23.4	Permittivity	41.55	40.61	-2.26	±5
			Conductivity	0.90	0.89	-1.11	±5
2024-12-26	826.4	23.2	Permittivity	41.50	40.67	-2.00	±5
			Conductivity	0.89	0.93	4.49	±5
2024-12-26	831.5	23.2	Permittivity	41.50	41.27	-0.55	±5
			Conductivity	0.90	0.93	3.33	±5
2024-12-26	836.4	23.2	Permittivity	41.49	41.26	-0.55	±5
			Conductivity	0.90	0.94	4.44	±5
2024-12-26	836.5	23.2	Permittivity	41.50	41.34	-0.39	±5
			Conductivity	0.90	0.88	-2.22	±5
2024-12-26	836.6	23.1	Permittivity	41.50	42.02	1.25	±5
			Conductivity	0.90	0.93	3.33	±5
2024-12-19	844	21.6	Permittivity	41.46	41.54	0.19	±5
			Conductivity	0.90	0.92	2.22	±5
2024-12-19	846.6	21.5	Permittivity	41.50	41.14	-0.87	±5
			Conductivity	0.91	0.92	1.10	±5
2025-01-01	848.5	22.9	Permittivity	41.50	41.48	-0.05	±5
			Conductivity	0.91	0.92	1.10	±5
2025-01-01	848.8	22.8	Permittivity	41.50	41.37	-0.31	±5
			Conductivity	0.91	0.93	2.20	±5
2025-01-01	849	22.7	Permittivity	41.50	41.92	1.01	±5
			Conductivity	0.92	0.92	0.00	±5
2024-12-26	835	23.1	Permittivity	41.50	41.12	-0.92	±5
			Conductivity	0.90	0.94	4.44	±5
2024-12-19	835	21.5	Permittivity	41.50	42.19	1.66	±5
			Conductivity	0.90	0.93	3.33	±5
2025-01-01	835	22.7	Permittivity	41.50	41.55	0.12	±5
			Conductivity	0.90	0.91	1.11	±5



2024-12-05	1712.6	22	Permittivity	40.12	41.12	2.49	±5
			Conductivity	1.35	1.38	2.22	±5
2024-12-29	1720	23.7	Permittivity	40.11	40.98	2.17	±5
			Conductivity	1.35	1.42	5.19	±5
2024-12-27	1740	20.2	Permittivity	40.09	40.35	0.65	±5
			Conductivity	1.37	1.36	-0.73	±5
2024-12-27	1745	20.2	Permittivity	40.08	40.07	-0.02	±5
			Conductivity	1.37	1.36	-0.73	±5
2024-12-27	1752.4	20.3	Permittivity	40.07	41.00	2.32	±5
			Conductivity	1.37	1.42	3.65	±5
2024-12-27	1770	20.3	Permittivity	40.04	40.48	1.10	±5
			Conductivity	1.38	1.40	1.45	±5
2024-12-05	1800	22	Permittivity	40.00	40.95	2.38	±5
			Conductivity	1.40	1.44	2.86	±5
2024-12-29	1800	23.7	Permittivity	40.00	40.47	1.18	±5
			Conductivity	1.40	1.35	-3.57	±5
2024-12-27	1800	20.1	Permittivity	40.00	40.50	1.25	±5
			Conductivity	1.40	1.41	0.71	±5
2024-12-30	1850.2	23.2	Permittivity	40.00	40.05	0.12	±5
			Conductivity	1.40	1.41	0.71	±5
2024-12-30	1860	23.2	Permittivity	40.00	40.21	0.53	±5
			Conductivity	1.40	1.41	0.71	±5
2024-12-15	1880	23.3	Permittivity	40.00	40.85	2.13	±5
			Conductivity	1.40	1.36	-2.86	±5
2024-12-16	1882.5	21	Permittivity	40.00	40.83	2.08	±5
			Conductivity	1.40	1.37	-2.14	±5
2024-12-30	1905	23.2	Permittivity	40.00	40.06	0.15	±5
			Conductivity	1.40	1.43	2.14	±5
2024-12-30	1909.8	23.2	Permittivity	40.00	41.08	2.70	±5
			Conductivity	1.40	1.35	-3.57	±5
2024-12-30	1900	23.1	Permittivity	40.00	40.34	0.85	±5
			Conductivity	1.40	1.39	-0.71	±5
2024-12-15	1900	23.2	Permittivity	40.00	41.14	2.85	±5
			Conductivity	1.40	1.42	1.43	±5
2024-12-16	1900	20.9	Permittivity	40.00	40.79	1.98	±5
			Conductivity	1.40	1.45	3.57	±5
2024-12-07	2441	20.3	Permittivity	39.22	39.99	1.96	±5
			Conductivity	1.79	1.80	0.56	±5
2024-12-07	2462	20.1	Permittivity	39.18	39.17	-0.03	±5
			Conductivity	1.81	1.76	-2.76	±5
2024-12-07	2450	20.2	Permittivity	39.20	39.44	0.61	±5
			Conductivity	1.80	1.83	1.67	±5
2024-12-24	2506	21.7	Permittivity	39.12	39.52	1.02	±5
			Conductivity	1.86	1.89	1.61	±5
2024-12-24	2535	21.8	Permittivity	39.09	40.32	3.15	±5
			Conductivity	1.89	1.94	2.65	±5
2024-12-22	2560	21.8	Permittivity	39.05	39.60	1.41	±5
			Conductivity	1.92	1.91	-0.52	±5



2024-12-22	2580	21.9	Permittivity	39.03	39.41	0.97	±5
			Conductivity	1.94	1.98	2.06	±5
2024-12-24	2593	21.8	Permittivity	39.01	39.27	0.67	±5
			Conductivity	1.95	1.98	1.54	±5
2024-12-31	2610	22.2	Permittivity	38.99	40.08	2.80	±5
			Conductivity	1.97	2.03	3.05	±5
2025-01-02	2680	23.9	Permittivity	38.90	39.69	2.03	±5
			Conductivity	2.05	2.07	0.98	±5
2024-12-24	2600	21.7	Permittivity	39.00	40.10	2.82	±5
			Conductivity	1.96	1.97	0.51	±5
2024-12-22	2600	22.3	Permittivity	39.00	39.71	1.82	±5
			Conductivity	1.96	2.00	2.04	±5
2024-12-31	2600	22.1	Permittivity	39.00	39.05	0.13	±5
			Conductivity	1.96	1.94	-1.02	±5
2025-01-02	2600	23.8	Permittivity	39.00	39.38	0.97	±5
			Conductivity	1.96	1.91	-2.55	±5
2024-12-06	5180	23.4	Permittivity	36.02	36.25	0.64	±5
			Conductivity	4.64	4.68	0.86	±5
2024-12-06	5200	23.2	Permittivity	36.00	36.48	1.33	±5
			Conductivity	4.66	4.65	-0.21	±5
2024-12-10	5260	23.7	Permittivity	35.94	36.62	1.89	±5
			Conductivity	4.72	4.74	0.42	±5
2024-12-10	5400	23.5	Permittivity	35.80	36.58	2.18	±5
			Conductivity	4.86	4.83	-0.62	±5
2024-12-08	5700	21.2	Permittivity	35.43	36.53	3.10	±5
			Conductivity	5.17	5.13	-0.77	±5
2024-12-08	5600	21.2	Permittivity	35.55	36.68	3.18	±5
			Conductivity	5.07	5.08	0.20	±5
2024-12-28	5745	20.3	Permittivity	35.36	36.08	2.04	±5
			Conductivity	5.21	5.16	-0.96	±5
2024-12-28	5800	20.2	Permittivity	35.30	36.02	2.04	±5
			Conductivity	5.27	5.31	0.76	±5

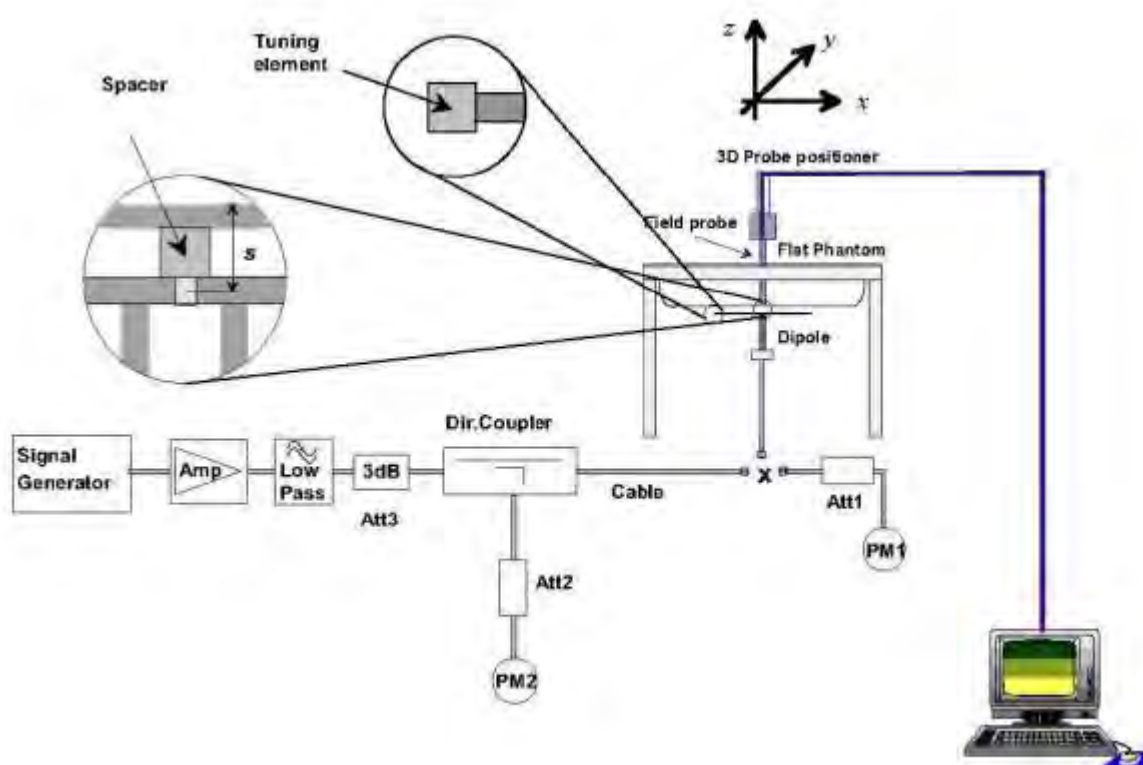


5. SAR System Validation

5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.





5.2 Validation Result

Comparing to the original SAR value provided by MVG, the validation data should be within its specification of $\pm 10\%$.

Date	Freq.	Power	Tested Value	Normalized SAR	Target SAR	Tolerance	Limit
	(MHz)	(mW)	(W/Kg)	(W/kg)	1g(W/kg)	(%)	(%)
2024-12-11	750	100	0.828	8.28	8.27	0.12	10
2024-12-25	750	100	0.803	8.03	8.27	-2.90	10
2025-01-04	750	100	0.841	8.41	8.27	1.69	10
2024-12-26	835	100	0.992	9.92	9.75	1.74	10
2024-12-19	835	100	0.948	9.48	9.75	-2.77	10
2025-01-01	835	100	0.984	9.84	9.75	0.92	10
2024-12-05	1800	100	3.884	38.84	39.06	-0.56	10
2024-12-29	1800	100	3.921	39.21	39.06	0.38	10
2024-12-27	1800	100	3.922	39.22	39.06	0.41	10
2024-12-30	1900	100	4.120	41.20	40.85	0.86	10
2024-12-15	1900	100	4.097	40.97	40.85	0.29	10
2024-12-16	1900	100	4.078	40.78	40.85	-0.17	10
2024-12-07	2450	100	5.408	54.08	54.28	-0.37	10
2024-12-24	2600	100	5.645	56.45	56.58	-0.23	10
2024-12-22	2600	100	5.682	56.82	56.58	0.42	10
2024-12-31	2600	100	5.650	56.50	56.58	-0.14	10
2025-01-02	2600	100	5.681	56.81	56.58	0.41	10
2024-12-06	5200	100	8.105	81.05	80.97	0.10	10
2024-12-10	5400	100	8.458	84.58	84.61	-0.04	10
2024-12-08	5600	100	8.065	80.65	80.96	-0.38	10
2024-12-28	5800	100	8.176	81.76	81.67	0.11	10

Note:

1. The tolerance limit of System validation $\pm 10\%$.
2. The dipole input power (forward power) was 100 mW.
3. The results are normalized to 1 W input power.



6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 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.
- 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.

➤ Area Scan& Zoom Scan

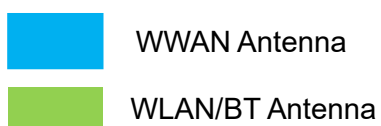
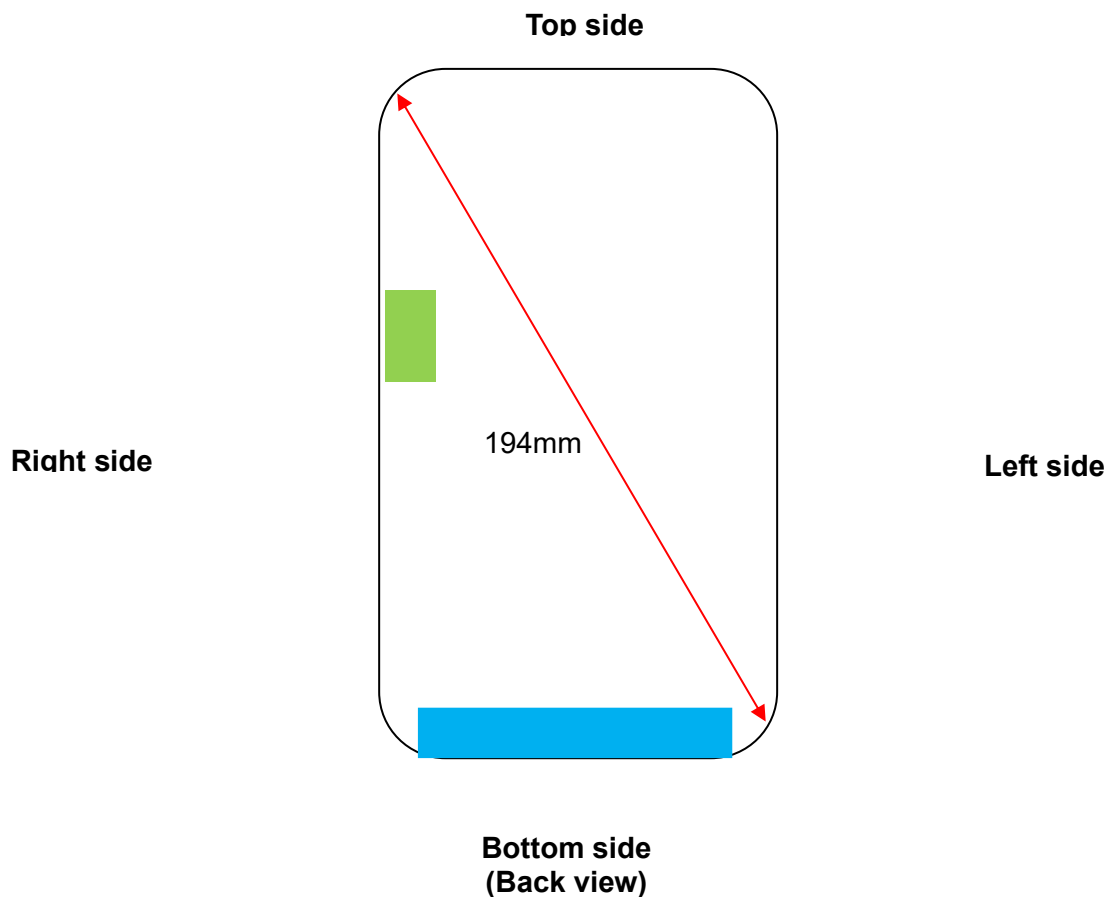
First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below.

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.



7. EUT Antenna Location Sketch

It is a Smart phone, support GSM/WCDMA/LTE/WLAN/BT mode.



Antenna Separation Distance(mm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	≤5	≤5	64	≤5	64	103
WWAN	≤5	≤5	≤5	≤5	172	≤5

Note 1: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.



7.1 SAR test exclusion consider table

The WWAN/WLAN/BT SAR evaluation of Maximum power (dBm) summing tolerance.

Exposure Position	Wireless Interface	GSM850	PCS1900	WCDMA II	WCDMA IV	WCDMA V
	Calculated Frequency (MHz)	848.8	1880	1880	1752.4	846.6
	Maximum Turn-up power (dBm)	35	31.5	23.5	24	24
	Maximum rated power(mW)	3162.28	1412.54	223.87	251.19	251.19
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.28	10.94	10.94	11.33	16.30
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.28	10.94	10.94	11.33	16.30
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.28	10.94	10.94	11.33	16.30
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.28	10.94	10.94	11.33	16.30
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	172	172	172	172	172
	exclusion threshold(mW)	853.17	1329.40	1329.40	1333.31	851.59
	Testing required?	YES	YES	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.28	10.94	10.94	11.33	16.30
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12
	Calculated Frequency (MHz)	1880	1720	844	2560	711
	Maximum Turn-up power (dBm)	24.5	24	24.5	23.5	23.8
	Maximum rated power(mW)	281.84	251.19	281.84	223.87	239.88
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.94	11.44	16.33	9.38	17.79
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.94	11.44	16.33	9.38	17.79
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.94	11.44	16.33	9.38	17.79
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.94	11.44	16.33	9.38	17.79
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	172	172	172	172	172
	exclusion threshold(mW)	1329.40	1334.37	849.73	1313.75	756.17
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.94	11.44	16.33	9.38	17.79
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 13	LTE Band 14	LTE Band 25	LTE Band 26	LTE Band 38	LTE Band 41
	Calculated Frequency (MHz)	782	793	1860	831.5	2610	2593
	Maximum Turn-up power (dBm)	24	25.5	24.5	24.5	23.5	23.2
	Maximum rated power(mW)	251.19	354.81	281.84	281.84	223.87	208.93
Back Side	Separation distance (mm)	5	5	5	5	5	5
	exclusion threshold(mW)	16.96	16.84	11.00	16.45	9.28	9.32
	Testing required?	YES	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5	5
	exclusion threshold(mW)	16.96	16.84	11.00	16.45	9.28	9.32
	Testing required?	YES	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5	5
	exclusion threshold(mW)	16.96	16.84	11.00	16.45	9.28	9.32
	Testing required?	YES	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5	5
	exclusion threshold(mW)	16.96	16.84	11.00	16.45	9.28	9.32
	Testing required?	YES	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	172	172	172	172	172	172
	exclusion threshold(mW)	805.65	813.42	1329.99	840.78	1312.85	1313.15
	Testing required?	NO	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5	5
	exclusion threshold(mW)	16.96	16.84	11.00	16.45	9.28	9.32
	Testing required?	YES	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 66	BT	2.4G WLAN	5.2G WLAN
	Calculated Frequency (MHz)	1720	2441	2462	5180
	Maximum Turn-up power (dBm)	25.5	4.5	17	10.5
	Maximum rated power(mW)	354.81	2.82	50.12	11.22
Back Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	11.44	9.60	9.56	6.59
	Testing required?	YES	NO	YES	YES
Front Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	11.44	9.60	9.56	6.59
	Testing required?	YES	NO	YES	YES
Left Edge	Separation distance (mm)	5	64	64	64
	exclusion threshold(mW)	11.44	236.01	235.60	205.91
	Testing required?	YES	NO	NO	NO
Right Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	11.44	9.60	9.56	6.59
	Testing required?	YES	NO	YES	YES
Top Edge	Separation distance (mm)	172	64	64	64
	exclusion threshold(mW)	1334.37	122.89	122.36	84.36
	Testing required?	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	103	103	103
	exclusion threshold(mW)	11.44	626.01	625.60	595.91
	Testing required?	YES	NO	NO	NO



Exposure Position	Wireless Interface	5.3G WLAN	5.6G WLAN	5.8G WLAN	LTE Band 14
	Calculated Frequency (MHz)	5260	5700	5745	793
	Maximum Turn-up power (dBm)	9.5	10.5	9.5	25.5
	Maximum rated power(mW)	8.91	11.22	8.91	354.81
Back Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.54	6.28	6.26	16.84
	Testing required?	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.54	6.28	6.26	16.84
	Testing required?	YES	YES	YES	YES
Left Edge	Separation distance (mm)	64	64	64	5
	exclusion threshold(mW)	205.40	202.83	202.58	16.84
	Testing required?	NO	NO	NO	YES
Right Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.54	6.28	6.26	16.84
	Testing required?	YES	YES	YES	YES
Top Edge	Separation distance (mm)	64	64	64	172
	exclusion threshold(mW)	83.72	80.42	80.10	813.42
	Testing required?	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	103	103	103	5
	exclusion threshold(mW)	595.40	592.83	592.58	16.84
	Testing required?	NO	NO	NO	YES

Note:

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. per KDB 447498 D01, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <25mm, 25mm is user to determine SAR exclusion threshold
4. per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance $\leq 50\text{mm}$ are determined by:

$$\frac{[(\text{max.power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance,}$$



mm)]*[$\sqrt{f(\text{GHz})}$) ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR ,f(GHz) is the RF channel transmit frequency in GHz. Power and distance are rounded to the nearest mW and mm before calculation.

The result is rounded to one decimal place for comparison

For <50mm distance, we just calculate mW of the exclusion threshold value(3.0)to do compare

5. per KDB 447498 D01, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following
 - a)[threshold at 50mm in step 1]+(test separation distance -50mm)*(f (MHz)/150)]mW, at 100 MHz to 1500 MHz
 - b) [threshold at 50mm in step1]+(test separation distance -50mm) *10]mW at > 1500MHz and $\leq 6\text{GHz}$
6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8.for each frequency band ,testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode ,thus the SAR can be excluded.

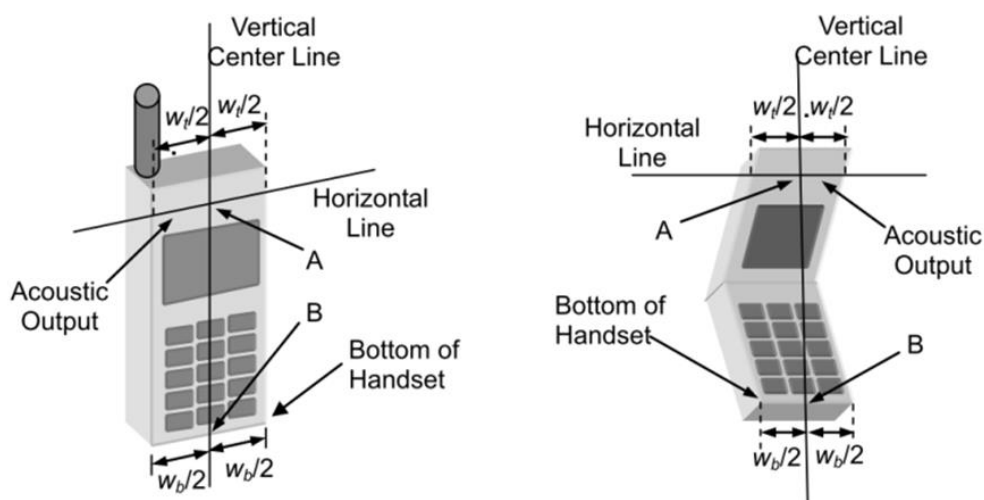


8. EUT Test Position

This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

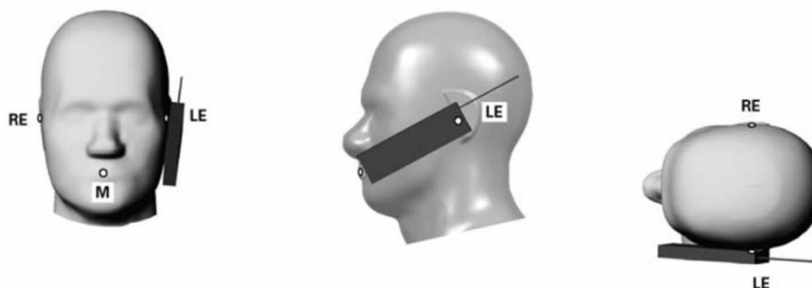
8.1 Define Two Imaginary Lines on the Handset

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



Cheek Position

- 1) 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 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.
- 2) 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 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





Title Position

- (1) To position the device in the “cheek” position described above.
- (2) While maintaining the device in 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 with the ear is lost.



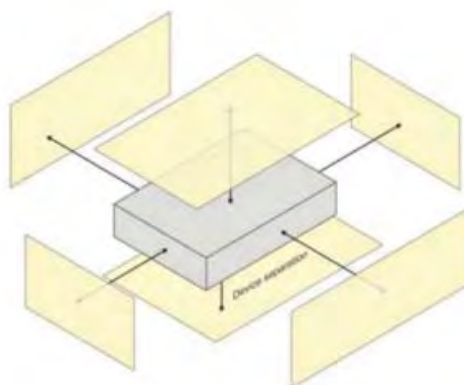
Body-worn Position Conditions:

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 Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest *reported* SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.



8.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition 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 surface and edges with a transmitting antenna located within 25 mm from that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm (instead of 10mm) is required for testing hotspot mode. When the separate 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).





9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Uncertainty Component	Tol (+/- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+/-%)	10g Ui (+/-%)	vi
Measurement System								
Probe calibration	5.8	N	1	1	1	5.8	5.8	∞
Axial Isotropy	3.5	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	1.43	1.43	∞
Hemispherical Isotropy	5.9	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	2.41	2.41	∞
Boundary effect	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
System detection limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	1.4	R	$\sqrt{3}$	1	1	1.81	1.81	∞
RF ambient conditions-Noise	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, Interpolation and Integration Algorithms for Max, SAR	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
Test sample Related								
Test sample positioning	2.6	N	1	1	1	2.60	2.60	11
Device holder uncertainty	3	N	1	1	1	3.00	3.00	7
Output Power Variation - SAR Drift Measurement	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	2	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameters								
Phantom uncertainty (shape and thickness uncertainty)	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	2	N	1	1	0.84	2.00	1.68	∞
Liquid Conductivity - Measurement Uncertainty)	4	N	1	0.78	0.71	3.12	2.84	5
Liquid Permittivity - Measurement Uncertainty	5	N	1	0.23	0.26	1.15	1.30	5
Liquid Conductivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid Permittivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty		RSS				10.47	10.34	
Expanded Uncertainty (95% Confidence interval)		K				20.95	20.69	



9.2 System validation Uncertainty

Uncertainty Component	Tol (+ - %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System								
Probe calibration	5.8	N	1	1	1	5.8	5.8	∞
Axial Isotropy	3.5	R	$\sqrt{3}$	1	1	2.02	2.02	∞
Hemispherical Isotropy	5.9	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	4.7	R	$\sqrt{3}$	1	1	0.71	0.71	∞
System detection limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	0	N	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions- reflections	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, Interpolation and Integration Algorithms for Max, SAR	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
Dipole								
Deviation of Experimental Source from Numerical Source	5	N	1	1	1	5.00	5.00	∞
Input Power and SAR Drift Measurement	0.5	R	$\sqrt{3}$	1	1	0.29	0.29	∞
Dipole Axis to Liquid Distance	2	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and Tissue Parameters								
Phantom uncertainty (shape and thickness uncertainty)	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	2	N	1	1	0.84	2.00	1.68	∞
Liquid Conductivity - Measurement Uncertainty)	4	N	1	0.78	0.71	3.12	2.84	5
Liquid Permittivity - Measurement Uncertainty	5	N	1	0.23	0.26	1.15	1.30	5
Liquid Conductivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid Permittivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty		RSS				10.16	10.03	
Expanded Uncertainty (95% Confidence interval)		K				20.32	20.06	



10. Proximity Sensor Configuration

Due to the operating configurations and exposure conditions required by the device, the proximity sensor is used to indicate when the device is held close to a user's body/hotspot exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance. It is also set an output power leveled to the lowest one to make sure that in any case of SAR sensor hardware failure, the SAR requirements can still be satisfied.

The following tables summarize the key power reduction information for proximity sensor.

Configuration 1:

Band	Test position	Sensor Trigger Distance	Power reduction amount(dB)
GSM850	Front Side	18	-3
	Back Side	30	-3
	Bottom Side	29	-3
	Left Side	20	-3
GSM1900	Front Side	18	-5
	Back Side	30	-5
	Bottom Side	29	-5
	Left Side	20	-5
EGPRS1900	Front Side	18	-3
	Back Side	30	-3
	Bottom Side	29	-3
	Left Side	20	-3
WCDMA B2	Front Side	18	-10
	Back Side	30	-10
	Bottom Side	29	-10
	Left Side	20	-10
WCDMA B4	Front Side	18	-10
	Back Side	30	-10
	Bottom Side	29	-10
	Left Side	20	-10
WCDMA B5	Front Side	18	-2
	Back Side	30	-2
	Bottom Side	29	-2
	Left Side	20	-2
LTE B2	Front Side	18	-10
	Back Side	30	-10
	Bottom Side	29	-10
	Left Side	20	-10
LTE B4	Front Side	18	-10
	Back Side	30	-10
	Bottom Side	29	-10
	Left Side	20	-10
LTE B5	Front Side	18	-4
	Back Side	30	-4
	Bottom Side	29	-4
	Left Side	20	-4
LTE B7	Front Side	18	-10



	Back Side	30	-10
	Bottom Side	29	-10
	Left Side	20	-10
	Front Side	18	-10
LTE B25	Back Side	30	-10
	Bottom Side	29	-10
	Left Side	20	-10
	Front Side	18	-10
LTE B26	Front Side	18	-4
	Back Side	30	-4
	Bottom Side	29	-4
	Left Side	20	-4
LTE B38	Front Side	18	-6
	Back Side	30	-6
	Bottom Side	29	-6
	Left Side	20	-6
LTE B41	Front Side	18	-7
	Back Side	30	-7
	Bottom Side	29	-7
	Left Side	20	-7
LTE B66	Front Side	18	-10
	Back Side	30	-10
	Bottom Side	29	-10
	Left Side	20	-10

Configuration 2:

Band	Test position	Sensor Trigger Distance	Power reduction amount(dB)
GSM850	Front Side	18	-1
	Back Side	30	-1
	Bottom Side	29	-1
	Left Side	20	-1
GSM1900	Front Side	18	-1
	Back Side	30	-1
	Bottom Side	29	-1
	Left Side	20	-1
EGPRS1900	Front Side	18	-1
	Back Side	30	-1
	Bottom Side	29	-1
	Left Side	20	-1
WCDMA B2	Front Side	18	-4
	Back Side	30	-4
	Bottom Side	29	-4
	Left Side	20	-4
WCDMA B4	Front Side	18	-4
	Back Side	30	-4
	Bottom Side	29	-4
	Left Side	20	-4
LTE B2	Front Side	18	-4
	Back Side	30	-4



	Bottom Side	29	-4
	Left Side	20	-4
LTE B4	Front Side	18	-4
	Back Side	30	-4
	Bottom Side	29	-4
	Left Side	20	-4
LTE B7	Front Side	18	-4
	Back Side	30	-4
	Bottom Side	29	-4
	Left Side	20	-4
LTE B25	Front Side	18	-4
	Back Side	30	-4
	Bottom Side	29	-4
	Left Side	20	-4
LTE B66	Front Side	18	-4
	Back Side	30	-4
	Bottom Side	29	-4
	Left Side	20	-4

Note: For the other sides or other frequency bands of the device, SAR is still tested at the maximum full power level with sensor off.



11. Conducted Power Measurement

11.1 Test Result

Normal Output Power:

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	34.48	34.28	34.69	31.07	31.24	30.89
GPRS (GMSK, 1-Slot)	34.50	34.31	34.71	31.11	31.28	30.94
GPRS (GMSK, 2-Slot)	33.80	33.59	33.98	30.37	30.58	30.28
GPRS (GMSK, 3-Slot)	32.11	31.91	32.32	28.65	28.94	28.70
GPRS (GMSK, 4-Slot)	31.06	30.88	31.27	27.50	27.87	27.75
EGPRS (8PSK, 1-Slot)	27.69	27.89	28.07	25.90	25.84	25.63
EGPRS (8PSK, 2-Slot)	26.36	27.07	26.05	24.83	25.05	24.59
EGPRS (8PSK, 3-Slot)	24.40	24.73	24.16	23.03	22.78	22.67
EGPRS (8PSK, 4-Slot)	23.10	23.72	22.39	21.47	21.58	21.24
Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme. Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link						

Frame- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	25.45	25.25	25.66	22.04	22.21	21.86
GPRS (GMSK, 1-Slot)	25.47	25.28	25.68	22.08	22.25	21.91
GPRS (GMSK, 2-Slot)	27.78	27.57	27.96	24.35	24.56	24.26
GPRS (GMSK, 3-Slot)	27.85	27.65	28.06	24.39	24.68	24.44
GPRS (GMSK, 4-Slot)	28.05	27.87	28.26	24.49	24.86	24.74
EGPRS (8PSK, 1-Slot)	18.66	18.86	19.04	16.87	16.81	16.60
EGPRS (8PSK, 2-Slot)	20.34	21.05	20.03	18.81	19.03	18.57
EGPRS (8PSK, 3-Slot)	20.14	20.47	19.90	18.77	18.52	18.41
EGPRS (8PSK, 4-Slot)	20.09	20.71	19.38	18.46	18.57	18.23
Remark: 1. SAR testing was performed on the maximum frame-averaged power mode. 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum Burst - averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB Frame-averaged power = Burst averaged power (3 TX Slots) - 4.26 dB Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB						



WCDMA

Band	WCDMA Band 2			WCDMA Band 4			WCDMA Band 5		
Channel	9262	9400	9538	1312	1450	1513	4132	4182	4233
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740	1752.4	826.4	836.4	846.6
RMC 12.2Kbps	23.35	23.39	23.32	23.49	23.5	23.59	23.25	23.44	23.59
HSDPA Subtest-1	22.22	22.21	22.12	22.47	22.54	22.54	22.28	22.47	22.46
HSDPA Subtest-2	21.59	21.84	21.44	22.04	22.05	22.11	21.75	21.88	22.12
HSDPA Subtest-3	20.64	20.46	20.56	21.04	21.02	20.97	20.75	20.81	21.04
HSDPA Subtest-4	20.74	20.7	20.87	21.07	21	20.76	20.76	21.08	20.77
HSUPA Subtest-1	21.15	21.96	21.84	21.37	22.25	22.42	20.66	22.21	22.23
HSUPA Subtest-2	22.06	22.04	21.87	22.47	22.35	22.35	22.25	22.2	22.36
HSUPA Subtest-3	20.44	20.56	20.68	20.84	21.41	21.24	20.68	21.07	21.27
HSUPA Subtest-4	22.19	22.14	22.03	22.39	22.49	22.5	22.24	22.44	22.56
HSUPA Subtest-5	20.53	21.67	21.36	21.24	22.02	21.77	20.66	21.26	21.86



Power sensor triggered power:

Configuration 1:

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	31.03	30.94	31.28	25.68	26.28	26.20
GPRS (GMSK, 1-Slot)	31.04	30.94	31.30	25.63	26.28	26.18
GPRS (GMSK, 2-Slot)	30.00	29.91	30.30	24.22	24.92	24.92
GPRS (GMSK, 3-Slot)	27.15	27.15	27.53	20.27	21.22	21.47
GPRS (GMSK, 4-Slot)	25.11	25.17	25.52	16.94	18.38	18.81
EGPRS (8PSK, 1-Slot)	/	/	/	23.08	23.40	23.09
EGPRS (8PSK, 2-Slot)	/	/	/	21.81	22.39	21.92
EGPRS (8PSK, 3-Slot)	/	/	/	19.95	20.25	19.79
EGPRS (8PSK, 4-Slot)	/	/	/	18.95	18.46	18.27
Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme. Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link						

Frame- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	22.00	21.91	22.25	16.65	17.25	17.17
GPRS (GMSK, 1-Slot)	22.01	21.91	22.27	16.60	17.25	17.15
GPRS (GMSK, 2-Slot)	23.98	23.89	24.28	18.20	18.90	18.90
GPRS (GMSK, 3-Slot)	22.89	22.89	23.27	16.01	16.96	17.21
GPRS (GMSK, 4-Slot)	22.10	22.16	22.51	13.93	15.37	15.80
EGPRS (8PSK, 1-Slot)	/	/	/	14.05	14.37	14.06
EGPRS (8PSK, 2-Slot)	/	/	/	15.79	16.37	15.90
EGPRS (8PSK, 3-Slot)	/	/	/	15.69	15.99	15.53
EGPRS (8PSK, 4-Slot)	/	/	/	15.94	15.45	15.26
Remark: 1. SAR testing was performed on the maximum frame-averaged power mode. 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum Burst - averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB Frame-averaged power = Burst averaged power (3 TX Slots) - 4.26 dB Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB						



WCDMA

Band	WCDMA Band 2			WCDMA Band 4			WCDMA Band 5		
Channel	9262	9400	9538	1312	1450	1513	4132	4182	4233
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740	1752.4	826.4	836.4	846.6
RMC 12.2Kbps	14.34	14.43	14.36	14.78	14.64	14.75	22.48	22.51	22.58
HSDPA Subtest-1	13.43	13.56	13.48	13.9	13.73	13.88	21.5	21.48	21.67
HSDPA Subtest-2	12.91	12.85	12.93	13.09	13.12	13.28	21.19	21.07	21.11
HSDPA Subtest-3	11.94	11.74	11.62	12.01	12.26	12.19	20.05	19.64	19.66
HSDPA Subtest-4	11.98	12.07	11.96	12.23	12.29	11.82	19.48	19.76	20.21
HSUPA Subtest-1	12.2	13.24	13.23	12.93	13.52	13.55	20.51	21.38	21.51
HSUPA Subtest-2	13.21	13.31	13.28	13.66	13.5	13.77	21.31	21.47	21.51
HSUPA Subtest-3	11.6	12.18	12.05	12.15	12.73	12.56	19.82	19.95	20.23
HSUPA Subtest-4	13.35	13.45	13.46	13.86	13.72	13.85	21.49	21.5	21.66
HSUPA Subtest-5	11.97	12.38	12.49	12.5	12.6	12.77	20.31	20.77	20.97



Configuration 2:

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	32.33	32.11	32.45	29.15	29.53	29.25
GPRS (GMSK, 1-Slot)	32.35	32.10	32.46	29.15	29.52	29.25
GPRS (GMSK, 2-Slot)	31.49	31.27	31.62	28.24	28.64	28.44
GPRS (GMSK, 3-Slot)	29.30	29.14	29.46	26.00	26.48	26.40
GPRS (GMSK, 4-Slot)	27.82	27.69	28.05	24.55	25.11	25.09
EGPRS (8PSK, 1-Slot)	/	/	/	25.38	25.99	25.82
EGPRS (8PSK, 2-Slot)	/	/	/	24.44	24.72	24.92
EGPRS (8PSK, 3-Slot)	/	/	/	22.62	22.65	22.74
EGPRS (8PSK, 4-Slot)	/	/	/	21.18	21.62	21.37
Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme. Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link						

Frame- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	23.30	23.08	23.42	20.12	20.50	20.22
GPRS (GMSK, 1-Slot)	23.32	23.07	23.43	20.12	20.49	20.22
GPRS (GMSK, 2-Slot)	25.47	25.25	25.60	22.22	22.62	22.42
GPRS (GMSK, 3-Slot)	25.04	24.88	25.20	21.74	22.22	22.14
GPRS (GMSK, 4-Slot)	24.81	24.68	25.04	21.54	22.10	22.08
EGPRS (8PSK, 1-Slot)	/	/	/	16.35	16.96	16.79
EGPRS (8PSK, 2-Slot)	/	/	/	18.42	18.70	18.90
EGPRS (8PSK, 3-Slot)	/	/	/	18.36	18.39	18.48
EGPRS (8PSK, 4-Slot)	/	/	/	18.17	18.61	18.36
Remark: 1. SAR testing was performed on the maximum frame-averaged power mode. 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum Burst - averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB Frame-averaged power = Burst averaged power (3 TX Slots) - 4.26 dB Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB						



WCDMA

Band	WCDMA Band 2			WCDMA Band 4		
Channel	9262	9400	9538	1312	1450	1513
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740	1752.4
RMC 12.2Kbps	20.41	20.52	20.48	20.83	20.75	20.73
HSDPA Subtest-1	19.45	19.57	19.57	19.85	19.8	19.77
HSDPA Subtest-2	18.8	19.13	18.72	19.36	19.07	19.17
HSDPA Subtest-3	18.08	17.97	17.9	18.18	18.38	18.29
HSDPA Subtest-4	17.61	18.3	18.17	18.38	18.66	18.27
HSUPA Subtest-1	18.38	19.29	19.3	18.91	19.53	19.61
HSUPA Subtest-2	19.33	19.32	19.24	19.73	19.54	19.58
HSUPA Subtest-3	17.44	18.24	18.14	18.14	18.22	18.81
HSUPA Subtest-4	19.41	19.47	19.5	19.82	19.8	19.75
HSUPA Subtest-5	17.9	18.83	18.9	18.53	18.91	19.09

According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1A: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM (db)	MPR (db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$
Note: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$.For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.



2.4G WLAN

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11b	1	2412	16.61	45.81
	7	2437	16.47	44.36
	11	2462	16.79	47.75
802.11g	1	2412	15.60	36.31
	7	2437	15.43	34.91
	11	2462	15.36	34.36
802.11 n-HT20	1	2412	14.33	27.10
	7	2437	14.33	27.10
	11	2462	14.25	26.61
802.11 n-HT40	3	2422	14.88	30.76
	6	2437	14.59	28.77
	9	2452	14.35	27.23

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	4.26	2.67
	39	2441	4.39	2.75
	78	2480	3.59	2.29
$\pi/4$ -QPSK(2Mbps)	0	2402	3.38	2.18
	39	2441	3.59	2.29
	78	2480	2.73	1.87
8DPSK(3Mbps)	0	2402	3.39	2.18
	39	2441	3.63	2.31
	78	2480	2.76	1.89

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-2.69	0.54
	19	2440	-2.51	0.56
	39	2480	-3.46	0.45
GFSK(2Mbps)	0	2402	-2.79	0.53
	19	2440	-2.66	0.54
	39	2480	-3.61	0.44



WLAN (5.2Gband)

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	36	5180	10.48	11.17
	40	5200	10.36	10.86
	48	5240	10.23	10.54
802.11 n-HT20	36	5180	9.22	8.36
	40	5200	9.23	8.38
	48	5240	9.28	8.47
802.11 n-HT40	38	5190	9.12	8.17
	46	5230	9.23	8.38
802.11ac-VHT20	36	5180	9.26	8.43
	40	5200	9.46	8.83
	48	5240	9.28	8.47
802.11ac-VHT40	38	5190	9.44	8.79
	46	5230	9.31	8.53
802.11ac-VHT80	42	5210	9.29	8.49

WLAN (5.3G band)5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	52	5260	8.58	7.21
	60	5300	8.51	7.10
	64	5320	8.50	7.08
802.11 n-HT20	52	5260	9.39	8.69
	60	5300	9.30	8.51
	64	5320	9.30	8.51
802.11 n-HT40	54	5270	9.22	8.36
	62	5310	8.96	7.87
802.11ac-VHT20	52	5260	9.42	8.75
	60	5300	9.30	8.51
	64	5320	9.30	8.51
802.11ac-VHT40	54	5270	9.29	8.49
	62	5310	9.11	8.15
802.11ac-VHT80	58	5290	9.02	7.98



WLAN (5.6G band)

5.6G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	100	5500	7.00	5.01
	116	5580	7.39	5.48
	140	5700	7.97	6.27
802.11 n-HT20	100	5500	8.75	7.50
	116	5580	9.17	8.26
	140	5700	9.75	9.44
802.11 n-HT40	102	5510	8.29	6.75
	110	5550	8.55	7.16
	134	5670	9.47	8.85
802.11ac-VHT20	100	5500	8.78	7.55
	116	5580	9.35	8.61
	140	5700	10.02	10.05
802.11ac-VHT40	102	5510	8.58	7.21
	110	5550	8.81	7.60
	134	5670	9.51	8.93
802.11ac-VHT80	106	5530	8.11	6.47
	122	5610	8.40	6.92

WLAN (5.8G band)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	149	5745	9.08	8.09
	157	5785	8.84	7.66
	165	5825	8.70	7.41
802.11 n-HT20	149	5745	8.93	7.82
	157	5785	8.72	7.45
	165	5825	8.82	7.62
802.11 n-HT40	151	5755	8.57	7.19
	159	5795	8.55	7.16
802.11ac-VHT20	149	5745	8.99	7.93
	157	5785	8.99	7.93
	165	5825	8.80	7.59
802.11ac-VHT40	151	5755	8.77	7.53
	159	5795	8.67	7.36
802.11ac-VHT80	155	5775	8.09	6.44

NFC

Field strength(dBuV/m)	ERP(dBm)
51.62	-43.58

Note. The power of this EUT NFC is -43.58dBm (0.00004mW), this power is less than the defined low power exclusion level (Pmax: 39 mW), so NFC is exemption.



LTE Conducted Power

General Note:

1. Anritsu CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.



Normal Output Power:

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.86	23.90	23.77
1.4	1	2		24.01	24.07	23.96
1.4	1	5		23.87	23.93	23.74
1.4	3	0		23.91	23.95	23.95
1.4	3	1		23.94	23.93	23.93
1.4	3	2		23.93	23.98	23.92
1.4	6	0		22.85	22.82	22.80
1.4	1	0	16-QAM	22.71	23.12	23.08
1.4	1	2		22.87	23.19	23.15
1.4	1	5		22.73	23.11	23.04
1.4	3	0		23.08	23.15	23.15
1.4	3	1		23.07	23.18	23.18
1.4	3	2		23.10	23.16	23.17
1.4	6	0		22.11	22.13	22.06
3	1	0	QPSK	23.28	23.40	23.25
3	1	7		23.56	23.62	23.45
3	1	14		23.37	23.29	23.32
3	8	0		22.36	22.47	22.50
3	8	4		22.47	22.50	22.36
3	8	7		22.36	22.47	22.29
3	15	0		22.42	22.50	22.41
3	1	0	16-QAM	23.10	22.86	23.34
3	1	7		23.42	23.07	23.56
3	1	14		23.11	22.82	23.32
3	8	0		22.00	21.96	21.99
3	8	4		22.00	22.00	22.01
3	8	7		21.98	21.99	22.04
3	15	0		21.97	22.09	22.04



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.81	23.85	23.81
5	1	12		24.20	24.15	24.18
5	1	24		23.79	23.79	23.82
5	12	0		22.88	22.91	22.90
5	12	6		22.95	22.96	22.93
5	12	11		22.87	22.96	22.90
5	25	0		22.94	22.92	22.90
5	1	0	16-QAM	23.18	23.27	23.35
5	1	12		23.51	23.52	23.82
5	1	24		23.19	23.24	23.43
5	12	0		21.95	22.09	21.96
5	12	6		21.95	22.10	22.04
5	12	11		21.98	22.03	21.97
5	25	0		22.05	22.00	21.99
10	1	0	QPSK	23.96	23.95	23.47
10	1	24		23.98	24.06	23.64
10	1	49		23.95	23.90	23.52
10	25	0		22.97	22.96	22.58
10	25	12		22.94	22.97	22.66
10	25	24		23.03	23.05	22.51
10	50	0		22.98	23.01	22.48
10	1	0	16-QAM	22.85	23.46	22.55
10	1	24		22.85	23.49	22.63
10	1	49		22.83	23.29	22.66
10	25	0		22.06	22.12	21.67
10	25	12		22.02	22.15	21.57
10	25	24		22.16	22.18	21.58
10	50	0		22.08	22.06	21.59



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.78	23.47	23.30
15	1	37		24.11	23.79	23.68
15	1	74		23.76	23.37	23.41
15	36	0		22.91	22.46	22.44
15	36	18		22.86	22.57	22.40
15	36	39		22.72	22.52	22.44
15	75	0		22.85	22.53	22.43
15	1	0	16-QAM	23.06	22.67	22.44
15	1	38		23.19	23.00	22.75
15	1	75		22.93	22.62	22.49
15	36	0		21.80	21.60	21.46
15	36	18		21.86	21.62	21.41
15	36	39		21.79	21.60	21.48
15	75	0		21.68	21.52	21.51
20	1	0	QPSK	23.86	23.95	23.83
20	1	49		24.11	24.32	24.20
20	1	99		23.91	23.99	23.86
20	50	0		22.88	22.90	22.85
20	50	24		22.88	22.91	22.94
20	50	49		22.88	22.89	22.90
20	100	0		22.87	22.92	22.84
20	1	0	16-QAM	22.68	22.71	22.59
20	1	49		22.91	22.92	22.75
20	1	99		22.76	22.61	22.65
20	50	0		21.58	21.59	21.64
20	50	24		21.68	21.60	21.56
20	50	49		21.54	21.61	21.44
20	100	0		21.51	21.62	21.57



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.89	22.78	22.97
1.4	1	2		23.02	22.97	23.13
1.4	1	5		22.89	22.80	22.94
1.4	3	0		23.02	22.91	22.96
1.4	3	1		23.01	22.86	22.98
1.4	3	2		23.01	22.87	23.01
1.4	6	0		21.92	21.83	21.98
1.4	1	0	16-QAM	22.20	21.78	22.18
1.4	1	2		22.30	21.92	22.30
1.4	1	5		22.22	21.80	22.19
1.4	3	0		22.34	22.14	22.29
1.4	3	1		22.41	22.18	22.28
1.4	3	2		22.39	22.19	22.29
1.4	6	0		21.20	21.09	21.27
3	1	0	QPSK	22.74	22.74	22.75
3	1	7		22.92	23.02	23.11
3	1	14		22.67	22.84	22.86
3	8	0		21.99	21.82	22.04
3	8	4		21.97	21.96	22.11
3	8	7		21.97	22.01	21.91
3	15	0		22.01	21.92	22.02
3	1	0	16-QAM	22.37	22.84	22.21
3	1	7		22.71	23.12	22.60
3	1	14		22.35	22.68	22.22
3	8	0		21.53	21.35	21.04
3	8	4		21.54	21.48	21.07
3	8	7		21.53	21.36	21.01
3	15	0		21.58	21.22	20.98



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.82	22.68	22.85
5	1	12		23.25	23.06	23.24
5	1	24		22.83	22.73	22.86
5	12	0		22.00	21.84	22.08
5	12	6		22.04	21.97	22.10
5	12	11		22.00	21.91	21.99
5	25	0		22.03	21.92	22.05
5	1	0	16-QAM	22.35	22.19	22.54
5	1	12		22.67	22.60	22.88
5	1	24		22.32	22.24	22.53
5	12	0		21.01	21.00	21.09
5	12	6		21.03	21.00	21.18
5	12	11		20.98	20.99	21.04
5	25	0		21.12	20.92	21.11
10	1	0	QPSK	22.91	22.87	22.98
10	1	24		22.99	22.92	23.09
10	1	49		22.83	22.87	22.97
10	25	0		22.06	21.89	22.11
10	25	12		21.99	21.96	22.04
10	25	24		21.99	22.05	22.00
10	50	0		22.04	21.97	22.07
10	1	0	16-QAM	22.46	22.10	21.91
10	1	24		22.57	22.21	22.10
10	1	49		22.50	22.13	21.93
10	25	0		21.14	20.94	21.21
10	25	12		21.09	20.99	21.06
10	25	24		21.08	21.03	21.05
10	50	0		21.13	21.05	21.10



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.89	22.70	22.89
15	1	37		23.16	23.10	23.30
15	1	74		22.78	22.80	22.87
15	36	0		22.02	21.79	22.07
15	36	18		21.98	21.96	22.07
15	36	39		21.98	21.99	21.96
15	75	0		22.01	21.91	22.04
15	1	0	16-QAM	22.06	22.30	22.13
15	1	38		22.48	22.78	22.57
15	1	75		21.98	22.42	22.14
15	36	0		20.98	20.91	21.19
15	36	18		20.98	20.98	21.17
15	36	39		20.96	21.03	21.05
15	75	0		21.05	20.95	21.03
20	1	0	QPSK	23.49	23.34	22.98
20	1	49		23.85	23.61	23.39
20	1	99		23.55	23.31	23.03
20	50	0		22.42	22.31	22.13
20	50	24		22.44	22.32	22.00
20	50	49		22.40	22.25	22.03
20	100	0		22.40	22.18	22.04
20	1	0	16-QAM	22.24	22.13	22.13
20	1	49		22.44	22.39	22.46
20	1	99		22.18	22.21	22.23
20	50	0		21.13	20.85	21.15
20	50	24		21.10	21.02	21.19
20	50	49		21.12	21.04	21.00
20	100	0		21.07	21.00	21.13



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.64	23.72	23.94
1.4	1	2		23.84	23.93	24.11
1.4	1	5		23.75	23.71	23.92
1.4	3	0		23.67	23.84	23.97
1.4	3	1		23.66	23.84	23.96
1.4	3	2		23.70	23.82	23.97
1.4	6	0		22.65	22.76	22.92
1.4	1	0	16-QAM	22.81	22.96	22.80
1.4	1	2		22.96	23.03	22.95
1.4	1	5		22.86	22.99	22.79
1.4	3	0		22.87	23.07	23.11
1.4	3	1		22.89	23.10	23.12
1.4	3	2		22.86	23.11	23.16
1.4	6	0		21.86	22.00	22.12
3	1	0	QPSK	23.55	23.68	23.75
3	1	7		23.79	23.94	23.97
3	1	14		23.71	23.91	23.91
3	8	0		22.61	22.79	22.91
3	8	4		22.67	22.79	22.92
3	8	7		22.68	22.85	22.88
3	15	0		22.67	22.83	22.88
3	1	0	16-QAM	22.80	22.65	23.35
3	1	7		23.17	22.97	23.67
3	1	14		22.87	22.69	23.38
3	8	0		21.66	21.79	22.00
3	8	4		21.70	21.79	21.99
3	8	7		21.69	21.84	21.96
3	15	0		21.63	21.94	21.96



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.49	23.58	23.81
5	1	12		23.95	24.06	24.17
5	1	24		23.60	23.70	23.88
5	12	0		22.59	22.76	22.90
5	12	6		22.66	22.83	22.98
5	12	11		22.63	22.78	22.89
5	25	0		22.64	22.80	22.92
5	1	0	16-QAM	22.88	22.94	23.37
5	1	12		23.22	23.40	23.76
5	1	24		22.92	23.08	23.40
5	12	0		21.58	21.86	22.00
5	12	6		21.69	21.93	22.03
5	12	11		21.69	21.90	21.89
5	25	0		21.73	21.87	21.97
10	1	0	QPSK	23.57	23.75	23.89
10	1	24		23.79	24.07	24.20
10	1	49		23.64	23.89	23.90
10	25	0		22.54	22.72	22.92
10	25	12		22.59	22.77	22.95
10	25	24		22.62	22.78	22.90
10	50	0		22.53	22.74	22.91
10	1	0	16-QAM	22.73	22.55	23.26
10	1	24		22.95	22.74	23.48
10	1	49		22.90	22.77	23.36
10	25	0		21.69	21.89	22.02
10	25	12		21.75	21.85	22.05
10	25	24		21.77	21.94	21.96
10	50	0		21.81	21.88	21.97



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.36	22.52	22.49
5	1	12		22.66	22.71	22.73
5	1	24		22.56	22.41	22.58
5	12	0		21.36	21.64	21.45
5	12	6		21.52	21.57	21.62
5	12	11		21.65	21.45	21.63
5	25	0		21.53	21.50	21.55
5	1	0	16-QAM	22.09	22.27	22.54
5	1	12		22.46	22.67	22.91
5	1	24		22.12	22.25	22.53
5	12	0		20.80	21.01	20.99
5	12	6		20.82	21.05	21.07
5	12	11		20.78	20.95	21.02
5	25	0		20.92	20.96	21.01
10	1	0	QPSK	22.87	23.06	23.12
10	1	24		22.99	23.17	23.22
10	1	49		22.93	22.96	23.12
10	25	0		21.95	22.11	22.12
10	25	12		21.97	22.05	22.07
10	25	24		22.09	21.98	22.12
10	50	0		22.00	22.06	22.11
10	1	0	16-QAM	22.34	22.24	21.95
10	1	24		22.42	22.32	22.06
10	1	49		22.45	22.14	21.96
10	25	0		20.98	21.13	21.09
10	25	12		20.97	21.06	21.07
10	25	24		21.09	21.02	21.11
10	50	0		21.00	21.10	21.12



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.81	22.67	22.47
15	1	37		23.15	22.93	22.84
15	1	74		22.98	22.53	22.52
15	36	0		21.94	21.76	21.52
15	36	18		22.05	21.68	21.59
15	36	39		22.13	21.53	21.59
15	75	0		22.07	21.64	21.61
15	1	0	16-QAM	21.87	21.68	21.91
15	1	38		22.36	21.95	22.29
15	1	75		22.16	21.54	21.95
15	36	0		20.83	20.53	20.52
15	36	18		20.79	20.51	20.64
15	36	39		20.96	20.41	20.59
15	75	0		20.82	20.55	20.60
20	1	0	QPSK	22.76	22.86	22.91
20	1	49		23.08	23.25	23.30
20	1	99		22.80	22.81	22.97
20	50	0		21.84	21.99	22.02
20	50	24		21.91	22.03	22.07
20	50	49		21.85	21.95	22.01
20	100	0		21.91	21.99	22.05
20	1	0	16-QAM	21.58	21.88	21.70
20	1	49		21.89	22.00	21.96
20	1	99		21.83	21.73	21.81
20	50	0		20.42	20.70	20.46
20	50	24		20.56	20.58	20.59
20	50	49		20.69	20.47	20.63
20	100	0		20.51	20.54	20.53



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.07	23.07	23.06
1.4	1	2		23.24	23.28	23.27
1.4	1	5		23.11	23.11	23.07
1.4	3	0		23.18	23.10	23.23
1.4	3	1		23.16	23.09	23.24
1.4	3	2		23.18	23.16	23.22
1.4	6	0		22.06	22.16	22.19
1.4	1	0	16-QAM	21.95	22.22	22.39
1.4	1	2		22.10	22.36	22.54
1.4	1	5		21.96	22.23	22.44
1.4	3	0		22.29	22.33	22.46
1.4	3	1		22.29	22.36	22.55
1.4	3	2		22.36	22.36	22.53
1.4	6	0		21.28	21.32	21.44
3	1	0	QPSK	23.13	22.97	23.15
3	1	7		23.45	23.21	23.40
3	1	14		23.20	23.04	23.14
3	8	0		22.06	22.10	22.20
3	8	4		22.09	22.16	22.25
3	8	7		22.09	22.16	22.23
3	15	0		22.07	22.12	22.21
3	1	0	16-QAM	22.00	22.53	22.48
3	1	7		22.43	22.77	22.76
3	1	14		21.96	22.55	22.43
3	8	0		21.11	21.15	21.27
3	8	4		21.12	21.20	21.30
3	8	7		21.12	21.22	21.24
3	15	0		21.17	21.18	21.21



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.09	23.03	22.99
5	1	12		23.28	23.17	23.24
5	1	24		23.18	23.13	23.19
5	12	0		22.22	22.14	22.15
5	12	6		22.17	22.18	22.22
5	12	11		22.29	22.30	22.22
5	25	0		22.29	22.22	22.20
5	1	0	16-QAM	22.41	22.32	22.66
5	1	12		22.79	22.72	23.07
5	1	24		22.41	22.42	22.70
5	12	0		21.14	21.15	21.30
5	12	6		21.15	21.24	21.33
5	12	11		21.11	21.27	21.27
5	25	0		21.24	21.20	21.26
10	1	0	QPSK	22.99	22.93	23.03
10	1	24		23.39	23.33	23.51
10	1	49		23.04	22.99	23.10
10	25	0		22.17	22.08	22.31
10	25	12		22.21	22.20	22.29
10	25	24		22.12	22.22	22.19
10	50	0		22.19	22.20	22.28
10	1	0	16-QAM	21.95	22.48	22.22
10	1	24		22.11	22.61	22.52
10	1	49		22.03	22.67	22.46
10	25	0		21.25	21.18	21.15
10	25	12		21.19	21.25	21.31
10	25	24		21.31	21.35	21.28
10	50	0		21.30	21.27	21.24



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.45	23.40	23.36
5	1	12		23.83	23.66	23.84
5	1	24		23.41	23.43	23.46
5	12	0		22.57	22.46	22.50
5	12	6		22.56	22.55	22.59
5	12	11		22.58	22.53	22.48
5	25	0		22.58	22.55	22.51
5	1	0	16-QAM	23.02	22.76	22.66
5	1	12		23.50	23.02	23.02
5	1	24		22.98	22.76	22.82
5	12	0		21.68	21.46	21.61
5	12	6		21.71	21.57	21.68
5	12	11		21.64	21.53	21.59
5	25	0		21.68	21.65	21.58
10	1	0	QPSK	/	23.52	/
10	1	24		/	23.98	/
10	1	49		/	23.55	/
10	25	0		/	22.53	/
10	25	12		/	22.55	/
10	25	24		/	22.62	/
10	50	0		/	22.52	/
10	1	0	16-QAM	/	22.68	/
10	1	24		/	22.77	/
10	1	49		/	22.76	/
10	25	0		/	21.59	/
10	25	12		/	21.63	/
10	25	24		/	21.64	/
10	50	0		/	21.65	/



LTE Band 14 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.59	24.54	24.63
5	1	12		24.90	24.98	25.08
5	1	24		24.66	24.58	24.69
5	12	0		23.62	23.67	23.67
5	12	6		23.75	23.76	23.76
5	12	11		23.72	23.72	23.71
5	25	0		23.67	23.73	23.70
5	1	0	16-QAM	23.82	23.83	24.08
5	1	12		24.23	24.20	23.63
5	1	24		23.92	23.86	24.13
5	12	0		22.52	22.68	22.66
5	12	6		22.63	22.78	22.73
5	12	11		22.63	22.71	22.70
5	25	0		22.67	22.67	22.65
10	1	0	QPSK	/	24.75	/
10	1	24		/	25.10	/
10	1	49		/	24.85	/
10	25	0		/	23.69	/
10	25	12		/	23.71	/
10	25	24		/	23.80	/
10	50	0		/	23.74	/
10	1	0	16-QAM	/	23.47	/
10	1	24		/	24.43	/
10	1	49		/	23.58	/
10	25	0		/	22.64	/
10	25	12		/	22.73	/
10	25	24		/	22.77	/
10	50	0		/	22.67	/



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.07	23.13	23.21
5	1	12		23.35	23.37	23.48
5	1	24		23.31	23.33	23.41
5	12	0		22.24	22.25	22.29
5	12	6		22.35	22.38	22.39
5	12	11		22.34	22.33	22.33
5	25	0		22.33	22.33	22.34
5	1	0	16-QAM	22.67	22.50	22.57
5	1	12		23.03	22.98	23.00
5	1	24		22.76	22.66	22.63
5	12	0		21.23	21.23	21.49
5	12	6		21.33	21.35	21.46
5	12	11		21.37	21.30	21.40
5	25	0		21.30	21.34	21.40
10	1	0	QPSK	23.05	23.13	23.14
10	1	24		23.35	23.72	23.64
10	1	49		23.18	23.24	23.19
10	25	0		22.25	22.30	22.46
10	25	12		22.35	22.43	22.48
10	25	24		22.40	22.35	22.39
10	50	0		22.30	22.34	22.40
10	1	0	16-QAM	22.59	22.37	22.05
10	1	24		22.86	22.58	22.41
10	1	49		22.82	22.58	22.27
10	25	0		21.29	21.30	21.33
10	25	12		21.42	21.42	21.40
10	25	24		21.37	21.37	21.35
10	50	0		21.34	21.35	21.34



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.45	23.50	23.42
1.4	1	2		23.64	23.67	23.59
1.4	1	5		23.50	23.53	23.39
1.4	3	0		23.54	23.48	23.54
1.4	3	1		23.58	23.50	23.52
1.4	3	2		23.55	23.52	23.54
1.4	6	0		22.49	22.44	22.43
1.4	1	0	16-QAM	22.35	22.70	22.67
1.4	1	2		22.51	22.78	22.78
1.4	1	5		22.42	22.69	22.67
1.4	3	0		22.69	22.74	22.77
1.4	3	1		22.71	22.77	22.79
1.4	3	2		22.70	22.73	22.81
1.4	6	0		21.76	21.72	21.70
3	1	0	QPSK	23.34	23.41	23.32
3	1	7		23.57	23.58	23.64
3	1	14		23.44	23.24	23.46
3	8	0		22.47	22.48	22.56
3	8	4		22.52	22.54	22.48
3	8	7		22.42	22.45	22.50
3	15	0		22.46	22.48	22.53
3	1	0	16-QAM	22.95	22.75	22.44
3	1	7		23.36	23.18	22.75
3	1	14		22.87	22.68	22.39
3	8	0		21.61	21.57	21.59
3	8	4		21.62	21.60	21.58
3	8	7		21.61	21.55	21.55
3	15	0		21.63	21.52	21.64



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.34	23.37	23.36
5	1	12		23.69	23.86	23.78
5	1	24		23.34	23.36	23.40
5	12	0		22.50	22.44	22.45
5	12	6		22.55	22.55	22.56
5	12	11		22.48	22.48	22.48
5	25	0		22.54	22.51	22.49
5	1	0	16-QAM	22.72	23.00	22.77
5	1	12		23.16	23.46	23.25
5	1	24		22.73	22.96	22.72
5	12	0		21.67	21.55	21.53
5	12	6		21.71	21.66	21.61
5	12	11		21.53	21.59	21.49
5	25	0		21.62	21.58	21.64
10	1	0	QPSK	23.51	23.47	23.43
10	1	24		23.64	23.56	23.66
10	1	49		23.52	23.34	23.45
10	25	0		22.59	22.53	22.56
10	25	12		22.51	22.51	22.54
10	25	24		22.60	22.50	22.52
10	50	0		22.57	22.57	22.56
10	1	0	16-QAM	22.40	22.97	22.61
10	1	24		22.53	23.08	22.83
10	1	49		22.38	22.89	22.69
10	25	0		21.66	21.67	21.64
10	25	12		21.62	21.65	21.66
10	25	24		21.65	21.71	21.60
10	50	0		21.69	21.70	21.68



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.42	23.46	23.32
15	1	37		23.77	23.69	23.76
15	1	74		23.51	23.33	23.41
15	36	0		22.53	22.52	22.54
15	36	18		22.54	22.55	22.52
15	36	39		22.54	22.51	22.54
15	75	0		22.54	22.52	22.57
15	1	0	16-QAM	22.54	22.95	22.52
15	1	38		22.92	23.28	22.99
15	1	75		22.57	22.82	22.63
15	36	0		21.50	21.59	21.66
15	36	18		21.57	21.66	21.68
15	36	39		21.54	21.53	21.65
15	75	0		21.64	21.58	21.60
20	1	0	QPSK	23.45	23.52	23.51
20	1	49		24.01	23.82	23.85
20	1	99		23.49	23.43	23.55
20	50	0		22.49	22.43	22.49
20	50	24		22.49	22.51	22.49
20	50	49		22.51	22.46	22.43
20	100	0		22.48	22.48	22.47
20	1	0	16-QAM	22.65	22.82	22.56
20	1	49		22.88	22.96	22.85
20	1	99		22.74	22.65	22.67
20	50	0		21.58	21.71	21.71
20	50	24		21.68	21.72	21.56
20	50	49		21.58	21.61	21.55
20	100	0		21.60	21.64	21.64



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.91	23.72	23.71
1.4	1	2		24.08	23.90	23.87
1.4	1	5		23.89	23.64	23.70
1.4	3	0		23.89	23.85	23.78
1.4	3	1		23.92	23.86	23.75
1.4	3	2		23.93	23.80	23.75
1.4	6	0		22.85	22.75	22.67
1.4	1	0	16-QAM	23.06	22.96	22.60
1.4	1	2		23.17	23.06	22.74
1.4	1	5		23.04	22.90	22.61
1.4	3	0		23.10	23.03	22.90
1.4	3	1		23.13	23.10	22.92
1.4	3	2		23.04	23.05	22.92
1.4	6	0		22.13	22.04	21.97
3	1	0	QPSK	23.88	23.84	23.75
3	1	7		24.17	23.88	24.01
3	1	14		23.83	23.83	23.67
3	8	0		22.81	22.72	22.68
3	8	4		22.86	22.77	22.72
3	8	7		22.86	22.70	22.72
3	15	0		22.80	22.74	22.68
3	1	0	16-QAM	23.10	22.71	23.20
3	1	7		23.45	23.11	23.47
3	1	14		23.04	22.64	23.15
3	8	0		21.94	21.80	21.81
3	8	4		21.94	21.83	21.84
3	8	7		21.94	21.81	21.80
3	15	0		21.85	21.88	21.84



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.74	23.72	23.66
5	1	12		24.09	24.04	24.07
5	1	24		23.64	23.67	23.61
5	12	0		22.79	22.78	22.70
5	12	6		22.89	22.81	22.76
5	12	11		22.85	22.68	22.74
5	25	0		22.87	22.75	22.74
5	1	0	16-QAM	23.09	23.28	23.02
5	1	12		23.47	23.58	23.40
5	1	24		23.00	23.20	22.98
5	12	0		21.89	21.84	21.75
5	12	6		22.01	21.89	21.82
5	12	11		21.89	21.79	21.70
5	25	0		21.91	21.81	21.87
10	1	0	QPSK	/	23.84	/
10	1	24		/	24.21	/
10	1	49		/	23.83	/
10	25	0		/	22.86	/
10	25	12		/	22.80	/
10	25	24		/	22.82	/
10	50	0		/	22.82	/
10	1	0	16-QAM	/	23.04	/
10	1	24		/	23.06	/
10	1	49		/	22.92	/
10	25	0		/	21.96	/
10	25	12		/	21.90	/
10	25	24		/	21.91	/
10	50	0		/	21.94	/



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.58	23.68	23.67
1.4	1	2		24.04	24.13	24.19
1.4	1	5		23.83	24.01	23.95
1.4	3	0		22.74	22.79	22.85
1.4	3	1		22.80	22.85	22.98
1.4	3	2		22.80	22.90	23.02
1.4	6	0		22.77	22.93	22.96
1.4	1	0	16-QAM	23.31	22.99	22.89
1.4	1	2		23.26	23.12	23.02
1.4	1	5		22.96	23.05	22.88
1.4	3	0		23.03	23.10	23.21
1.4	3	1		22.95	23.08	23.19
1.4	3	2		22.94	23.14	23.19
1.4	6	0		21.98	22.06	22.21
3	1	0	QPSK	23.74	23.83	24.00
3	1	7		24.01	24.21	24.29
3	1	14		23.79	23.96	23.97
3	8	0		22.68	22.80	23.04
3	8	4		22.70	22.82	23.07
3	8	7		22.72	22.79	23.03
3	15	0		22.66	22.80	22.99
3	1	0	16-QAM	22.92	22.73	23.48
3	1	7		23.23	23.06	23.76
3	1	14		22.99	22.78	23.41
3	8	0		21.79	21.89	22.11
3	8	4		21.83	21.89	22.12
3	8	7		21.80	21.91	22.07
3	15	0		21.73	21.98	22.04



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.60	23.66	23.90
5	1	12		23.90	24.12	24.32
5	1	24		23.67	23.75	23.97
5	12	0		22.69	22.82	23.07
5	12	6		22.75	22.86	23.08
5	12	11		22.70	22.82	23.01
5	25	0		22.71	22.84	23.09
5	1	0	16-QAM	22.97	23.02	23.47
5	1	12		23.37	23.48	23.90
5	1	24		23.03	23.15	23.51
5	12	0		21.69	21.95	22.09
5	12	6		21.78	21.99	22.10
5	12	11		21.77	21.91	22.00
5	25	0		21.80	21.91	22.04
10	1	0	QPSK	23.72	23.69	23.89
10	1	24		23.94	23.90	24.10
10	1	49		23.89	23.93	24.06
10	25	0		22.75	22.90	23.03
10	25	12		22.77	22.88	23.05
10	25	24		22.82	22.94	22.98
10	50	0		22.77	22.92	23.03
10	1	0	16-QAM	22.59	23.11	23.07
10	1	24		22.76	23.35	23.35
10	1	49		22.70	23.40	23.23
10	25	0		21.81	22.02	22.07
10	25	12		21.86	21.99	22.14
10	25	24		21.89	22.03	21.99
10	50	0		21.83	22.00	22.13



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.26	23.79	24.05
15	1	37		24.44	23.94	24.13
15	1	74		24.24	23.73	24.04
15	36	0		24.22	23.89	24.06
15	36	18		24.26	23.88	24.09
15	36	39		24.27	23.89	24.07
15	75	0		23.17	22.80	23.00
15	1	0	16-QAM	22.81	22.75	23.14
15	1	38		23.13	23.28	23.63
15	1	75		23.05	23.06	23.45
15	36	0		21.82	21.81	21.97
15	36	18		21.89	21.88	22.08
15	36	39		21.88	21.93	22.00
15	75	0		21.80	21.98	22.05



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.72	22.78	22.76
5	1	12		22.96	23.09	23.07
5	1	24		22.65	22.77	22.82
5	12	0		21.82	21.87	21.86
5	12	6		21.89	21.91	21.92
5	12	11		21.87	21.86	21.82
5	25	0		21.86	21.90	21.89
5	1	0	16-QAM	22.16	22.44	22.15
5	1	12		22.34	22.70	22.40
5	1	24		22.08	22.47	22.19
5	12	0		20.88	20.84	20.86
5	12	6		20.90	20.93	20.88
5	12	11		20.91	20.89	20.81
5	25	0		20.79	20.87	20.90
10	1	0	QPSK	22.84	22.83	22.88
10	1	24		23.02	23.01	23.03
10	1	49		22.74	22.90	22.86
10	25	0		21.82	21.95	22.02
10	25	12		21.87	21.90	21.92
10	25	24		21.94	21.92	21.85
10	50	0		21.88	21.94	21.93
10	1	0	16-QAM	22.40	22.02	21.87
10	1	24		22.50	22.18	22.02
10	1	49		22.34	22.06	21.90
10	25	0		20.94	20.92	21.04
10	25	12		20.94	20.88	20.91
10	25	24		20.98	20.98	20.87
10	50	0		20.87	21.02	20.95



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.69	22.65	22.78
15	1	37		23.02	23.07	23.13
15	1	74		22.72	22.73	22.76
15	36	0		21.71	21.82	21.96
15	36	18		21.85	21.92	21.93
15	36	39		21.92	21.86	21.78
15	75	0		21.82	21.83	21.89
15	1	0	16-QAM	22.31	21.94	22.13
15	1	38		22.56	22.25	22.41
15	1	75		22.23	21.97	22.09
15	36	0		20.82	20.92	20.91
15	36	18		20.89	20.98	20.92
15	36	39		20.92	20.96	20.84
15	75	0		20.84	20.87	20.98
20	1	0	QPSK	22.74	22.71	22.82
20	1	49		22.97	23.03	23.16
20	1	99		22.72	22.79	22.80
20	50	0		21.82	21.89	21.97
20	50	24		21.89	21.94	21.95
20	50	49		21.91	21.91	21.86
20	100	0		21.85	21.90	21.92
20	1	0	16-QAM	21.94	22.00	22.04
20	1	49		22.25	22.40	22.39
20	1	99		21.94	22.09	22.03
20	50	0		20.76	20.90	20.94
20	50	24		20.89	20.97	20.96
20	50	49		20.96	20.93	20.80
20	100	0		20.85	20.86	20.90



LTE Band 41 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest1	Lowest2	Middle	Highest 1	Highest 2
5	1	0	QPSK	22.52	22.08	22.65	22.21	22.51
5	1	12		22.79	22.34	22.92	22.46	22.75
5	1	24		22.56	22.12	22.67	22.22	22.45
5	12	0		21.52	21.09	21.74	21.32	21.55
5	12	6		21.63	21.21	21.86	21.43	21.61
5	12	11		21.62	21.19	21.81	21.39	21.50
5	25	0		21.58	21.15	21.78	21.35	21.60
5	1	0	16-QAM	21.85	21.41	22.08	21.64	22.22
5	1	12		22.08	21.66	22.31	21.87	22.45
5	1	24		21.86	21.43	22.09	21.65	22.17
5	12	0		20.51	20.12	20.76	20.36	20.58
5	12	6		20.60	20.20	20.89	20.48	20.62
5	12	11		20.58	20.19	20.83	20.43	20.53
5	25	0		20.64	20.24	20.78	20.38	20.57
10	1	0	QPSK	22.54	22.11	22.77	22.33	22.69
10	1	24		22.77	22.32	22.98	22.52	22.83
10	1	49		22.62	22.18	22.84	22.39	22.57
10	25	0		21.58	21.15	21.88	21.45	21.73
10	25	12		21.64	21.21	21.88	21.45	21.69
10	25	24		21.70	21.29	21.86	21.42	21.63
10	50	0		21.64	21.22	21.88	21.45	21.66
10	1	0	16-QAM	22.08	21.64	21.98	21.55	21.67
10	1	24		22.28	21.84	22.11	21.68	21.80
10	1	49		22.14	21.70	21.99	21.56	21.57
10	25	0		20.64	20.23	20.87	20.47	20.73
10	25	12		20.70	20.30	20.90	20.48	20.69
10	25	24		20.74	20.33	20.93	20.53	20.64
10	50	0		20.66	20.26	20.89	20.47	20.67



LTE Band 41 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest1	Lowest2	Middle	Highest 1	Highest 2
15	1	0	QPSK	22.50	22.06	22.70	22.26	22.73
15	1	37		22.81	22.36	22.98	22.53	22.99
15	1	74		22.63	22.18	22.75	22.30	22.61
15	36	0		21.60	21.18	21.85	21.42	21.75
15	36	18		21.80	21.37	21.90	21.48	21.76
15	36	39		21.72	21.29	21.90	21.46	21.66
15	75	0		21.66	21.23	21.87	21.44	21.69
15	1	0	16-QAM	22.03	21.60	21.91	21.48	21.95
15	1	38		22.38	21.94	22.18	21.75	22.23
15	1	75		22.21	21.79	21.94	21.52	21.83
15	36	0		20.59	20.20	20.87	20.47	20.71
15	36	18		20.76	20.36	20.94	20.53	20.71
15	36	39		20.75	20.34	20.93	20.53	20.64
15	75	0		20.63	20.23	20.82	20.41	20.72
20	1	0	QPSK	22.52	22.08	22.63	22.18	22.62
20	1	49		22.93	22.47	23.02	22.57	22.98
20	1	99		22.75	22.31	22.74	22.30	22.58
20	50	0		21.52	21.11	21.78	21.35	21.74
20	50	24		21.72	21.30	21.85	21.42	21.78
20	50	49		21.60	21.18	21.83	21.41	21.64
20	100	0		21.57	21.15	21.84	21.41	21.70
20	1	0	16-QAM	21.73	21.30	21.98	21.54	21.90
20	1	49		22.12	21.69	22.36	21.93	22.25
20	1	99		22.02	21.60	22.09	21.66	21.83
20	50	0		20.57	20.16	20.83	20.42	20.74
20	50	24		20.78	20.38	20.92	20.51	20.75
20	50	49		20.69	20.30	20.90	20.50	20.69
20	100	0		20.56	20.16	20.79	20.39	20.73



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.90	24.75	24.83
1.4	1	2		25.05	24.97	25.01
1.4	1	5		24.85	24.78	24.86
1.4	3	0		24.87	25.02	24.92
1.4	3	1		24.90	24.95	24.92
1.4	3	2		24.87	24.92	24.93
1.4	6	0		23.86	23.84	23.88
1.4	1	0	16-QAM	23.89	23.95	23.72
1.4	1	2		23.98	24.12	23.91
1.4	1	5		23.90	23.99	23.74
1.4	3	0		24.01	24.12	24.08
1.4	3	1		24.00	24.16	24.12
1.4	3	2		24.00	24.17	24.10
1.4	6	0		22.97	23.04	23.07
3	1	0	QPSK	24.70	24.62	24.59
3	1	7		24.84	24.99	24.82
3	1	14		24.59	24.68	24.81
3	8	0		23.79	23.90	23.79
3	8	4		23.79	23.89	23.76
3	8	7		23.78	23.77	23.68
3	15	0		23.79	23.84	23.75
3	1	0	16-QAM	23.65	24.29	24.03
3	1	7		23.96	24.51	24.38
3	1	14		23.61	24.22	24.08
3	8	0		22.81	22.92	22.90
3	8	4		22.84	22.94	22.95
3	8	7		22.84	22.93	22.95
3	15	0		22.90	22.92	22.89



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.72	24.67	24.60
5	1	12		25.31	25.14	25.09
5	1	24		24.70	24.68	24.76
5	12	0		23.83	23.89	23.84
5	12	6		23.87	23.93	23.93
5	12	11		23.84	23.83	23.92
5	25	0		23.82	23.86	23.89
5	1	0	16-QAM	24.00	24.14	24.17
5	1	12		24.47	24.51	24.64
5	1	24		24.03	24.09	24.31
5	12	0		22.77	22.93	22.87
5	12	6		22.85	22.98	22.95
5	12	11		22.79	22.93	22.93
5	25	0		22.86	22.90	22.91
10	1	0	QPSK	24.90	24.80	24.67
10	1	24		24.96	24.94	24.84
10	1	49		24.80	24.79	24.91
10	25	0		23.87	23.92	23.88
10	25	12		23.86	23.92	23.84
10	25	24		23.85	23.83	23.91
10	50	0		23.87	23.95	23.87
10	1	0	16-QAM	23.64	24.25	23.82
10	1	24		23.74	24.34	24.06
10	1	49		23.68	24.23	24.09
10	25	0		22.93	22.97	22.89
10	25	12		22.90	22.99	22.88
10	25	24		22.90	22.90	22.91
10	50	0		22.91	22.97	22.97



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.72	24.80	24.57
15	1	37		25.00	25.25	24.98
15	1	74		24.61	24.84	24.81
15	36	0		23.91	23.95	23.84
15	36	18		23.84	23.96	23.82
15	36	39		23.84	23.90	23.87
15	75	0		23.80	23.92	23.86
15	1	0	16-QAM	23.85	23.92	24.02
15	1	38		24.25	24.26	24.38
15	1	75		23.83	23.88	24.24
15	36	0		22.90	22.87	22.84
15	36	18		22.91	22.91	22.83
15	36	39		22.91	22.82	22.90
15	75	0		22.86	22.94	22.83
20	1	0	QPSK	24.85	24.85	24.83
20	1	49		25.38	25.11	25.13
20	1	99		24.89	24.78	24.90
20	50	0		23.83	23.86	23.87
20	50	24		23.85	23.91	23.95
20	50	49		23.83	23.89	23.92
20	100	0		23.81	23.85	23.84
20	1	0	16-QAM	23.92	23.99	23.86
20	1	49		24.16	24.34	24.03
20	1	99		23.87	24.01	24.10
20	50	0		22.85	23.01	22.85
20	50	24		22.88	22.97	22.78
20	50	49		22.84	22.79	22.69
20	100	0		22.86	22.84	22.81



Power sensor triggered power:

Configuration 1:

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	15.11	15.22	14.90
1.4	1	2		15.13	15.28	15.02
1.4	1	5		15.05	15.18	14.88
1.4	3	0		15.08	15.25	15.16
1.4	3	1		15.08	15.28	15.18
1.4	3	2		15.07	15.29	15.23
1.4	6	0		15.07	15.14	15.22
1.4	1	0	16-QAM	14.92	14.95	14.94
1.4	1	2		15.04	15.09	15.08
1.4	1	5		14.92	14.93	15.03
1.4	3	0		14.84	15.01	15.01
1.4	3	1		14.88	15.03	15.00
1.4	3	2		14.92	15.00	14.99
1.4	6	0		14.90	14.99	15.05
3	1	0	QPSK	14.82	15.07	14.98
3	1	7		15.21	15.33	15.10
3	1	14		14.88	15.04	14.99
3	8	0		14.85	14.97	14.97
3	8	4		14.90	15.02	15.02
3	8	7		14.86	14.97	15.01
3	15	0		14.82	14.95	15.00
3	1	0	16-QAM	14.86	14.96	14.76
3	1	7		15.15	15.14	15.00
3	1	14		15.04	14.83	14.97
3	8	0		14.78	14.98	14.94
3	8	4		14.97	15.03	14.90
3	8	7		14.83	15.01	14.85
3	15	0		14.81	15.04	14.95



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	15.37	15.36	15.17
5	1	12		15.83	15.74	15.67
5	1	24		15.42	15.23	15.27
5	12	0		14.88	14.88	14.99
5	12	6		14.96	15.03	15.07
5	12	11		14.92	14.96	15.07
5	25	0		14.89	15.05	14.99
5	1	0	16-QAM	14.79	14.93	14.83
5	1	12		15.18	15.27	15.42
5	1	24		14.80	14.87	14.86
5	12	0		14.87	14.95	14.95
5	12	6		14.92	15.03	15.03
5	12	11		14.90	14.99	15.00
5	25	0		14.90	14.99	15.08
10	1	0	QPSK	15.09	15.03	15.32
10	1	24		15.29	15.08	15.50
10	1	49		15.19	14.89	15.50
10	25	0		14.98	15.06	15.11
10	25	12		14.90	15.06	15.07
10	25	24		15.04	15.13	15.08
10	50	0		15.02	15.07	15.07
10	1	0	16-QAM	14.86	15.11	14.86
10	1	24		15.00	15.18	15.04
10	1	49		14.96	15.01	14.99
10	25	0		14.87	15.03	15.07
10	25	12		14.86	15.07	15.00
10	25	24		14.99	15.07	15.05
10	50	0		14.90	15.01	15.02



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	15.64	15.62	15.35
15	1	37		15.40	15.07	15.12
15	1	74		14.95	15.13	14.96
15	36	0		14.96	15.13	14.95
15	36	18		15.03	15.07	14.94
15	36	39		14.95	15.06	15.17
15	75	0		14.99	15.08	15.08
15	1	0	16-QAM	14.83	15.02	14.91
15	1	38		15.13	15.19	15.14
15	1	75		14.93	14.88	14.99
15	36	0		14.94	15.10	15.03
15	36	18		14.99	15.08	15.01
15	36	39		15.00	15.06	15.04
15	75	0		14.99	15.08	15.08
20	1	0	QPSK	15.28	15.26	14.99
20	1	49		15.39	15.25	15.83
20	1	99		15.10	14.99	15.43
20	50	0		14.88	15.02	15.05
20	50	24		14.95	14.98	15.06
20	50	49		14.86	14.99	15.09
20	100	0		14.81	15.07	15.08
20	1	0	16-QAM	15.12	15.28	15.18
20	1	49		15.40	15.46	15.39
20	1	99		15.29	15.12	15.30
20	50	0		14.82	15.07	15.05
20	50	24		14.98	15.10	15.02
20	50	49		14.86	15.07	14.92
20	100	0		14.87	15.08	15.02



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	15.00	14.59	15.01
1.4	1	2		15.11	14.69	15.09
1.4	1	5		14.97	14.56	14.98
1.4	3	0		15.10	14.85	15.02
1.4	3	1		15.16	14.87	15.06
1.4	3	2		15.10	14.92	15.02
1.4	6	0		14.97	14.84	14.96
1.4	1	0	16-QAM	14.75	14.61	14.81
1.4	1	2		14.88	14.80	14.99
1.4	1	5		14.71	14.60	14.80
1.4	3	0		14.84	14.68	14.78
1.4	3	1		14.85	14.67	14.80
1.4	3	2		14.85	14.64	14.83
1.4	6	0		14.77	14.63	14.79
3	1	0	QPSK	15.29	14.88	14.80
3	1	7		15.55	15.21	15.02
3	1	14		15.26	14.92	14.71
3	8	0		14.87	14.68	14.81
3	8	4		14.88	14.70	14.83
3	8	7		14.85	14.67	14.81
3	15	0		14.81	14.61	14.90
3	1	0	16-QAM	14.76	14.65	14.84
3	1	7		14.98	14.94	15.08
3	1	14		14.72	14.64	14.82
3	8	0		14.80	14.61	14.79
3	8	4		14.82	14.67	14.82
3	8	7		14.78	14.65	14.75
3	15	0		14.74	14.63	14.78



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	14.67	14.54	14.65
5	1	12		15.09	14.97	14.97
5	1	24		14.64	14.57	14.63
5	12	0		14.78	14.61	14.83
5	12	6		14.83	14.67	14.86
5	12	11		14.77	14.64	14.74
5	25	0		14.75	14.64	14.80
5	1	0	16-QAM	14.80	14.54	14.56
5	1	12		14.88	14.80	14.91
5	1	24		14.64	14.75	14.71
5	12	0		14.72	14.55	14.79
5	12	6		14.77	14.71	14.82
5	12	11		14.70	14.65	14.70
5	25	0		14.69	14.65	14.79
10	1	0	QPSK	15.02	14.57	15.28
10	1	24		15.16	14.70	15.40
10	1	49		14.89	14.58	15.23
10	25	0		14.85	14.68	14.99
10	25	12		14.83	14.70	14.91
10	25	24		14.87	14.78	14.87
10	50	0		14.88	14.73	14.94
10	1	0	16-QAM	14.81	14.68	14.78
10	1	24		14.85	14.85	14.89
10	1	49		14.70	14.74	14.71
10	25	0		14.80	14.64	14.89
10	25	12		14.76	14.65	14.84
10	25	24		14.81	14.67	14.79
10	50	0		14.80	14.68	14.86



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	15.23	14.85	14.85
15	1	37		15.45	15.19	15.20
15	1	74		15.07	14.92	14.89
15	36	0		14.81	14.66	14.81
15	36	18		14.83	14.76	14.84
15	36	39		14.78	14.75	14.79
15	75	0		14.83	14.71	14.87
15	1	0	16-QAM	14.70	14.57	14.74
15	1	38		15.02	14.93	15.20
15	1	75		14.51	14.67	14.76
15	36	0		14.81	14.64	14.91
15	36	18		14.77	14.69	14.88
15	36	39		14.73	14.73	14.87
15	75	0		14.83	14.73	14.85
20	1	0	QPSK	15.29	14.94	15.13
20	1	49		15.76	15.33	15.50
20	1	99		15.31	14.98	15.08
20	50	0		14.82	14.58	14.90
20	50	24		14.86	14.66	14.89
20	50	49		14.83	14.65	14.83
20	100	0		14.81	14.71	14.82
20	1	0	16-QAM	15.06	14.88	15.00
20	1	49		15.18	15.09	15.33
20	1	99		14.96	15.01	15.07
20	50	0		14.77	14.65	14.87
20	50	24		14.79	14.78	14.92
20	50	49		14.73	14.77	14.84
20	100	0		14.80	14.69	14.84



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	21.45	21.10	21.53
1.4	1	2		21.56	21.25	21.72
1.4	1	5		21.47	21.09	21.63
1.4	3	0		21.53	21.43	21.62
1.4	3	1		21.54	21.41	21.66
1.4	3	2		21.55	21.46	21.59
1.4	6	0		21.41	21.40	21.60
1.4	1	0	16-QAM	21.17	21.24	21.39
1.4	1	2		21.36	21.31	21.63
1.4	1	5		21.23	21.26	21.46
1.4	3	0		21.33	21.25	21.38
1.4	3	1		21.26	21.25	21.44
1.4	3	2		21.27	21.25	21.47
1.4	6	0		21.21	21.18	21.39
3	1	0	QPSK	21.65	21.43	21.28
3	1	7		21.97	21.80	21.63
3	1	14		21.65	21.49	21.34
3	8	0		21.28	21.23	21.39
3	8	4		21.27	21.26	21.47
3	8	7		21.25	21.24	21.39
3	15	0		21.24	21.18	21.48
3	1	0	16-QAM	21.22	21.19	21.40
3	1	7		21.52	21.50	21.78
3	1	14		21.16	21.26	21.51
3	8	0		21.17	21.17	21.40
3	8	4		21.23	21.19	21.43
3	8	7		21.26	21.23	21.37
3	15	0		21.20	21.23	21.37



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.17	21.06	21.24
5	1	12		21.49	21.43	21.73
5	1	24		21.17	21.19	21.28
5	12	0		21.21	21.21	21.40
5	12	6		21.31	21.29	21.45
5	12	11		21.23	21.23	21.33
5	25	0		21.28	21.29	21.40
5	1	0	16-QAM	21.21	21.22	21.21
5	1	12		21.35	21.38	21.45
5	1	24		21.24	21.36	21.44
5	12	0		21.28	21.29	21.41
5	12	6		21.24	21.26	21.39
5	12	11		21.28	21.33	21.33
5	25	0		21.27	21.34	21.37
10	1	0	QPSK	21.74	21.50	21.60
10	1	24		21.98	22.01	21.97
10	1	49		21.67	21.56	21.68
10	25	0		21.24	21.13	21.43
10	25	12		21.31	21.25	21.49
10	25	24		21.24	21.18	21.36
10	50	0		21.25	21.31	21.37
10	1	0	16-QAM	21.39	21.05	21.72
10	1	24		21.57	21.23	21.89
10	1	49		21.41	21.23	21.84
10	25	0		21.29	21.32	21.47
10	25	12		21.26	21.24	21.41
10	25	24		21.29	21.31	21.36
10	50	0		21.29	21.29	21.44



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	13.64	13.75	13.85
5	1	12		14.02	14.40	14.39
5	1	24		13.67	13.71	13.83
5	12	0		13.77	13.90	13.90
5	12	6		13.84	13.95	13.99
5	12	11		13.76	13.83	13.86
5	25	0		13.76	13.86	13.89
5	1	0	16-QAM	13.66	13.80	13.62
5	1	12		13.87	13.92	13.94
5	1	24		13.84	13.72	13.77
5	12	0		13.64	13.98	13.71
5	12	6		13.80	13.85	13.91
5	12	11		13.98	13.69	13.98
5	25	0		13.84	13.83	13.86
10	1	0	QPSK	13.56	14.36	14.04
10	1	24		13.81	14.40	14.24
10	1	49		13.68	14.21	14.07
10	25	0		13.81	14.05	13.96
10	25	12		13.81	13.95	13.92
10	25	24		13.93	13.88	14.02
10	50	0		13.85	13.91	13.98
10	1	0	16-QAM	13.76	13.89	13.88
10	1	24		13.94	13.90	14.02
10	1	49		13.87	13.78	13.93
10	25	0		13.82	13.99	13.96
10	25	12		13.83	13.88	13.94
10	25	24		13.94	13.84	14.02
10	50	0		13.81	13.77	13.99



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	13.87	13.98	14.20
15	1	37		14.23	14.27	14.56
15	1	74		13.99	13.79	14.31
15	36	0		13.80	13.93	13.84
15	36	18		13.89	13.85	13.97
15	36	39		13.95	13.76	14.00
15	75	0		13.84	13.89	13.89
15	1	0	16-QAM	13.66	13.94	13.75
15	1	38		14.00	14.15	14.29
15	1	75		13.76	13.71	13.81
15	36	0		13.75	13.94	13.83
15	36	18		13.86	13.90	13.93
15	36	39		13.95	13.82	13.97
15	75	0		13.86	13.86	13.84
20	1	0	QPSK	13.99	14.14	14.41
20	1	49		14.34	14.39	14.80
20	1	99		14.00	14.10	14.42
20	50	0		13.69	13.93	13.97
20	50	24		13.76	13.94	13.99
20	50	49		13.72	13.85	13.98
20	100	0		13.79	13.85	13.91
20	1	0	16-QAM	13.87	14.08	14.00
20	1	49		14.23	14.24	14.29
20	1	99		14.09	13.93	14.16
20	50	0		13.62	14.00	13.82
20	50	24		13.81	13.95	13.99
20	50	49		13.95	13.75	14.05
20	100	0		13.84	13.86	13.86



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	15.04	15.18	14.84
1.4	1	2		15.16	15.25	15.03
1.4	1	5		15.11	15.15	14.91
1.4	3	0		15.08	15.20	15.19
1.4	3	1		15.09	15.22	15.19
1.4	3	2		15.08	15.21	15.24
1.4	6	0		15.08	15.12	15.26
1.4	1	0	16-QAM	14.93	14.91	14.95
1.4	1	2		15.07	15.08	15.13
1.4	1	5		14.90	14.87	15.00
1.4	3	0		14.85	15.00	15.02
1.4	3	1		14.83	14.98	15.03
1.4	3	2		14.88	14.97	15.04
1.4	6	0		14.89	14.93	15.04
3	1	0	QPSK	14.86	15.53	15.27
3	1	7		15.20	15.89	15.63
3	1	14		14.86	15.46	15.29
3	8	0		14.92	15.06	15.04
3	8	4		14.89	15.07	15.11
3	8	7		14.90	15.02	15.03
3	15	0		14.97	15.04	15.07
3	1	0	16-QAM	14.98	15.07	15.02
3	1	7		15.24	15.32	15.33
3	1	14		15.05	14.95	15.03
3	8	0		14.89	14.98	15.04
3	8	4		14.92	15.01	15.05
3	8	7		14.88	15.00	15.00
3	15	0		14.85	14.97	15.04



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	14.78	14.92	14.93
5	1	12		15.16	15.35	15.33
5	1	24		14.80	14.86	14.96
5	12	0		14.87	14.99	15.01
5	12	6		14.96	15.05	15.07
5	12	11		14.91	15.00	15.00
5	25	0		14.93	15.03	15.09
5	1	0	16-QAM	14.84	14.99	14.85
5	1	12		15.14	15.12	15.18
5	1	24		15.05	14.75	15.03
5	12	0		14.87	14.97	15.09
5	12	6		15.02	15.01	14.99
5	12	11		14.91	14.95	15.03
5	25	0		14.87	14.97	15.13
10	1	0	QPSK	15.36	15.26	14.92
10	1	24		15.55	15.40	15.07
10	1	49		15.43	15.20	14.99
10	25	0		15.04	15.05	15.05
10	25	12		15.01	15.09	15.07
10	25	24		15.13	15.12	15.09
10	50	0		15.04	15.10	15.08
10	1	0	16-QAM	14.89	15.03	15.01
10	1	24		15.03	15.16	15.20
10	1	49		14.97	14.98	15.08
10	25	0		14.98	14.98	15.03
10	25	12		14.93	15.03	15.02
10	25	24		15.03	15.08	15.05
10	50	0		15.01	14.99	15.03



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	15.30	15.23	15.00
15	1	37		15.68	15.48	15.32
15	1	74		15.46	15.01	15.07
15	36	0		14.96	15.03	14.99
15	36	18		15.03	15.08	14.99
15	36	39		15.09	15.09	15.03
15	75	0		14.97	14.99	15.08
15	1	0	16-QAM	14.81	15.04	14.86
15	1	38		15.19	15.33	15.35
15	1	75		14.98	14.84	14.99
15	36	0		14.95	15.03	15.02
15	36	18		14.99	15.06	15.03
15	36	39		15.02	15.03	15.08
15	75	0		15.01	15.00	15.05
20	1	0	QPSK	15.19	15.57	15.28
20	1	49		15.63	16.02	15.54
20	1	99		15.23	15.48	15.37
20	50	0		14.91	15.00	14.96
20	50	24		15.00	15.11	15.02
20	50	49		14.96	15.01	14.95
20	100	0		14.93	15.04	15.16
20	1	0	16-QAM	15.09	15.34	15.10
20	1	49		15.38	15.47	15.47
20	1	99		15.32	15.12	15.29
20	50	0		14.92	15.04	15.13
20	50	24		15.06	15.11	15.02
20	50	49		15.01	15.04	15.05
20	100	0		14.95	14.99	15.12



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	21.31	21.47	21.37
1.4	1	2		21.41	21.59	21.51
1.4	1	5		21.26	21.49	21.48
1.4	3	0		21.58	21.53	21.47
1.4	3	1		21.60	21.56	21.49
1.4	3	2		21.62	21.52	21.50
1.4	6	0		21.57	21.51	21.40
1.4	1	0	16-QAM	21.36	21.37	21.18
1.4	1	2		21.59	21.54	21.36
1.4	1	5		21.35	21.37	21.18
1.4	3	0		21.47	21.35	21.29
1.4	3	1		21.46	21.33	21.30
1.4	3	2		21.41	21.37	21.26
1.4	6	0		21.38	21.32	21.19
3	1	0	QPSK	21.58	21.25	21.69
3	1	7		21.92	21.44	22.14
3	1	14		21.61	21.23	21.67
3	8	0		21.39	21.32	21.33
3	8	4		21.43	21.35	21.34
3	8	7		21.40	21.31	21.29
3	15	0		21.31	21.38	21.30
3	1	0	16-QAM	21.39	21.41	21.28
3	1	7		21.64	21.89	21.47
3	1	14		21.34	21.37	21.18
3	8	0		21.39	21.31	21.24
3	8	4		21.39	21.35	21.30
3	8	7		21.37	21.29	21.24
3	15	0		21.35	21.28	21.21



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.31	21.58	21.49
5	1	12		21.74	22.05	21.93
5	1	24		21.27	21.59	21.48
5	12	0		21.38	21.25	21.27
5	12	6		21.41	21.31	21.36
5	12	11		21.39	21.26	21.32
5	25	0		21.38	21.37	21.26
5	1	0	16-QAM	21.41	21.24	21.20
5	1	12		21.47	21.73	21.55
5	1	24		21.32	21.22	21.14
5	12	0		21.33	21.27	21.29
5	12	6		21.35	21.35	21.35
5	12	11		21.37	21.31	21.23
5	25	0		21.34	21.33	21.33
10	1	0	QPSK	/	21.86	/
10	1	24		/	22.28	/
10	1	49		/	21.82	/
10	25	0		/	21.34	/
10	25	12		/	21.49	/
10	25	24		/	21.35	/
10	50	0		/	21.35	/
10	1	0	16-QAM	/	21.29	/
10	1	24		/	21.35	/
10	1	49		/	21.16	/
10	25	0		/	21.35	/
10	25	12		/	21.31	/
10	25	24		/	21.35	/
10	50	0		/	21.32	/



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	21.11	21.39	21.57
1.4	1	2		21.21	21.51	21.67
1.4	1	5		21.08	21.38	21.57
1.4	3	0		21.40	21.45	21.66
1.4	3	1		21.40	21.50	21.66
1.4	3	2		21.43	21.47	21.66
1.4	6	0		21.40	21.42	21.52
1.4	1	0	16-QAM	21.21	21.22	21.35
1.4	1	2		21.36	21.42	21.47
1.4	1	5		21.24	21.31	21.34
1.4	3	0		21.27	21.22	21.41
1.4	3	1		21.27	21.20	21.39
1.4	3	2		21.25	21.26	21.40
1.4	6	0		21.21	21.19	21.35
3	1	0	QPSK	21.67	21.43	21.31
3	1	7		21.94	21.51	21.62
3	1	14		21.66	21.49	21.34
3	8	0		21.24	21.23	21.42
3	8	4		21.27	21.28	21.41
3	8	7		21.28	21.24	21.41
3	15	0		21.27	21.19	21.45
3	1	0	16-QAM	21.24	21.23	21.39
3	1	7		21.51	21.56	21.76
3	1	14		21.15	21.24	21.47
3	8	0		21.19	21.20	21.37
3	8	4		21.23	21.25	21.41
3	8	7		21.21	21.21	21.36
3	15	0		21.15	21.20	21.36



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.13	21.12	21.22
5	1	12		21.51	21.55	21.69
5	1	24		21.13	21.16	21.29
5	12	0		21.17	21.23	21.40
5	12	6		21.28	21.26	21.44
5	12	11		21.24	21.19	21.31
5	25	0		21.21	21.25	21.41
5	1	0	16-QAM	21.12	21.07	21.10
5	1	12		21.49	21.49	21.58
5	1	24		21.18	21.25	21.37
5	12	0		21.18	21.19	21.27
5	12	6		21.27	21.29	21.37
5	12	11		21.20	21.31	21.31
5	25	0		21.17	21.29	21.28
10	1	0	QPSK	21.05	21.55	21.44
10	1	24		21.23	21.78	21.58
10	1	49		21.14	21.71	21.60
10	25	0		21.24	21.30	21.39
10	25	12		21.21	21.32	21.40
10	25	24		21.27	21.37	21.32
10	50	0		21.22	21.30	21.43
10	1	0	16-QAM	21.22	21.12	21.30
10	1	24		21.35	21.31	21.44
10	1	49		21.30	21.28	21.41
10	25	0		21.21	21.29	21.38
10	25	12		21.19	21.23	21.34
10	25	24		21.25	21.31	21.32
10	50	0		21.22	21.28	21.37



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.67	21.43	21.58
15	1	37		22.28	21.86	22.00
15	1	74		21.70	21.46	21.65
15	36	0		21.21	21.10	21.46
15	36	18		21.28	21.23	21.48
15	36	39		21.21	21.17	21.32
15	75	0		21.22	21.30	21.39
15	1	0	16-QAM	21.21	21.49	21.33
15	1	38		21.56	21.92	21.72
15	1	75		21.31	21.70	21.57
15	36	0		21.13	21.28	21.26
15	36	18		21.25	21.29	21.40
15	36	39		21.22	21.39	21.35
15	75	0		21.29	21.31	21.32