



SAR TEST REPORT

Report No.: 20230917G12965X-W2
Product Name: METAVERTU 2 5G digital mobile phone
Model Name: VTL-202301
Trade Name: VERTU
Brand Name: VERTU
FCC ID: 2A6IQ-VTL202301
Applicant: VERTU INTERNATIONAL CORPORATION LIMITED
Address: Chase Business Centre 39-41 Chase Side London England N14 5BP
Test Date: 2023/10/19~2023/12/24
Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No. 43 Shahe Road Xili Street, Nanshan District, Shenzhen, Guangdong 518055, China

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Test Report

Applicant: VERTU INTERNATIONAL CORPORATION LIMITED

Applicant Address: Chase Business Centre 39-41 Chase Side London England N14 5BP

Manufacturer: Chengdu Vertu Business and Service Management Co., Ltd

Manufacturer Address: 1601,16th Floor, No. 1577 Middle Section of Tianfu Avenue, Chengdu High-tech Zone, China (Sichuan) Pilot Free Trade Zone

47CFR §2.1093- Radiofrequency Radiation Exposure Evaluation: Portable Devices;

Test Standards: **ANSI C95.1-1992:** Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.(IEEE Std C95.1-1991)

IEEE 1528-2013: IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques

Test Result: Pass

Tested by: Carl Wei 2023-12-27

Carl Wei, Test Engineer

Reviewed by: Chris You 2023-12-27

Chris You, Senior Engineer

Approved by: Yang Fan 2023-12-27

Yang Fan, Manager



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1. Administrative Data

1.1 Testing Laboratory

Test Site:	CCIC Southern Testing Co., Ltd.
Address:	Electronic Testing Building, No. 43 Shahe Road Xili Street, Nanshan District, Shenzhen, Guangdong 518055, China
A2LA Lab Code:	CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025:2017. The accreditation certificate number is 5721.01
FCC Registration:	CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until June.30, 2025.
ISED Registration:	CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until June.30, 2025.
Test Environment Condition:	Temperature (°C): 18 °C ~25 °C Relative Humidity (%): 35%~75% RH Atmospheric Pressure (kPa): 86KPa-106KPa



2. Equipment Under Test (EUT)

Identification of the Equipment under Test

Device type :	portable device	
Exposure category:	uncontrolled environment / general population	
Product Name:	METAVERTU 2 5G digital mobile phone	
Brand Name:	VERTU	
Model Name:	VTL-202301	
Test Band(s):	GSM850/1900, CDMA BC 0, WCDMA Band II/IV/V, LTE Band 2,4,5,7,12,17,41, 5G NR 5,41,77,78 ENDC- DC_5A_n78A WIFI2.4G, WIFI5G (Band 1,2,3,4) ,BT	
Test modulation:	GSM(GMSK,8PSK),UMTS(QPSK), CDMA(BPSK, QPSK) LTE(QPSK/16QAM/64QAM), NR(QPSK, 16QAM, 64QAM, PI/2 BPSK, 256QAM), WI-FI 2.4G(DSSS, OFDM), WI-FI 5G(OFDM), BT(GFSK/ π /4-DQPSK/8-DPSK)	
IMEI:	354717680000842/354717680002723	
Device Class:	B, GPRS:12, EDGE:12	
Tested frequency range(s)	transmitter frequency range	receiver frequency range
GSM 850:	824-849 MHz	869-894 MHz
GSM 1900:	1850-1910 MHz	1930-1990 MHz
CDMA BC 0:	824.70-848.31 MHz	869.70-893.31 MHz
WCDMA Band V:	824-849 MHz	869-894 MHz
WCDMA Band IV:	1710-1755 MHz	2110-2155 MHz
WCDMA Band II:	1850-1910 MHz	1930-1990 MHz
LTE Band 2:	1850-1910 MHz	1930-1990 MHz
LTE Band 4:	1710-1755 MHz	2110-2155 MHz
LTE Band 5:	824-849 MHz	869-894 MHz
LTE Band 7:	2500-2570 MHz	2620-2690 MHz
LTE Band 12:	698-716 MHz	728-746 MHz
LTE Band 17:	704-716 MHz	734-746 MHz
LTE Band 41:	2496-2690 MHz	
NR Band 5:	824-849 MHz	869-894 MHz
NR Band 41:	2496-2690 MHz	
NR Band 77:	3450-3550 MHz	
NR Band 78:	3450-3550 MHz	
Wi-Fi:	2412-2462 MHz	
	5150-5250 MHz	
	5250-5350 MHz	
	5470-5725 MHz	
	5725-5850 MHz	
Bluetooth:	2402-2480 MHz	
Hardware version :	P10	
Software version :	13.0.0_6.01.01.01	
Antenna type :	Internal antenna	



Hotspot :	WLAN support Hotspot mode(5G WLAN only for B1 & B4)
Battery options :	Model No.: Li3949T44P8h776759 Rated Capacity:5000mAh Nominal Capacity: 5100mAh Rated Voltage: 3.89V Charge Limit: 4.48V Manufacturer: Zhuhai CosMX Power Jinwan Subsidiary Co.,Ltd.
MAX. SAR Value:	Head: 0.894 W/Kg(Limit:1.6W/Kg, 0mm distance) Body-worn: 0.643 W/Kg(Limit:1.6W/Kg, 15mm distance) Hotspot: 1.102 W/Kg(Limit:1.6W/Kg, 10mm distance)

Note:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The NR band test under FTM mode



3. SAR Summary

Highest Standalone SAR Summary

Exposure Position	Frequency Band	Scaled 1g-SAR(W/kg)	Highest Scaled 1g-SAR(W/kg)
Head (0mm Gap)	GSM 850 ANT 1	0.103	0.894
	GSM 850 ANT 3	0.759	
	GSM 1900 ANT 2	0.103	
	GSM 1900 ANT 4	0.849	
	CDMA BC 0 ANT1	0.163	
	CDMA BC 0 ANT3	0.718	
	WCDMA 850 ANT 1	0.166	
	WCDMA 850 ANT 3	0.746	
	WCDMA 1700 ANT 2	0.214	
	WCDMA 1700 ANT 4	0.894	
	WCDMA 1900 ANT 2	0.239	
	WCDMA 1900 ANT 4	0.806	
	LTE Band 2 ANT 2	0.231	
	LTE Band 2 ANT 4	0.788	
	LTE Band 4 ANT 2	0.173	
	LTE Band 4 ANT 4	0.733	
	LTE Band 5 ANT 1	0.179	
	LTE Band 5 ANT 3	0.756	
	LTE Band 7 ANT 2	0.151	
	LTE Band 7 ANT 4	0.506	
	LTE Band 12 ANT 1	0.124	
	LTE Band 12 ANT 3	0.690	
	LTE Band 17 ANT 1	0.129	
	LTE Band 17 ANT 3	0.717	
	LTE Band 41 ANT 1	0.108	
	LTE Band 41 ANT 2	0.073	
	LTE Band 41 ANT 4	0.777	
	5G NR 5 ANT 1	0.132	
	5G NR 5 ANT 3	0.591	
	5G NR 41 ANT 1	0.096	
	5G NR 41 ANT 2	0.125	
	5G NR 41 ANT 4	0.345	
	5G NR 41 ANT 8	0.587	
5G NR 77 ANT 1	0.155		
5G NR 77 ANT 8	0.674		
5G NR 77 ANT 11	0.699		
5G NR 77 ANT 16	0.230		
5G NR 78 ANT 1	0.260		



	5G NR 78 ANT 8	0.358	
	5G NR 78 ANT 11	0.729	
	5G NR 78 ANT 16	0.339	
	WIFI 2.4G ANT 7	0.435	
	WIFI 2.4G ANT 9	0.388	
	WIFI 2.4G MIMO ANT 7+9	0.199	
	WIFI U-NII 1 ANT 9	0.360	
	WIFI U-NII 1 ANT 10	0.669	
	WIFI U-NII 1 MIMO ANT 9+10	0.409	
	WIFI U-NII 2a ANT 9	0.332	
	WIFI U-NII 2a ANT 10	0.586	
	WIFI U-NII 2a MIMO ANT 9+10	0.402	
	WIFI U-NII 2c ANT 9	0.343	
	WIFI U-NII 2c ANT 10	0.482	
	WIFI U-NII 2c MIMO ANT 9+10	0.251	
	WIFI U-NII 3 ANT 9	0.369	
	WIFI U-NII 3 ANT 10	0.518	
	WIFI U-NII 3 MIMO ANT 9+10	0.287	
	Bluetooth ANT 7	0.140	
	Bluetooth ANT 9	0.136	



Exposure Position	Frequency Band	Scaled 1g-SAR(W/kg)	Highest Scaled 1g-SAR(W/kg)
Body-worn (15mm Gap)	GSM 850 ANT 1	0.206	0.643
	GSM 850 ANT 3	0.333	
	GSM 1900 ANT 2	0.219	
	GSM 1900 ANT 4	0.148	
	CDMA BC 0 ANT1	0.208	
	CDMA BC 0 ANT3	0.513	
	WCDMA 850 ANT 1	0.208	
	WCDMA 850 ANT 3	0.523	
	WCDMA 1700 ANT 2	0.558	
	WCDMA 1700 ANT 4	0.227	
	WCDMA 1900 ANT 2	0.577	
	WCDMA 1900 ANT 4	0.240	
	LTE Band 2 ANT 2	0.643	
	LTE Band 2 ANT 4	0.208	
	LTE Band 4 ANT 2	0.560	
	LTE Band 4 ANT 4	0.221	
	LTE Band 5 ANT 1	0.212	
	LTE Band 5 ANT 3	0.438	
	LTE Band 7 ANT 2	0.549	
	LTE Band 7 ANT 4	0.303	
	LTE Band 12 ANT 1	0.177	
	LTE Band 12 ANT 3	0.442	
	LTE Band 17 ANT 1	0.166	
	LTE Band 17 ANT 3	0.456	
	LTE Band 41 ANT 1	0.152	
	LTE Band 41 ANT 2	0.326	
	LTE Band 41 ANT 4	0.199	
	5G NR 5 ANT 1	0.186	
	5G NR 5 ANT 3	0.284	
	5G NR 41 ANT 1	0.139	
	5G NR 41 ANT 2	0.188	
	5G NR 41 ANT 4	0.116	
	5G NR 41 ANT 8	0.200	
	5G NR 77 ANT 1	0.063	
	5G NR 77 ANT 8	0.144	
	5G NR 77 ANT 11	0.082	
5G NR 77 ANT 16	0.177		
5G NR 78 ANT 1	0.142		
5G NR 78 ANT 8	0.149		
5G NR 78 ANT 11	0.215		
5G NR 78 ANT 16	0.160		



	WIFI 2.4G ANT 7	0.071	
	WIFI 2.4G ANT 9	0.069	
	WIFI 2.4G MIMO ANT 7+9	0.047	
	WIFI U-NII 1 ANT 9	0.243	
	WIFI U-NII 1 ANT 10	0.143	
	WIFI U-NII 1 MIMO ANT 9+10	0.168	
	WIFI U-NII 2a ANT 9	0.264	
	WIFI U-NII 2a ANT 10	0.105	
	WIFI U-NII 2a MIMO ANT 9+10	0.173	
	WIFI U-NII 2c ANT 9	0.227	
	WIFI U-NII 2c ANT 10	0.168	
	WIFI U-NII 2c MIMO ANT 9+10	0.107	
	WIFI U-NII 3 ANT 9	0.127	
	WIFI U-NII 3 ANT 10	0.134	
	WIFI U-NII 3 MIMO ANT 9+10	0.117	
	Bluetooth ANT 7	0.065	
	Bluetooth ANT 9	0.070	



Exposure Position	Frequency Band	Scaled 1g-SAR(W/kg)	Highest Scaled 1g-SAR(W/kg)
Hotspot (10mm Gap)	GSM 850 ANT 1	0.385	1.102
	GSM 850 ANT 3	0.882	
	GSM 1900 ANT 2	0.551	
	GSM 1900 ANT 4	0.314	
	CDMA BC 0 ANT1	0.397	
	CDMA BC 0 ANT3	0.821	
	WCDMA 850 ANT 1	0.390	
	WCDMA 850 ANT 3	1.102	
	WCDMA 1700 ANT 2	0.810	
	WCDMA 1700 ANT 4	0.693	
	WCDMA 1900 ANT 2	0.743	
	WCDMA 1900 ANT 4	0.668	
	LTE Band 2 ANT 2	0.940	
	LTE Band 2 ANT 4	0.659	
	LTE Band 4 ANT 2	0.846	
	LTE Band 4 ANT 4	0.749	
	LTE Band 5 ANT 1	0.439	
	LTE Band 5 ANT 3	1.037	
	LTE Band 7 ANT 2	0.862	
	LTE Band 7 ANT 4	0.933	
	LTE Band 12 ANT 1	0.542	
	LTE Band 12 ANT 3	0.956	
	LTE Band 17 ANT 1	0.534	
	LTE Band 17 ANT 3	0.954	
	LTE Band 41 ANT 1	0.481	
	LTE Band 41 ANT 2	0.806	
	LTE Band 41 ANT 4	0.461	
	5G NR 5 ANT 1	0.277	
	5G NR 5 ANT 3	0.666	
	5G NR 41 ANT 1	0.326	
	5G NR 41 ANT 2	0.416	
	5G NR 41 ANT 4	0.384	
	5G NR 41 ANT 8	0.502	
	5G NR 77 ANT 1	0.120	
	5G NR 77 ANT 8	0.272	
	5G NR 77 ANT 11	0.173	
5G NR 77 ANT 16	0.214		
5G NR 78 ANT 1	0.149		
5G NR 78 ANT 8	0.223		
5G NR 78 ANT 11	0.369		
5G NR 78 ANT 16	0.194		



	WIFI 2.4G ANT 7	0.307	
	WIFI 2.4G ANT 9	0.321	
	WIFI 2.4G MIMO ANT 7+9	0.155	
	WIFI U-NII 1 ANT 9	0.371	
	WIFI U-NII 1 ANT 10	0.189	
	WIFI U-NII 1 MIMO ANT 9+10	0.244	
	WIFI U-NII 3 ANT 9	0.184	
	WIFI U-NII 3 ANT 10	0.168	
	WIFI U-NII 3 MIMO ANT 9+10	0.144	

Highest Simultaneous SAR Summary

Exposure Position	Frequency Band	Highest Simultaneous 1g-SAR(W/kg)
Head-Left Cheek (0mmGap)	WWAN(GSM 850 ANT 3)&WIFI	1.564

Note:

1. The SAR limit (Head & Body: SAR_{1g} 1.6 W/kg for general population uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.

4. Specific Absorption Rate (SAR)

4.1 Introduction

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

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

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

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

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

$$\text{SAR} = C \frac{\delta T}{\delta t}$$

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

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

where σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the rms electrical field strength.

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



4.2 Applicable Standards and Limits

4.2.1 Applicable Standards

47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI C95.1-1992	Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.(IEEE Std C95.1-1991)
IEEE 1528-2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 248227 D01	v02r02 802.11 Wi-Fi SAR
KDB 447498 D01	v06 General RF Exposure Guidance
KDB 616217 D04	v01r02 SAR for laptop and tablets
KDB 648474 D04	v01r03 Handset SAR
KDB 865664 D01	v01r04 SAR Measurement 100MHz to 6GHz
KDB 865664 D02	v01r02 SAR Exposure Reporting
KDB 941225 D01	v03r01 3G SAR Procedures
KDB 941225 D05	v02r05 SAR for LTE Devices
KDB 941225 D05A	v01r02 LTE Rel.10 KDB Inquiry Sheet
KDB 941225 D06	v02r01 Hotspot Mode

4.2.2 RF exposure Limits

Human Exposure	Uncontrolled Environment General Population
Spatial Peak SAR* (Brain/Body)	1.60 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g
Spatial Peak SAR*** (Limbs)	4.00 mW/g

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

Notes:

* The Spatial Peak value of the SAR averaged over any 1 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

** The Spatial Average value of the SAR averaged over the whole body.

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

4.3 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twin-headed "SAM Phantom", manufactured by SATIMO. The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness increases to 6mm).

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.



SAM Twin Phantom

4.4 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SATIMO as an integral part of the COMOSAR test system.

The device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.



Device holder

4.5 Probe Specification

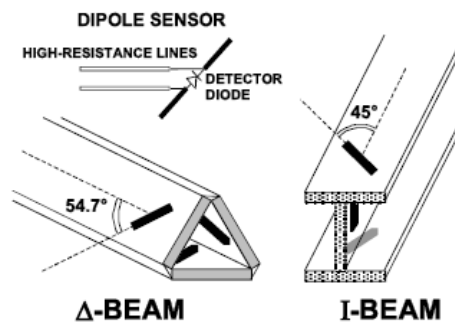


Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	700 MHz to 3 GHz; Linearity: ± 0.5 dB (700 MHz to 3 GHz)
Directivity	± 0.25 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	1.5 μ W/g to 100 mW/g; Linearity: ± 0.5 dB
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 5 mm Distance from probe tip to dipole centers: < 2.7 mm
Application	General dosimetry up to 3 GHz Dosimetry in strong gradient fields Compliance tests of mobile phones
Compatibility	COMOSAR

Isotropic E-Field Probe

The isotropic E-Field probe has been fully calibrated and assessed for isotropicity, and boundary effect within a controlled environment. Depending on the frequency for which the probe is calibrated the method utilized for calibration will change.

The E-Field probe utilizes a triangular sensor arrangement as detailed in the diagram below:





5. Tissue check and recommend Dielectric Parameters

5.1 Tissue Dielectric Parameters for Head and Body Phantoms

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

Table 1: Recommended Dielectric Performance of Tissue

Ingredients (% by weight)	Frequency (MHz)											
	450		835		915		1900		2450		2600	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	38.56	51.16	41.46	52.4	41.05	56.0	54.9	40.4	62.7	73.2	55.24	64.49
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04	0.5	0.024
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0	0.0	0.0
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0	0.0	0.0
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0	0.0	0.0
Triton x-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0	44.45	32.25
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7	0.0	26.7
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.2	52.5	39.0	52.5
Conductivity (s/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.80	1.78	1.96	2.16

MSL/HSL750 (Body and Head liquid for 650 – 850 MHz)

Item	Head Tissue Simulation Liquid HSL750 Muscle(body)Tissue Simulation Liquid MSL750			
H2O	Water, 35 – 58%			
Sucrose	Sugar, white, refined, 40-60%			
NaCl	Sodium Chloride, 0-6%			
Hydroxyethyl-cellulose	Medium Viscosity (CAS# 9004-62-0), <0.3%			
Preventol-D7	Preservative: aqueous preparation, (CAS# 55965-84-9), containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyl-3(2H)-isothiazolone, 0.1-0.7%			
Frequency (MHz)	Head ϵ_r	Head σ (S/m)	Body ϵ_r	Body σ (S/m)
750	41.9	0.89	55.2	0.97

Note: The liquid of 700MHz&2600MHz typical liquid composition is provided by SATIMO.



Frequency:5200/5400/5600/5800MHz	
Ingredients	(% by weight)
Water	78
Mineral oil	11
Emulsifiers	9
Additives and Salt	2

Table 2 Recommended Tissue Dielectric Parameters

Frequency (MHz)	Head Tissue		Body Tissue	
	ϵ_r	$\sigma(S/m)$	ϵ_r	$\sigma(S/m)$
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00



5.2 Simulate liquid

Liquid check results:

Table 3: Dielectric Performance of Tissue Simulating Liquid

/	Frequency	Permittivity ϵ	Conductivity σ (S/m)	Liquid Temp. (°C)	Test Date
Target value	750MHz	41.9±5% (39.805~43.995)	0.89±5% (0.8455~0.9345)	22.3	2023/11/14
Validation value		42.31	0.88		
Target value	750MHz	41.9±5% (39.805~43.995)	0.89±5% (0.8455~0.9345)	22.4	2023/12/06
Validation value		41.79	0.88		
Target value	835MHz	41.5±5% (39.425~43.575)	0.90±5% (0.855~0.945)	22.4	2023/10/19
Validation value		41.35	0.92		
Target value	835MHz	41.5±5% (39.425~43.575)	0.90±5% (0.855~0.945)	22.1	2023/10/21
Validation value		41.92	0.91		
Target value	835MHz	41.5±5% (39.425~43.575)	0.90±5% (0.855~0.945)	21.9	2023/12/15
Validation value		41.87	0.91		
Target value	835MHz	41.5±5% (39.425~43.575)	0.90±5% (0.855~0.945)	22.0	2023/12/17
Validation value		41.49	0.90		
Target value	1800MHz	40.0±5% (38.0~42.0)	1.40±5% (1.33~1.47)	22.1	2023/11/13
Validation value		40.59	1.39		
Target value	1800MHz	40.0±5% (38.0~42.0)	1.40±5% (1.33~1.47)	22.4	2023/12/10
Validation value		40.29	1.36		
Target value	1800MHz	40.0±5% (38.0~42.0)	1.40±5% (1.33~1.47)	22.0	2023/12/13
Validation value		39.91	1.38		
Target value	1900MHz	40.0±5% (38.0~42.0)	1.40±5% (1.33~1.47)	22.7	2023/11/09
Validation value		40.08	1.42		
Target value	1900MHz	40.0±5% (38.0~42.0)	1.40±5% (1.33~1.47)	22.5	2023/11/30
Validation value		40.26	1.43		
Target value	1900MHz	40.0±5% (38.0~42.0)	1.40±5% (1.33~1.47)	22.4	2023/12/09
Validation value		40.49	1.42		



Target value	1900MHz	40.0±5% (38.0~42.0)	1.40±5% (1.33~1.47)	22.2	2023/12/14
Validation value		39.72	1.42		
Target value	2450MHz	39.2±5% (37.24~41.16)	1.80±5% (1.71~1.89)	22.4	2023/10/29
Validation value		38.79	1.82		
Target value	2450MHz	39.2±5% (37.24~41.16)	1.80±5% (1.71~1.89)	22.6	2023/11/06
Validation value		39.56	1.78		
Target value	2600MHz	39.0±5% (37.05~40.95)	1.96±5% (1.862~2.058)	22.8	2023/11/08
Validation value		39.49	1.97		
Target value	2600MHz	39.0±5% (37.05~40.95)	1.96±5% (1.862~2.058)	22.0	2023/11/10
Validation value		39.75	1.94		
Target value	2600MHz	39.0±5% (37.05~40.95)	1.96±5% (1.862~2.058)	22.2	2023/11/25
Validation value		38.53	1.97		
Target value	2600MHz	39.0±5% (37.05~40.95)	1.96±5% (1.862~2.058)	22.3	2023/12/18
Validation value		38.77	2.00		
Target value	2600MHz	39.0±5% (37.05~40.95)	1.96±5% (1.862~2.058)	22.3	2023/12/24
Validation value		39.15	1.98		
Target value	3500MHz	37.9±5% (36.005~39.795)	2.91±5% (2.7645~3.0555)	22.5	2023/10/27
Validation value		38.65	2.96		
Target value	3500MHz	37.9±5% (36.005~39.795)	2.91±5% (2.7645~3.0555)	22.0	2023/11/18
Validation value		38.04	2.82		
Target value	3500MHz	37.9±5% (36.005~39.795)	2.91±5% (2.7645~3.0555)	21.7	2023/11/24
Validation value		38.78	2.92		
Target value	3500MHz	37.9±5% (36.005~39.795)	2.91±5% (2.7645~3.0555)	21.8	2023/12/20
Validation value		37.23	2.95		
Target value	3700MHz	37.7±5% (35.815~39.585)	3.12±5% (2.964~3.276)	22.0	2023/11/18
Validation value		37.69	3.07		
Target value	3700MHz	37.7±5% (35.815~39.585)	3.12±5% (2.964~3.276)	21.8	2023/12/20
Validation value		36.85	3.13		

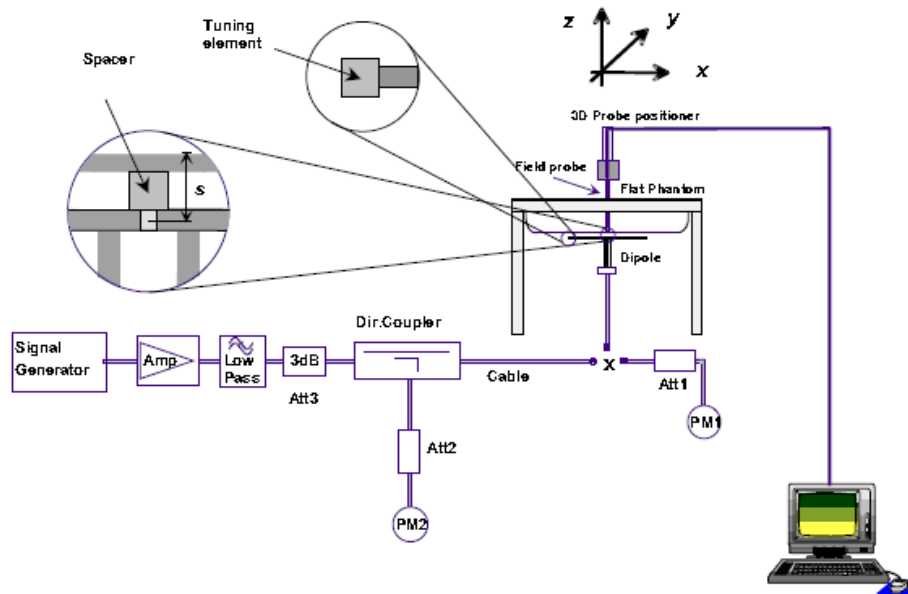


Target value	3900MHz	$37.51 \pm 5\%$ (35.635~39.386)	$3.33 \pm 5\%$ (3.164~3.497)	22.0	2023/11/18
Validation value		37.41	3.24		
Target value	5200MHz	$36.0 \pm 5\%$ (34.20~37.80)	$4.66 \pm 5\%$ (4.427~4.893)	22.0	2023/12/08
Validation value		36.23	4.68		
Target value	5400MHz	$35.8 \pm 5\%$ (34.01~37.59)	$4.86 \pm 5\%$ (4.617~5.103)	22.0	2023/12/08
Validation value		35.91	4.82		
Target value	5600MHz	$35.5 \pm 5\%$ (33.725~37.275)	$5.07 \pm 5\%$ (4.8165~5.3235)	22.2	2023/12/07
Validation value		35.28	5.05		
Target value	5800MHz	$35.3 \pm 5\%$ (33.535~37.065)	$5.27 \pm 5\%$ (5.0065~5.5335)	22.2	2023/12/07
Validation value		34.52	5.29		

SAR System validation

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

The following procedure, recommended for performing validation tests using box phantoms is based on the procedures described in the IEEE standard P1528. Setup according to the setup diagram below:



With the SG and Amp and with directional coupler in place, set up the source signal at the relevant frequency and use a power meter to measure the power at the end of the SMA cable that you intend to connect to the balanced dipole. Adjust the SG to make this, say, 0.01W (10 dBm). If this level is too high to read directly with the power meter sensor, insert a calibrated attenuator (e.g. 10 or 20 dB) and make a suitable correction to the power meter reading.

Note 1: In this method, the directional coupler is used for monitoring rather than setting the exact feed power level.

If, however, the directional coupler is used for power measurement, you should check the frequency range and power rating of the coupler and measure the coupling factor (referred to output) at the test frequency using a VNA.

Note 2: Remember that the use of a 3dB attenuator (as shown in Figure 8.1 of P1528) means that you need an RF amplifier of 2 times greater power for the same feed power. The other issue is the cable length. You might get up to 1dB of loss per meter of cable, so the cable length after the coupler needs to be quite short.

Note 3: For the validation testing done using CW signals, most power meters are suitable. However, if you are measuring the output of a modulated signal from either a signal generator or a handset, you must ensure that the power meter correctly reads the modulated signals.

The measured 1-gram averaged SAR values of the device against the phantom are provided in Tables 5 and Table 6. The body phantom were full of the body tissue simulating liquid. The EUT was supplied with full-charged battery for each measurement.

The distance between the back of the EUT and the bottom of the flat phantom is 10 mm (taking into account of the IEEE 1528 and the place of the antenna).



Table 4: system validation (1g)
System Check Results

Frequency	Duty cycle	Target value (1-g) (W/Kg)	10mW Test value (1-g) (W/Kg)	Test SAR Normalized to 1W(w/Kg)	Test Date
750MHz	1:1	8.65 W/kg±10% (7.785~9.515)	0.0860	8.60	2023/11/14
750MHz	1:1	8.65 W/kg±10% (7.785~9.515)	0.0901	9.01	2023/12/06
835MHz	1:1	9.93 W/kg±10% (8.937~10.923)	0.1033	10.33	2023/10/19
835MHz	1:1	9.93 W/kg±10% (8.937~10.923)	0.0959	9.59	2023/10/21
835MHz	1:1	9.93 W/kg±10% (8.937~10.923)	0.0963	9.63	2023/12/15
835MHz	1:1	9.93 W/kg±10% (8.937~10.923)	0.1002	10.02	2023/12/17
1800MHz	1:1	37.81 W/kg±10% (34.029~41.591)	0.3835	38.35	2023/11/13
1800MHz	1:1	37.81 W/kg±10% (34.029~41.591)	0.3955	39.55	2023/12/10
1800MHz	1:1	37.81 W/kg±10% (34.029~41.591)	0.3770	37.70	2023/12/13
1900MHz	1:1	41.50 W/kg±10% (37.350~45.650)	0.3996	39.96	2023/11/09
1900MHz	1:1	41.50 W/kg±10% (37.350~45.650)	0.4183	41.83	2023/11/30
1900MHz	1:1	41.50 W/kg±10% (37.350~45.650)	0.3762	37.62	2023/12/09
1900MHz	1:1	41.50 W/kg±10% (37.350~45.650)	0.4098	40.98	2023/12/14
2450MHz	1:1	51.74 W/kg±10% (46.566~56.914)	0.5385	53.85	2023/10/29
2450MHz	1:1	51.74 W/kg±10% (46.566~56.914)	0.5270	52.70	2023/11/06
2600MHz	1:1	57.13 W/kg±10% (51.417~62.843)	0.5491	54.91	2023/11/08
2600MHz	1:1	57.13 W/kg±10% (51.417~62.843)	0.5607	56.07	2023/11/10
2600MHz	1:1	57.13 W/kg±10% (51.417~62.843)	0.5382	53.82	2023/11/25
2600MHz	1:1	57.13 W/kg±10% (51.417~62.843)	0.5891	58.91	2023/12/18
2600MHz	1:1	57.13 W/kg±10% (51.417~62.843)	0.5607	56.07	2023/12/24



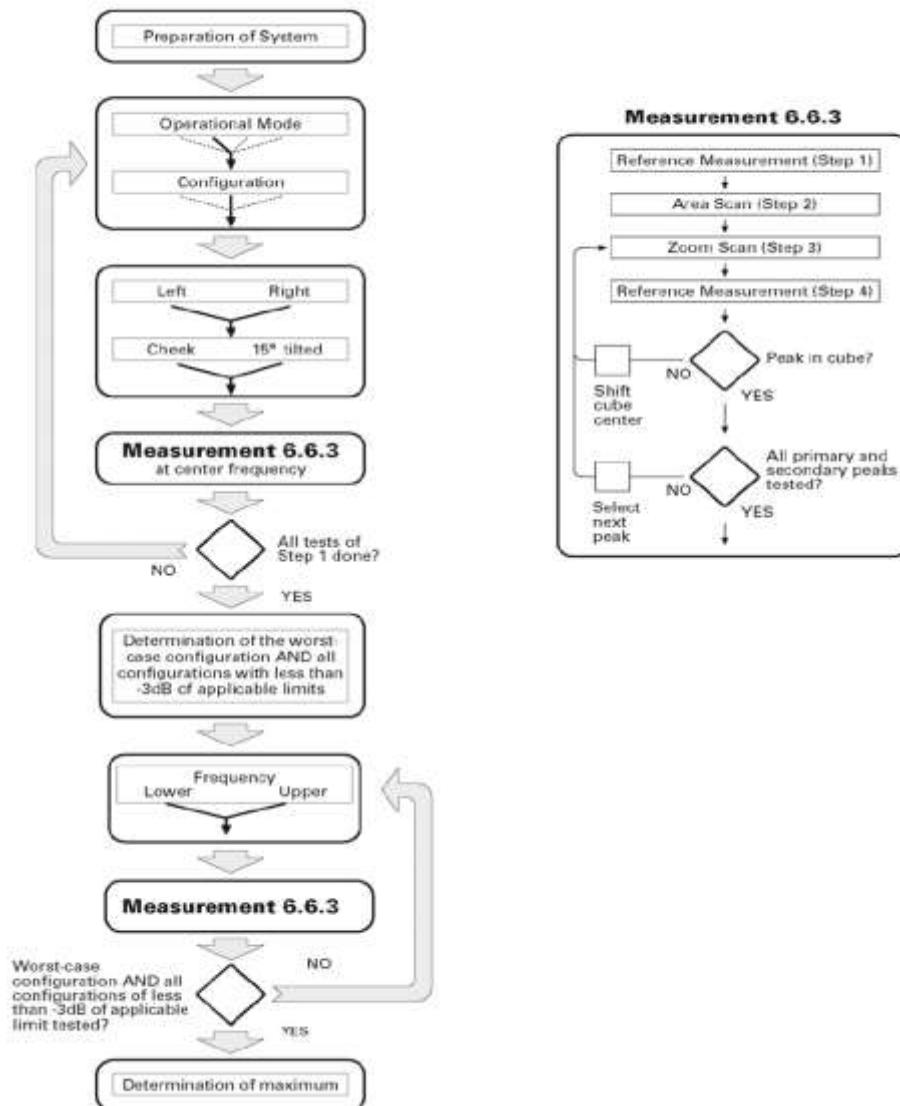
3500MHz	1:1	66.30 W/kg±10% (59.670~72.930)	0.6640	66.40	2023/10/27
3500MHz	1:1	66.30 W/kg±10% (59.670~72.930)	0.6849	68.49	2023/11/18
3500MHz	1:1	66.30 W/kg±10% (59.670~72.930)	0.6411	64.11	2023/11/24
3500MHz	1:1	66.30 W/kg±10% (59.670~72.930)	0.6715	67.15	2023/12/20
3700MHz	1:1	66.42 W/kg±10% (59.78~73.062)	0.6386	63.86	2023/11/18
3700MHz	1:1	66.42 W/kg±10% (59.78~73.062)	0.6914	69.14	2023/12/20
3900MHz	1:1	70.35 W/kg±10% (63.315~77.385)	0.6583	65.83	2023/11/18
5200MHz	1:1	152.95 W/kg±10% (137.655~168.245)	1.4776	147.76	2023/12/08
5400MHz	1:1	159.94 W/kg±10% (143.946~175.934)	1.5691	156.91	2023/12/08
5600MHz	1:1	166.59 W/kg±10% (149.931~183.249)	1.6937	169.37	2023/12/07
5800MHz	1:1	174.67 W/kg±10% (157.203~192.137)	1.7150	171.50	2023/12/07

Note:

1. Target value was referring to the measured value in the calibration certificate of reference dipole.
2. All SAR values are normalized to 1W forward power.

6. SAR measurement procedure

The SAR test against the head phantom was carried out as follow:



Establish a call with the maximum output power with a base station simulator, the connection between the EUT and the base station simulator is established via air interface.

After an area scan has been done at a fixed distance of 2mm from the surface of the phantom on the source side, a 3D scan is set up around the location of the maximum spot SAR. First, a point within the scan area is visited by the probe and a SAR reading taken at the start of testing. At the end of testing, the probe is returned to the same point and a second reading is taken. Comparison between these start and end readings enables the power drift during measurement to be assessed.

Above is the scanning procedure flow chart and table from the IEEE p1528 standard. This is the procedure for which all compliant testing should be carried out to ensure that all variations of the device position and transmission behavior are tested.



7. Power reduction specification

7.1 This device support the receiver detection mechanism, the main purpose is to minimize triggering associated with power reduction scenarios by receiver detection mechanisms and provide enhanced user experience. It uses the receiver to indicate whether the user is making a call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. It can distinguish the use scenes of head or body, and set the relevant power levels of some frequency bands of antenna 4 accordingly.

1) Application scenario of receiver triggering power reduction

1. When there is a voice call (including VOIP) and only data service, and the modem chip detects that the earphone is not connected and the speaker is turned off, the receiver is triggered, and it is considered as a hand-held to the ear (head). Apply power level receiver.
2. When there is a voice call, but the earphone is connected or the speaker mode is turned on, the receiver will not work. It is considered as other scenes (body, etc.). The application power level receiver is turned off.
3. The above scenario will trigger the power level receiver only when EUT is connected to the ANT 4 (WCDMA 1700, WCDMA 1900, LTE Band 2, LTE Band 4, LTE Band 7) frequency band.

2) Reduced power of receiver

Transmission Condition	Wireless System	Head	Body	Hotspot
Standalone	WCDMA 1700(ANT 4) WCDMA 1900(ANT 4) LTE Band 2(ANT 4) LTE Band 4(ANT 4) LTE Band 7(ANT 4)	Reduced Power DSI 1	Full Power	Full Power

Note:

1. For the specific power and power reduction of EUT, please refer to the conducted power at the back of the report.



7.2 The device supports the Hotspot detection mechanism, the main purpose of which is to minimize the trigger related to the power reduction scenario and provide an enhanced user experience through the Hotspot detection mechanism. It uses a receiver to indicate whether the user is in a Hotspot scene. It can distinguish between Hotspot and non-Hotspot scenes, and set relevant power levels for some frequency bands of antenna 2 accordingly.

1) Application scenario of receiver triggering power reduction

1. When EUT turns on the Hotspot function, the hotspot detection mechanism will be activated and the power level receiver will be applied. Other scenarios do not trigger.
2. The above scenario will trigger the power level receiver only when EUT is connected to the ANT 2 (WCDMA 1700, WCDMA 1900, LTE Band 2, LTE Band 4, LTE Band 7) frequency band.

2) Reduced power of receiver

Transmission Condition	Wireless System	Head	Body	Hotspot
Standalone	WCDMA 1700(ANT 2) WCDMA 1900(ANT 2) LTE Band 2(ANT 2) LTE Band 4(ANT 2) LTE Band 7(ANT 2)	Full Power	Full Power	Reduced Power DSI 2

Note:

1. For the specific power and power reduction of EUT, please refer to the conducted power at the back of the report.



8. Conducted RF Output Power

8.1 GSM Conducted Power

GSM850 ANT 1 Full Power		Burst-Averaged output Power (dBm)			Division Factors	Frame-Averaged output Power (dBm)		
		128CH	190CH	251CH		128CH	190CH	251CH
		824.2	836.6	848.8		824.2	836.6	848.8
GSM (CS)		32.51	32.14	32.73	-9.03	23.48	23.11	23.70
GPRS (GMSK)	1 Tx Slot	32.48	32.12	32.70	-9.03	23.45	23.09	23.67
	2 Tx Slots	30.94	30.61	31.02	-6.02	24.92	24.59	25.00
	3 Tx Slots	28.75	28.43	28.87	-4.26	24.49	24.17	24.61
	4 Tx Slots	27.54	27.38	27.66	-3.01	24.53	24.37	24.65
EDGE (8PSK)	1 Tx Slot	26.43	25.65	26.59	-9.03	17.40	16.62	17.56
	2 Tx Slots	24.53	24.17	24.60	-6.02	18.51	18.15	18.58
	3 Tx Slots	22.46	22.23	22.51	-4.26	18.20	17.97	18.25
	4 Tx Slots	21.22	21.11	21.39	-3.01	18.21	18.10	18.38
GSM850 ANT 3 Full Power		Burst-Averaged output Power (dBm)			Division Factors	Frame-Averaged output Power (dBm)		
		128CH	190CH	251CH		128CH	190CH	251CH
		824.2	836.6	848.8		824.2	836.6	848.8
GSM (CS)		31.06	30.97	31.31	-9.03	22.03	21.94	22.28
GPRS (GMSK)	1 Tx Slot	31.04	30.95	31.29	-9.03	22.01	21.92	22.26
	2 Tx Slots	29.49	29.57	29.75	-6.02	23.47	23.55	23.73
	3 Tx Slots	27.31	27.55	27.62	-4.26	23.05	23.29	23.36
	4 Tx Slots	26.20	26.42	26.40	-3.01	23.19	23.41	23.39
EDGE (8PSK)	1 Tx Slot	24.82	24.99	24.92	-9.03	15.79	15.96	15.89
	2 Tx Slots	22.72	22.87	23.01	-6.02	16.70	16.85	16.99
	3 Tx Slots	20.95	21.28	21.48	-4.26	16.69	17.02	17.22
	4 Tx Slots	19.81	20.05	20.13	-3.01	16.80	17.04	17.12
GSM1900 ANT 2 Full Power		Burst-Averaged output Power (dBm)			Division Factors	Frame-Averaged output Power (dBm)		
		512CH	661CH	810CH		512CH	661CH	810CH
		1850.2	1880.0	1909.8		1850.2	1880.0	1909.8
GSM (CS)		33.08	32.99	33.26	-9.03	24.05	23.96	24.23
GPRS (GMSK)	1 Tx Slot	33.05	32.98	33.23	-9.03	24.02	23.95	24.20
	2 Tx Slots	30.59	30.72	30.64	-6.02	24.57	24.70	24.62
	3 Tx Slots	28.74	28.55	28.61	-4.26	24.48	24.29	24.35
	4 Tx Slots	27.28	27.19	27.20	-3.01	24.27	24.18	24.19
EDGE (8PSK)	1 Tx Slot	29.18	29.08	29.26	-9.03	20.15	20.05	20.23
	2 Tx Slots	26.39	26.68	26.61	-6.02	20.37	20.66	20.59
	3 Tx Slots	24.58	24.69	24.71	-4.26	20.32	20.43	20.45
	4 Tx Slots	23.25	23.47	23.52	-3.01	20.24	20.46	20.51



GSM1900 ANT 4 Full Power		Burst-Averaged output Power (dBm)			Division Factors	Frame-Averaged output Power (dBm)		
		512CH	661CH	810CH		512CH	661CH	810CH
		1850.2	1880.0	1909.8		1850.2	1880.0	1909.8
GSM (CS)		28.18	28.12	28.35	-9.03	19.15	19.09	19.32
GPRS (GMSK)	1 Tx Slot	28.16	28.08	28.30	-9.03	19.13	19.05	19.27
	2 Tx Slots	25.89	26.22	26.15	-6.02	19.87	20.20	20.13
	3 Tx Slots	24.18	24.11	24.37	-4.26	19.92	19.85	20.11
	4 Tx Slots	22.98	22.91	23.07	-3.01	19.97	19.90	20.06
EDGE (8PSK)	1 Tx Slot	24.04	24.09	24.22	-9.03	15.01	15.06	15.19
	2 Tx Slots	21.58	21.89	21.84	-6.02	15.56	15.87	15.82
	3 Tx Slots	20.12	20.43	20.44	-4.26	15.86	16.17	16.18
	4 Tx Slots	18.91	19.54	19.32	-3.01	15.90	16.53	16.31

Note:

1. Per KDB 447498 D01 v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. For hotspot SAR, EUT was performed at GPRS Class 12 multi-slots(2Tx) mode.

Timeslot consignations

No. Of Slots	Slot 1	Slot 2	Slot 3	Slot 4
Slot Consignation	1Up4Down	2UpDown	3UpDown	4Up1Down
Duty Cycle	1:8	1:4	1:2.67	1:2
Crest Factor	-9.03dB	-6.02dB	-4.26dB	-3.01dB



8.2 CDMA Conducted output Power

CDMA BC 0 ANT 1 Full Power	Average Power (dBm)		
	1013CH	384CH	777CH
	824.70MHz	836.52MHz	848.31MHz
RC1 + SO55	22.98	22.95	23.07
RC3 + SO55	22.93	22.87	22.96
RC3 + SO32(+F-SCH)	22.68	22.77	22.84
RC3 + SO32(+SCH)	22.91	22.85	22.95
CDMA BC 0 ANT 3 Full Power	Average Power (dBm)		
	1013CH	384CH	777CH
	824.70MHz	836.52MHz	848.31MHz
RC1 + SO55	23.88	23.77	23.87
RC3 + SO55	23.61	23.48	23.65
RC3 + SO32(+F-SCH)	23.82	23.75	23.80
RC3 + SO32(+SCH)	23.49	23.34	23.42

Note:

1. Per KDB 941225 D01, SAR for RC1 is not required when the maximum average output of each channel is less than ¼ dB higher than that measured in RC3.
2. SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55. The 3G SAR test reduction procedure is applied to RC1 with RC3 as the primary mode
3. Per KDB 941225 D01, SAR for body exposure configurations is measured in RC3 with the DUT configured using TDSO/SO32, to transmit at full rate on FCH with all other code channels disabled.
4. Per KDB 941225 D01, SAR for multiple code channels (FCH + SCHn) is not required when the maximum average output of each RF channel is less than ¼ dB higher than that measured with FCH only.



8.3 WCDMA Conducted output Power

UMTS850 (Band V) ANT 1 Full Power		Averaged output Power (dBm)		
		4132CH	4183CH	4233CH
		826.4	836.6	846..6
WCDMA	12.2kbps RMC	24.25	24.21	24.23
HSDPA	Subtest 1	22.94	22.82	22.84
	Subtest 2	22.83	22.90	22.85
	Subtest 3	23.20	23.05	23.12
	Subtest 4	22.96	23.07	22.92
HSUPA	Subtest 1	23.09	23.02	23.01
	Subtest 2	22.89	22.76	22.77
	Subtest 3	22.73	22.83	22.79
	Subtest 4	22.89	22.80	22.78
	Subtest 5	22.87	22.79	22.85
UMTS850 (Band V) ANT 3 Full Power		Averaged output Power (dBm)		
		4132CH	4183CH	4233CH
		826.4	836.6	846..6
WCDMA	12.2kbps RMC	23.64	23.68	23.78
HSDPA	Subtest 1	22.52	22.45	22.58
	Subtest 2	22.83	22.72	22.97
	Subtest 3	22.13	22.26	22.23
	Subtest 4	22.66	22.53	22.78
HSUPA	Subtest 1	22.58	22.74	22.65
	Subtest 2	22.53	22.66	22.62
	Subtest 3	22.61	22.58	22.72
	Subtest 4	22.29	22.38	22.34
	Subtest 5	22.89	22.79	22.81
UMTS1700 (Band IV) ANT 2 Full Power		Averaged output Power (dBm)		
		1312CH	1412CH	1513CH
		1712.4	1732.4	1752.6
WCDMA	12.2kbps RMC	24.33	24.83	24.78
HSDPA	Subtest 1	23.14	23.52	23.60
	Subtest 2	23.20	23.39	23.48
	Subtest 3	22.99	23.22	23.14
	Subtest 4	23.09	23.54	23.41
HSUPA	Subtest 1	23.20	23.59	23.47
	Subtest 2	23.04	23.44	23.41
	Subtest 3	23.38	23.56	23.58
	Subtest 4	23.35	23.63	23.76
	Subtest 5	22.93	23.32	23.23



UMTS1700 (Band IV) ANT 2 DSI 2 Power		Averaged output Power (dBm)		
		1312CH	1412CH	1513CH
		1712.4	1732.4	1752.6
WCDMA	12.2kbps RMC	19.86	19.97	19.82
HSDPA	Subtest 1	19.34	19.15	19.30
	Subtest 2	19.52	19.58	19.41
	Subtest 3	19.33	19.47	19.36
	Subtest 4	19.46	19.56	19.41
HSUPA	Subtest 1	19.38	19.46	19.45
	Subtest 2	19.42	19.26	19.52
	Subtest 3	19.29	19.42	19.49
	Subtest 4	19.61	19.59	19.53
	Subtest 5	19.29	19.46	19.14
UMTS1700 (Band IV) ANT 4 Full Power		Averaged output Power (dBm)		
		1312CH	1412CH	1513CH
		1712.4	1732.4	1752.6
WCDMA	12.2kbps RMC	22.74	23.18	23.12
HSDPA	Subtest 1	21.52	21.86	21.93
	Subtest 2	21.55	21.82	21.85
	Subtest 3	21.67	21.94	21.98
	Subtest 4	21.47	21.79	21.72
HSUPA	Subtest 1	21.15	21.29	21.40
	Subtest 2	21.79	21.89	22.04
	Subtest 3	21.23	21.49	21.52
	Subtest 4	21.53	21.70	21.62
	Subtest 5	21.75	22.05	21.96
UMTS1700 (Band IV) ANT 4 DSI 1 Power		Averaged output Power (dBm)		
		1312CH	1412CH	1513CH
		1712.4	1732.4	1752.6
WCDMA	12.2kbps RMC	18.96	19.08	19.12
HSDPA	Subtest 1	18.84	18.58	18.54
	Subtest 2	18.52	18.81	18.66
	Subtest 3	18.83	18.61	18.71
	Subtest 4	18.83	18.80	18.66
HSUPA	Subtest 1	18.57	18.54	18.83
	Subtest 2	18.66	18.67	18.60
	Subtest 3	18.68	18.83	18.71
	Subtest 4	18.69	18.83	18.74
	Subtest 5	18.77	18.69	18.79



UMTS1900 (Band II) ANT 2 Full Power		Averaged output Power (dBm)		
		9262CH	9400CH	9538cH
		1852.4	1880.0	1907.6
WCDMA	12.2kbps RMC	24.75	24.88	24.87
HSDPA	Subtest 1	23.27	23.45	23.41
	Subtest 2	23.48	23.52	23.63
	Subtest 3	23.36	23.24	23.23
	Subtest 4	22.94	22.86	22.89
HSUPA	Subtest 1	22.91	22.82	22.87
	Subtest 2	22.84	22.95	22.94
	Subtest 3	23.51	23.58	23.45
	Subtest 4	23.45	23.27	23.32
	Subtest 5	22.97	23.09	22.98
UMTS1900 (Band II) ANT 2 DSI 2 Power		Averaged output Power (dBm)		
		9262CH	9400CH	9538cH
		1852.4	1880.0	1907.6
WCDMA	12.2kbps RMC	18.74	18.69	18.83
HSDPA	Subtest 1	18.44	18.54	18.49
	Subtest 2	18.35	18.39	18.38
	Subtest 3	18.32	18.48	18.14
	Subtest 4	18.42	18.40	18.28
HSUPA	Subtest 1	18.51	18.57	18.45
	Subtest 2	18.32	18.40	18.43
	Subtest 3	18.29	18.39	18.41
	Subtest 4	18.43	18.41	18.47
	Subtest 5	18.21	18.38	18.27
UMTS1900 (Band II) ANT 4 Full Power		Averaged output Power (dBm)		
		9262CH	9400CH	9538cH
		1852.4	1880.0	1907.6
WCDMA	12.2kbps RMC	23.08	23.14	23.08
HSDPA	Subtest 1	21.93	21.99	22.05
	Subtest 2	21.97	21.85	21.94
	Subtest 3	21.56	21.46	21.61
	Subtest 4	22.03	22.07	22.11
HSUPA	Subtest 1	21.74	21.63	21.85
	Subtest 2	21.89	21.61	21.77
	Subtest 3	21.45	21.62	21.56
	Subtest 4	21.54	21.58	21.64
	Subtest 5	21.97	21.92	22.02



UMTS1900 (Band II) ANT 4 DSI 1 Power		Averaged output Power (dBm)		
		9262CH	9400CH	9538cH
		1852.4	1880.0	1907.6
WCDMA	12.2kbps RMC	18.32	18.37	18.24
HSDPA	Subtest 1	17.98	17.99	17.99
	Subtest 2	18.06	17.91	17.94
	Subtest 3	17.88	17.82	18.04
	Subtest 4	17.83	17.83	18.10
HSUPA	Subtest 1	18.02	18.11	17.93
	Subtest 2	17.86	17.84	18.09
	Subtest 3	17.80	17.97	17.98
	Subtest 4	17.83	17.90	18.09
	Subtest 5	17.98	17.96	17.89

Note:

1. WCDMA SAR was tested under RMC 12.2kbps with HSPA Inactive per KDB Publication 941225 D01v03r01.HSPA SAR was not requires since the average output power of the HSPA subtests was not more than 0.25dB higher than the RMC level and SAR was less than 1.2W/kg.
2. It is expected by the manufacturer that MPR for some HSPA subtests may be up to 2dB more than specified by 3GPP, but also as low as 0dB according to the chipset implementation in this model

8.4 LTE Conducted peak output Power

LTE Test Configurations

The CMW500 Wide Band Radio Communication Tester was used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR test were performed with the same number of RB and RB offsets transmitting on all frames.

1) Spectrum Plots for RB configurations

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

2) MPR

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

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

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

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

3) A-MPR LTE procedures for SAR testing

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

4) LTE procedures for SAR testing

A) Largest channel bandwidth standalone SAR test

requirements i) QPSK with 1 RB allocation

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



1. LTE Band 2 Conducted Power Test Verdict:

LTE FDD Band 2 ANT 2 Full Power				Conducted Power(dBm)			Tune up
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			
				18607/1850.7	18900/1880.0	19193/1909.3	
1.4MHz	QPSK	1	0	24.67	24.83	24.96	24.5±1.0
		1	3	24.81	24.84	25.06	
		1	5	24.73	24.87	25.03	
		3	0	23.62	23.84	24.01	23.5±1.0
		3	2	23.69	23.88	24.00	
		3	3	23.63	23.87	23.82	
	6	0	23.61	23.90	23.96	23.5±1.0	
	16QAM	1	0	23.74	23.92	24.09	23.5±1.0
		1	3	23.84	23.86	24.11	
		1	5	23.73	23.93	24.15	
		3	0	22.67	22.93	23.14	22.5±1.0
		3	2	22.81	22.94	23.06	
		3	3	22.76	22.87	23.00	
	6	0	22.71	22.80	22.93	22.5±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18615/1851.5	18900/1880.0	19185/1908.5	
3MHz	QPSK	1	0	24.77	24.74	24.91	24.5±1.0
		1	7	24.96	24.70	24.98	
		1	14	24.83	24.86	25.06	
		8	0	23.82	23.73	24.01	23.5±1.0
		8	4	23.75	23.94	24.00	
		8	7	23.63	23.65	23.88	
	15	0	23.72	23.85	23.92	23.5±1.0	
	16QAM	1	0	23.74	23.98	24.05	23.5±1.0
		1	7	23.95	23.93	24.11	
		1	14	23.83	24.04	24.20	
		8	0	22.87	23.06	23.05	22.5±1.0
		8	4	22.91	22.89	23.07	
		8	7	22.76	23.04	23.01	
	15	0	22.81	22.74	22.89	22.5±1.0	



LTE FDD Band 2 ANT 2 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18625/1852.5	18900/1880.0	19175/1907.5	
5MHz	QPSK	1	0	24.71	24.83	24.97	24.5±1.0
		1	13	24.65	24.86	24.91	
		1	24	24.88	24.99	25.12	
		12	0	23.73	23.84	23.93	23.5±1.0
		12	6	23.69	23.84	23.91	
		12	13	23.67	23.91	24.00	
		25	0	23.59	23.85	23.91	23.5±1.0
	16QAM	1	0	23.75	24.03	24.17	24.0±1.0
		1	13	23.68	23.94	24.05	
		1	24	23.92	24.25	24.33	
		12	0	22.73	22.82	22.83	22.5±1.0
		12	6	22.67	22.94	22.85	
		12	13	22.69	22.89	22.98	
		25	0	22.72	22.87	22.91	22.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18650/1855	18900/1880.0	19150/1905	
10MHz	QPSK	1	0	24.74	24.85	24.98	24.5±1.0
		1	25	24.68	24.82	24.65	
		1	49	24.57	24.86	24.99	
		25	0	23.67	23.85	23.83	23.5±1.0
		25	13	23.68	23.83	23.85	
		25	25	23.72	23.98	24.04	
		50	0	23.65	23.90	23.92	23.5±1.0
	16QAM	1	0	23.71	24.10	24.21	23.5±1.0
		1	25	23.98	23.88	23.84	
		1	49	23.81	24.08	24.24	
		25	0	22.79	22.86	22.97	22.5±1.0
		25	13	22.69	22.87	22.91	
		25	25	22.77	22.97	23.07	
		50	0	22.76	22.88	23.00	22.5±1.0



LTE FDD Band 2 ANT 2 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18675/1857.5	18900/1880.0	19125/1902.5	
15MHz	QPSK	1	0	24.66	24.63	24.77	24.5±1.0
		1	38	24.49	24.59	24.65	
		1	74	24.52	24.68	24.88	
		36	0	23.69	23.86	23.95	23.5±1.0
		36	18	23.61	23.84	23.76	
		36	39	23.71	23.84	23.80	
		75	0	23.57	23.71	23.85	23.5±1.0
	16QAM	1	0	23.73	23.82	23.84	23.5±1.0
		1	38	23.68	23.84	23.76	
		1	74	23.56	23.92	23.98	
		36	0	22.52	22.82	22.90	22.5±1.0
		36	18	22.59	22.79	22.83	
		36	39	22.68	22.94	22.92	
		75	0	22.63	22.73	22.87	22.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
20MHz	QPSK	1	0	24.71	24.73	24.84	24.5±1.0
		1	50	24.89	24.65	24.95	
		1	99	24.72	24.83	24.68	
		50	0	23.69	23.71	23.75	23.5±1.0
		50	25	23.51	23.72	23.77	
		50	50	23.61	23.84	23.86	
		100	0	23.47	23.75	23.71	23.5±1.0
	16QAM	1	0	23.53	23.79	24.01	23.5±1.0
		1	50	23.58	23.63	23.89	
		1	99	23.36	23.92	23.72	
		50	0	23.52	22.71	22.77	22.5±1.0
		50	25	23.49	22.71	22.75	
		50	50	23.68	22.86	22.88	
		100	0	22.53	22.76	22.78	22.5±1.0



LTE FDD Band 2 ANT 2 DSI 2 Power				Conducted Power(dBm)						
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up			
				18607/1850.7	18900/1880.0	19193/1909.3				
1.4MHz	QPSK	1	0	17.63	17.56	17.72	17.5±1.0			
		1	3	17.85	17.84	17.82				
		1	5	17.63	17.91	17.58				
		3	0	17.83	17.64	17.58	17.5±1.0			
		3	2	17.59	17.77	17.89				
		3	3	17.71	17.58	17.81				
	16QAM	16QAM	6	0	17.46	17.64	17.48	17.5±1.0		
			1	0	17.77	17.79	17.96	17.5±1.0		
			1	3	17.99	17.63	17.93			
			1	5	17.76	17.68	17.90			
			3	0	17.78	17.94	17.97	17.5±1.0		
			3	2	17.75	17.86	17.66			
			3	3	17.60	17.74	17.48			
			6	0	17.73	17.78	17.70	17.5±1.0		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up			
				18615/1851.5	18900/1880.0	19185/1908.5				
3MHz	QPSK	1	0	17.81	17.61	17.74	17.5±1.0			
		1	7	17.61	17.70	17.72				
		1	14	17.56	17.63	17.76				
		16QAM	16QAM	8	0	17.41	17.61	17.65	17.5±1.0	
				8	4	17.67	17.63	17.53		
				8	7	17.80	17.62	17.72		
				15	0	17.83	17.70	17.85	17.5±1.0	
	16QAM			16QAM	1	0	17.52	17.58	17.77	17.5±1.0
					1	7	17.56	17.54	17.70	
					1	14	17.33	17.52	17.65	
		8	0		17.31	17.49	17.49	17.5±1.0		
		8	4		17.66	17.48	17.50			
		8	7		17.38	17.51	17.54			
	15	0	17.61	17.58	17.70	17.5±1.0				



LTE FDD Band 2 ANT 2 DSI 2 Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18625/1852.5	18900/1880.0	19175/1907.5	
5MHz	QPSK	1	0	17.72	17.88	17.90	17.5±1.0
		1	13	17.82	17.80	17.74	
		1	24	17.58	17.57	17.63	
		12	0	17.58	17.36	17.58	17.5±1.0
		12	6	17.89	17.65	17.55	
		12	13	17.81	17.91	17.98	
	25	0	17.48	17.88	17.77	17.5±1.0	
	16QAM	1	0	17.96	17.43	17.61	17.5±1.0
		1	13	17.93	17.68	17.50	
		1	24	17.90	17.52	17.14	
		12	0	17.97	17.28	17.47	17.5±1.0
		12	6	17.66	17.83	17.74	
		12	13	17.48	17.51	17.30	
	25	0	17.70	17.61	17.49	17.5±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18650/1855	18900/1880.0	19150/1905	
10MHz	QPSK	1	0	17.85	18.00	18.01	17.5±1.0
		1	25	17.54	17.60	17.71	
		1	49	17.83	17.67	17.78	
		25	0	17.66	17.49	17.47	17.5±1.0
		25	13	17.64	17.69	17.85	
		25	25	17.72	17.62	17.61	
	50	0	17.87	17.94	18.05	17.5±1.0	
	16QAM	1	0	17.48	17.67	17.79	17.5±1.0
		1	25	17.55	17.39	17.56	
		1	49	17.33	17.17	17.04	
		25	0	17.59	17.48	17.34	17.5±1.0
		25	13	17.86	17.77	17.73	
		25	25	17.50	17.38	17.31	
	50	0	17.32	17.47	17.36	17.5±1.0	



LTE FDD Band 2 ANT 2 DSI 2 Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18675/1857.5	18900/1880.0	19125/1902.5	
15MHz	QPSK	1	0	17.92	17.79	17.60	17.5±1.0
		1	38	17.57	17.63	17.56	
		1	74	17.79	17.64	17.69	
		36	0	17.43	17.58	17.48	17.5±1.0
		36	18	17.97	17.78	17.59	
		36	39	17.58	17.71	17.78	
		75	0	17.76	17.86	17.71	17.5±1.0
	16QAM	1	0	17.54	17.42	17.59	17.5±1.0
		1	38	17.77	17.62	17.55	
		1	74	17.07	17.19	17.10	
		36	0	17.50	17.34	17.50	17.5±1.0
		36	18	17.57	17.75	17.75	
		36	39	17.35	17.34	17.43	
		75	0	17.55	17.69	17.67	17.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18700/1860.0	18900/1880.0	19100/1900.0	
20MHz	QPSK	1	0	17.76	17.96	17.89	17.5±1.0
		1	50	17.63	17.72	17.82	
		1	99	17.54	17.68	17.78	
		50	0	17.41	17.27	17.28	17.5±1.0
		50	25	17.53	17.67	17.65	
		50	50	18.05	17.96	18.10	
		100	0	17.98	17.97	18.16	17.5±1.0
	16QAM	1	0	17.54	17.45	17.45	17.5±1.0
		1	50	17.47	17.63	17.66	
		1	99	17.16	17.36	17.18	
		50	0	17.41	17.31	17.39	17.5±1.0
		50	25	17.93	17.86	17.82	
		50	50	17.28	17.24	17.06	
		100	0	17.75	17.68	17.64	17.5±1.0



LTE FDD Band 2 ANT 4 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18607/1850.7	18900/1880.0	19193/1909.3	
1.4MHz	QPSK	1	0	23.56	23.70	23.53	23.0±1.0
		1	3	23.39	23.64	23.66	
		1	5	23.43	23.69	23.47	
		3	0	22.51	22.70	22.40	22.0±1.0
		3	2	22.41	22.69	22.53	
		3	3	22.47	22.68	22.57	
	6	0	20.77	22.64	22.55	22.0±1.0	
	16QAM	1	0	22.76	22.91	22.72	22.5±1.0
		1	3	22.61	22.93	22.91	
		1	5	22.56	22.81	22.72	
		3	0	21.56	21.61	21.61	21.0±1.0
		3	2	21.71	21.54	21.65	
		3	3	21.43	21.68	21.49	
	6	0	21.41	21.59	21.57	21.0±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18615/1851.5	18900/1880.0	19185/1908.5	
3MHz	QPSK	1	0	23.52	23.58	23.49	23.0±1.0
		1	7	23.57	23.63	23.59	
		1	14	23.63	23.69	23.64	
		8	0	22.61	22.68	22.66	22.0±1.0
		8	4	22.67	22.68	22.62	
		8	7	22.71	22.75	22.68	
		15	0	22.63	22.65	22.59	
	16QAM	1	0	22.72	22.75	22.74	22.5±1.0
		1	7	22.69	22.73	22.71	
		1	14	22.78	22.90	22.82	
		8	0	21.68	21.77	21.71	21.5±1.0
		8	4	21.67	21.70	21.73	
		8	7	21.75	21.84	21.76	
		15	0	21.58	21.63	21.59	



LTE FDD Band 2 ANT 4 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18625/1852.5	18900/1880.0	19175/1907.5	
5MHz	QPSK	1	0	23.64	23.71	23.68	23.0±1.0
		1	13	23.59	23.69	23.67	
		1	24	23.60	23.65	23.59	
		12	0	22.65	22.67	22.63	22.0±1.0
		12	6	22.63	22.68	22.62	
		12	13	22.71	22.75	22.69	
	25	0	22.63	22.65	22.63	22.0±1.0	
	16QAM	1	0	22.71	22.72	22.61	22.5±1.0
		1	13	22.76	22.81	22.71	
		1	24	22.74	22.84	22.73	
		12	0	21.66	21.72	21.63	21.5±1.0
		12	6	21.65	21.67	21.59	
		12	13	21.74	21.79	21.73	
		25	0	21.58	21.69	21.65	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18650/1855	18900/1880.0	19150/1905	
10MHz	QPSK	1	0	23.57	23.63	23.58	23.0±1.0
		1	25	23.61	23.70	23.66	
		1	49	22.62	22.65	22.57	
		25	0	22.59	22.69	22.63	22.5±1.0
		25	13	22.63	22.76	22.71	
		25	25	22.65	22.70	22.64	
		50	0	22.58	22.66	22.60	22.0±1.0
	16QAM	1	0	22.79	22.87	22.74	22.5±1.0
		1	25	22.68	22.78	22.76	
		1	49	22.74	22.85	22.82	
		25	0	21.63	21.73	21.69	21.5±1.0
		25	13	21.71	21.78	21.67	
		25	25	21.74	21.79	21.76	
		50	0	21.63	21.68	21.66	21.0±1.0



LTE FDD Band 2 ANT 4 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18675/1857.5	18900/1880.0	19125/1902.5	
15MHz	QPSK	1	0	23.63	23.45	23.28	23.0±1.0
		1	38	23.66	23.43	23.34	
		1	74	23.49	23.44	23.29	
		36	0	22.64	22.62	22.49	22.0±1.0
		36	18	22.72	22.57	22.43	
		36	39	22.58	22.65	22.57	
		75	0	22.61	22.53	22.48	22.0±1.0
	16QAM	1	0	22.70	22.64	22.53	22.0±1.0
		1	38	22.68	22.69	22.51	
		1	74	22.71	22.67	22.57	
		36	0	21.68	21.57	21.43	21.0±1.0
		36	18	21.66	21.69	21.56	
		36	39	21.59	21.71	21.64	
		75	0	21.50	21.53	21.36	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18700/1860.0	18900/1880.0	19100/1900.0	
20MHz	QPSK	1	0	23.39	23.50	23.43	23.0±1.0
		1	50	23.31	23.48	23.46	
		1	99	23.39	23.58	23.52	
		50	0	22.69	22.55	22.54	22.0±1.0
		50	25	22.53	22.59	22.56	
		50	50	22.41	22.62	22.60	
		100	0	22.47	22.57	22.55	22.0±1.0
	16QAM	1	0	22.66	22.55	22.70	22.5±1.0
		1	50	22.51	22.64	22.73	
		1	99	22.48	22.68	22.64	
		50	0	21.41	21.58	21.55	21.0±1.0
		50	25	21.38	21.56	21.52	
		50	50	21.54	21.64	21.63	
		100	0	21.50	21.57	21.56	21.0±1.0



LTE FDD Band 2 ANT 4 DSI 1 Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18607/1850.7	18900/1880.0	19193/1909.3	
1.4MHz	QPSK	1	0	17.74	17.91	17.91	17.5±1.0
		1	3	17.73	17.98	17.93	
		1	5	17.78	18.00	17.97	
		3	0	17.73	17.92	17.89	17.5±1.0
		3	2	17.75	17.95	17.91	
		3	3	17.65	17.92	17.91	
	16QAM	6	0	17.78	17.93	17.86	17.5±1.0
		1	0	17.84	18.10	18.07	17.5±1.0
		1	3	17.81	18.11	18.00	
		1	5	17.92	18.16	18.01	
		3	0	17.80	17.98	18.03	17.5±1.0
		3	2	17.88	17.92	17.91	
	3	3	17.82	17.95	17.80		
	6	0	17.80	17.95	17.86	17.5±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18615/1851.5	18900/1880.0	19185/1908.5	
3MHz	QPSK	1	0	17.75	17.83	17.89	17.5±1.0
		1	7	17.79	17.76	17.70	
		1	14	17.92	17.92	17.77	
		8	0	17.76	17.86	17.91	17.5±1.0
		8	4	17.69	17.86	17.98	
		8	7	18.11	17.96	17.91	
		15	0	17.87	17.86	17.92	
	16QAM	1	0	18.02	18.04	18.18	17.5±1.0
		1	7	17.99	17.89	17.73	
		1	14	18.13	18.01	18.02	
		8	0	17.75	17.85	17.75	17.5±1.0
		8	4	17.80	17.84	17.85	
		8	7	18.14	17.98	18.10	
		15	0	17.88	17.83	17.82	



LTE FDD Band 2 ANT 4 DSI 1 Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18625/1852.5	18900/1880.0	19175/1907.5	
5MHz	QPSK	1	0	17.73	17.91	17.93	17.5±1.0
		1	13	17.73	17.86	17.82	
		1	24	17.96	18.04	17.94	
		12	0	17.79	17.87	17.86	17.5±1.0
		12	6	17.75	17.89	17.85	
		12	13	17.80	17.95	17.95	
		25	0	17.77	17.88	17.88	17.5±1.0
	16QAM	1	0	17.86	18.01	18.00	17.5±1.0
		1	13	17.75	18.06	18.05	
		1	24	18.05	18.16	18.15	
		12	0	17.74	17.94	17.93	17.5±1.0
		12	6	17.76	17.87	17.83	
		12	13	17.78	17.94	17.91	
		25	0	17.78	17.86	17.86	17.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18650/1855	18900/1880.0	19150/1905	
10MHz	QPSK	1	0	17.79	17.85	17.84	17.5±1.0
		1	25	17.73	17.90	17.90	
		1	49	17.78	17.88	17.91	
		25	0	17.73	17.87	17.91	17.5±1.0
		25	13	17.77	17.90	17.84	
		25	25	17.85	17.97	17.93	
		50	0	17.83	17.90	17.96	17.5±1.0
	16QAM	1	0	17.87	18.08	18.22	17.5±1.0
		1	25	18.01	18.04	18.15	
		1	49	17.88	17.98	18.05	
		25	0	17.72	17.92	17.91	17.5±1.0
		25	13	17.70	17.90	17.90	
		25	25	17.78	18.00	18.00	
		50	0	17.79	17.87	17.94	17.5±1.0



LTE FDD Band 2 ANT 4 DSI 1 Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18675/1857.5	18900/1880.0	19125/1902.5	
15MHz	QPSK	1	0	17.52	17.62	17.62	17.5±1.0
		1	38	17.52	17.61	17.60	
		1	74	17.55	17.65	17.61	
		36	0	17.73	17.72	17.74	17.5±1.0
		36	18	17.74	17.74	17.88	
		36	39	17.85	17.93	17.89	
		75	0	17.64	17.71	17.68	17.5±1.0
	16QAM	1	0	17.87	18.03	17.72	17.5±1.0
		1	38	17.72	17.97	17.89	
		1	74	17.74	17.99	17.96	
		36	0	17.73	17.84	17.87	17.5±1.0
		36	18	17.83	17.70	17.74	
		36	39	17.67	17.72	17.80	
		75	0	17.65	17.75	17.72	17.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18700/1860.0	18900/1880.0	19100/1900.0	
20MHz	QPSK	1	0	17.52	17.66	17.73	17.5±1.0
		1	50	17.59	17.68	17.67	
		1	99	17.55	17.71	17.52	
		50	0	17.63	17.69	17.55	17.5±1.0
		50	25	17.57	17.72	17.55	
		50	50	17.68	17.85	17.63	
		100	0	17.68	17.73	17.66	17.5±1.0
	16QAM	1	0	17.71	17.93	17.86	17.5±1.0
		1	50	17.79	17.70	17.76	
		1	99	18.04	18.11	18.01	
		50	0	17.65	17.73	17.61	17.5±1.0
		50	25	17.57	17.75	17.56	
		50	50	17.73	17.79	17.62	
		100	0	17.71	17.77	17.69	17.5±1.0



2. LTE Band 4 Conducted Power Test Verdict:

LTE FDD Band 4 ANT 2 Full Power				Conducted Power(dBm)			Tune up
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	25.01	25.11	25.09	24.5±1.0
		1	3	25.19	25.18	24.93	
		1	5	25.10	25.11	25.07	
		3	0	24.13	24.10	24.05	23.5±1.0
		3	2	24.04	24.04	24.02	
		3	3	24.11	24.03	24.01	
	6	0	24.13	24.06	24.01	23.5±1.0	
	16QAM	1	0	24.54	24.43	24.54	24.0±1.0
		1	3	24.47	24.47	24.46	
		1	5	24.50	24.42	24.42	
		3	0	23.37	23.33	23.21	23.0±1.0
		3	2	23.38	23.29	23.37	
		3	3	23.39	23.31	23.29	
	6	0	23.35	23.24	23.18	23.0±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
3MHz	QPSK	1	0	25.18	25.09	25.21	24.5±1.0
		1	7	25.12	25.10	25.14	
		1	14	25.19	25.24	25.22	
		8	0	24.32	24.18	24.05	24.0±1.0
		8	4	24.33	24.20	24.22	
		8	7	24.31	24.28	24.12	
		15	0	24.36	24.26	24.04	24.0±1.0
	16QAM	1	0	24.35	24.23	24.44	24.0±1.0
		1	7	24.45	24.32	24.42	
		1	14	24.57	24.40	24.32	
		8	0	23.32	23.27	23.41	23.0±1.0
		8	4	23.35	23.27	23.57	
		8	7	23.30	23.36	23.39	
		15	0	23.36	23.28	23.13	23.0±1.0



LTE FDD Band 4 ANT 2 Full Power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up	
				19975/1712.5	20175/1732.5	20375/1752.5		
5MHz	QPSK	1	0	25.06	25.01	25.07	24.5±1.0	
		1	13	25.10	25.04	25.14		
		1	24	25.12	25.09	25.21		
		12	0	24.36	24.22	24.15	24.0±1.0	
		12	6	24.39	24.22	24.17		
		12	13	24.35	24.25	24.22		
	16QAM	16QAM	25	0	24.36	24.29	24.15	24.0±1.0
			1	0	24.35	24.36	24.29	24.0±1.0
			1	13	24.37	24.29	24.38	
			1	24	24.66	24.54	24.47	
			12	0	23.40	23.28	23.15	23.0±1.0
			12	6	23.33	23.15	23.23	
			12	13	23.35	23.25	23.28	
			25	0	23.36	23.30	23.20	23.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up	
				20000/1715.0	20175/1732.5	20350/1750.0		
10MHz	QPSK	1	0	25.10	25.10	25.09	24.5±1.0	
		1	25	25.12	25.07	25.21		
		1	49	25.17	25.15	25.16		
		25	0	24.38	24.24	24.22	24.0±1.0	
		25	13	24.38	24.26	24.19		
		25	25	24.34	24.27	24.27		
		50	0	24.38	24.30	24.26	23.5±1.0	
	16QAM	16QAM	1	0	24.49	24.28	24.40	24.0±1.0
			1	25	24.50	24.31	24.33	
			1	49	24.49	24.36	24.41	
			25	0	23.40	23.26	23.18	23.0±1.0
			25	13	23.33	23.30	23.23	
			25	25	23.41	23.36	23.26	
			50	0	23.37	23.31	23.20	23.0±1.0



LTE FDD Band 4 ANT 2 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	25.00	24.95	25.04	24.5±1.0
		1	38	25.05	25.11	24.90	
		1	74	25.07	24.98	24.96	
		36	0	24.38	24.22	24.12	24.0±1.0
		36	18	24.20	24.22	24.36	
		36	39	24.36	24.10	24.24	
		75	0	24.19	24.10	24.08	23.5±1.0
	16QAM	1	0	24.15	24.30	24.24	24.0±1.0
		1	38	24.33	24.24	24.10	
		1	74	24.30	24.22	24.21	
		36	0	23.28	23.18	23.26	23.0±1.0
		36	18	23.22	23.36	23.24	
		36	39	23.29	23.19	23.16	
		75	0	23.15	23.23	23.10	22.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20050/1720.0	20175/1732.5	20300/1745.0	
20MHz	QPSK	1	0	25.04	24.99	25.06	24.5±1.0
		1	50	25.12	25.14	25.06	
		1	99	25.02	25.07	25.09	
		50	0	24.17	24.11	24.08	24.0±1.0
		50	25	24.10	24.06	24.05	
		50	50	24.16	24.14	24.11	
		100	0	24.15	24.13	24.06	23.5±1.0
	16QAM	1	0	24.15	24.14	24.21	24.0±1.0
		1	50	24.36	24.41	24.08	
		1	99	24.58	24.14	24.23	
		50	0	23.17	23.14	23.05	23.0±1.0
		50	25	23.17	23.12	23.09	
		50	50	23.14	23.09	23.11	
		100	0	23.21	23.15	23.06	22.5±1.0



LTE FDD Band 4 ANT 2 DSI 2 Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	18.51	18.66	18.69	18.0±1.0
		1	3	18.61	18.36	18.48	
		1	5	18.66	18.70	18.56	
		3	0	18.21	18.63	18.53	18.0±1.0
		3	2	18.54	18.64	18.48	
		3	3	18.49	18.43	18.51	
	6	0	18.53	18.62	18.57	18.0±1.0	
	16QAM	1	0	18.12	18.30	18.12	18.0±1.0
		1	3	18.39	18.48	18.32	
		1	5	18.46	18.41	18.32	
		3	0	18.59	18.53	18.57	18.0±1.0
		3	2	18.60	18.70	18.62	
		3	3	18.24	18.31	18.23	
	6	0	18.34	18.44	18.48	18.0±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	18.23	18.37	18.28	18.0±1.0
		1	7	18.61	18.75	18.72	
		1	14	18.57	18.49	18.68	
		8	0	18.65	18.61	18.68	18.0±1.0
		8	4	18.74	18.66	18.78	
		8	7	18.42	18.50	18.56	
	15	0	18.85	18.70	18.60	18.0±1.0	
	16QAM	1	0	18.83	18.73	18.60	18.0±1.0
		1	7	18.45	18.26	18.35	
		1	14	18.43	18.56	18.57	
		8	0	18.58	18.73	18.60	18.0±1.0
		8	4	18.66	18.72	18.73	
		8	7	18.84	18.67	18.65	
	15	0	18.48	18.51	18.44	18.0±1.0	



LTE FDD Band 4 ANT 2 DSI 2 Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	18.27	18.38	18.24	18.0±1.0
		1	13	18.65	18.46	18.37	
		1	24	18.74	18.55	18.43	
		12	0	18.64	18.73	18.77	18.0±1.0
		12	6	18.70	18.70	18.61	
		12	13	18.70	18.56	18.52	
	16QAM	25	0	18.74	18.64	18.52	18.0±1.0
		1	0	18.20	18.37	18.51	18.0±1.0
		1	13	18.49	18.35	18.37	
		1	24	18.62	18.44	18.47	
		12	0	18.55	18.68	18.56	18.0±1.0
		12	6	18.51	18.62	18.53	
		12	13	18.28	18.44	18.45	
		25	0	18.29	18.61	18.47	18.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20000/1715.0	20175/1732.5	20350/1750.0	
10MHz	QPSK	1	0	18.46	18.33	18.40	18.0±1.0
		1	25	18.49	18.69	18.65	
		1	49	18.51	18.67	18.63	
		25	0	18.32	18.57	18.71	18.0±1.0
		25	13	18.48	18.28	18.60	
		25	25	18.33	18.48	18.65	
		50	0	18.65	18.71	18.61	18.0±1.0
	16QAM	1	0	18.59	18.27	18.62	18.0±1.0
		1	25	18.49	18.33	18.16	
		1	49	18.41	18.25	18.26	
		25	0	18.56	18.56	18.37	18.0±1.0
		25	13	18.49	18.61	18.46	
		25	25	18.36	18.52	18.48	
		50	0	18.49	18.66	18.23	18.0±1.0



LTE FDD Band 4 ANT 2 DSI 2 Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	18.52	18.43	18.42	18.0±1.0
		1	38	18.61	18.67	18.21	
		1	74	18.43	18.49	18.46	
		36	0	18.59	18.46	18.34	18.0±1.0
		36	18	18.55	18.49	18.68	
		36	39	18.49	18.65	18.54	
		75	0	18.61	18.60	18.64	18.0±1.0
	16QAM	1	0	18.52	18.68	18.86	18.0±1.0
		1	38	18.52	18.35	18.36	
		1	74	18.42	18.58	18.62	
		36	0	18.44	18.46	18.53	18.0±1.0
		36	18	18.45	18.52	18.38	
		36	39	18.41	18.36	18.46	
		75	0	18.47	18.38	18.55	18.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20050/1720.0	20175/1732.5	20300/1745.0	
20MHz	QPSK	1	0	18.24	18.38	18.37	18.0±1.0
		1	50	18.47	18.51	18.62	
		1	99	18.55	18.73	18.72	
		50	0	18.40	18.67	18.55	18.0±1.0
		50	25	18.68	18.51	18.49	
		50	50	18.52	18.45	18.61	
		100	0	18.70	18.59	18.64	18.0±1.0
	16QAM	1	0	18.35	18.46	18.54	18.0±1.0
		1	50	18.43	18.57	18.38	
		1	99	18.57	18.67	18.29	
		50	0	18.40	18.35	18.42	18.0±1.0
		50	25	18.40	18.45	18.26	
		50	50	18.54	18.42	18.43	
		100	0	18.51	18.57	18.46	18.0±1.0



LTE FDD Band 4 ANT 4 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	23.94	23.97	24.03	23.5±1.0
		1	3	23.95	23.99	24.08	
		1	5	24.03	23.98	24.03	
		3	0	22.97	23.01	23.02	22.5±1.0
		3	2	23.02	22.93	23.03	
		3	3	22.94	22.98	23.07	
	6	0	22.99	22.99	23.01	22.5±1.0	
	16QAM	1	0	23.03	23.11	23.19	22.5±1.0
		1	3	23.19	23.21	23.11	
		1	5	23.15	23.10	23.16	
		3	0	22.11	22.00	22.09	21.5±1.0
		3	2	22.05	22.14	22.16	
		3	3	22.01	22.04	22.06	
	6	0	22.09	22.06	21.99	21.5±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	23.71	23.88	23.69	23.5±1.0
		1	7	23.68	23.79	23.57	
		1	14	23.79	23.94	23.76	
		8	0	22.77	22.93	22.74	22.5±1.0
		8	4	22.76	22.90	22.76	
		8	7	22.82	22.98	22.82	
		15	0	22.76	22.96	22.81	
	16QAM	1	0	22.74	22.92	22.83	22.5±1.0
		1	7	22.76	22.95	22.79	
		1	14	22.97	23.17	22.96	
		8	0	21.78	21.91	21.73	21.5±1.0
		8	4	21.83	21.96	21.86	
		8	7	21.81	22.01	21.84	
		15	0	21.76	22.03	21.83	



LTE FDD Band 4 ANT 4 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	23.72	23.86	23.69	23.5±1.0
		1	13	23.74	23.90	23.70	
		1	24	23.96	24.11	23.87	
		12	0	22.73	22.93	22.76	22.5±1.0
		12	6	22.76	22.90	22.77	
		12	13	22.77	22.99	22.83	
	16QAM	25	0	22.84	23.00	22.76	22.5±1.0
		1	0	22.96	23.08	22.82	22.5±1.0
		1	13	23.06	23.18	22.99	
		1	24	23.04	23.19	23.04	
		12	0	21.84	21.96	21.74	21.5±1.0
		12	6	21.79	21.95	21.76	
		12	13	21.86	22.02	21.85	
		25	0	21.84	22.06	21.81	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20000/1715.0	20175/1732.5	20350/1750.0	
10MHz	QPSK	1	0	23.95	23.87	24.03	23.5±1.0
		1	25	23.96	23.90	23.97	
		1	49	23.98	23.94	24.01	
		25	0	23.05	22.93	22.96	22.5±1.0
		25	13	23.05	22.96	23.02	
		25	25	23.02	23.02	23.06	
		50	0	23.01	22.95	23.02	22.5±1.0
	16QAM	1	0	23.17	23.24	23.28	22.5±1.0
		1	25	23.17	23.19	23.23	
		1	49	23.09	23.08	23.09	
		25	0	22.09	21.98	22.10	21.5±1.0
		25	13	22.06	21.97	22.05	
		25	25	22.03	22.05	22.11	
		50	0	22.02	22.03	22.10	21.5±1.0



LTE FDD Band 4 ANT 4 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	23.68	23.77	23.78	23.5±1.0
		1	38	23.75	23.73	23.78	
		1	74	23.74	23.72	23.72	
		36	0	22.99	22.98	22.97	22.5±1.0
		36	18	22.92	22.85	22.96	
		36	39	23.02	22.77	23.07	
		75	0	22.82	22.83	22.87	22.5±1.0
	16QAM	1	0	22.92	22.86	22.99	22.5±1.0
		1	38	22.99	22.91	23.10	
		1	74	22.93	22.94	22.95	
		36	0	21.97	21.83	21.96	21.5±1.0
		36	18	21.93	21.97	21.94	
		36	39	22.09	21.82	21.86	
		75	0	21.88	21.86	21.88	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20050/1720.0	20175/1732.5	20300/1745.0	
20MHz	QPSK	1	0	23.79	23.88	23.86	23.5±1.0
		1	50	23.94	23.82	23.81	
		1	99	23.77	23.73	23.75	
		50	0	22.85	22.79	22.79	22.5±1.0
		50	25	22.83	22.87	22.80	
		50	50	22.88	22.89	22.90	
		100	0	22.89	22.87	22.80	22.5±1.0
	16QAM	1	0	22.90	23.09	22.98	22.5±1.0
		1	50	22.91	22.92	22.92	
		1	99	23.08	23.06	22.96	
		50	0	21.79	21.83	21.84	21.5±1.0
		50	25	21.86	21.86	21.86	
		50	50	21.84	21.91	21.89	
		100	0	21.81	21.79	21.80	21.5±1.0



LTE FDD Band 4 ANT 4 DSI 1 Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	18.19	18.32	18.37	18.0±1.0
		1	3	18.08	18.08	18.15	
		1	5	18.46	18.19	18.36	
		3	0	18.33	18.29	18.32	18.0±1.0
		3	2	18.05	18.05	18.25	
		3	3	18.11	18.21	18.25	
	16QAM	6	0	18.10	18.24	18.08	18.0±1.0
		1	0	18.49	18.38	18.19	18.0±1.0
		1	3	18.45	18.41	18.26	
		1	5	18.59	18.42	18.57	
		3	0	18.17	18.12	18.19	18.0±1.0
		3	2	18.29	18.24	18.07	
		3	3	18.19	18.19	18.20	
	6	0	18.25	18.01	18.05	18.0±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	18.24	18.24	18.32	18.0±1.0
		1	7	18.27	18.19	18.03	
		1	14	18.24	18.24	18.30	
		8	0	18.15	18.27	18.32	18.0±1.0
		8	4	18.09	18.24	18.34	
		8	7	18.16	18.17	18.12	
		15	0	18.33	18.40	18.02	
	16QAM	1	0	18.51	18.47	18.52	18.0±1.0
		1	7	18.26	18.17	18.40	
		1	14	18.40	18.44	18.47	
		8	0	18.03	18.25	18.22	18.0±1.0
		8	4	18.29	17.99	18.15	
		8	7	18.19	18.12	18.18	
		15	0	18.26	18.29	18.12	



LTE FDD Band 4 ANT 4 DSI 1 Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	18.21	18.19	18.20	18.0±1.0
		1	13	18.19	18.17	18.20	
		1	24	18.41	18.32	18.35	
		12	0	18.25	18.19	18.15	18.0±1.0
		12	6	18.25	18.19	18.17	
		12	13	18.22	18.27	18.26	
		25	0	18.25	18.17	18.23	18.0±1.0
	16QAM	1	0	18.38	18.35	18.34	18.0±1.0
		1	13	18.35	18.35	18.33	
		1	24	18.28	18.46	18.46	
		12	0	18.31	18.17	18.12	18.0±1.0
		12	6	18.25	18.19	18.13	
		12	13	18.26	18.21	18.18	
		25	0	18.30	18.16	18.21	18.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20000/1715.0	20175/1732.5	20350/1750.0	
10MHz	QPSK	1	0	18.19	18.23	18.13	18.0±1.0
		1	25	18.20	18.20	18.15	
		1	49	18.15	18.23	18.22	
		25	0	18.18	18.19	18.16	18.0±1.0
		25	13	18.15	18.22	18.17	
		25	25	18.26	18.30	18.27	
		50	0	18.26	18.21	18.26	18.0±1.0
	16QAM	1	0	18.33	18.51	18.30	18.0±1.0
		1	25	18.42	18.33	18.42	
		1	49	18.38	18.40	18.39	
		25	0	18.15	18.23	18.15	18.0±1.0
		25	13	18.20	18.21	18.16	
		25	25	18.31	18.30	18.23	
		50	0	18.31	18.17	18.25	18.0±1.0



LTE FDD Band 4 ANT 4 DSI 1 Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	17.93	17.96	17.95	18.0±1.0
		1	38	18.00	17.97	17.89	
		1	74	17.97	17.94	17.93	
		36	0	18.31	18.07	17.99	18.0±1.0
		36	18	18.32	18.11	18.04	
		36	39	18.15	18.14	18.10	
		75	0	18.10	18.01	17.94	18.0±1.0
	16QAM	1	0	18.21	18.15	18.19	18.0±1.0
		1	38	18.03	18.29	18.07	
		1	74	18.28	18.25	18.17	
		36	0	18.21	18.19	18.18	18.0±1.0
		36	18	18.08	18.16	18.11	
		36	39	18.13	18.10	18.00	
		75	0	18.15	18.06	18.03	
18.0±1.0	18.0±1.0	18.0±1.0	18.0±1.0	18.0±1.0	18.0±1.0	18.0±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20050/1720.0	20175/1732.5	20300/1745.0	
20MHz	QPSK	1	0	18.01	18.04	18.03	18.0±1.0
		1	50	18.11	18.12	18.09	
		1	99	17.93	18.00	17.96	
		50	0	18.09	18.05	18.02	18.0±1.0
		50	25	18.02	18.03	18.00	
		50	50	18.09	18.07	18.07	
		100	0	18.11	18.03	17.98	
	16QAM	1	0	18.02	18.21	18.10	18.0±1.0
		1	50	18.19	18.28	18.31	
		1	99	18.20	18.41	18.46	
		50	0	18.10	18.06	18.05	18.0±1.0
		50	25	18.08	18.07	18.07	
		50	50	18.07	18.14	18.06	
		100	0	18.11	18.05	18.03	
18.0±1.0	18.0±1.0	18.0±1.0	18.0±1.0	18.0±1.0	18.0±1.0	18.0±1.0	



3. LTE Band 5 Conducted Power Test Verdict:

LTE FDD Band 5 ANT 1 Full Power				Conducted Power(dBm)			Tune up			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency						
				20407/824.7	20525/836.5	20643/848.3				
1.4MHz	QPSK	1	0	23.88	24.23	24.09	23.5±1.0			
		1	3	23.76	24.06	24.13				
		1	5	23.61	24.22	24.12				
		3	0	22.73	23.11	23.11	22.5±1.0			
		3	2	22.94	23.13	23.12				
		3	3	22.80	23.12	23.04				
	16QAM	16QAM	6	0	22.81	23.06	22.96	22.5±1.0		
			1	0	23.06	23.36	23.13	23.0±1.0		
			1	3	23.17	23.22	23.29			
			1	5	23.04	23.21	23.30			
			3	0	21.94	22.01	22.15	21.5±1.0		
			3	2	21.72	21.84	22.07			
			3	3	21.86	22.07	22.09			
			6	0	21.81	21.89	22.02	21.5±1.0		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up			
				20415/825.5	20525/836.5	20635/847.5				
3MHz	QPSK	1	0	24.07	24.09	24.11	23.5±1.0			
		1	7	23.92	23.99	23.84				
		1	14	24.20	24.19	24.12				
		16QAM	16QAM	8	0	23.12	23.16	23.21	22.5±1.0	
				8	4	23.14	23.13	23.05		
				8	7	23.21	23.18	23.09		
				15	0	23.11	23.13	23.04	22.5±1.0	
	16QAM			16QAM	1	0	23.18	23.32	23.11	23.0±1.0
					1	7	23.16	23.25	23.18	
		1	14		23.28	23.43	23.38			
		8	0		22.28	22.22	22.16	21.5±1.0		
		8	4		22.11	22.14	22.07			
		8	7		22.14	22.20	22.13			
		15	0		22.05	22.10	22.07			



LTE FDD Band 5 ANT 1 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	24.00	24.09	24.04	23.5±1.0
		1	13	24.08	24.17	24.02	
		1	24	24.15	24.08	24.13	
		12	0	23.02	23.11	23.08	22.5±1.0
		12	6	23.04	23.12	23.15	
		12	13	23.11	23.15	23.06	
	16QAM	25	0	23.09	23.10	23.02	22.5±1.0
		1	0	23.28	23.35	23.29	23.0±1.0
		1	13	23.17	23.32	23.24	
		1	24	23.34	23.45	23.41	
		12	0	21.96	22.14	22.09	21.5±1.0
		12	6	22.10	22.09	22.03	
		12	13	22.19	22.20	22.14	
		25	0	22.14	22.11	22.08	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20450/829.0	20525/836.5	20600/844.0	
10MHz	QPSK	1	0	24.14	24.06	23.93	23.5±1.0
		1	25	24.08	24.03	24.15	
		1	49	24.07	24.12	24.06	
		25	0	23.09	23.11	23.06	22.5±1.0
		25	13	23.08	23.10	23.07	
		25	25	23.15	23.12	23.14	
		50	0	23.11	23.09	23.06	22.5±1.0
	16QAM	1	0	23.29	23.22	23.18	23.0±1.0
		1	25	23.17	23.25	23.27	
		1	49	23.26	23.24	23.22	
		25	0	22.09	22.17	22.17	21.5±1.0
		25	13	22.10	22.18	22.11	
		25	25	22.16	22.16	22.12	
		50	0	22.16	22.10	22.16	21.5±1.0



LTE FDD Band 5 ANT 3 Full Power				Conducted Power(dBm)						
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up			
				20407/824.7	20525/836.5	20643/848.3				
1.4MHz	QPSK	1	0	24.44	24.49	24.47	24.0±1.0			
		1	3	24.41	24.52	24.52				
		1	5	24.47	24.51	24.55				
		3	0	23.40	23.47	23.51	23.0±1.0			
		3	2	23.40	23.50	23.53				
		3	3	23.39	23.53	23.53				
	16QAM	16QAM	6	0	23.42	23.43	23.51	23.0±1.0		
			1	0	23.50	23.68	23.64	23.0±1.0		
			1	3	23.53	23.60	23.73			
			1	5	23.58	23.72	23.66			
			3	0	22.54	22.56	22.69	22.0±1.0		
			3	2	22.48	22.57	22.51			
			3	3	22.45	22.55	22.49			
			6	0	22.43	22.51	22.56	22.0±1.0		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up			
				20415/825.5	20525/836.5	20635/847.5				
3MHz	QPSK	1	0	24.29	24.45	24.36	24.0±1.0			
		1	7	24.18	24.36	24.18				
		1	14	24.36	24.52	24.37				
		16QAM	16QAM	8	0	23.41	23.51	23.36	23.0±1.0	
				8	4	23.28	23.46	23.29		
				8	7	23.33	23.53	23.37		
				15	0	23.26	23.43	23.36	23.0±1.0	
	16QAM			16QAM	1	0	23.39	23.50	23.35	23.0±1.0
					1	7	23.41	23.56	23.38	
					1	14	23.56	23.71	23.62	
		8	0		22.43	22.50	22.34	22.0±1.0		
		8	4		22.26	22.48	22.27			
		8	7		22.43	22.57	22.39			
	15	0	22.28	22.45	22.32	22.0±1.0				



LTE FDD Band 5 ANT 3 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	24.37	24.50	24.49	24.0±1.0
		1	13	24.40	24.51	24.45	
		1	24	24.52	24.61	24.50	
		12	0	23.37	23.48	23.49	23.0±1.0
		12	6	23.38	23.46	23.43	
		12	13	23.45	23.53	23.53	
	25	0	23.45	23.46	23.43	23.0±1.0	
	16QAM	1	0	23.48	23.58	23.56	23.0±1.0
		1	13	23.61	23.52	23.68	
		1	24	23.64	23.65	23.70	
		12	0	22.45	22.40	22.58	22.0±1.0
		12	6	22.31	22.46	22.51	
		12	13	22.52	22.49	22.42	
		25	0	22.46	22.48	22.46	22.0±1.0
Bandwidth		Modulation	RB size	RB offset	Channel/Frequency		
	20450/829.0				20525/836.5	20600/844.0	
10MHz	QPSK	1	0	24.45	24.49	24.42	24.0±1.0
		1	25	24.40	24.51	24.52	
		1	49	24.40	24.51	24.46	
		25	0	23.40	23.46	23.46	23.0±1.0
		25	13	23.42	23.47	23.46	
		25	25	23.44	23.54	23.54	
		50	0	23.48	23.47	23.55	23.0±1.0
	16QAM	1	0	23.69	23.65	23.65	23.0±1.0
		1	25	23.55	23.58	23.70	
		1	49	23.59	23.72	23.60	
		25	0	22.45	22.56	22.49	22.0±1.0
		25	13	22.48	22.56	22.49	
		25	25	22.53	22.57	22.55	
		50	0	22.51	22.49	22.57	22.0±1.0



4. LTE Band 7 Conducted Power Test Verdict:

LTE FDD Band 7 ANT 2 Full Power				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up		
				20775/2502.5	21100/2535.0	21425/2567.5			
5MHz	QPSK	1	0	24.57	24.62	24.30	24.0±1.0		
		1	13	24.56	24.59	24.58			
		1	24	24.51	24.60	24.64			
		12	0	23.59	23.57	23.59	23.0±1.0		
		12	6	23.52	23.57	23.58			
		12	13	23.60	23.63	23.63			
	16QAM	16QAM	25	0	23.50	23.57	23.61	23.0±1.0	
			1	0	23.61	23.69	23.57	23.0±1.0	
			1	13	23.70	23.64	23.66		
			1	24	23.68	23.71	23.72		
			22.0±1.0	16QAM	12	0	22.64	22.64	22.54
					12	6	22.63	22.52	22.49
					12	13	22.65	22.63	22.67
					25	0	22.61	22.58	22.59
25	0	22.61			22.58	22.59			

Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up		
				20800/2505.0	21100/2535.0	21400/2565.0			
10MHz	QPSK	1	0	24.55	24.54	24.59	24.0±1.0		
		1	25	24.50	24.56	24.67			
		1	49	24.55	24.58	24.68			
		23.0±1.0	QPSK	25	0	23.53	23.60	23.64	
				25	13	23.57	23.59	23.63	
				25	25	23.61	23.63	23.59	
				50	0	23.50	23.57	23.61	
	23.0±1.0	16QAM	1	0	23.69	23.74	23.57		
			1	25	23.65	23.82	23.68		
			1	49	23.72	23.72	23.79		
			22.0±1.0	16QAM	25	0	22.57	22.57	22.65
					25	13	22.56	22.58	22.65
					25	25	22.64	22.71	22.75
					50	0	22.63	22.61	22.69
22.0±1.0	16QAM	50	0	22.63	22.61	22.69			



LTE FDD Band 7 ANT 2 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20825/2507.5	21100/2535.0	21375/2562.5	
15MHz	QPSK	1	0	24.33	24.40	24.45	24.0±1.0
		1	38	24.42	24.44	24.47	
		1	74	24.45	24.46	24.54	
		36	0	23.54	23.63	23.65	23.0±1.0
		36	18	23.47	23.64	23.73	
		36	39	23.48	23.42	23.51	
		75	0	23.46	23.39	23.55	23.0±1.0
	16QAM	1	0	23.45	23.51	23.48	23.0±1.0
		1	38	23.40	23.51	23.60	
		1	74	23.60	23.58	23.65	
		36	0	22.60	22.67	22.61	22.0±1.0
		36	18	22.51	22.43	22.66	
		36	39	22.55	22.49	22.52	
		75	0	22.51	22.42	22.55	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20850/2510.0	21100/2535.0	21350/2560.0	
20MHz	QPSK	1	0	24.28	24.43	24.47	24.0±1.0
		1	50	24.34	24.43	24.47	
		1	99	24.30	24.43	24.42	
		50	0	23.35	23.45	23.49	23.0±1.0
		50	25	23.36	23.42	23.49	
		50	50	23.42	23.47	23.52	
		100	0	23.48	23.45	23.49	23.0±1.0
	16QAM	1	0	23.37	23.53	23.64	23.0±1.0
		1	50	23.49	23.63	23.60	
		1	99	23.47	23.55	23.72	
		50	0	22.36	22.47	22.51	22.0±1.0
		50	25	22.42	22.44	22.49	
		50	50	22.48	22.49	22.52	
		100	0	22.45	22.45	22.51	22.0±1.0



LTE FDD Band 7 ANT 2 DSI 2 Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20775/2502.5	21100/2535.0	21425/2567.5	
5MHz	QPSK	1	0	19.79	19.67	19.71	19.5±1.0
		1	13	19.39	19.37	19.32	
		1	24	19.55	19.38	19.30	
		12	0	19.77	19.62	19.57	19.5±1.0
		12	6	19.61	19.71	19.87	
		12	13	19.66	19.66	19.50	
		25	0	19.78	19.69	19.63	19.5±1.0
	16QAM	1	0	19.73	19.85	19.78	19.5±1.0
		1	13	19.22	19.34	19.18	
		1	24	18.97	19.13	18.97	
		12	0	19.69	19.56	19.38	19.5±1.0
		12	6	19.33	19.52	19.58	
		12	13	19.58	19.49	19.35	
		25	0	19.58	19.68	19.79	
19.58	19.68	19.79	19.5±1.0				
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20800/2505.0	21100/2535.0	21400/2565.0	
10MHz	QPSK	1	0	19.68	19.55	19.49	19.5±1.0
		1	25	19.83	19.80	19.64	
		1	49	19.45	19.58	19.51	
		25	0	19.95	19.80	19.83	19.5±1.0
		25	13	19.86	19.82	19.91	
		25	25	19.53	19.65	19.83	
		50	0	19.72	19.71	19.64	
	16QAM	1	0	19.06	19.22	19.12	19.5±1.0
		1	25	19.79	19.88	19.74	
		1	49	19.03	19.18	19.03	
		25	0	19.73	19.79	19.82	19.5±1.0
		25	13	19.74	19.79	19.76	
		25	25	19.58	19.40	19.34	
		50	0	19.52	19.71	19.80	
19.52	19.71	19.80	19.5±1.0				



LTE FDD Band 7 ANT 2 DSI 2 Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20825/2507.5	21100/2535.0	21375/2562.5	
15MHz	QPSK	1	0	19.41	19.54	19.68	19.5±1.0
		1	38	19.25	19.58	19.69	
		1	74	19.23	19.51	19.53	
		36	0	19.81	19.80	19.06	19.5±1.0
		36	18	19.79	19.80	19.87	
		36	39	19.98	19.42	19.97	
		75	0	19.39	19.65	19.73	19.5±1.0
	16QAM	1	0	19.61	19.59	19.31	19.5±1.0
		1	38	19.80	19.79	19.32	
		1	74	19.84	19.97	19.25	
		36	0	19.80	19.80	19.87	19.5±1.0
		36	18	19.79	19.79	19.86	
		36	39	19.04	19.43	19.90	
		75	0	19.34	19.63	19.57	
19.5±1.0							
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20850/2510.0	21100/2535.0	21350/2560.0	
20MHz	QPSK	1	0	19.18	19.35	19.65	19.5±1.0
		1	50	19.09	19.70	19.72	
		1	99	19.74	19.59	19.88	
		50	0	19.41	19.78	19.75	19.5±1.0
		50	25	19.42	19.79	19.68	
		50	50	19.51	19.68	19.75	
		100	0	19.41	19.71	19.73	
	16QAM	1	0	19.67	19.61	19.89	19.5±1.0
		1	50	19.59	19.18	19.25	
		1	99	19.35	19.18	19.43	
		50	0	19.51	19.72	19.70	19.5±1.0
		50	25	19.32	19.69	19.71	
		50	50	19.43	19.61	19.69	
		100	0	19.29	19.68	19.68	
19.5±1.0							



LTE FDD Band 7 ANT 4 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20775/2502.5	21100/2535.0	21425/2567.5	
5MHz	QPSK	1	0	22.76	22.76	22.66	22.5±1.0
		1	13	22.80	22.78	22.79	
		1	24	22.82	22.91	22.94	
		12	0	21.82	21.77	21.80	21.5±1.0
		12	6	21.82	21.77	21.77	
		12	13	21.84	21.85	21.87	
	25	0	21.82	21.74	21.78	21.5±1.0	
	16QAM	1	0	21.91	21.83	21.85	21.5±1.0
		1	13	21.89	21.96	21.95	
		1	24	22.07	22.08	22.06	
		12	0	20.92	20.69	20.85	20.5±1.0
		12	6	20.82	20.79	20.82	
		12	13	20.86	20.83	20.85	
		25	0	20.85	20.78	20.79	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20800/2505.0	21100/2535.0	21400/2565.0	
10MHz	QPSK	1	0	22.77	22.73	22.75	22.5±1.0
		1	25	22.75	22.79	22.78	
		1	49	22.76	22.75	22.83	
		25	0	21.79	21.78	21.80	21.5±1.0
		25	13	21.76	21.79	21.82	
		25	25	21.86	21.84	21.88	
		50	0	21.85	21.76	21.90	
	16QAM	1	0	21.97	21.97	22.02	21.5±1.0
		1	25	21.89	22.04	22.11	
		1	49	21.85	22.00	22.11	
		25	0	20.83	20.77	20.80	20.5±1.0
		25	13	20.79	20.80	20.79	
		25	25	20.87	20.87	20.87	
		50	0	20.86	20.76	20.92	



LTE FDD Band 7 ANT 4 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20825/2507.5	21100/2535.0	21375/2562.5	
15MHz	QPSK	1	0	22.50	22.43	22.51	22.5 ±1.0
		1	38	22.53	22.56	22.57	
		1	74	22.57	22.57	22.50	
		36	0	21.69	21.79	21.83	21.5 ±1.0
		36	18	21.76	21.68	21.77	
		36	39	21.64	21.69	21.70	
		75	0	21.69	21.63	21.70	21.0 ±1.0
	16QAM	1	0	21.66	21.76	21.75	21.5 ±1.0
		1	38	21.89	21.72	21.76	
		1	74	21.78	21.82	21.72	
		36	0	20.66	20.73	20.77	20.5 ±1.0
		36	18	20.87	20.81	20.86	
		36	39	20.72	20.77	20.68	
		75	0	20.73	20.61	20.71	20.0 ±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20850/2510.0	21100/2535.0	21350/2560.0	
20MHz	QPSK	1	0	22.79	22.76	22.73	22.5 ±1.0
		1	50	22.75	22.77	22.86	
		1	99	22.81	22.80	22.77	
		50	0	21.60	21.63	21.63	21.0 ±1.0
		50	25	21.66	21.64	21.66	
		50	50	21.67	21.67	21.68	
		100	0	21.70	21.63	21.67	21.0 ±1.0
	16QAM	1	0	21.84	21.62	21.65	21.5 ±1.0
		1	50	21.77	21.79	21.81	
		1	99	21.76	21.92	21.84	
		50	0	20.64	20.67	20.63	20.0 ±1.0
		50	25	20.65	20.65	20.68	
		50	50	20.66	20.72	20.70	
		100	0	20.70	20.64	20.66	20.0 ±1.0



LTE FDD Band 7 ANT 4 DSI 1 Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20775/2502.5	21100/2535.0	21425/2567.5	
5MHz	QPSK	1	0	19.05	19.08	19.15	19.0±1.0
		1	13	19.01	19.07	19.15	
		1	24	19.10	19.17	19.25	
		12	0	19.04	19.04	19.14	19.0±1.0
		12	6	19.03	19.05	19.14	
		12	13	19.06	19.14	19.23	
		25	0	19.07	19.13	19.13	19.0±1.0
	16QAM	1	0	19.17	19.20	19.29	19.0±1.0
		1	13	19.24	19.20	19.27	
		1	24	19.17	19.23	19.41	
		12	0	19.07	19.11	19.13	19.0±1.0
		12	6	19.11	19.13	19.08	
		12	13	19.17	19.11	19.27	
		25	0	19.08	19.13	19.17	
19.08	19.13	19.17	19.17	19.17	19.0±1.0		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20800/2505.0	21100/2535.0	21400/2565.0	
10MHz	QPSK	1	0	19.02	19.04	19.16	19.0±1.0
		1	25	18.95	19.00	19.15	
		1	49	18.99	19.07	19.18	
		25	0	18.98	19.06	19.16	19.0±1.0
		25	13	19.00	19.07	19.16	
		25	25	19.04	19.14	19.23	
		50	0	19.07	19.10	19.23	
	16QAM	1	0	19.22	19.22	19.55	19.0±1.0
		1	25	19.13	19.13	19.32	
		1	49	19.13	19.14	19.21	
		25	0	18.98	19.11	19.13	19.0±1.0
		25	13	19.03	19.05	19.17	
		25	25	19.08	19.18	19.27	
		50	0	19.04	19.14	19.23	



LTE FDD Band 7 ANT 4 DSI 1 Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20825/2507.5	21100/2535.0	21375/2562.5	
15MHz	QPSK	1	0	18.68	18.78	18.91	19.0±1.0
		1	38	18.74	18.83	18.94	
		1	74	18.76	18.78	18.91	
		36	0	18.89	19.01	19.11	19.0±1.0
		36	18	18.91	19.00	19.09	
		36	39	18.86	18.96	19.05	
		75	0	18.88	18.94	18.97	19.0±1.0
	16QAM	1	0	18.87	19.03	19.12	19.0±1.0
		1	38	18.92	18.95	19.22	
		1	74	18.84	19.06	19.24	
		36	0	18.90	19.02	19.26	19.0±1.0
		36	18	18.85	18.92	19.11	
		36	39	18.90	18.98	19.08	
		75	0	18.89	18.97	18.98	
19.0±1.0							
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20850/2510.0	21100/2535.0	21350/2560.0	
20MHz	QPSK	1	0	18.71	18.92	18.93	19.0±1.0
		1	50	18.76	18.85	18.91	
		1	99	18.86	18.88	18.96	
		50	0	18.85	18.90	18.96	19.0±1.0
		50	25	18.82	18.92	18.98	
		50	50	18.91	18.98	19.02	
		100	0	18.91	18.99	18.98	
	16QAM	1	0	19.02	19.01	19.06	19.0±1.0
		1	50	18.89	19.10	19.15	
		1	99	19.32	19.30	19.10	
		50	0	18.85	18.94	18.98	19.0±1.0
		50	25	18.88	18.92	19.00	
		50	50	18.93	18.94	18.99	
		100	0	18.94	18.99	18.98	
19.0±1.0							



5. LTE Band 12 Conducted Power Test Verdict:

LTE FDD Band 12 ANT 1 Full Power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up	
				23017/699.7	23095/707.5	23173/715.3		
1.4MHz	QPSK	1	0	24.47	24.54	24.60	24.0±1.0	
		1	3	24.49	24.51	24.58		
		1	5	24.48	24.55	24.61		
		3	0	23.56	23.49	23.58	23.0±1.0	
		3	2	23.47	23.54	23.53		
		3	3	23.52	23.50	23.56		
	16QAM	16QAM	6	0	23.54	23.55	23.55	23.0±1.0
			1	0	23.54	23.75	23.76	23.5±1.0
			1	3	23.63	23.57	23.74	
			1	5	23.69	23.62	23.78	
			3	0	22.65	22.54	22.64	22.0±1.0
			3	2	22.60	22.60	22.56	
			3	3	22.63	22.61	22.59	
			6	0	22.61	22.43	22.59	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up	
				23025/700.5	23095/707.5	23165/714.5		
3MHz	QPSK	1	0	24.54	24.44	24.51	24.0±1.0	
		1	7	24.56	24.45	24.50		
		1	14	24.70	24.51	24.64		
		23.0±1.0	8	0	23.60	23.49	23.52	
			8	4	23.65	23.48	23.50	
			8	7	23.58	23.56	23.58	
			15	0	23.61	23.47	23.56	
	16QAM	16QAM	1	0	23.62	23.59	23.65	23.0±1.0
			1	7	23.69	23.57	23.75	
			1	14	23.70	23.62	23.73	
			22.0±1.0	8	0	23.55	22.58	22.54
				8	4	23.50	22.53	22.59
				8	7	23.63	22.59	22.59
				15	0	22.65	22.44	22.59



LTE FDD Band 12 ANT 1 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	24.51	24.55	24.35	24.0±1.0
		1	13	24.47	24.55	24.43	
		1	24	24.69	24.74	24.54	
		12	0	23.50	23.51	23.36	23.0±1.0
		12	6	23.49	23.49	23.27	
		12	13	23.56	23.55	23.46	
	16QAM	25	0	23.56	23.48	23.50	23.0±1.0
		1	0	23.64	23.50	23.47	23.0±1.0
		1	13	23.54	23.58	23.50	
		1	24	23.63	23.69	23.59	
		12	0	22.44	22.49	22.64	22.0±1.0
		12	6	22.52	22.50	22.57	
		12	13	22.57	22.58	22.36	
		25	0	22.56	22.50	22.42	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23060/704.0	23095/707.5	23130/711.0	
10MHz	QPSK	1	0	24.48	24.54	24.55	24.0±1.0
		1	25	24.50	24.59	24.53	
		1	49	24.57	24.56	24.56	
		25	0	23.50	23.54	23.56	23.0±1.0
		25	13	23.52	23.54	23.57	
		25	25	23.57	23.58	23.59	
		50	0	23.57	23.53	23.55	
	16QAM	1	0	23.66	23.68	23.74	23.0±1.0
		1	25	23.78	23.75	23.70	
		1	49	23.80	23.71	23.74	
		25	0	22.52	22.55	22.54	22.0±1.0
		25	13	22.56	22.54	22.57	
		25	25	22.61	22.64	22.63	
		50	0	22.56	22.55	22.51	



LTE FDD Band 12 ANT 3 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	24.36	24.39	24.30	24.0±1.0
		1	3	24.35	24.33	24.35	
		1	5	24.33	24.35	24.25	
		3	0	23.34	23.22	23.24	23.0±1.0
		3	2	23.32	23.28	23.30	
		3	3	23.23	23.25	23.18	
	6	0	23.22	23.26	23.24	23.0±1.0	
	16QAM	1	0	22.29	22.48	22.35	23.0±1.0
		1	3	22.35	22.34	22.38	
		1	5	22.32	22.46	22.37	
		3	0	22.32	22.34	22.26	22.0±1.0
		3	2	22.24	22.29	22.26	
		3	3	22.30	22.30	22.26	
	6	0	22.27	22.19	22.21	22.0±1.0	
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	24.18	24.32	24.26	24.0±1.0
		1	7	24.02	24.28	24.17	
		1	14	24.23	24.30	24.22	
		8	0	22.98	23.19	22.99	22.5±1.0
		8	4	22.96	23.17	22.90	
		8	7	23.04	23.27	23.11	
	15	0	23.05	23.19	23.02	22.5±1.0	
	16QAM	1	0	23.03	23.28	23.03	23.0±1.0
		1	7	23.12	23.39	23.18	
		1	14	23.24	23.42	23.22	
		8	0	22.06	22.28	22.02	22.0±1.0
		8	4	22.01	22.24	22.06	
		8	7	22.03	22.31	22.11	
	15	0	22.01	22.20	22.04	21.5±1.0	



LTE FDD Band 12 ANT 3 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	24.21	24.30	24.16	24.0±1.0
		1	13	24.23	24.31	24.27	
		1	24	24.12	24.34	24.03	
		12	0	22.96	23.17	22.96	22.5±1.0
		12	6	22.97	23.17	22.98	
		12	13	23.06	23.21	23.12	
	16QAM	25	0	22.94	23.16	23.08	22.5±1.0
		1	0	23.11	23.35	23.17	23.0±1.0
		1	13	23.06	23.12	23.01	
		1	24	23.28	23.46	23.22	
		12	0	22.01	22.19	21.97	22.0±1.0
		12	6	22.14	22.32	22.12	
		12	13	22.13	22.24	22.01	
		25	0	22.07	22.22	22.05	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23060/704.0	23095/707.5	23130/711.0	
10MHz	QPSK	1	0	24.27	24.28	24.26	24.0±1.0
		1	25	24.37	24.33	24.35	
		1	49	24.28	24.35	24.30	
		25	0	23.21	23.25	23.24	23.0±1.0
		25	13	23.20	23.23	23.24	
		25	25	23.29	23.27	23.27	
		50	0	23.30	23.23	23.22	
	16QAM	1	0	23.27	23.31	23.27	23.0±1.0
		1	25	23.35	23.45	23.42	
		1	49	23.40	23.43	23.44	
		25	0	22.24	22.26	22.27	22.0±1.0
		25	13	22.23	22.25	22.26	
		25	25	22.28	22.32	22.30	
		50	0	22.27	22.23	22.22	



6. LTE Band 17 Conducted Power Test Verdict:

LTE FDD Band 17 ANT 1 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23755/706.5	23790/710.0	23825/713.5	
5MHz	QPSK	1	0	24.91	24.92	24.98	23.5±1.0
		1	13	24.82	24.95	24.99	
		1	24	24.96	25.10	25.08	
		12	0	23.86	23.89	23.98	23.5±1.0
		12	6	23.86	23.94	23.96	
		12	13	23.94	24.00	24.02	
	16QAM	25	0	23.95	23.92	23.94	23.5±1.0
		1	0	23.99	24.09	24.09	23.5±1.0
		1	13	24.03	24.18	24.17	
		1	24	24.14	24.24	24.22	
		12	0	22.94	22.92	22.99	22.5±1.0
		12	6	22.89	22.92	22.99	
		12	13	23.02	23.02	23.09	
		25	0	22.96	22.92	22.96	22.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23780/709.0	23790/710.0	23800/711.0	
10MHz	QPSK	1	0	24.94	24.99	24.96	24.5±1.0
		1	25	24.87	24.90	24.87	
		1	49	24.94	25.01	24.96	
		25	0	23.91	23.95	23.95	23.5±1.0
		25	13	23.91	23.92	23.94	
		25	25	24.00	24.02	24.00	
	16QAM	50	0	24.01	23.94	23.96	23.5±1.0
		1	0	24.10	24.19	24.20	23.5±1.0
		1	25	24.08	24.09	24.09	
		1	49	24.09	24.16	24.19	
		25	0	22.89	22.96	23.01	22.5±1.0
		25	13	22.95	22.98	23.00	
		25	25	22.96	23.05	23.10	
		50	0	23.01	22.96	22.94	22.5±1.0



LTE FDD Band 17 ANT 3 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23755/706.5	23790/710.0	23825/713.5	
5MHz	QPSK	1	0	24.31	24.32	24.27	24.0±1.0
		1	13	24.21	24.34	24.34	
		1	24	24.38	24.42	24.37	
		12	0	23.17	23.17	23.20	23.0±1.0
		12	6	23.26	23.19	23.17	
		12	13	23.18	23.22	23.23	
	25	0	23.23	23.16	23.19	22.5±1.0	
	16QAM	1	0	23.36	23.35	23.32	23.0±1.0
		1	13	23.34	23.32	23.36	
		1	24	23.42	23.51	23.43	
		12	0	22.10	22.27	22.24	22.0±1.0
		12	6	22.21	22.17	22.17	
		12	13	22.21	22.20	22.27	
		25	0	22.22	22.17	22.16	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23780/709.0	23790/710.0	23800/711.0	
10MHz	QPSK	1	0	24.34	24.26	24.28	24.0±1.0
		1	25	24.27	24.29	24.30	
		1	49	24.29	24.30	24.33	
		25	0	23.23	23.21	23.21	23.0±1.0
		25	13	23.17	23.18	23.19	
		25	25	23.24	23.25	23.26	
		50	0	23.27	23.16	23.18	23.0±1.0
	16QAM	1	0	23.41	23.37	23.43	23.0±1.0
		1	25	23.32	23.33	23.19	
		1	49	23.43	23.31	23.39	
		25	0	22.21	22.18	22.23	22.0±1.0
		25	13	22.21	22.20	22.22	
		25	25	22.25	22.29	22.29	
		50	0	22.25	22.18	22.18	21.5±1.0



7. LTE Band 41 Conducted Power Test Verdict:

LTE FDD Band 41 ANT 1 Full Power				Conducted Power(dBm)			Tune up
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			
				39675/2498.5	40620/2593.0	41565/2687.5	
5MHz	QPSK	1	0	21.47	21.66	21.29	21.0±1.0
		1	13	21.38	21.56	21.33	
		1	24	21.59	21.76	21.43	
		12	0	20.42	20.59	20.33	20.0±1.0
		12	6	20.46	20.50	20.31	
		12	13	20.48	20.69	20.38	
		25	0	20.41	20.55	20.31	20.0±1.0
	16QAM	1	0	20.64	20.64	20.38	20.0±1.0
		1	13	20.49	20.60	20.50	
		1	24	20.65	20.70	20.47	
		12	0	19.52	19.67	19.63	19.0±1.0
		12	6	19.56	19.64	19.67	
		12	13	19.57	19.59	19.65	
		25	0	19.48	19.61	19.58	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
10MHz	QPSK	1	0	21.35	21.54	21.39	21.0±1.0
		1	25	21.33	21.50	21.46	
		1	49	21.40	21.61	21.49	
		25	0	20.30	20.30	20.34	20.0±1.0
		25	13	20.28	20.28	20.34	
		25	25	20.22	20.36	20.32	
		50	0	20.14	20.24	20.22	19.5±1.0
	16QAM	1	0	20.26	20.42	20.32	20.0±1.0
		1	25	20.37	20.29	20.51	
		1	49	20.24	20.30	20.48	
		25	0	19.21	19.32	19.62	19.0±1.0
		25	13	19.24	19.32	19.59	
		25	25	19.33	19.44	19.50	
		50	0	19.12	19.25	19.36	19.0±1.0



LTE FDD Band 41 ANT 1 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39725/2503.5	40620/2593.0	41515/2682.5	
15MHz	QPSK	1	0	21.41	21.59	21.35	21.0±1.0
		1	38	21.34	21.53	21.51	
		1	74	21.37	21.56	21.49	
		36	0	20.37	20.57	20.33	20.0±1.0
		36	18	20.38	20.55	20.42	
		36	39	20.45	20.61	20.30	
		75	0	20.33	20.43	20.26	20.0±1.0
	16QAM	1	0	20.56	20.67	20.32	20.0±1.0
		1	38	20.39	20.58	20.43	
		1	74	20.38	20.57	20.41	
		36	0	19.35	19.49	19.37	19.0±1.0
		36	18	19.39	19.57	19.34	
		36	39	19.51	19.68	19.29	
		75	0	19.42	19.48	19.26	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39750/2506.0	40620/2593.0	41490/2680.0	
20MHz	QPSK	1	0	21.30	21.48	21.35	21.0±1.0
		1	50	21.28	21.58	21.44	
		1	99	21.35	21.42	21.33	
		50	0	20.28	20.47	20.28	20.0±1.0
		50	25	20.26	20.43	20.32	
		50	50	20.34	20.52	20.23	
		100	0	20.26	20.44	20.23	20.0±1.0
	16QAM	1	0	20.43	20.62	20.32	20.0±1.0
		1	50	20.38	20.57	20.49	
		1	99	20.29	20.60	20.42	
		50	0	19.50	19.68	19.47	19.0±1.0
		50	25	19.61	19.69	19.46	
		50	50	19.42	19.56	19.68	
		100	0	19.42	19.56	19.45	19.0±1.0



LTE FDD Band 41 ANT 2 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39675/2498.5	40620/2593.0	41565/2687.5	
5MHz	QPSK	1	0	24.17	24.02	24.07	23.5±1.0
		1	13	24.10	24.09	23.85	
		1	24	24.19	24.11	24.03	
		12	0	23.19	23.07	23.10	22.5±1.0
		12	6	23.20	23.09	23.11	
		12	13	23.12	23.14	23.17	
		25	0	23.22	23.08	23.03	22.5±1.0
	16QAM	1	0	23.61	23.38	23.40	23.0±1.0
		1	13	23.47	23.44	23.32	
		1	24	23.66	23.67	23.45	
		12	0	22.48	22.39	22.20	22.0±1.0
		12	6	22.37	22.48	22.39	
		12	13	22.54	22.30	22.23	
		25	0	22.41	22.29	22.22	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39700/2501.0	40620/2593.0	41540/2685.0	
10MHz	QPSK	1	0	24.16	24.15	24.14	23.5±1.0
		1	25	24.13	24.09	24.13	
		1	49	24.19	24.10	24.09	
		25	0	23.27	23.13	23.10	23.0±1.0
		25	13	23.24	23.20	23.15	
		25	25	23.32	23.16	23.17	
		50	0	23.34	23.19	23.09	23.0±1.0
	16QAM	1	0	23.38	23.38	23.31	23.0±1.0
		1	25	23.33	23.34	23.19	
		1	49	23.30	23.38	23.24	
		25	0	22.27	22.11	22.14	22.0±1.0
		25	13	22.20	22.15	22.10	
		25	25	22.31	22.20	22.21	
		50	0	22.22	22.18	22.14	21.5±1.0



LTE FDD Band 41 ANT 2 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39725/2503.5	40620/2593.0	41515/2682.5	
15MHz	QPSK	1	0	23.96	23.98	24.05	23.5±1.0
		1	38	24.11	23.89	23.89	
		1	74	24.04	23.86	24.01	
		36	0	23.25	23.09	23.16	23.0±1.0
		36	18	23.30	23.23	23.09	
		36	39	23.16	23.13	23.15	
		75	0	23.11	23.04	23.02	22.5±1.0
	16QAM	1	0	23.21	23.16	23.10	23.0±1.0
		1	38	23.36	23.09	23.11	
		1	74	23.25	23.27	23.17	
		36	0	22.30	22.06	22.01	22.0±1.0
		36	18	22.22	22.17	22.19	
		36	39	22.20	22.01	22.13	
		75	0	22.15	21.96	21.93	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39750/2506.0	40620/2593.0	41490/2680.0	
20MHz	QPSK	1	0	23.98	23.99	24.05	23.5±1.0
		1	50	24.05	24.07	24.01	
		1	99	24.02	24.03	23.92	
		50	0	23.12	23.01	22.90	22.5±1.0
		50	25	23.10	23.05	22.96	
		50	50	23.08	23.03	23.04	
		100	0	23.09	22.97	22.93	22.5±1.0
	16QAM	1	0	23.17	23.18	23.16	23.0±1.0
		1	50	23.28	23.32	23.02	
		1	99	23.30	23.16	23.27	
		50	0	22.12	21.97	21.94	21.5±1.0
		50	25	22.10	21.98	22.05	
		50	50	22.12	22.03	22.11	
		100	0	22.05	21.95	21.94	21.5±1.0



LTE FDD Band 41 ANT 4 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39675/2498.5	40620/2593.0	41565/2687.5	
5MHz	QPSK	1	0	23.29	23.42	23.31	23.0±1.0
		1	13	23.25	23.36	23.35	
		1	24	23.29	23.56	23.31	
		12	0	22.32	22.42	22.40	22.0±1.0
		12	6	22.34	22.40	22.41	
		12	13	22.29	22.49	22.35	
	25	0	22.29	22.44	22.30	22.0±1.0	
	16QAM	1	0	22.38	22.57	22.52	22.0±1.0
		1	13	22.37	22.54	22.51	
		1	24	22.47	22.64	22.56	
		12	0	21.39	21.49	21.63	22.0±1.0
		12	6	21.33	21.55	21.52	
		12	13	21.43	21.61	21.49	
		25	0	21.34	21.54	21.46	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39700/2501.0	40620/2593.0	41540/2685.0	
10MHz	QPSK	1	0	23.23	23.39	23.37	23.0±1.0
		1	25	23.25	23.30	23.45	
		1	49	23.24	23.36	23.19	
		25	0	22.28	22.45	22.30	22.0±1.0
		25	13	22.39	22.45	22.31	
		25	25	22.33	22.51	22.35	
		50	0	22.37	22.42	22.28	22.0±1.0
	16QAM	1	0	22.32	22.53	22.39	22.0±1.0
		1	25	22.38	22.50	22.44	
		1	49	22.42	22.66	22.35	
		25	0	21.27	21.50	21.46	22.0±1.0
		25	13	21.28	21.49	21.48	
		25	25	21.39	21.55	21.52	
		50	0	21.32	21.48	21.37	21.0±1.0



LTE FDD Band 41 ANT 4 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39725/2503.5	40620/2593.0	41515/2682.5	
15MHz	QPSK	1	0	23.19	23.21	23.25	23.0±1.0
		1	38	23.31	23.25	23.13	
		1	74	23.15	23.13	23.21	
		36	0	22.29	22.47	22.43	22.0±1.0
		36	18	22.31	22.48	22.38	
		36	39	22.27	22.55	22.52	
		75	0	22.25	22.44	22.33	22.0±1.0
	16QAM	1	0	22.55	22.45	22.50	22.0±1.0
		1	38	22.46	22.48	22.33	
		1	74	22.43	22.68	22.42	
		36	0	21.40	21.45	21.40	22.0±1.0
		36	18	21.53	21.44	21.37	
		36	39	21.46	21.55	21.56	
		75	0	21.35	21.34	21.39	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39750/2506.0	40620/2593.0	41490/2680.0	
20MHz	QPSK	1	0	23.26	23.66	23.47	23.0±1.0
		1	50	23.41	23.35	23.61	
		1	99	23.33	23.43	23.35	
		50	0	22.34	22.33	22.31	22.0±1.0
		50	25	22.28	22.35	22.28	
		50	50	22.24	22.41	22.43	
		100	0	22.27	22.32	22.29	22.0±1.0
	16QAM	1	0	22.39	22.47	22.39	22.0±1.0
		1	50	22.41	22.40	22.27	
		1	99	22.47	22.55	22.18	
		50	0	21.30	21.29	21.44	22.0±1.0
		50	25	21.28	21.28	21.46	
		50	50	21.36	21.37	21.54	
		100	0	21.27	21.31	21.33	21.0±1.0



8.5 NR Conducted Power

1. 5G NR 5 15KHz 20MHz Conducted Power Test Verdict:

N5 ANT 1 Full Power			Conducted Power(dBm)				
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	166800	167300	167800	Tune up
				834.0MHz	836.5MHz	839.0MHz	
20MHz	DFT-s-OFDM PI/2 BPSK	1	1	23.40	23.32	23.45	23.0±1.0
		1	53	23.43	23.55	23.39	
		1	104	23.23	23.27	23.33	
		50	0	22.91	23.33	23.15	23.0±1.0
		50	28	23.32	23.26	23.17	
		50	56	23.11	23.20	23.09	
	100	0	23.19	23.08	22.95	22.5±1.0	
	DFT-s-OFDM QPSK	1	1	23.21	23.34	23.58	23.0±1.0
		1	53	23.69	23.70	23.56	
		1	104	23.43	23.36	23.61	
		50	0	23.19	23.35	23.26	23.0±1.0
		50	28	23.27	23.31	23.20	
		50	56	23.11	23.05	23.16	
	100	0	22.89	22.82	22.79	22.5±1.0	
	DFT-s-OFDM 16QAM	1	1	22.54	22.56	22.59	22.0±1.0
	DFT-s-OFDM 64QAM	1	1	20.76	20.90	20.92	20.5±1.0
	DFT-s-OFDM 256QAM	1	1	19.11	19.03	19.02	18.5±1.0
	CP-OFDM QPSK	1	1	21.91	21.90	22.04	21.5±1.0
CP-OFDM 16QAM	1	1	21.52	21.38	21.54	21.0±1.0	
CP-OFDM 64QAM	1	1	20.79	20.74	20.75	19.5±1.0	
CP-OFDM 256QAM	1	1	17.82	17.86	17.83	17.5±1.0	
Bandwidth	Modulation	RB size	RB offset	166300	167300	168300	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	831.5MHz	836.5MHz	841.5MHz	23.0±1.0
				23.37	23.37	23.24	
Bandwidth	Modulation	RB size	RB offset	165800	167300	168800	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	829.0MHz	836.5MHz	844.0MHz	23.0±1.0
				23.37	23.45	23.26	



Bandwidth	Modulation	RB size	RB offset	165300	167300	169300	Tune up
				826.5MHz	836.5MHz	846.5MHz	
5MHz	DFT-s-OFDM QPSK	1	1	23.26	23.36	23.34	23.0±1.0



N5 ANT 3 Full Power			Conducted Power(dBm)				
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	166800	167300	167800	Tune up
				834.0MHz	836.5MHz	839.0MHz	
20MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.43	22.53	22.65	22.0±1.0
		1	53	22.39	22.50	22.33	
		1	104	22.39	22.48	22.54	
		50	0	22.49	22.21	22.19	22.0±1.0
		50	28	22.63	22.65	22.50	
		50	56	22.23	22.43	22.28	
	100	0	22.61	22.61	22.48	22.0±1.0	
	DFT-s-OFDM QPSK	1	1	22.68	22.56	22.38	22.5±1.0
		1	53	22.74	22.82	22.65	
		1	104	22.59	22.50	22.51	
		50	0	22.34	22.13	22.45	22.0±1.0
		50	28	22.46	22.53	22.50	
		50	56	22.48	22.50	22.62	
	100	0	22.53	22.33	22.41	22.0±1.0	
	DFT-s-OFDM 16QAM	1	1	22.25	22.25	22.17	21.5±1.0
	DFT-s-OFDM 64QAM	1	1	20.88	20.71	20.53	20.5±1.0
	DFT-s-OFDM 256QAM	1	1	19.16	19.03	18.98	18.5±1.0
	CP-OFDM QPSK	1	1	21.47	21.66	21.44	21.0±1.0
CP-OFDM 16QAM	1	1	21.28	21.10	21.03	21.0±1.0	
CP-OFDM 64QAM	1	1	20.27	20.44	20.45	20.0±1.0	
CP-OFDM 256QAM	1	1	17.63	17.43	17.27	17.0±1.0	
Bandwidth	Modulation	RB size	RB offset	166300	167300	168300	Tune up
				831.5MHz	836.5MHz	841.5MHz	
15MHz	DFT-s-OFDM QPSK	1	1	22.72	22.84	22.87	22.5±1.0
Bandwidth	Modulation	RB size	RB offset	165800	167300	168800	Tune up
				829.0MHz	836.5MHz	844.0MHz	
10MHz	DFT-s-OFDM QPSK	1	1	22.57	22.65	22.78	22.5±1.0
Bandwidth	Modulation	RB size	RB offset	165300	167300	169300	Tune up
				826.5MHz	836.5MHz	846.5MHz	
5MHz	DFT-s-OFDM QPSK	1	1	22.85	22.91	22.63	22.5±1.0



2. 5G NR 41 30KHz 100MHz Conducted Power Test Verdict:

N41 ANT 1 Full Power		Conducted Power(dBm)					
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	509202	518598	528000	Tune up
				2546.01 MHz	2592.99 MHz	2640.00 MHz	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	24.52	24.45	24.42	24.0±1.0
		1	137	24.33	24.40	24.41	
		1	271	24.31	24.14	24.28	
		135	0	24.09	24.19	24.20	24.0±1.0
		135	67	24.40	24.23	24.46	
		135	138	24.09	24.26	24.11	
	DFT-s-OFDM QPSK	270	0	23.45	23.21	23.13	23.0±1.0
		1	1	24.63	24.56	24.50	24.0±1.0
		1	137	24.58	24.70	24.61	
		1	271	24.57	24.36	24.27	
		135	0	24.28	24.33	24.20	24.0±1.0
		135	67	24.58	24.57	24.56	
	135	138	24.21	24.30	24.17		
	270	0	23.50	23.26	23.31	23.0±1.0	
	DFT-s-OFDM 16QAM	1	1	22.93	22.92	22.90	22.5±1.0
	DFT-s-OFDM 64QAM	1	1	21.45	21.23	21.17	21.5±1.0
	DFT-s-OFDM 256QAM	1	1	19.67	19.49	19.55	19.0±1.0
	CP-OFDM QPSK	1	1	22.22	22.35	22.52	22.0±1.0
CP-OFDM 16QAM	1	1	21.40	21.63	21.49	21.0±1.0	
CP-OFDM 64QAM	1	1	20.40	20.31	20.47	20.0±1.0	
CP-OFDM 256QAM	1	1	17.21	17.14	17.33	17.0±1.0	
Bandwidth	Modulation	RB size	RB offset	508200	518598	528996	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	2541.00 MHz	2592.99 MHz	2644.98 MHz	24.0±1.0
				24.62	24.60	24.48	
Bandwidth	Modulation	RB size	RB offset	507204	518598	529998	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	2536.02 MHz	2592.99 MHz	2649.99 MHz	24.0±1.0
				24.29	24.35	24.32	



Bandwidth	Modulation	RB size	RB offset	506202	518598	531000	Tune up
				2531.01 MHz	2592.99 MHz	2655.00 MHz	
70MHz	DFT-s-OFDM QPSK	1	1	24.49	24.52	24.33	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	505200	518598	531996	Tune up
				2526.00 MHz	2592.99 MHz	2659.98 MHz	
60MHz	DFT-s-OFDM QPSK	1	1	24.55	24.35	24.27	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	504204	518598	532998	Tune up
				2521.02 MHz	2592.99 MHz	2664.99 MHz	
50MHz	DFT-s-OFDM QPSK	1	1	24.57	24.42	24.63	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	503202	518598	534000	Tune up
				2516.01 MHz	2592.99 MHz	2670.00 MHz	
40MHz	DFT-s-OFDM QPSK	1	1	24.25	24.48	24.32	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	502200	518598	534996	Tune up
				2511.00 MHz	2592.99 MHz	2674.98 MHz	
30MHz	DFT-s-OFDM QPSK	1	1	24.46	24.50	24.31	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	501204	518598	535998	Tune up
				2506.02 MHz	2592.99 MHz	2679.99 MHz	
20MHz	DFT-s-OFDM QPSK	1	1	24.44	24.63	24.51	24.0±1.0



N41 ANT 2 Full Power			Conducted Power(dBm)				
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	509202	518598	528000	Tune up
				2546.01 MHz	2592.99 MHz	2640.00 MHz	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	23.41	23.42	23.36	23.0±1.0
		1	137	23.50	23.54	23.65	
		1	271	23.67	23.44	23.38	
		135	0	23.23	23.39	23.19	23.0±1.0
		135	67	23.60	23.43	23.66	
		135	138	23.25	23.10	23.41	
		270	0	22.65	22.41	22.33	22.0±1.0
	DFT-s-OFDM QPSK	1	1	23.81	23.62	23.76	23.5±1.0
		1	137	23.72	23.53	23.80	
		1	271	23.41	23.35	23.55	
		135	0	23.31	23.10	23.17	23.0±1.0
		135	67	23.28	23.04	23.29	
		135	138	23.03	23.24	23.28	
		270	0	22.70	22.46	22.51	22.0±1.0
	DFT-s-OFDM 16QAM	1	1	22.34	22.29	22.15	22.0±1.0
	DFT-s-OFDM 64QAM	1	1	20.35	20.43	20.44	20.0±1.0
	DFT-s-OFDM 256QAM	1	1	18.87	18.94	18.78	18.5±1.0
	CP-OFDM QPSK	1	1	21.15	21.29	21.35	21.0±1.0
	CP-OFDM 16QAM	1	1	21.51	21.51	21.26	21.0±1.0
	CP-OFDM 64QAM	1	1	19.14	19.12	19.04	18.5±1.0
CP-OFDM 256QAM	1	1	16.42	16.56	16.56	16.0±1.0	
Bandwidth	Modulation	RB size	RB offset	508200	518598	528996	Tune up
				2541.00 MHz	2592.99 MHz	2644.98 MHz	
90MHz	DFT-s-OFDM QPSK	1	1	23.65	23.85	23.77	23.5±1.0
Bandwidth	Modulation	RB size	RB offset	507204	518598	529998	Tune up
				2536.02 MHz	2592.99 MHz	2649.99 MHz	
80MHz	DFT-s-OFDM QPSK	1	1	23.59	23.73	23.66	23.0±1.0



Bandwidth	Modulation	RB size	RB offset	506202	518598	531000	Tune up
				2531.01 MHz	2592.99 MHz	2655.00 MHz	
70MHz	DFT-s-OFDM QPSK	1	1	23.72	23.87	23.91	23.5±1.0
Bandwidth	Modulation	RB size	RB offset	505200	518598	531996	Tune up
				2526.00 MHz	2592.99 MHz	2659.98 MHz	
60MHz	DFT-s-OFDM QPSK	1	1	23.94	23.65	23.82	23.5±1.0
Bandwidth	Modulation	RB size	RB offset	504204	518598	532998	Tune up
				2521.02 MHz	2592.99 MHz	2664.99 MHz	
50MHz	DFT-s-OFDM QPSK	1	1	23.61	23.65	23.72	23.0±1.0
Bandwidth	Modulation	RB size	RB offset	503202	518598	534000	Tune up
				2516.01 MHz	2592.99 MHz	2670.00 MHz	
40MHz	DFT-s-OFDM QPSK	1	1	23.77	23.62	23.92	23.5±1.0
Bandwidth	Modulation	RB size	RB offset	502200	518598	534996	Tune up
				2511.00 MHz	2592.99 MHz	2674.98 MHz	
30MHz	DFT-s-OFDM QPSK	1	1	23.81	23.73	23.90	23.5±1.0
Bandwidth	Modulation	RB size	RB offset	501204	518598	535998	Tune up
				2506.02 MHz	2592.99 MHz	2679.99 MHz	
20MHz	DFT-s-OFDM QPSK	1	1	23.90	23.82	23.71	23.5±1.0



N41 ANT 4 Full Power			Conducted Power(dBm)				
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	509202	518598	528000	Tune up
				2546.01 MHz	2592.99 MHz	2640.00 MHz	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	24.31	24.42	24.34	24.0±1.0
		1	137	24.30	24.18	24.20	
		1	271	24.05	24.22	24.11	
		135	0	23.93	24.15	24.19	24.0±1.0
		135	67	24.28	24.31	24.17	
		135	138	24.16	24.22	24.10	
	270	0	23.04	23.14	23.21	22.5±1.0	
	DFT-s-OFDM QPSK	1	1	24.52	24.45	24.69	24.0±1.0
		1	137	24.30	24.47	24.66	
		1	271	24.42	24.52	24.36	
		135	0	24.20	24.17	24.21	24.0±1.0
		135	67	24.12	24.20	24.15	
		135	138	24.29	24.32	24.07	
	270	0	23.41	23.45	23.37	23.0±1.0	
	DFT-s-OFDM 16QAM	1	1	23.28	23.33	23.41	23.0±1.0
	DFT-s-OFDM 64QAM	1	1	21.27	21.06	21.34	21.0±1.0
	DFT-s-OFDM 256QAM	1	1	19.58	19.53	19.54	19.0±1.0
	CP-OFDM QPSK	1	1	22.33	22.25	22.45	22.0±1.0
CP-OFDM 16QAM	1	1	21.96	21.92	21.71	21.5±1.0	
CP-OFDM 64QAM	1	1	20.32	20.12	20.06	20.0±1.0	
CP-OFDM 256QAM	1	1	17.13	17.26	17.26	17.0±1.0	
Bandwidth	Modulation	RB size	RB offset	508200	518598	528996	Tune up
				2541.00 MHz	2592.99 MHz	2644.98 MHz	
90MHz	DFT-s-OFDM QPSK	1	1	24.43	24.27	24.61	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	507204	518598	529998	Tune up
				2536.02 MHz	2592.99 MHz	2649.99 MHz	
80MHz	DFT-s-OFDM QPSK	1	1	24.53	24.37	24.46	24.0±1.0



Bandwidth	Modulation	RB size	RB offset	506202	518598	531000	Tune up
				2531.01 MHz	2592.99 MHz	2655.00 MHz	
70MHz	DFT-s-OFDM QPSK	1	1	24.39	24.49	24.45	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	505200	518598	531996	Tune up
				2526.00 MHz	2592.99 MHz	2659.98 MHz	
60MHz	DFT-s-OFDM QPSK	1	1	24.20	24.48	24.31	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	504204	518598	532998	Tune up
				2521.02 MHz	2592.99 MHz	2664.99 MHz	
50MHz	DFT-s-OFDM QPSK	1	1	24.29	24.10	24.36	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	503202	518598	534000	Tune up
				2516.01 MHz	2592.99 MHz	2670.00 MHz	
40MHz	DFT-s-OFDM QPSK	1	1	24.37	24.27	24.49	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	502200	518598	534996	Tune up
				2511.00 MHz	2592.99 MHz	2674.98 MHz	
30MHz	DFT-s-OFDM QPSK	1	1	24.67	24.39	24.47	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	501204	518598	535998	Tune up
				2506.02 MHz	2592.99 MHz	2679.99 MHz	
20MHz	DFT-s-OFDM QPSK	1	1	24.50	24.41	24.32	24.0±1.0



N41 ANT 8 Full Power			Conducted Power(dBm)				
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	509202	518598	528000	Tune up
				2546.01 MHz	2592.99 MHz	2640.00 MHz	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	25.29	25.10	25.26	25.0±1.0
		1	137	25.14	25.32	25.29	
		1	271	25.30	25.21	25.27	
		135	0	25.14	25.10	25.05	24.5±1.0
		135	67	25.16	25.22	25.10	
		135	138	25.19	25.11	25.15	
		270	0	24.36	24.44	24.37	24.0±1.0
	DFT-s-OFDM QPSK	1	1	25.45	25.20	25.34	25.0±1.0
		1	137	25.40	25.32	25.46	
		1	271	25.35	25.42	25.29	
		135	0	25.15	25.29	25.04	25.0±1.0
		135	67	25.06	25.24	25.17	
		135	138	25.10	25.20	25.04	
		270	0	24.57	24.58	24.62	24.0±1.0
	DFT-s-OFDM 16QAM	1	1	23.29	23.35	23.34	23.0±1.0
	DFT-s-OFDM 64QAM	1	1	22.17	22.10	22.22	21.5±1.0
	DFT-s-OFDM 256QAM	1	1	20.03	20.19	20.11	19.5±1.0
	CP-OFDM QPSK	1	1	22.95	23.09	23.05	22.5±1.0
CP-OFDM 16QAM	1	1	22.26	22.34	22.39	22.0±1.0	
CP-OFDM 64QAM	1	1	21.46	21.30	21.35	21.0±1.0	
CP-OFDM 256QAM	1	1	18.15	18.21	18.19	17.5±1.0	
Bandwidth	Modulation	RB size	RB offset	508200	518598	528996	Tune up
				2541.00 MHz	2592.99 MHz	2644.98 MHz	
90MHz	DFT-s-OFDM QPSK	1	1	25.44	25.26	25.32	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	507204	518598	529998	Tune up
				2536.02 MHz	2592.99 MHz	2649.99 MHz	
80MHz	DFT-s-OFDM QPSK	1	1	25.23	25.48	25.	25.0±1.0



Bandwidth	Modulation	RB size	RB offset	506202	518598	531000	Tune up
				2531.01 MHz	2592.99 MHz	2655.00 MHz	
70MHz	DFT-s-OFDM QPSK	1	1	25.28	25.42	25.35	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	505200	518598	531996	Tune up
				2526.00 MHz	2592.99 MHz	2659.98 MHz	
60MHz	DFT-s-OFDM QPSK	1	1	25.49	25.35	25.42	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	504204	518598	532998	Tune up
				2521.02 MHz	2592.99 MHz	2664.99 MHz	
50MHz	DFT-s-OFDM QPSK	1	1	25.37	25.32	25.26	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	503202	518598	534000	Tune up
				2516.01 MHz	2592.99 MHz	2670.00 MHz	
40MHz	DFT-s-OFDM QPSK	1	1	25.39	25.12	25.29	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	502200	518598	534996	Tune up
				2511.00 MHz	2592.99 MHz	2674.98 MHz	
30MHz	DFT-s-OFDM QPSK	1	1	25.11	25.32	25.20	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	501204	518598	535998	Tune up
				2506.02 MHz	2592.99 MHz	2679.99 MHz	
20MHz	DFT-s-OFDM QPSK	1	1	25.48	25.32	25.29	25.0±1.0



3. 5G NR 77 30KHz 100MHz(3450 MHz-3550MHz)Conducted Power Test Verdict:

N77 ANT 1 Full Power			Conducted Power(dBm)				
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	/	633334	/	Tune up
				/	3500.01 MHz	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.85	/	22.5±1.0
		1	137	/	23.02	/	
		1	271	/	22.93	/	
		135	0	/	23.07	/	22.5±1.0
		135	67	/	22.99	/	
		135	138	/	23.10	/	
	DFT-s-OFDM QPSK	270	0	/	22.09	/	21.5±1.0
		1	1	/	23.13	/	22.5±1.0
		1	137	/	23.16	/	
		1	271	/	23.04	/	
		135	0	/	22.97	/	22.5±1.0
		135	67	/	22.92	/	
	135	138	/	23.05	/		
	270	0	/	22.14	/	21.5±1.0	
	DFT-s-OFDM 16QAM	1	1	/	21.32	/	21.0±1.0
	DFT-s-OFDM 64QAM	1	1	/	20.11	/	19.5±1.0
	DFT-s-OFDM 256QAM	1	1	/	17.60	/	17.0±1.0
	CP-OFDM QPSK	1	1	/	20.86	/	20.5±1.0
CP-OFDM 16QAM	1	1	/	20.34	/	20.0±1.0	
CP-OFDM 64QAM	1	1	/	18.93	/	18.5±1.0	
CP-OFDM 256QAM	1	1	/	15.87	/	15.5±1.0	
Bandwidth	Modulation	RB size	RB offset	633000	633334	633666	Tune up
				3495.00 MHz	3500.01 MHz	3504.99 MHz	
90MHz	DFT-s-OFDM QPSK	1	1	23.04	22.89	23.12	22.5±1.0
Bandwidth	Modulation	RB size	RB offset	632668	633334	634000	Tune up
				3490.02 MHz	3500.01 MHz	3510.00 MHz	
80MHz	DFT-s-OFDM QPSK	1	1	23.06	23.13	23.07	22.5±1.0



Bandwidth	Modulation	RB size	RB offset	632334	633334	634332	Tune up
				3485.01 MHz	3500.01 MHz	3514.98 MHz	
70MHz	DFT-s-OFDM QPSK	1	1	23.11	22.92	23.05	22.5±1.0
Bandwidth	Modulation	RB size	RB offset	632000	633334	634666	Tune up
				3480.00 MHz	3500.01 MHz	3519.99 MHz	
60MHz	DFT-s-OFDM QPSK	1	1	22.90	23.09	23.01	22.5±1.0
Bandwidth	Modulation	RB size	RB offset	631668	633334	635000	Tune up
				3475.02 MHz	3500.01 MHz	3525.00 MHz	
50MHz	DFT-s-OFDM QPSK	1	1	22.95	23.16	23.01	22.5±1.0
Bandwidth	Modulation	RB size	RB offset	631334	633334	635332	Tune up
				3470.01 MHz	3500.01 MHz	3529.98 MHz	
40MHz	DFT-s-OFDM QPSK	1	1	23.18	23.11	23.02	22.5±1.0
Bandwidth	Modulation	RB size	RB offset	631000	633334	635666	Tune up
				3465.00 MHz	3500.01 MHz	3534.99 MHz	
30MHz	DFT-s-OFDM QPSK	1	1	22.90	23.02	23.14	22.5±1.0
Bandwidth	Modulation	RB size	RB offset	630668	633334	636000	Tune up
				3460.02 MHz	3500.01 MHz	3540.00 MHz	
20MHz	DFT-s-OFDM QPSK	1	1	23.01	22.93	23.06	22.5±1.0



N77 ANT 8 Full Power			Conducted Power(dBm)				
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	/	633334	/	Tune up
				/	3500.01 MHz	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	26.31	/	26.0±1.0
		1	137	/	26.44	/	
		1	271	/	26.31	/	
		135	0	/	26.33	/	26.0±1.0
		135	67	/	26.26	/	
		135	138	/	26.34	/	
	270	0	/	25.31	/	25.0±1.0	
	DFT-s-OFDM QPSK	1	1	/	26.47	/	26.0±1.0
		1	137	/	26.53	/	
		1	271	/	26.51	/	
		135	0	/	26.40	/	26.0±1.0
		135	67	/	26.32	/	
		135	138	/	26.34	/	
	270	0	/	25.37	/	25.0±1.0	
	DFT-s-OFDM 16QAM	1	1	/	25.04	/	24.5±1.0
	DFT-s-OFDM 64QAM	1	1	/	23.88	/	23.5±1.0
	DFT-s-OFDM 256QAM	1	1	/	21.41	/	21.0±1.0
	CP-OFDM QPSK	1	1	/	24.68	/	24.0±1.0
CP-OFDM 16QAM	1	1	/	24.19	/	23.5±1.0	
CP-OFDM 64QAM	1	1	/	22.77	/	22.5±1.0	
CP-OFDM 256QAM	1	1	/	19.77	/	19.5±1.0	
Bandwidth	Modulation	RB size	RB offset	633000	633334	633666	Tune up
				3495.00 MHz	3500.01 MHz	3504.99 MHz	
90MHz	DFT-s-OFDM QPSK	1	1	26.48	26.50	26.44	26.0±1.0
Bandwidth	Modulation	RB size	RB offset	632668	633334	634000	Tune up
				3490.02 MHz	3500.01 MHz	3510.00 MHz	
80MHz	DFT-s-OFDM QPSK	1	1	26.31	26.49	26.50	26.0±1.0



Bandwidth	Modulation	RB size	RB offset	632334	633334	634332	Tune up
				3485.01 MHz	3500.01 MHz	3514.98 MHz	
70MHz	DFT-s-OFDM QPSK	1	1	26.53	26.63	26.38	26.0±1.0
Bandwidth	Modulation	RB size	RB offset	632000	633334	634666	Tune up
				3480.00 MHz	3500.01 MHz	3519.99 MHz	
60MHz	DFT-s-OFDM QPSK	1	1	26.67	26.44	26.52	26.0±1.0
Bandwidth	Modulation	RB size	RB offset	631668	633334	635000	Tune up
				3475.02 MHz	3500.01 MHz	3525.00 MHz	
50MHz	DFT-s-OFDM QPSK	1	1	26.48	26.20	26.36	26.0±1.0
Bandwidth	Modulation	RB size	RB offset	631334	633334	635332	Tune up
				3470.01 MHz	3500.01 MHz	3529.98 MHz	
40MHz	DFT-s-OFDM QPSK	1	1	26.37	26.52	26.40	26.0±1.0
Bandwidth	Modulation	RB size	RB offset	631000	633334	635666	Tune up
				3465.00 MHz	3500.01 MHz	3534.99 MHz	
30MHz	DFT-s-OFDM QPSK	1	1	26.66	26.31	26.39	26.0±1.0
Bandwidth	Modulation	RB size	RB offset	630668	633334	636000	Tune up
				3460.02 MHz	3500.01 MHz	3540.00 MHz	
20MHz	DFT-s-OFDM QPSK	1	1	26.56	26.42	26.49	26.0±1.0



N77 ANT 11 Full Power			Conducted Power(dBm)				
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	/	633334	/	Tune up
				/	3500.01 MHz	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	24.85	/	24.5±1.0
		1	137	/	25.05	/	
		1	271	/	24.92	/	
		135	0	/	25.02	/	24.5±1.0
		135	67	/	24.96	/	
		135	138	/	24.95	/	
	270	0	/	23.81	/	23.5±1.0	
	DFT-s-OFDM QPSK	1	1	/	25.11	/	24.5±1.0
		1	137	/	25.03	/	
		1	271	/	24.96	/	
		135	0	/	24.89	/	24.5±1.0
		135	67	/	24.91	/	
		135	138	/	25.06	/	
	270	0	/	23.98	/	23.5±1.0	
	DFT-s-OFDM 16QAM	1	1	/	23.41	/	23.0±1.0
	DFT-s-OFDM 64QAM	1	1	/	21.61	/	21.0±1.0
	DFT-s-OFDM 256QAM	1	1	/	19.83	/	19.5±1.0
	CP-OFDM QPSK	1	1	/	22.70	/	22.0±1.0
CP-OFDM 16QAM	1	1	/	22.49	/	22.0±1.0	
CP-OFDM 64QAM	1	1	/	21.01	/	20.5±1.0	
CP-OFDM 256QAM	1	1	/	17.98	/	17.5±1.0	
Bandwidth	Modulation	RB size	RB offset	633000	633334	633666	Tune up
				3495.00 MHz	3500.01 MHz	3504.99 MHz	
90MHz	DFT-s-OFDM QPSK	1	1	25.11	25.03	25.16	24.5±1.0
Bandwidth	Modulation	RB size	RB offset	632668	633334	634000	Tune up
				3490.02 MHz	3500.01 MHz	3510.00 MHz	
80MHz	DFT-s-OFDM QPSK	1	1	25.04	24.90	24.93	24.5±1.0



Bandwidth	Modulation	RB size	RB offset	632334	633334	634332	Tune up
				3485.01 MHz	3500.01 MHz	3514.98 MHz	
70MHz	DFT-s-OFDM QPSK	1	1	25.05	24.94	24.87	24.5±1.0
Bandwidth	Modulation	RB size	RB offset	632000	633334	634666	Tune up
				3480.00 MHz	3500.01 MHz	3519.99 MHz	
60MHz	DFT-s-OFDM QPSK	1	1	24.95	25.03	24.89	24.5±1.0
Bandwidth	Modulation	RB size	RB offset	631668	633334	635000	Tune up
				3475.02 MHz	3500.01 MHz	3525.00 MHz	
50MHz	DFT-s-OFDM QPSK	1	1	25.10	25.12	24.89	24.5±1.0
Bandwidth	Modulation	RB size	RB offset	631334	633334	635332	Tune up
				3470.01 MHz	3500.01 MHz	3529.98 MHz	
40MHz	DFT-s-OFDM QPSK	1	1	24.88	25.15	25.06	24.5±1.0
Bandwidth	Modulation	RB size	RB offset	631000	633334	635666	Tune up
				3465.00 MHz	3500.01 MHz	3534.99 MHz	
30MHz	DFT-s-OFDM QPSK	1	1	25.12	25.00	24.96	24.5±1.0
Bandwidth	Modulation	RB size	RB offset	630668	633334	636000	Tune up
				3460.02 MHz	3500.01 MHz	3540.00 MHz	
20MHz	DFT-s-OFDM QPSK	1	1	25.05	25.12	25.01	24.5±1.0



N77 ANT 16 Full Power			Conducted Power(dBm)				
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	/	633334	/	Tune up
				/	3500.01 MHz	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	26.18	/	26.0±1.0
		1	137	/	26.39	/	
		1	271	/	26.22	/	
		135	0	/	26.04	/	26.0±1.0
		135	67	/	26.28	/	
		135	138	/	26.31	/	
	270	0	/	25.29	/	25.0±1.0	
	DFT-s-OFDM QPSK	1	1	/	26.42	/	26.0±1.0
		1	137	/	26.53	/	
		1	271	/	26.31	/	
		135	0	/	26.11	/	26.0±1.0
		135	67	/	26.36	/	
		135	138	/	26.25	/	
	270	0	/	25.47	/	25.0±1.0	
	DFT-s-OFDM 16QAM	1	1	/	25.32	/	25.0±1.0
	DFT-s-OFDM 64QAM	1	1	/	24.12	/	23.5±1.0
	DFT-s-OFDM 256QAM	1	1	/	21.72	/	21.0±1.0
	CP-OFDM QPSK	1	1	/	24.74	/	24.0±1.0
CP-OFDM 16QAM	1	1	/	24.53	/	24.0±1.0	
CP-OFDM 64QAM	1	1	/	22.45	/	22.0±1.0	
CP-OFDM 256QAM	1	1	/	19.82	/	19.5±1.0	
Bandwidth	Modulation	RB size	RB offset	633000	633334	633666	Tune up
				3495.00 MHz	3500.01 MHz	3504.99 MHz	
90MHz	DFT-s-OFDM QPSK	1	1	26.22	26.41	26.37	26.0±1.0
Bandwidth	Modulation	RB size	RB offset	632668	633334	634000	Tune up
				3490.02 MHz	3500.01 MHz	3510.00 MHz	
80MHz	DFT-s-OFDM QPSK	1	1	26.45	26.37	26.30	26.0±1.0



Bandwidth	Modulation	RB size	RB offset	632334	633334	634332	Tune up
				3485.01 MHz	3500.01 MHz	3514.98 MHz	
70MHz	DFT-s-OFDM QPSK	1	1	26.39	26.21	26.28	26.0±1.0
Bandwidth	Modulation	RB size	RB offset	632000	633334	634666	Tune up
				3480.00 MHz	3500.01 MHz	3519.99 MHz	
60MHz	DFT-s-OFDM QPSK	1	1	26.36	26.45	26.43	26.0±1.0
Bandwidth	Modulation	RB size	RB offset	631668	633334	635000	Tune up
				3475.02 MHz	3500.01 MHz	3525.00 MHz	
50MHz	DFT-s-OFDM QPSK	1	1	26.16	26.50	26.30	26.0±1.0
Bandwidth	Modulation	RB size	RB offset	631334	633334	635332	Tune up
				3470.01 MHz	3500.01 MHz	3529.98 MHz	
40MHz	DFT-s-OFDM QPSK	1	1	26.20	26.43	26.12	26.0±1.0
Bandwidth	Modulation	RB size	RB offset	631000	633334	635666	Tune up
				3465.00 MHz	3500.01 MHz	3534.99 MHz	
30MHz	DFT-s-OFDM QPSK	1	1	26.24	26.27	26.45	26.0±1.0
Bandwidth	Modulation	RB size	RB offset	630668	633334	636000	Tune up
				3460.02 MHz	3500.01 MHz	3540.00 MHz	
20MHz	DFT-s-OFDM QPSK	1	1	26.30	26.18	26.44	26.0±1.0



4. 5G NR 78 30KHz 100MHz(3450 MHz-3550MHz)Conducted Power Test Verdict:

N78 ANT 1 Full Power		Conducted Power(dBm)					
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	/	633334	/	Tune up
				/	3500.01 MHz	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.26	/	22.0±1.0
		1	137	/	22.45	/	
		1	271	/	22.50	/	
		135	0	/	22.43	/	22.0±1.0
		135	67	/	22.30	/	
		135	138	/	22.19	/	
	DFT-s-OFDM QPSK	270	0	/	21.57	/	21.0±1.0
		1	1	/	22.61	/	22.0±1.0
		1	137	/	22.70	/	
		1	271	/	22.41	/	
		135	0	/	22.27	/	22.0±1.0
		135	67	/	22.54	/	
	135	138	/	22.48	/		
	270	0	/	21.62	/	21.0±1.0	
	DFT-s-OFDM 16QAM	1	1	/	20.91	/	20.5±1.0
	DFT-s-OFDM 64QAM	1	1	/	18.51	/	18.0±1.0
	DFT-s-OFDM 256QAM	1	1	/	17.34	/	17.0±1.0
	CP-OFDM QPSK	1	1	/	20.63	/	20.0±1.0
CP-OFDM 16QAM	1	1	/	20.02	/	19.5±1.0	
CP-OFDM 64QAM	1	1	/	18.40	/	18.0±1.0	
CP-OFDM 256QAM	1	1	/	15.33	/	15.0±1.0	
Bandwidth	Modulation	RB size	RB offset	633000	633334	633666	Tune up
				3495.00 MHz	3500.01 MHz	3504.99 MHz	
90MHz	DFT-s-OFDM QPSK	1	1	22.41	22.36	22.49	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	632668	633334	634000	Tune up
				3490.02 MHz	3500.01 MHz	3510.00 MHz	
80MHz	DFT-s-OFDM QPSK	1	1	22.53	22.31	22.61	22.0±1.0



Bandwidth	Modulation	RB size	RB offset	632334	633334	634332	Tune up
				3485.01 MHz	3500.01 MHz	3514.98 MHz	
70MHz	DFT-s-OFDM QPSK	1	1	22.37	22.61	22.53	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	632000	633334	634666	Tune up
				3480.00 MHz	3500.01 MHz	3519.99 MHz	
60MHz	DFT-s-OFDM QPSK	1	1	22.32	22.49	22.19	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	631668	633334	635000	Tune up
				3475.02 MHz	3500.01 MHz	3525.00 MHz	
50MHz	DFT-s-OFDM QPSK	1	1	22.41	22.56	22.45	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	631334	633334	635332	Tune up
				3470.01 MHz	3500.01 MHz	3529.98 MHz	
40MHz	DFT-s-OFDM QPSK	1	1	22.31	22.59	22.35	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	631000	633334	635666	Tune up
				3465.00 MHz	3500.01 MHz	3534.99 MHz	
30MHz	DFT-s-OFDM QPSK	1	1	22.37	22.48	22.26	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	630668	633334	636000	Tune up
				3460.02 MHz	3500.01 MHz	3540.00 MHz	
20MHz	DFT-s-OFDM QPSK	1	1	22.39	22.51	22.28	22.0±1.0



N78 ANT 8 Full Power			Conducted Power(dBm)				
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	/	633334	/	Tune up
				/	3500.01 MHz	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	24.52	/	24.0±1.0
		1	137	/	24.67	/	
		1	271	/	24.43	/	
		135	0	/	24.37	/	24.0±1.0
		135	67	/	24.25	/	
		135	138	/	24.34	/	
		270	0	/	24.01	/	23.5±1.0
	DFT-s-OFDM QPSK	1	1	/	24.66	/	24.0±1.0
		1	137	/	24.56	/	
		1	271	/	24.70	/	
		135	0	/	24.34	/	24.0±1.0
		135	67	/	24.55	/	
		135	138	/	24.40	/	
		270	0	/	23.92	/	23.5±1.0
	DFT-s-OFDM 16QAM	1	1	/	23.10	/	22.5±1.0
	DFT-s-OFDM 64QAM	1	1	/	21.56	/	21.0±1.0
	DFT-s-OFDM 256QAM	1	1	/	19.60	/	19.0±1.0
	CP-OFDM QPSK	1	1	/	22.71	/	22.0±1.0
	CP-OFDM 16QAM	1	1	/	21.91	/	21.5±1.0
	CP-OFDM 64QAM	1	1	/	20.58	/	20.0±1.0
CP-OFDM 256QAM	1	1	/	17.69	/	17.0±1.0	
Bandwidth	Modulation	RB size	RB offset	633000	633334	633666	Tune up
				3495.00 MHz	3500.01 MHz	3504.99 MHz	
90MHz	DFT-s-OFDM QPSK	1	1	24.39	24.58	24.43	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	632668	633334	634000	Tune up
				3490.02 MHz	3500.01 MHz	3510.00 MHz	
80MHz	DFT-s-OFDM QPSK	1	1	24.61	24.44	24.57	24.0±1.0



Bandwidth	Modulation	RB size	RB offset	632334	633334	634332	Tune up
				3485.01 MHz	3500.01 MHz	3514.98 MHz	
70MHz	DFT-s-OFDM QPSK	1	1	24.29	24.52	24.38	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	632000	633334	634666	Tune up
				3480.00 MHz	3500.01 MHz	3519.99 MHz	
60MHz	DFT-s-OFDM QPSK	1	1	24.43	24.27	24.56	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	631668	633334	635000	Tune up
				3475.02 MHz	3500.01 MHz	3525.00 MHz	
50MHz	DFT-s-OFDM QPSK	1	1	24.37	24.57	24.32	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	631334	633334	635332	Tune up
				3470.01 MHz	3500.01 MHz	3529.98 MHz	
40MHz	DFT-s-OFDM QPSK	1	1	24.52	24.66	24.47	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	631000	633334	635666	Tune up
				3465.00 MHz	3500.01 MHz	3534.99 MHz	
30MHz	DFT-s-OFDM QPSK	1	1	24.39	24.57	24.42	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	630668	633334	636000	Tune up
				3460.02 MHz	3500.01 MHz	3540.00 MHz	
20MHz	DFT-s-OFDM QPSK	1	1	24.50	24.26	24.41	24.0±1.0



N78 ANT 11 Full Power			Conducted Power(dBm)				
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	/	633334	/	Tune up
				/	3500.01 MHz	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	24.43	/	24.0±1.0
		1	137	/	24.50	/	
		1	271	/	24.37	/	
		135	0	/	24.24	/	24.0±1.0
		135	67	/	24.39	/	
		135	138	/	24.10	/	
	270	0	/	23.91	/	23.5±1.0	
	DFT-s-OFDM QPSK	1	1	/	24.53	/	24.0±1.0
		1	137	/	24.34	/	
		1	271	/	24.51	/	
		135	0	/	24.12	/	24.0±1.0
		135	67	/	24.23	/	
		135	138	/	24.30	/	
	270	0	/	23.89	/	23.5±1.0	
	DFT-s-OFDM 16QAM	1	1	/	23.50	/	23.0±1.0
	DFT-s-OFDM 64QAM	1	1	/	21.73	/	21.5±1.0
	DFT-s-OFDM 256QAM	1	1	/	18.92	/	18.5±1.0
	CP-OFDM QPSK	1	1	/	23.87	/	23.5±1.0
CP-OFDM 16QAM	1	1	/	23.46	/	23.0±1.0	
CP-OFDM 64QAM	1	1	/	22.04	/	21.5±1.0	
CP-OFDM 256QAM	1	1	/	19.02	/	18.5±1.0	
Bandwidth	Modulation	RB size	RB offset	633000	633334	633666	Tune up
				3495.00 MHz	3500.01 MHz	3504.99 MHz	
90MHz	DFT-s-OFDM QPSK	1	1	24.29	24.44	24.37	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	632668	633334	634000	Tune up
				3490.02 MHz	3500.01 MHz	3510.00 MHz	
80MHz	DFT-s-OFDM QPSK	1	1	24.47	24.22	24.38	24.0±1.0



Bandwidth	Modulation	RB size	RB offset	632334	633334	634332	Tune up
				3485.01 MHz	3500.01 MHz	3514.98 MHz	
70MHz	DFT-s-OFDM QPSK	1	1	24.45	24.27	24.33	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	632000	633334	634666	Tune up
				3480.00 MHz	3500.01 MHz	3519.99 MHz	
60MHz	DFT-s-OFDM QPSK	1	1	24.42	24.20	24.31	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	631668	633334	635000	Tune up
				3475.02 MHz	3500.01 MHz	3525.00 MHz	
50MHz	DFT-s-OFDM QPSK	1	1	24.26	24.39	24.27	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	631334	633334	635332	Tune up
				3470.01 MHz	3500.01 MHz	3529.98 MHz	
40MHz	DFT-s-OFDM QPSK	1	1	24.38	24.29	24.21	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	631000	633334	635666	Tune up
				3465.00 MHz	3500.01 MHz	3534.99 MHz	
30MHz	DFT-s-OFDM QPSK	1	1	24.29	24.34	24.13	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	630668	633334	636000	Tune up
				3460.02 MHz	3500.01 MHz	3540.00 MHz	
20MHz	DFT-s-OFDM QPSK	1	1	24.36	24.24	24.32	24.0±1.0



N78 ANT 16 Full Power			Conducted Power(dBm)				
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	/	633334	/	Tune up
				/	3500.01 MHz	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	24.33	/	24.0±1.0
		1	137	/	24.52	/	
		1	271	/	24.45	/	
		135	0	/	24.16	/	24.0±1.0
		135	67	/	24.43	/	
		135	138	/	24.29	/	
		270	0	/	23.34	/	23.0±1.0
	DFT-s-OFDM QPSK	1	1	/	24.59	/	24.0±1.0
		1	137	/	24.44	/	
		1	271	/	24.61	/	
		135	0	/	24.23	/	24.0±1.0
		135	67	/	24.39	/	
		135	138	/	24.32	/	
	270	0	/	23.31	/	23.0±1.0	
	DFT-s-OFDM 16QAM	1	1	/	22.74	/	22.0±1.0
	DFT-s-OFDM 64QAM	1	1	/	20.69	/	20.0±1.0
	DFT-s-OFDM 256QAM	1	1	/	19.28	/	19.0±1.0
	CP-OFDM QPSK	1	1	/	22.81	/	22.5±1.0
	CP-OFDM 16QAM	1	1	/	22.09	/	21.5±1.0
CP-OFDM 64QAM	1	1	/	20.49	/	20.0±1.0	
CP-OFDM 256QAM	1	1	/	17.37	/	17.0±1.0	
Bandwidth	Modulation	RB size	RB offset	633000	633334	633666	Tune up
				3495.00 MHz	3500.01 MHz	3504.99 MHz	
90MHz	DFT-s-OFDM QPSK	1	1	24.46	24.39	24.51	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	632668	633334	634000	Tune up
				3490.02 MHz	3500.01 MHz	3510.00 MHz	
80MHz	DFT-s-OFDM QPSK	1	1	24.35	24.69	24.41	24.0±1.0



Bandwidth	Modulation	RB size	RB offset	632334	633334	634332	Tune up
				3485.01 MHz	3500.01 MHz	3514.98 MHz	
70MHz	DFT-s-OFDM QPSK	1	1	24.31	24.52	24.43	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	632000	633334	634666	Tune up
				3480.00 MHz	3500.01 MHz	3519.99 MHz	
60MHz	DFT-s-OFDM QPSK	1	1	24.57	24.37	24.44	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	631668	633334	635000	Tune up
				3475.02 MHz	3500.01 MHz	3525.00 MHz	
50MHz	DFT-s-OFDM QPSK	1	1	24.41	24.27	24.19	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	631334	633334	635332	Tune up
				3470.01 MHz	3500.01 MHz	3529.98 MHz	
40MHz	DFT-s-OFDM QPSK	1	1	24.33	24.39	24.21	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	631000	633334	635666	Tune up
				3465.00 MHz	3500.01 MHz	3534.99 MHz	
30MHz	DFT-s-OFDM QPSK	1	1	24.62	24.43	24.50	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	630668	633334	636000	Tune up
				3460.02 MHz	3500.01 MHz	3540.00 MHz	
20MHz	DFT-s-OFDM QPSK	1	1	24.37	24.40	24.54	24.0±1.0

**Note:**

1. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
2. For 5G NR FDD/TDD supports SCS15KHz and SCS30KHz, chose higher power which is SCS 30KHz to perform SAR testing.
3. For TDD NR Band operation and final implementation, TDD NR Slot configuration extended cyclic prefix uplink duty cycle=25%, however, EN-DC transmission on test DUT is only possible using FTM mode with continuous transmission(duty-cycle=100%), SAR testing was performed using FTM mode at maximum output power adjusted for duty cycle to mimic final 25% cycle. The other Frequencies were measured at the worst position
4. For FDD NR band, uplink duty cycle=100%, EN-DC transmission on test DUT is only possible using FTM mode with continuous transmission (duty-cycle=100%)

Band	5G NR(SA)Antenna Power Level(dBm)			
	Tune up(Not ajust for the duty cycle)		Tune up (Ajusted for Duty cycle)	
N5 ANT 1	/	/	24.0	100%
N5 ANT 3	/	/	24.0	100%
N41 ANT 1	26.5	25%	20.5	100%
N41 ANT 2	26.5	25%	20.5	100%
N41 ANT 4	26.5	25%	20.5	100%
N41 ANT 8	26.5	25%	20.5	100%
N77 ANT 1	26.5	25%	20.5	100%
N77 ANT 8	27.0	25%	21.0	100%
N77 ANT 11	26.5	25%	20.5	100%
N77 ANT 16	27.0	25%	21.0	100%
N78 ANT 1	26.5	25%	20.5	100%
N78 ANT 8	26.5	25%	20.5	100%
N78 ANT 11	25.0	25%	19.0	100%
N78 ANT 16	26.5	25%	20.5	100%



8.6 WIFI Conducted Power

Wi-Fi 2.4G Output power ANT 7

2.4G WI-FI Channel/Freq.(MHz)	Output Power (dBm)			
	802.11b	802.11g	802.11n(HT20)	802.11ax(HE20)
1/2412.0	15.34	14.82	10.67	9.70
6/2437.0	15.39	14.95	10.92	9.84
11/2462.0	15.47	14.84	10.65	9.55

2.4G WI-FI Channel/Freq.(MHz)	Output Power (dBm)	
	802.11n(HT40)	802.11ax(HE40)
3/2422.0	10.83	9.76
6/2437.0	10.15	9.36
9/2452.0	10.70	9.30

Wi-Fi 2.4G Output power ANT 9

2.4G WI-FI Channel/Freq.(MHz)	Output Power (dBm)			
	802.11b	802.11g	802.11n(HT20)	802.11ax(HE20)
1/2412.0	15.14	15.65	10.68	9.70
6/2437.0	15.33	15.94	10.79	9.87
11/2462.0	15.04	15.66	10.54	9.65

2.4G WI-FI Channel/Freq.(MHz)	Output Power (dBm)	
	802.11n(HT40)	802.11ax(HE40)
3/2422.0	9.61	9.86
6/2437.0	9.95	9.91
9/2452.0	9.74	9.75



Wi-Fi 2.4G MIMO Output power ANT 7+9

2.4G WI-FI Channel/Freq.(MHz)	Output Power (dBm)	
	802.11n(HT20)	802.11ax(HE20)
1/2412.0	13.69	12.71
6/2437.0	13.87	12.87
11/2462.0	13.61	12.61

2.4G WI-FI Channel/Freq.(MHz)	Output Power (dBm)	
	802.11n(HT40)	802.11ax(HE40)
3/2422.0	13.27	12.82
6/2437.0	13.06	12.65
9/2452.0	13.26	12.54



Wi-Fi U-NII-1 Output power ANT 9

Channel/Freq.(MHz)	Output Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
36/5180.0	15.34	12.24	12.17	12.40
44/5220.0	15.38	12.19	12.14	12.32
48/5240.0	15.29	12.16	12.18	12.36

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
38/5190.0	12.22	12.18	11.95
46/5230.0	12.35	12.27	12.24

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac80	802.11 ax80
42/5210.0	11.02	11.19

Wi-Fi U-NII-1 Output power ANT 10

Channel/Freq.(MHz)	Output Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
36/5180.0	13.28	11.03	11.02	11.15
44/5220.0	13.30	11.22	11.40	11.40
48/5240.0	13.41	11.39	11.48	11.51

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
38/5190.0	10.81	10.91	10.76
46/5230.0	10.91	11.02	11.03

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac80	802.11 ax80
42/5210.0	9.75	9.87



Wi-Fi U-NII-1 MIMO Output power ANT 9+10

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n20	802.11 ac20	802.11 ax20
36/5180.0	14.69	14.64	14.83
44/5220.0	14.74	14.80	14.89
48/5240.0	14.80	14.85	14.97

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
38/5190.0	14.58	14.60	14.41
46/5230.0	14.70	14.70	14.69

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac80	802.11 ax80
42/5210.0	13.44	13.59



Wi-Fi U-NII-2A Output power ANT 9

Channel/Freq.(MHz)	Output Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
52/5260.0	15.20	12.33	12.04	12.20
60/5300.0	15.27	12.18	12.02	12.10
64/5320.0	14.98	11.88	11.78	11.87

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
54/5270.0	10.85	10.88	11.15
62/5310.0	10.70	10.77	10.83

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac80	802.11 ax80
58/5290.0	9.60	9.74

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac160	802.11 ax160
56/5250.0	8.97	9.25



Wi-Fi U-NII-2A Output power ANT 10

Channel/Freq.(MHz)	Output Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
52/5260.0	13.37	11.28	11.28	11.31
60/5300.0	13.19	11.21	11.18	11.25
64/5320.0	13.18	11.04	11.04	11.09

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
54/5270.0	9.97	9.93	9.93
62/5310.0	9.86	9.81	9.82

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac80	802.11 ax80
58/5290.0	8.23	8.46

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac160	802.11 ax160
56/5250.0	7.94	8.11



Wi-Fi U-NII-2A MIMO Output power ANT 9+10

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n20	802.11 ac20	802.11 ax20
52/5260.0	14.85	14.69	14.79
60/5300.0	14.73	14.63	14.71
64/5320.0	14.49	14.44	14.51

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
54/5270.0	13.44	13.44	13.59
62/5310.0	13.31	13.33	13.36

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac80	802.11 ax80
58/5290.0	11.98	12.16

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac160	802.11 ax160
56/5250.0	11.50	11.73



Wi-Fi U-NII-2C Output power ANT 9

Channel/Freq.(MHz)	Output Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
100/5500.0	15.16	12.14	12.08	11.99
120/5600.0	15.47	12.26	12.26	12.28
140/5700.0	15.56	12.56	12.57	12.28

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
102/5510.0	10.68	10.64	10.56
118/5590.0	10.84	10.84	10.78
134/5670.0	11.45	11.53	11.46

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac80	802.11 ax80
106/5530.0	9.52	9.67
122/5610.0	9.36	9.53

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac160	802.11 ax160
114/5570.0	9.01	9.32



Wi-Fi U-NII-2C Output power ANT 10

Channel/Freq.(MHz)	Output Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
100/5500.0	12.91	10.85	10.83	10.74
120/5600.0	13.14	11.12	11.14	11.25
140/5700.0	13.07	11.10	11.05	11.11

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
102/5510.0	9.70	9.65	9.64
118/5590.0	9.69	9.65	9.65
134/5670.0	9.65	9.70	9.61

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac80	802.11 ax80
106/5530.0	8.41	8.69
122/5610.0	8.16	8.37

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac160	802.11 ax160
114/5570.0	7.46	7.76



Wi-Fi U-NII-2C MIMO Output power ANT 9+10

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n20	802.11 ac20	802.11 ax20
100/5500.0	14.55	14.51	14.42
120/5600.0	14.74	14.75	14.81
140/5700.0	14.90	14.89	14.74

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
102/5510.0	13.23	13.18	13.13
118/5590.0	13.31	13.30	13.26
134/5670.0	13.65	13.72	13.64

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac80	802.11 ax80
106/5530.0	12.01	12.22
122/5610.0	11.81	12.00

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac160	802.11 ax160
114/5570.0	11.31	11.62



Wi-Fi U-NII-3 Output power ANT 9

Channel/Freq.(MHz)	Output Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
149/5745.0	15.83	12.87	12.65	12.64
157/5785.0	15.75	12.64	12.48	12.49
165/5825.0	15.60	12.38	12.34	12.35

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
151/5755.0	11.32	11.23	11.31
159/5795.0	11.19	11.14	11.28

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac80	802.11 ax80
155/5775.0	9.87	10.08

Wi-Fi U-NII-3 Output power ANT 10

Channel/Freq.(MHz)	Output Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
149/5745.0	12.65	10.50	10.45	10.57
157/5785.0	12.64	10.56	10.52	10.66
165/5825.0	12.92	10.80	10.75	10.84

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
151/5755.0	8.82	9.11	9.07
159/5795.0	8.47	9.21	9.18

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac80	802.11 ax80
155/5775.0	7.63	7.86



Wi-Fi U-NII-3 MIMO Output power ANT 9+10

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n20	802.11 ac20	802.11 ax20
149/5745.0	14.86	14.70	14.74
157/5785.0	14.73	14.62	14.68
165/5825.0	14.67	14.63	14.67

Channel/Freq.(MHz)	Output Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
151/5755.0	13.26	13.31	13.34
159/5795.0	13.05	13.29	13.37

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 ac80	802.11 ax80
155/5775.0	11.90	12.12

8.7 Bluetooth Output Power

Bluetooth Output power ANT 7

Channel	Frequency (MHz)	Output Power(dBm)		
		GFSK	$\pi/4$ -DQPSK	8-DPSK
CH 0	2402	13.89	12.51	12.98
CH 39	2441	13.86	12.37	12.90
CH 78	2480	13.38	11.98	12.75

Channel	Frequency (MHz)	BLE Output Power(dBm)	
		1M(GFSK)	2M(GFSK)
CH 0	2402	13.88	14.01
CH 19	2440	13.82	13.77
CH 39	2480	13.37	13.50

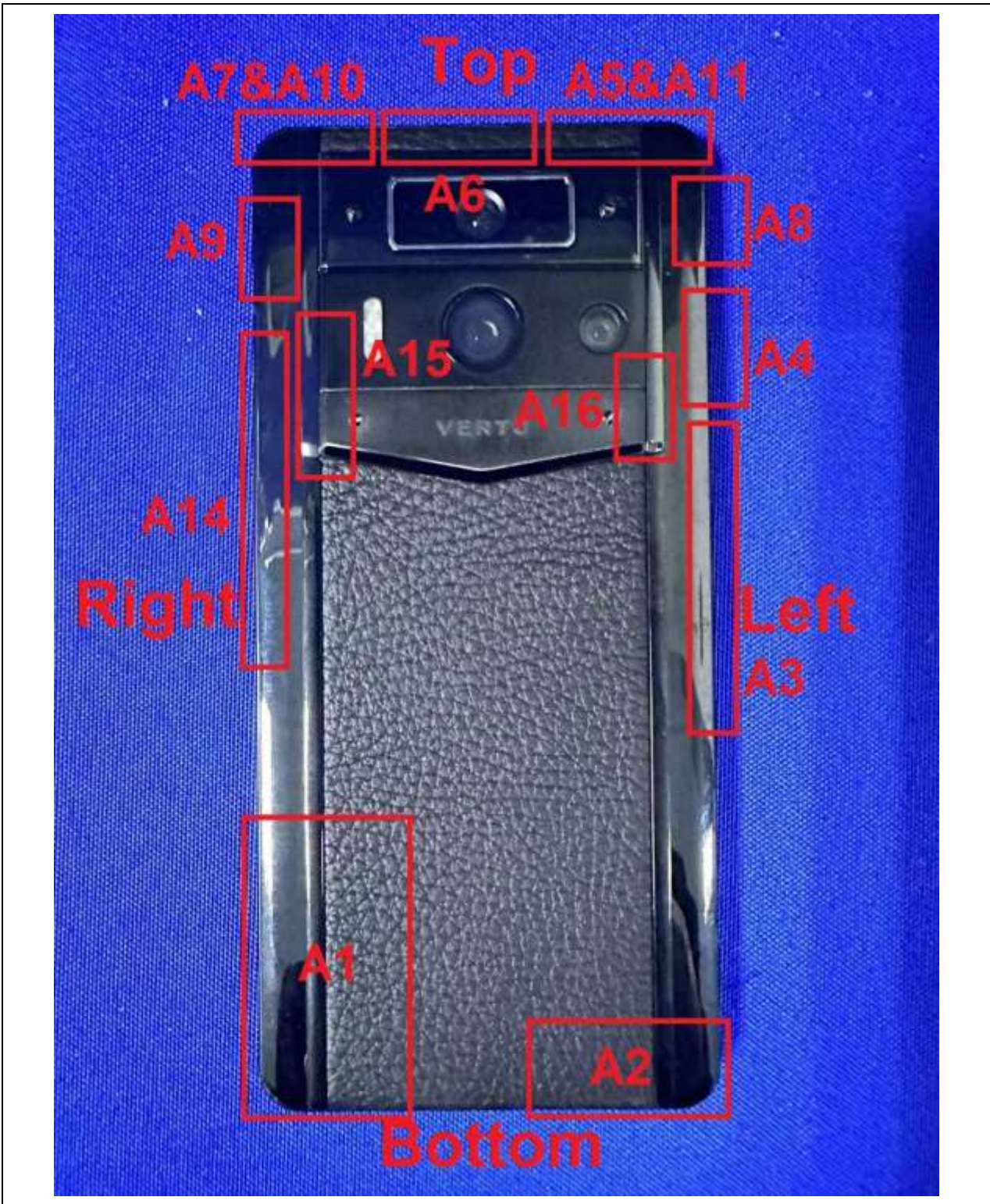


Bluetooth Output power ANT 9

Channel	Frequency (MHz)	Output Power(dBm)		
		GFSK	$\pi/4$ -DQPSK	8-DPSK
CH 0	2402	10.81	8.66	9.44
CH 39	2441	11.42	9.52	10.12
CH 78	2480	10.52	8.89	9.25

Channel	Frequency (MHz)	BLE Output Power(dBm)	
		1M(GFSK)	2M(GFSK)
CH 0	2402	14.57	14.99
CH 19	2440	15.46	15.57
CH 39	2480	14.45	14.66

9. Antenna Location:





Antenna	Test Band
ANT 1	GSM 850, CDMA BC 0, WCDMA 850, LTE Band 5 / 12 / 17, 5G NR 5 / 41 / 77 / 78
ANT 2	GSM 1900, WCDMA 1700 / 1900, LTE Band 2 / 4 / 7 / 41, 5G NR 41
ANT 3	GSM 850, CDMA BC 0, WCDMA 850, LTE Band 5 / 12 / 17, 5G NR 5
ANT 4	GSM 1900, WCDMA 1700 / 1900, LTE Band 2 / 4 / 7 / 41, 5G NR 41
ANT 7	2.4GWIFI, BT
ANT 8	5G NR 41 / 77 / 78
ANT 9	2.4GWIFI, BT, 5GWIFI
ANT 10	5GWIFI
ANT 11	5G NR 77 / 78
ANT 16	5G NR 77 / 78

Antenna-to-User (Edge Side) distance (mm):

Antenna	Front	Back	Left	Right	Top	Bottom
ANT 1	<25	<25	>25	<25	>25	<25
ANT 2	<25	<25	<25	>25	>25	<25
ANT 3	<25	<25	<25	>25	>25	>25
ANT 4	<25	<25	<25	>25	>25	>25
ANT 7	<25	<25	>25	<25	<25	>25
ANT 8	<25	<25	<25	>25	<25	>25
ANT 9	<25	<25	>25	<25	<25	>25
ANT 10	<25	<25	>25	<25	<25	>25
ANT 11	<25	<25	<25	>25	<25	>25
ANT 16	<25	<25	<25	>25	>25	>25

Note:

- Overall (Length x Width x High): 163.0 mm x 75.5 mm x 11.0 mm
- Overall Diagonal: 175 mm / Display Diagonal: 169 mm



The Body SAR measurement positions of each band are as below:

Antenna	Front	Back	Left	Right	Top	Bottom
ANT 1 Body	Yes	Yes	No	Yes	No	Yes
ANT 2 Body	Yes	Yes	Yes	No	No	Yes
ANT 3 Body	Yes	Yes	Yes	No	No	No
ANT 4 Body	Yes	Yes	Yes	No	No	No
ANT 5 Body	Yes	Yes	Yes	No	Yes	No
ANT 7 Body	Yes	Yes	No	Yes	Yes	No
ANT 8 Body	Yes	Yes	Yes	No	Yes	No
ANT 9 Body	Yes	Yes	No	Yes	Yes	No
ANT 10 Body	Yes	Yes	No	Yes	Yes	No
ANT 11 Body	Yes	Yes	Yes	No	Yes	No
ANT 16 Body	Yes	Yes	Yes	No	No	No

Note:

1. According to KDB 941225 D06 v02r01, when antenna-to-edge>2.5cm, SAR is not required.
2. The other Frequencies were measured at the worst position



10. Scaling Factor calculation

Operation Mode	Channel /Frequency	Output Power(dBm)	Tune up Power in tolerance (dBm)	Max. Tune up(dBm)	Scaling Factor
GSM850 ANT 1 Full Power	128/824.2	32.51	32.0 ±1.0	33.00	1.119
	190/836.6	32.14	31.5 ±1.0	32.50	1.086
	251/848.8	32.73	32.0 ±1.0	33.00	1.064
GPRS850 (GPRS 2Tx)ANT 1 Full Power	128/824.2	30.94	30.5 ±1.0	31.50	1.138
	190/836.6	30.61	30.0 ±1.0	31.00	1.094
	251/848.8	31.02	30.5 ±1.0	31.50	1.117
GSM850 ANT 3 Full Power	128/824.2	31.06	30.5 ±1.0	31.50	1.107
	190/836.6	30.97	30.5 ±1.0	31.50	1.130
	251/848.8	31.31	31.0 ±1.0	32.00	1.172
GPRS850 (GPRS 2Tx)ANT 3 Full Power	128/824.2	29.49	29.0 ±1.0	30.00	1.125
	190/836.6	29.57	29.0 ±1.0	30.00	1.104
	251/848.8	29.75	29.0 ±1.0	30.00	1.059
GSM1900 ANT 2 Full Power	512/1850.2	33.08	32.5 ±1.0	33.50	1.102
	661/1880.0	32.99	32.5 ±1.0	33.50	1.125
	810/1909.8	33.26	33.0 ±1.0	34.00	1.186
GPRS1900 (GPRS 4Tx) ANT 2 Full Power	512/1850.2	30.59	30.0 ±1.0	31.00	1.099
	661/1880.0	30.72	30.0 ±1.0	31.00	1.067
	810/1909.8	30.64	30.0 ±1.0	31.00	1.086
GSM1900 ANT 4 Full Power	512/1850.2	28.18	27.5 ±1.0	28.50	1.076
	661/1880.0	28.12	27.5 ±1.0	28.50	1.091
	810/1909.8	28.35	28.0 ±1.0	29.00	1.161
GPRS1900 (GPRS 4Tx) ANT 4 Full Power	512/1850.2	25.89	25.5 ±1.0	26.50	1.151
	661/1880.0	26.22	25.5 ±1.0	26.50	1.067
	810/1909.8	26.15	25.5 ±1.0	26.50	1.084
CDMA BC0 ANT 1 Full Power	1013/824.70	22.98	22.5 ±1.0	23.50	1.127
	384/836.52	22.95	22.5 ±1.0	23.50	1.135
	777/848.31	23.07	22.5 ±1.0	23.50	1.104
CDMA BC0 ANT 3 Full Power	1013/824.70	23.88	23.5 ±1.0	24.50	1.153
	384/836.52	23.77	23.5 ±1.0	24.50	1.183
	777/848.31	23.87	23.5 ±1.0	24.50	1.156
WCDMA850 ANT 1 Full Power	4132/826.4	24.25	23.5 ±1.0	24.50	1.059
	4183/836.6	24.21	23.5 ±1.0	24.50	1.069
	4233/846.6	24.23	23.5 ±1.0	24.50	1.064



WCDMA850 ANT 3 Full Power	4132/826.4	23.64	23.0 ±1.0	24.00	1.086
	4183/836.6	23.68	23.0 ±1.0	24.00	1.076
	4233/846.6	23.78	23.0 ±1.0	24.00	1.052
WCDMA1700 ANT 2 Full Power	1312/1712.4	24.33	24.0 ±1.0	25.00	1.167
	1413/1732.6	24.83	24.0 ±1.0	25.00	1.040
	1513/1752.6	24.78	24.0 ±1.0	25.00	1.052
WCDMA1700 ANT 2 DSI 2 Power	1312/1712.4	19.86	19.5 ±1.0	20.50	1.159
	1413/1732.6	19.97	19.5 ±1.0	20.50	1.130
	1513/1752.6	19.82	19.5 ±1.0	20.50	1.169
WCDMA1700 ANT 4 Full Power	1312/1712.4	22.74	22.0 ±1.0	23.00	1.062
	1413/1732.6	23.18	22.5 ±1.0	23.50	1.076
	1513/1752.6	23.12	22.5 ±1.0	23.50	1.091
WCDMA1700 ANT 4 DSI 1 Power	1312/1712.4	18.96	18.5 ±1.0	19.50	1.132
	1413/1732.6	19.08	18.5 ±1.0	19.50	1.102
	1513/1752.6	19.12	18.5 ±1.0	19.50	1.091
WCDMA1900 ANT 2 Full Power	9262/1852.4	24.75	24.0 ±1.0	25.00	1.059
	9400/1880.0	24.88	24.5 ±1.0	25.50	1.153
	9538/1907.6	24.87	24.5 ±1.0	25.50	1.156
WCDMA1900 ANT 2 DSI 2 Power	9262/1852.4	18.74	18.0 ±1.0	19.00	1.062
	9400/1880.0	18.69	18.0 ±1.0	19.00	1.074
	9538/1907.6	18.83	18.5 ±1.0	19.50	1.167
WCDMA1900 ANT 4 Full Power	9262/1852.4	23.08	22.5 ±1.0	23.50	1.102
	9400/1880.0	23.14	22.5 ±1.0	23.50	1.086
	9538/1907.6	23.08	22.5 ±1.0	23.50	1.102
WCDMA1900 ANT 4 DSI 1 Power	9262/1852.4	18.32	18.0 ±1.0	19.00	1.169
	9400/1880.0	18.37	18.0 ±1.0	19.00	1.156
	9538/1907.6	18.24	18.0 ±1.0	19.00	1.191
LTE B2 20MHz 1RB#0 ANT 2 Full Power	18700/1860.0	24.89	24.5 ±1.0	25.50	1.151
	18900/1880.0	24.83	24.5 ±1.0	25.50	1.167
	19100/1900.0	24.95	24.5 ±1.0	25.50	1.135
LTE B2 20MHz 50%RB#0 ANT 2 Full Power	18700/1860.0	23.69	23.0 ±1.0	24.00	1.074
	18900/1880.0	23.84	23.5 ±1.0	24.50	1.164
	19100/1900.0	23.86	23.5 ±1.0	24.50	1.159
LTE B2 20MHz 1RB#0 ANT 2 DSI 2 Power	18700/1860.0	17.76	17.5 ±1.0	18.50	1.186
	18900/1880.0	17.96	17.5 ±1.0	18.50	1.132
	19100/1900.0	17.89	17.5 ±1.0	18.50	1.151



LTE B2 20MHz 50%RB#0 ANT 2 DSI 2 Power	18700/1860.0	18.05	17.5 ±1.0	18.50	1.109
	18900/1880.0	17.96	17.5 ±1.0	18.50	1.132
	19100/1900.0	18.10	17.5 ±1.0	18.50	1.096
LTE B2 20MHz 100%RB#0 ANT 2 DSI 2 Power	18700/1860.0	17.98	17.5 ±1.0	18.50	1.127
	18900/1880.0	17.97	17.5 ±1.0	18.50	1.130
	19100/1900.0	18.16	17.5 ±1.0	18.50	1.081
LTE B2 20MHz 1RB#0 ANT 4 Full Power	18700/1860.0	23.39	23.0 ±1.0	24.00	1.151
	18900/1880.0	23.58	23.0 ±1.0	24.00	1.102
	19100/1900.0	23.52	23.0 ±1.0	24.00	1.117
LTE B2 20MHz 50%RB#0 ANT 4 Full Power	18700/1860.0	22.69	22.0 ±1.0	23.00	1.074
	18900/1880.0	22.62	22.0 ±1.0	23.00	1.091
	19100/1900.0	22.60	22.0 ±1.0	23.00	1.096
LTE B2 20MHz 100%RB#0 ANT 4 Full Power	18700/1860.0	22.47	22.0 ±1.0	23.00	1.130
	18900/1880.0	22.57	22.0 ±1.0	23.00	1.104
	19100/1900.0	22.55	22.0 ±1.0	23.00	1.109
LTE B2 20MHz 1RB#0 ANT 4 DSI 1 Power	18700/1860.0	17.59	17.0 ±1.0	18.00	1.099
	18900/1880.0	17.71	17.0 ±1.0	18.00	1.069
	19100/1900.0	17.73	17.0 ±1.0	18.00	1.064
LTE B2 20MHz 50%RB#0 ANT 4 DSI 1 Power	18700/1860.0	17.68	17.0 ±1.0	18.00	1.076
	18900/1880.0	17.69	17.0 ±1.0	18.00	1.074
	19100/1900.0	17.63	17.0 ±1.0	18.00	1.089
LTE B2 20MHz 100%RB#0 ANT 4 DSI 1 Power	18700/1860.0	17.68	17.0 ±1.0	18.00	1.076
	18900/1880.0	17.73	17.0 ±1.0	18.00	1.064
	19100/1900.0	17.66	17.0 ±1.0	18.00	1.081
LTE B4 20MHz 1RB#0 ANT 2 Full Power	20050/1720.0	25.12	24.5 ±1.0	25.50	1.091
	20175/1732.5	25.14	24.5 ±1.0	25.50	1.086
	20300/1745.0	25.09	24.5 ±1.0	25.50	1.099
LTE B4 20MHz 50%RB#0 ANT 2 Full Power	20050/1720.0	24.17	23.5 ±1.0	24.50	1.079
	20175/1732.5	24.14	23.5 ±1.0	24.50	1.086
	20300/1745.0	24.11	23.5 ±1.0	24.50	1.094
LTE B4 20MHz 1RB#0 ANT 2 DSI 2 Power	20050/1720.0	18.55	18.0 ±1.0	19.00	1.109
	20175/1732.5	18.73	18.0 ±1.0	19.00	1.064
	20300/1745.0	18.72	18.0 ±1.0	19.00	1.067
LTE B4 20MHz 50%RB#0 ANT 2 DSI 2 Power	20050/1720.0	18.68	18.0 ±1.0	19.00	1.076
	20175/1732.5	18.67	18.0 ±1.0	19.00	1.079
	20300/1745.0	18.61	18.0 ±1.0	19.00	1.094



LTE B4 20MHz 100%RB#0 ANT 2 DSI 2 Power	20050/1720.0	18.70	18.0 ±1.0	19.00	1.072
	20175/1732.5	18.59	18.0 ±1.0	19.00	1.099
	20300/1745.0	18.64	18.0 ±1.0	19.00	1.086
LTE B4 20MHz 1RB#0 ANT 4 Full Power	20050/1720.0	23.94	23.5 ±1.0	24.50	1.138
	20175/1732.5	23.88	23.5 ±1.0	24.50	1.153
	20300/1745.0	23.86	23.5 ±1.0	24.50	1.159
LTE B4 20MHz 50%RB#0 ANT 4 Full Power	20050/1720.0	22.88	22.5 ±1.0	23.50	1.153
	20175/1732.5	22.89	22.5 ±1.0	23.50	1.151
	20300/1745.0	22.90	22.5 ±1.0	23.50	1.148
LTE B4 20MHz 100%RB#0 ANT 4 Full Power	20050/1720.0	22.89	22.5 ±1.0	23.50	1.151
	20175/1732.5	22.87	22.5 ±1.0	23.50	1.156
	20300/1745.0	22.80	22.5 ±1.0	23.50	1.175
LTE B4 20MHz 1RB#0 ANT 4 DSI 1 Power	20050/1720.0	18.11	17.5 ±1.0	18.50	1.094
	20175/1732.5	18.12	17.5 ±1.0	18.50	1.091
	20300/1745.0	18.09	17.5 ±1.0	18.50	1.099
LTE B4 20MHz 50%RB#0 ANT 4 DSI 1 Power	20050/1720.0	18.09	17.5 ±1.0	18.50	1.099
	20175/1732.5	18.07	17.5 ±1.0	18.50	1.104
	20300/1745.0	18.07	17.5 ±1.0	18.50	1.104
LTE B4 20MHz 100%RB#0 ANT 4 DSI 1 Power	20050/1720.0	18.11	17.5 ±1.0	18.50	1.094
	20175/1732.5	18.03	17.5 ±1.0	18.50	1.114
	20300/1745.0	17.98	17.5 ±1.0	18.50	1.127
LTE B5 10MHz 1RB#0 ANT 1 Full Power	20450/829.0	24.14	23.5 ±1.0	24.50	1.086
	20525/836.5	24.12	23.5 ±1.0	24.50	1.091
	20600/844.0	24.15	23.5 ±1.0	24.50	1.084
LTE B5 10MHz 50%RB#0 ANT 1 Full Power	20450/829.0	23.15	22.5 ±1.0	23.50	1.084
	20525/836.5	23.12	22.5 ±1.0	23.50	1.091
	20600/844.0	23.14	22.5 ±1.0	23.50	1.086
LTE B5 10MHz 1RB#0 ANT 3 Full Power	20450/829.0	24.45	24.0 ±1.0	25.00	1.135
	20525/836.5	24.51	24.0 ±1.0	25.00	1.119
	20600/844.0	24.52	24.0 ±1.0	25.00	1.117
LTE B5 10MHz 50%RB#0 ANT 3 Full Power	20450/829.0	23.44	23.0 ±1.0	24.00	1.138
	20525/836.5	23.54	23.0 ±1.0	24.00	1.112
	20600/844.0	23.54	23.0 ±1.0	24.00	1.112
LTE B5 10MHz 100%RB#0 ANT 3 Full Power	20450/829.0	23.48	23.0 ±1.0	24.00	1.127
	20525/836.5	23.47	23.0 ±1.0	24.00	1.130
	20600/844.0	23.55	23.0 ±1.0	24.00	1.109



LTE B7 20MHz 1RB#0 ANT 2 Full Power	20850/2510.0	24.34	24.0 ±1.0	25.00	1.164
	21100/2535.0	24.43	24.0 ±1.0	25.00	1.140
	21350/2560.0	24.47	24.0 ±1.0	25.00	1.130
LTE B7 20MHz 50%RB#0 ANT 2 Full Power	20850/2510.0	23.42	23.0 ±1.0	24.00	1.143
	21100/2535.0	23.47	23.0 ±1.0	24.00	1.130
	21350/2560.0	23.52	23.0 ±1.0	24.00	1.117
LTE B7 20MHz 1RB#0 ANT 2 DSI 2 Power	20850/2510.0	19.74	19.0 ±1.0	20.00	1.062
	21100/2535.0	19.70	19.0 ±1.0	20.00	1.072
	21350/2560.0	19.88	19.5 ±1.0	20.50	1.153
LTE B7 20MHz 50%RB#0 ANT 2 DSI 2 Power	20850/2510.0	19.51	19.0 ±1.0	20.00	1.119
	21100/2535.0	19.79	19.0 ±1.0	20.00	1.050
	21350/2560.0	19.75	19.0 ±1.0	20.00	1.059
LTE B7 20MHz 100%RB#0 ANT 2 DSI 2 Power	20850/2510.0	19.41	19.0 ±1.0	20.00	1.146
	21100/2535.0	19.71	19.0 ±1.0	20.00	1.069
	21350/2560.0	19.73	19.0 ±1.0	20.00	1.064
LTE B7 20MHz 1RB#0 ANT 4 Full Power	20850/2510.0	22.81	22.5 ±1.0	23.50	1.172
	21100/2535.0	22.80	22.5 ±1.0	23.50	1.175
	21350/2560.0	22.86	22.5 ±1.0	23.50	1.159
LTE B7 20MHz 50%RB#0 ANT 4 Full Power	20850/2510.0	21.67	21.0 ±1.0	22.00	1.079
	21100/2535.0	21.67	21.0 ±1.0	22.00	1.079
	21350/2560.0	21.68	21.0 ±1.0	22.00	1.076
LTE B7 20MHz 100%RB#0 ANT 4 Full Power	20850/2510.0	21.70	21.0 ±1.0	22.00	1.072
	21100/2535.0	21.63	21.0 ±1.0	22.00	1.089
	21350/2560.0	21.67	21.0 ±1.0	22.00	1.079
LTE B7 20MHz 1RB#0 ANT 4 DSI 1 Power	20850/2510.0	18.86	18.5 ±1.0	19.50	1.159
	21100/2535.0	18.92	18.5 ±1.0	19.50	1.143
	21350/2560.0	18.96	18.5 ±1.0	19.50	1.132
LTE B7 20MHz 50%RB#0 ANT 4 DSI 1 Power	20850/2510.0	18.91	18.5 ±1.0	19.50	1.146
	21100/2535.0	18.98	18.5 ±1.0	19.50	1.127
	21350/2560.0	19.02	18.5 ±1.0	19.50	1.117
LTE B12 10MHz 1RB#0 ANT 1 Full Power	23060/704.0	24.57	24.0 ±1.0	25.00	1.104
	23095/707.5	24.59	24.0 ±1.0	25.00	1.099
	23130/711.0	24.56	24.0 ±1.0	25.00	1.107
LTE B12 10MHz 50%RB#0 ANT 1 Full Power	23060/704.0	23.57	23.0 ±1.0	24.00	1.104
	23095/707.5	23.58	23.0 ±1.0	24.00	1.102
	23130/711.0	23.59	23.0 ±1.0	24.00	1.099



LTE B12 10MHz 1RB#0 ANT 3 Full Power	23060/704.0	24.37	24.0 ±1.0	25.00	1.156
	23095/707.5	24.35	24.0 ±1.0	25.00	1.161
	23130/711.0	24.35	24.0 ±1.0	25.00	1.161
LTE B12 10MHz 50%RB#0 ANT 3 Full Power	23060/704.0	23.29	22.5 ±1.0	23.50	1.050
	23095/707.5	23.27	22.5 ±1.0	23.50	1.054
	23130/711.0	23.27	22.5 ±1.0	23.50	1.054
LTE B12 10MHz 100%RB#0 ANT 3 Full Power	23060/704.0	23.30	22.5 ±1.0	23.50	1.047
	23095/707.5	23.23	22.5 ±1.0	23.50	1.064
	23130/711.0	23.22	22.5 ±1.0	23.50	1.067
LTE B17 10MHz 1RB#0 ANT 1 Full Power	23780/709.0	24.94	24.5 ±1.0	25.50	1.138
	23790/710.0	25.01	24.5 ±1.0	25.50	1.119
	23800/711.0	24.96	24.5 ±1.0	25.50	1.132
LTE B17 10MHz 50%RB#0 ANT 1 Full Power	23780/709.0	24.00	23.5 ±1.0	24.50	1.122
	23790/710.0	24.02	23.5 ±1.0	24.50	1.117
	23800/711.0	24.00	23.5 ±1.0	24.50	1.122
LTE B17 10MHz 1RB#0 ANT 3 Full Power	23780/709.0	24.34	24.0 ±1.0	25.00	1.164
	23790/710.0	24.30	24.0 ±1.0	25.00	1.175
	23800/711.0	24.33	24.0 ±1.0	25.00	1.167
LTE B17 10MHz 50%RB#0 ANT 3 Full Power	23780/709.0	23.24	22.5 ±1.0	23.50	1.062
	23790/710.0	23.25	22.5 ±1.0	23.50	1.059
	23800/711.0	23.26	22.5 ±1.0	23.50	1.057
LTE B17 10MHz 100%RB#0 ANT 3 Full Power	23780/709.0	23.27	22.5 ±1.0	23.50	1.054
	23790/710.0	23.16	22.5 ±1.0	23.50	1.081
	23800/711.0	23.18	22.5 ±1.0	23.50	1.076
LTE B41 20MHz 1RB#0 ANT 1 Full Power	39750/2506.0	21.35	21.0 ±1.0	22.00	1.161
	40620/2593.0	21.58	21.0 ±1.0	22.00	1.102
	41490/2680.0	21.44	21.0 ±1.0	22.00	1.138
LTE B41 20MHz 50%RB#0 ANT 1 Full Power	39750/2506.0	20.34	20.0 ±1.0	21.00	1.164
	40620/2593.0	20.52	20.0 ±1.0	21.00	1.117
	41490/2680.0	20.32	20.0 ±1.0	21.00	1.169
LTE B41 20MHz 1RB#0 ANT 2 Full Power	39750/2506.0	24.05	23.5 ±1.0	24.50	1.109
	40620/2593.0	24.07	23.5 ±1.0	24.50	1.104
	41490/2680.0	24.05	23.5 ±1.0	24.50	1.109
LTE B41 20MHz 50%RB#0 ANT 2 Full Power	39750/2506.0	23.12	22.5 ±1.0	23.50	1.091
	40620/2593.0	23.05	22.5 ±1.0	23.50	1.109
	41490/2680.0	23.04	22.5 ±1.0	23.50	1.112



LTE B41 20MHz 100%RB#0 ANT 2 Full Power	39750/2506.0	23.09	22.5 ±1.0	23.50	1.099
	40620/2593.0	22.97	22.5 ±1.0	23.50	1.130
	41490/2680.0	22.93	22.5 ±1.0	23.50	1.140
LTE B41 20MHz 1RB#0 ANT 4 Full Power	39750/2506.0	23.41	23.0 ±1.0	24.00	1.146
	40620/2593.0	23.66	23.0 ±1.0	24.00	1.081
	41490/2680.0	23.61	23.0 ±1.0	24.00	1.094
LTE B41 20MHz 50%RB#0 ANT 4 Full Power	39750/2506.0	22.34	22.0 ±1.0	23.00	1.164
	40620/2593.0	22.41	22.0 ±1.0	23.00	1.146
	41490/2680.0	22.43	22.0 ±1.0	23.00	1.140
WIFI 2.4G 802.11b ANT 7	1/2412.0	15.34	15.0 ±1.0	16.00	1.164
	6/2437.0	15.39	15.0 ±1.0	16.00	1.151
	11/2462.0	15.47	15.0 ±1.0	16.00	1.130
WIFI 2.4G 802.11g ANT 9	1/2412.0	15.65	15.0 ±1.0	16.00	1.084
	6/2437.0	15.94	15.5 ±1.0	16.50	1.138
	11/2462.0	15.66	15.0 ±1.0	16.00	1.081
WIFI 2.4G MIMO 802.11n20 ANT 7	1/2412.0	13.69	13.0 ±1.0	14.00	1.074
	6/2437.0	13.87	13.5 ±1.0	14.50	1.156
	11/2462.0	13.61	13.0 ±1.0	14.00	1.094
Wi-Fi U-NII-1 802.11a ANT 9	36/5180.0	15.34	15.0 ±1.0	16.00	1.164
	44/5220.0	15.38	15.0 ±1.0	16.00	1.153
	48/5240.0	15.29	15.0 ±1.0	16.00	1.178
Wi-Fi U-NII-1 802.11a ANT 10	36/5180.0	13.28	12.5 ±1.0	13.50	1.052
	44/5220.0	13.30	12.5 ±1.0	13.50	1.047
	48/5240.0	13.41	12.5 ±1.0	13.50	1.021
Wi-Fi U-NII-1 MIMO 802.11ac20 ANT 9+10	36/5180.0	14.83	14.5 ±1.0	15.50	1.167
	44/5220.0	14.89	14.5 ±1.0	15.50	1.151
	48/5240.0	14.97	14.5 ±1.0	15.50	1.130
Wi-Fi U-NII-2a 802.11a ANT 9	52/5260.0	15.20	14.5 ±1.0	15.50	1.072
	60/5300.0	15.27	15.0 ±1.0	16.00	1.183
	64/5320.0	14.98	14.5 ±1.0	15.50	1.127
Wi-Fi U-NII-2a 802.11a ANT 10	52/5260.0	13.37	12.5 ±1.0	13.50	1.030
	60/5300.0	13.19	12.5 ±1.0	13.50	1.074
	64/5320.0	13.18	12.5 ±1.0	13.50	1.076
Wi-Fi U-NII-2a MIMO 802.11n20 ANT 9+10	52/5260.0	14.85	14.5 ±1.0	15.50	1.161
	60/5300.0	14.73	14.0 ±1.0	15.00	1.064
	64/5320.0	14.49	14.0 ±1.0	15.00	1.125



Wi-Fi U-NII-2c 802.11a ANT 9	100/5500.0	15.16	14.5 ±1.0	15.50	1.081
	120/5600.0	15.47	15.0 ±1.0	16.00	1.130
	140/5700.0	15.56	15.0 ±1.0	16.00	1.107
Wi-Fi U-NII-2c 802.11a ANT 10	100/5500.0	12.91	12.5 ±1.0	13.50	1.146
	120/5600.0	13.14	12.5 ±1.0	13.50	1.086
	140/5700.0	13.07	12.5 ±1.0	13.50	1.104
Wi-Fi U-NII-2c MIMO 802.11n20 ANT 9+10	100/5500.0	14.55	14.0 ±1.0	15.00	1.109
	120/5600.0	14.74	14.0 ±1.0	15.00	1.062
	140/5700.0	14.90	14.5 ±1.0	15.50	1.148
Wi-Fi U-NII-3 802.11a ANT 9	149/5745.0	15.83	15.5 ±1.0	16.50	1.167
	157/5785.0	15.75	15.0 ±1.0	16.00	1.059
	165/5825.0	15.60	15.0 ±1.0	16.00	1.096
Wi-Fi U-NII-3 802.11a ANT 10	149/5745.0	12.65	12.0 ±1.0	13.00	1.084
	157/5785.0	12.64	12.0 ±1.0	13.00	1.086
	165/5825.0	12.92	12.5 ±1.0	13.50	1.143
Wi-Fi U-NII-3 MIMO 802.11n20 ANT 9+10	149/5745.0	14.86	14.5 ±1.0	15.50	1.159
	157/5785.0	14.73	14.0 ±1.0	15.00	1.064
	165/5825.0	14.67	14.0 ±1.0	15.00	1.079
BLE(2M) ANT 7	0/2402.0	14.01	13.5 ±1.0	14.50	1.119
	19/2440.0	13.77	13.5 ±1.0	14.50	1.183
	39/2480.0	13.50	13.0 ±1.0	14.00	1.122
BLE(2M) ANT 9	0/2402.0	14.99	14.5 ±1.0	15.50	1.125
	39/2441.0	15.57	15.0 ±1.0	16.00	1.104
	78/2480.0	14.66	14.0 ±1.0	15.00	1.081

Note: for LTE power tolerance, only QPSK modulation mode was provide here.



11. Test Results

Results overview of GSM850

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1								
Right Cheek	190/836.6	Voice	0.095	2.12	1.086	0.103	1.6	/
Right Tilted	190/836.6	Voice	0.056	-1.84	1.086	0.061	1.6	/
Left Cheek	190/836.6	Voice	0.072	-0.80	1.086	0.078	1.6	/
Left Tilted	190/836.6	Voice	0.040	-1.38	1.086	0.043	1.6	/
Right Cheek	128/824.2	Voice	0.086	-0.61	1.119	0.096	1.6	/
Right Cheek	251/848.8	Voice	0.091	-2.03	1.064	0.097	1.6	/
ANT 3								
Right Cheek	190/836.6	Voice	0.320	-0.84	1.130	0.362	1.6	/
Right Tilted	190/836.6	Voice	0.105	-0.30	1.130	0.119	1.6	/
Left Cheek	190/836.6	Voice	0.615	-1.54	1.130	0.695	1.6	/
Left Tilted	190/836.6	Voice	0.193	0.36	1.130	0.218	1.6	/
Left Cheek	128/824.2	Voice	0.686	1.12	1.107	0.759	1.6	1
Left Cheek	251/848.8	Voice	0.562	-0.68	1.172	0.659	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1								
Front Upward	190/836.6	GPRS 2Tx	0.159	0.75	1.094	0.174	1.6	/
Back Upward	190/836.6	GPRS 2Tx	0.102	-2.42	1.094	0.112	1.6	/
Front Upward	128/824.2	GPRS 2Tx	0.172	-0.37	1.138	0.196	1.6	/
Front Upward	251/848.8	GPRS 2Tx	0.184	1.79	1.117	0.206	1.6	/
ANT 3								
Front Upward	190/836.6	GPRS 2Tx	0.215	-0.40	1.104	0.237	1.6	/
Back Upward	190/836.6	GPRS 2Tx	0.242	-1.83	1.104	0.267	1.6	/
Back Upward	128/824.2	GPRS 2Tx	0.296	1.20	1.125	0.333	1.6	2
Back Upward	251/848.8	GPRS 2Tx	0.255	-2.68	1.059	0.270	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.



ANT 1								
Front Upward	190/836.6	GPRS 2Tx	0.227	-0.98	1.094	0.248	1.6	/
Back Upward	190/836.6	GPRS 2Tx	0.203	2.02	1.094	0.222	1.6	/
Right	190/836.6	GPRS 2Tx	0.279	-3.14	1.094	0.305	1.6	/
Bottom	190/836.6	GPRS 2Tx	0.115	1.00	1.094	0.126	1.6	/
Right	128/824.2	GPRS 2Tx	0.306	1.58	1.138	0.348	1.6	/
Right	251/848.8	GPRS 2Tx	0.345	-3.02	1.117	0.385	1.6	/
ANT 3								
Front Upward	190/836.6	GPRS 2Tx	0.404	0.53	1.104	0.446	1.6	/
Back Upward	190/836.6	GPRS 2Tx	0.388	-2.95	1.104	0.428	1.6	/
Left	190/836.6	GPRS 2Tx	0.716	-1.34	1.104	0.790	1.6	/
Left	128/824.2	GPRS 2Tx	0.784	1.77	1.125	0.882	1.6	3
Left	251/848.8	GPRS 2Tx	0.739	-0.86	1.059	0.783	1.6	/



Results overview of GSM1900

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2 Full power								
Right Cheek	661/1880.0	Voice	0.067	1.54	1.125	0.075	1.6	/
Right Tilted	661/1880.0	Voice	0.029	-0.96	1.125	0.033	1.6	/
Left Cheek	661/1880.0	Voice	0.082	-2.30	1.125	0.092	1.6	/
Left Tilted	661/1880.0	Voice	0.036	-0.52	1.125	0.041	1.6	/
Left Cheek	512/1850.2	Voice	0.075	-1.34	1.102	0.083	1.6	/
Left Cheek	810/1909.8	Voice	0.087	0.38	1.186	0.103	1.6	/
ANT 4 Full power								
Right Cheek	661/1880.0	Voice	0.724	-2.86	1.091	0.790	1.6	/
Right Tilted	661/1880.0	Voice	0.198	-1.53	1.091	0.216	1.6	/
Left Cheek	661/1880.0	Voice	0.468	-2.28	1.091	0.511	1.6	/
Left Tilted	661/1880.0	Voice	0.103	-1.74	1.091	0.112	1.6	/
Right Cheek	512/1850.2	Voice	0.789	-0.19	1.076	0.849	1.6	4
Right Cheek	810/1909.8	Voice	0.663	0.58	1.161	0.770	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2 Full power								
Front Upward	661/1880.0	GPRS 2Tx	0.181	-2.22	1.067	0.193	1.6	/
Back Upward	661/1880.0	GPRS 2Tx	0.205	-0.91	1.067	0.219	1.6	5
Back Upward	512/1850.2	GPRS 2Tx	0.198	1.26	1.099	0.218	1.6	/
Back Upward	810/1909.8	GPRS 2Tx	0.176	0.10	1.086	0.191	1.6	/
ANT 4 Full power								
Front Upward	661/1880.0	GPRS 2Tx	0.104	1.44	1.067	0.111	1.6	/
Back Upward	661/1880.0	GPRS 2Tx	0.118	1.20	1.067	0.126	1.6	/
Back Upward	512/1850.2	GPRS 2Tx	0.129	-1.43	1.151	0.148	1.6	/
Back Upward	810/1909.8	GPRS 2Tx	0.113	-3.01	1.084	0.122	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2 Full power								
Front Upward	661/1880.0	GPRS 2Tx	0.362	-0.57	1.067	0.386	1.6	/



Back Upward	661/1880.0	GPRS 2Tx	0.351	-0.52	1.067	0.375	1.6	/
Left	661/1880.0	GPRS 2Tx	0.155	0.47	1.067	0.165	1.6	/
Bottom	661/1880.0	GPRS 2Tx	0.516	2.15	1.067	0.551	1.6	6
Bottom	512/1850.2	GPRS 2Tx	0.456	-3.20	1.099	0.501	1.6	/
Bottom	810/1909.8	GPRS 2Tx	0.477	2.08	1.086	0.518	1.6	/
ANT 4 Full power								
Front Upward	661/1880.0	GPRS 2Tx	0.146	1.18	1.067	0.156	1.6	/
Back Upward	661/1880.0	GPRS 2Tx	0.140	-2.80	1.067	0.149	1.6	/
Left	661/1880.0	GPRS 2Tx	0.245	0.31	1.067	0.261	1.6	/
Left	512/1850.2	GPRS 2Tx	0.273	-2.63	1.151	0.314	1.6	/
Left	810/1909.8	GPRS 2Tx	0.222	3.21	1.084	0.241	1.6	/



Results overview of CDMA BC 0

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1 Full power								
Right Cheek	384/836.52	RC3 + SO32 (+F-SCH)	0.142	-0.64	1.135	0.161	1.6	/
Right Tilted	384/836.52	RC3 + SO32 (+F-SCH)	0.084	0.62	1.135	0.095	1.6	/
Left Cheek	384/836.52	RC3 + SO32 (+F-SCH)	0.100	-2.36	1.135	0.114	1.6	/
Left Tilted	384/836.52	RC3 + SO32 (+F-SCH)	0.071	-1.13	1.135	0.081	1.6	/
Right Cheek	1013/826.7	RC3 + SO32 (+F-SCH)	0.140	-0.98	1.127	0.158	1.6	/
Right Cheek	777/848.31	RC3 + SO32 (+F-SCH)	0.148	-0.27	1.104	0.163	1.6	/
ANT 3 Full power								
Right Cheek	384/836.52	RC3 + SO32 (+F-SCH)	0.272	1.14	1.183	0.322	1.6	/
Right Tilted	384/836.52	RC3 + SO32 (+F-SCH)	0.095	-2.01	1.183	0.112	1.6	/
Left Cheek	384/836.52	RC3 + SO32 (+F-SCH)	0.573	-2.49	1.183	0.678	1.6	/
Left Tilted	384/836.52	RC3 + SO32 (+F-SCH)	0.139	0.54	1.183	0.164	1.6	/
Left Cheek	1013/826.7	RC3 + SO32 (+F-SCH)	0.623	1.13	1.153	0.718	1.6	7
Left Cheek	777/848.31	RC3 + SO32 (+F-SCH)	0.534	0.62	1.156	0.617	1.6	/
Body-worn (15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1 Full power								
Front Upward	384/836.52	RC3 + SO32 (+F-SCH)	0.183	-0.37	1.135	0.208	1.6	/
Back Upward	384/836.52	RC3 + SO32 (+F-SCH)	0.159	1.51	1.135	0.180	1.6	/
Front Upward	1013/826.7	RC3 + SO32 (+F-SCH)	0.180	-2.81	1.127	0.203	1.6	/
Front Upward	777/848.31	RC3 + SO32 (+F-SCH)	0.178	-1.32	1.104	0.197	1.6	/



ANT 3 Full power								
Hotspot (10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	384/836.52	RC3 + SO32 (+F-SCH)	0.386	-1.63	1.183	0.457	1.6	/
Back Upward	384/836.52	RC3 + SO32 (+F-SCH)	0.414	1.28	1.183	0.490	1.6	/
Back Upward	1013/826.7	RC3 + SO32 (+F-SCH)	0.445	1.21	1.153	0.513	1.6	8
Back Upward	777/848.31	RC3 + SO32 (+F-SCH)	0.368	0.67	1.156	0.425	1.6	/
ANT 1 Full power								
Front Upward	384/836.52	RC3 + SO32 (+F-SCH)	0.290	0.46	1.135	0.329	1.6	/
Back Upward	384/836.52	RC3 + SO32 (+F-SCH)	0.259	-1.21	1.135	0.294	1.6	/
Right	384/836.52	RC3 + SO32 (+F-SCH)	0.346	-1.24	1.135	0.393	1.6	/
Bottom	384/836.52	RC3 + SO32 (+F-SCH)	0.147	2.01	1.135	0.167	1.6	/
Right	1013/826.7	RC3 + SO32 (+F-SCH)	0.322	-1.84	1.127	0.363	1.6	/
Right	777/848.31	RC3 + SO32 (+F-SCH)	0.360	-0.37	1.104	0.397	1.6	/
ANT 3 Full power								
Front Upward	384/836.52	RC3 + SO32 (+F-SCH)	0.531	0.77	1.183	0.628	1.6	/
Back Upward	384/836.52	RC3 + SO32 (+F-SCH)	0.497	-1.06	1.183	0.588	1.6	/
Left	384/836.52	RC3 + SO32 (+F-SCH)	0.694	-0.60	1.183	0.821	1.6	9
Left	1013/826.7	RC3 + SO32 (+F-SCH)	0.652	0.89	1.153	0.752	1.6	/
Left	777/848.31	RC3 + SO32 (+F-SCH)	0.626	1.49	1.156	0.724	1.6	/



Results overview of WCDMA850

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1 Full power								
Right Cheek	4183/836.6	RMC	0.155	-3.14	1.069	0.166	1.6	/
Right Tilted	4183/836.6	RMC	0.092	-1.41	1.069	0.098	1.6	/
Left Cheek	4183/836.6	RMC	0.108	-2.30	1.069	0.115	1.6	/
Left Tilted	4183/836.6	RMC	0.078	-0.16	1.069	0.083	1.6	/
Right Cheek	4132/826.4	RMC	0.124	0.58	1.059	0.131	1.6	/
Right Cheek	4233/846.6	RMC	0.143	-1.82	1.064	0.152	1.6	/
ANT 3 Full power								
Right Cheek	4183/836.6	RMC	0.356	-2.42	1.076	0.383	1.6	/
Right Tilted	4183/836.6	RMC	0.114	-0.47	1.076	0.123	1.6	/
Left Cheek	4183/836.6	RMC	0.683	-0.73	1.076	0.735	1.6	/
Left Tilted	4183/836.6	RMC	0.172	-1.46	1.076	0.185	1.6	/
Left Cheek	4132/826.4	RMC	0.625	-1.71	1.086	0.679	1.6	/
Left Cheek	4233/846.6	RMC	0.709	1.28	1.052	0.746	1.6	10
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1 Full power								
Front Upward	4183/836.6	RMC	0.195	1.07	1.069	0.208	1.6	/
Back Upward	4183/836.6	RMC	0.166	-0.51	1.069	0.177	1.6	/
Front Upward	4132/826.4	RMC	0.170	-2.81	1.059	0.180	1.6	/
Front Upward	4233/846.6	RMC	0.183	1.32	1.064	0.195	1.6	/
ANT 3 Full power								
Front Upward	4183/836.6	RMC	0.435	-1.54	1.076	0.468	1.6	/
Back Upward	4183/836.6	RMC	0.462	-0.57	1.076	0.497	1.6	/
Back Upward	4132/826.4	RMC	0.410	-1.78	1.086	0.445	1.6	/
Back Upward	4233/846.6	RMC	0.497	0.26	1.052	0.523	1.6	11
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1 Full power								
Front Upward	4183/836.6	RMC	0.309	4.32	1.069	0.330	1.6	/



Back Upward	4183/836.6	RMC	0.276	-4.28	1.069	0.295	1.6	/
Right	4183/836.6	RMC	0.365	4.46	1.069	0.390	1.6	/
Bottom	4183/836.6	RMC	0.157	1.78	1.069	0.168	1.6	/
Right	4132/826.4	RMC	0.357	-3.70	1.059	0.378	1.6	/
Right	4233/846.6	RMC	0.332	2.95	1.064	0.353	1.6	/
ANT 3 Full power								
Front Upward	4183/836.6	RMC	0.642	-0.22	1.076	0.691	1.6	/
Back Upward	4183/836.6	RMC	0.616	-0.17	1.076	0.663	1.6	/
Left	4183/836.6	RMC	0.931	0.46	1.076	1.002	1.6	/
Left	4132/826.4	RMC	0.967	-1.68	1.086	1.050	1.6	/
Left	4233/846.6	RMC	1.048	-0.32	1.052	1.102	1.6	12



Results overview of WCDMA1700

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2 Full power								
Right Cheek	1412/1732.4	RMC	0.141	-3.97	1.040	0.147	1.6	/
Right Tilted	1412/1732.4	RMC	0.060	-1.46	1.040	0.062	1.6	/
Left Cheek	1412/1732.4	RMC	0.171	0.51	1.040	0.178	1.6	/
Left Tilted	1412/1732.4	RMC	0.076	-2.06	1.040	0.079	1.6	/
Left Cheek	1312/1712.4	RMC	0.183	-1.51	1.167	0.214	1.6	/
Left Cheek	1513/1752.6	RMC	0.152	1.65	1.052	0.160	1.6	/
ANT 4 DSI 1 power								
Right Cheek	1412/1732.4	RMC	0.722	0.68	1.102	0.796	1.6	/
Right Tilted	1412/1732.4	RMC	0.161	-2.42	1.102	0.177	1.6	/
Left Cheek	1412/1732.4	RMC	0.424	-0.57	1.102	0.467	1.6	/
Left Tilted	1412/1732.4	RMC	0.093	-1.50	1.102	0.102	1.6	/
Right Cheek	1312/1712.4	RMC	0.790	0.86	1.132	0.894	1.6	13
Right Cheek	1513/1752.6	RMC	0.762	-3.60	1.091	0.831	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2 Full power								
Front Upward	1412/1732.4	RMC	0.422	1.47	1.040	0.439	1.6	/
Back Upward	1412/1732.4	RMC	0.462	-0.42	1.040	0.480	1.6	/
Back Upward	1312/1712.4	RMC	0.478	-2.68	1.167	0.558	1.6	14
Back Upward	1513/1752.6	RMC	0.412	-0.29	1.052	0.433	1.6	/
ANT 4 Full power								
Front Upward	1412/1732.4	RMC	0.149	0.92	1.076	0.160	1.6	/
Back Upward	1412/1732.4	RMC	0.183	-2.89	1.076	0.197	1.6	/
Back Upward	1312/1712.4	RMC	0.214	-0.27	1.062	0.227	1.6	/
Back Upward	1513/1752.6	RMC	0.196	-1.45	1.091	0.214	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2 DSI 2 power								
Front Upward	1412/1732.4	RMC	0.501	0.18	1.130	0.566	1.6	/



Back Upward	1412/1732.4	RMC	0.486	-3.23	1.130	0.549	1.6	/
Left	1412/1732.4	RMC	0.214	0.50	1.130	0.242	1.6	/
Bottom	1412/1732.4	RMC	0.717	0.71	1.130	0.810	1.6	15
Bottom	1312/1712.4	RMC	0.683	-2.16	1.159	0.792	1.6	/
Bottom	1513/1752.6	RMC	0.629	1.19	1.169	0.735	1.6	/
ANT 4 Full power								
Front Upward	1412/1732.4	RMC	0.351	-0.38	1.076	0.378	1.6	/
Back Upward	1412/1732.4	RMC	0.337	-0.80	1.076	0.363	1.6	/
Left	1412/1732.4	RMC	0.644	-2.52	1.076	0.693	1.6	/
Top	1412/1732.4	RMC	0.110	1.15	1.076	0.118	1.6	/
Left	1312/1712.4	RMC	0.600	-0.91	1.062	0.637	1.6	/
Left	1513/1752.6	RMC	0.543	0.35	1.091	0.592	1.6	/



Results overview of WCDMA1900

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2 Full power								
Right Cheek	9400/1880.0	RMC	0.152	1.79	1.153	0.175	1.6	/
Right Tilted	9400/1880.0	RMC	0.065	-0.27	1.153	0.075	1.6	/
Left Cheek	9400/1880.0	RMC	0.198	-2.50	1.153	0.228	1.6	/
Left Tilted	9400/1880.0	RMC	0.082	-3.46	1.153	0.095	1.6	/
Left Cheek	9262/1852.4	RMC	0.226	-2.21	1.059	0.239	1.6	/
Left Cheek	9538/1907.6	RMC	0.173	-1.42	1.156	0.200	1.6	/
ANT 4 DSI 1 power								
Right Cheek	9400/1880.0	RMC	0.697	-1.19	1.156	0.806	1.6	16
Right Tilted	9400/1880.0	RMC	0.142	-0.14	1.156	0.164	1.6	/
Left Cheek	9400/1880.0	RMC	0.377	-2.76	1.156	0.436	1.6	/
Left Tilted	9400/1880.0	RMC	0.082	0.23	1.156	0.095	1.6	/
Right Cheek	9262/1852.4	RMC	0.639	-1.22	1.169	0.747	1.6	/
Right Cheek	9538/1907.6	RMC	0.669	0.18	1.191	0.797	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2 Full power								
Front Upward	9400/1880.0	RMC	0.441	1.26	1.153	0.508	1.6	/
Back Upward	9400/1880.0	RMC	0.500	2.15	1.153	0.577	1.6	/
Back Upward	9262/1852.4	RMC	0.533	-1.66	1.059	0.564	1.6	17
Back Upward	9538/1907.6	RMC	0.452	1.94	1.156	0.523	1.6	/
ANT 4 Full power								
Front Upward	9400/1880.0	RMC	0.181	0.64	1.086	0.197	1.6	/
Back Upward	9400/1880.0	RMC	0.221	1.08	1.086	0.240	1.6	/
Back Upward	9262/1852.4	RMC	0.199	3.85	1.102	0.219	1.6	/
Back Upward	9538/1907.6	RMC	0.196	-2.18	1.102	0.216	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2 DSI 2 power								
Front Upward	9400/1880.0	RMC	0.460	-0.58	1.074	0.494	1.6	/



Back Upward	9400/1880.0	RMC	0.447	0.60	1.074	0.480	1.6	/
Left	9400/1880.0	RMC	0.198	-1.78	1.074	0.213	1.6	/
Bottom	9400/1880.0	RMC	0.692	1.31	1.074	0.743	1.6	18
Bottom	9262/1852.4	RMC	0.573	0.13	1.062	0.609	1.6	/
Bottom	9538/1907.6	RMC	0.608	-0.74	1.167	0.710	1.6	/
ANT 4 Full power								
Front Upward	9400/1880.0	RMC	0.335	-1.79	1.086	0.364	1.6	/
Back Upward	9400/1880.0	RMC	0.321	-2.80	1.086	0.349	1.6	/
Left	9400/1880.0	RMC	0.615	-0.07	1.086	0.668	1.6	/
Top	9400/1880.0	RMC	0.105	-0.90	1.086	0.114	1.6	/
Left	9262/1852.4	RMC	0.572	1.95	1.102	0.630	1.6	/
Left	9538/1907.6	RMC	0.522	-2.53	1.102	0.575	1.6	/



Results overview of FDD LTE Band 2, QPSK, 20MHz Bandwidth

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2/1RB#0 Full power								
Right Cheek	18900/1880.0	QPSK	0.140	-1.20	1.167	0.163	1.6	/
Right Tilted	18900/1880.0	QPSK	0.060	0.65	1.167	0.070	1.6	/
Left Cheek	18900/1880.0	QPSK	0.198	-1.26	1.167	0.231	1.6	/
Left Tilted	18900/1880.0	QPSK	0.075	0.24	1.167	0.088	1.6	/
Left Cheek	18700/1860.0	QPSK	0.180	-0.78	1.151	0.207	1.6	/
Left Cheek	19100/1900.0	QPSK	0.154	-1.91	1.135	0.175	1.6	/
ANT 2/50%RB#0 Full power								
Right Cheek	18900/1880.0	QPSK	0.123	-0.38	1.164	0.143	1.6	/
Right Tilted	18900/1880.0	QPSK	0.053	-1.61	1.164	0.062	1.6	/
Left Cheek	18900/1880.0	QPSK	0.158	-2.39	1.164	0.184	1.6	/
Left Tilted	18900/1880.0	QPSK	0.066	-0.34	1.164	0.077	1.6	/
ANT 4/1RB#0 DSI 1 power								
Right Cheek	18900/1880.0	QPSK	0.657	0.30	1.069	0.702	1.6	/
Right Tilted	18900/1880.0	QPSK	0.146	3.73	1.069	0.156	1.6	/
Left Cheek	18900/1880.0	QPSK	0.387	-1.25	1.069	0.414	1.6	/
Left Tilted	18900/1880.0	QPSK	0.085	-0.16	1.069	0.091	1.6	/
Right Cheek	18700/1860.0	QPSK	0.717	-0.79	1.099	0.788	1.6	19
Right Cheek	19100/1900.0	QPSK	0.681	-1.58	1.064	0.725	1.6	/
ANT 4/50%RB#0 DSI 1 power								
Right Cheek	18900/1880.0	QPSK	0.551	-0.76	1.074	0.592	1.6	/
Right Tilted	18900/1880.0	QPSK	0.112	0.43	1.074	0.120	1.6	/
Left Cheek	18900/1880.0	QPSK	0.300	-2.14	1.074	0.322	1.6	/
Left Tilted	18900/1880.0	QPSK	0.065	-0.18	1.074	0.070	1.6	/
ANT 4/100%RB#0 DSI 1 power								
Right Cheek	18900/1880.0	QPSK	0.485	-2.05	1.064	0.516	1.6	/
Right Tilted	18900/1880.0	QPSK	0.099	-0.13	1.064	0.105	1.6	/
Left Cheek	18900/1880.0	QPSK	0.264	-1.01	1.064	0.281	1.6	/
Left Tilted	18900/1880.0	QPSK	0.058	1.20	1.064	0.062	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2/1RB#0 Full power								
Front Upward	18900/1880.0	QPSK	0.516	-1.39	1.167	0.602	1.6	/
Back Upward	18900/1880.0	QPSK	0.519	-0.36	1.167	0.606	1.6	/
Back Upward	18700/1860.0	QPSK	0.559	0.70	1.151	0.643	1.6	20
Back Upward	19100/1900.0	QPSK	0.442	-0.85	1.135	0.502	1.6	/
ANT 2/50%RB#0 Full power								
Front Upward	18900/1880.0	QPSK	0.356	-2.02	1.164	0.414	1.6	/
Back Upward	18900/1880.0	QPSK	0.358	-2.63	1.164	0.417	1.6	/



ANT 4/1RB#0 Full power								
Front Upward	18900/1880.0	QPSK	0.154	0.85	1.102	0.170	1.6	/
Back Upward	18900/1880.0	QPSK	0.189	-2.43	1.102	0.208	1.6	/
Back Upward	18700/1860.0	QPSK	0.172	2.40	1.151	0.198	1.6	/
Back Upward	19100/1900.0	QPSK	0.166	-1.48	1.117	0.185	1.6	/
ANT 4/50%RB#0 Full power								
Front Upward	18900/1880.0	QPSK	0.111	-2.62	1.091	0.121	1.6	/
Back Upward	18900/1880.0	QPSK	0.136	0.16	1.091	0.148	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2/1RB#0 DSI 2 power								
Front Upward	18900/1880.0	QPSK	0.507	-2.20	1.132	0.574	1.6	/
Back Upward	18900/1880.0	QPSK	0.492	-0.70	1.132	0.557	1.6	/
Left	18900/1880.0	QPSK	0.217	-1.12	1.132	0.246	1.6	/
Bottom	18900/1880.0	QPSK	0.724	-1.22	1.132	0.820	1.6	/
Bottom	18700/1860.0	QPSK	0.793	-0.60	1.186	0.940	1.6	21
Bottom	19100/1900.0	QPSK	0.682	-0.28	1.151	0.785	1.6	/
ANT 2/50%RB#0 DSI 2 power								
Front Upward	18900/1880.0	QPSK	0.336	-0.25	1.132	0.380	1.6	/
Back Upward	18900/1880.0	QPSK	0.326	-2.95	1.132	0.369	1.6	/
Left	18900/1880.0	QPSK	0.143	1.37	1.132	0.162	1.6	/
Bottom	18900/1880.0	QPSK	0.575	0.42	1.132	0.651	1.6	/
ANT 2/100%RB#0 DSI 2 power								
Front Upward	18900/1880.0	QPSK	0.308	-2.22	1.130	0.348	1.6	/
Back Upward	18900/1880.0	QPSK	0.299	0.88	1.130	0.338	1.6	/
Left	18900/1880.0	QPSK	0.130	4.55	1.130	0.147	1.6	/
Bottom	18900/1880.0	QPSK	0.536	2.83	1.130	0.606	1.6	/
ANT 4/1RB#0 Full power								
Front Upward	18900/1880.0	QPSK	0.324	-0.12	1.102	0.357	1.6	/
Back Upward	18900/1880.0	QPSK	0.311	-0.77	1.102	0.343	1.6	/
Left	18900/1880.0	QPSK	0.598	-1.12	1.102	0.659	1.6	/
Top	18900/1880.0	QPSK	0.102	-0.22	1.102	0.112	1.6	/
Left	18700/1860.0	QPSK	0.552	-0.60	1.151	0.635	1.6	/
Left	19100/1900.0	QPSK	0.497	-0.28	1.117	0.555	1.6	/
ANT 4/50%RB#0 Full power								
Front Upward	18900/1880.0	QPSK	0.251	-1.80	1.091	0.274	1.6	/
Back Upward	18900/1880.0	QPSK	0.241	-0.30	1.091	0.263	1.6	/
Left	18900/1880.0	QPSK	0.469	-4.58	1.091	0.512	1.6	/
Top	18900/1880.0	QPSK	0.080	-3.62	1.091	0.087	1.6	/
ANT 4/100%RB#0 Full power								
Front Upward	18900/1880.0	QPSK	0.221	-1.63	1.104	0.244	1.6	/
Back Upward	18900/1880.0	QPSK	0.212	0.25	1.104	0.234	1.6	/
Left	18900/1880.0	QPSK	0.412	0.72	1.104	0.455	1.6	/



Top	18900/1880.0	QPSK	0.070	-1.21	1.104	0.077	1.6	/
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Results overview of FDD LTE Band 4, QPSK, 20MHz Bandwidth

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2/1RB#0 Full power								
Right Cheek	20175/1732.5	QPSK	0.115	0.84	1.086	0.125	1.6	/
Right Tilted	20175/1732.5	QPSK	0.049	-0.69	1.086	0.053	1.6	/
Left Cheek	20175/1732.5	QPSK	0.148	-1.83	1.086	0.161	1.6	/
Left Tilted	20175/1732.5	QPSK	0.061	-0.79	1.086	0.066	1.6	/
Left Cheek	20050/1720.0	QPSK	0.159	-2.51	1.091	0.173	1.6	/
Left Cheek	20300/1745.0	QPSK	0.156	1.90	1.099	0.171	1.6	/
ANT 2/50%RB#0 Full power								
Right Cheek	20175/1732.5	QPSK	0.082	-4.69	1.086	0.089	1.6	/
Right Tilted	20175/1732.5	QPSK	0.035	-0.25	1.086	0.038	1.6	/
Left Cheek	20175/1732.5	QPSK	0.106	-2.51	1.086	0.115	1.6	/
Left Tilted	20175/1732.5	QPSK	0.043	2.16	1.086	0.047	1.6	/
ANT 4/1RB#0 DSI 1 power								
Right Cheek	20175/1732.5	QPSK	0.672	0.76	1.091	0.733	1.6	22
Right Tilted	20175/1732.5	QPSK	0.137	4.34	1.091	0.149	1.6	/
Left Cheek	20175/1732.5	QPSK	0.359	3.44	1.091	0.392	1.6	/
Left Tilted	20175/1732.5	QPSK	0.080	-1.34	1.091	0.087	1.6	/
Right Cheek	20050/1720.0	QPSK	0.610	2.60	1.094	0.667	1.6	/
Right Cheek	20300/1745.0	QPSK	0.644	-4.72	1.099	0.708	1.6	/
ANT 4/50%RB#0 DSI 1 power								
Right Cheek	20175/1732.5	QPSK	0.510	1.82	1.104	0.563	1.6	/
Right Tilted	20175/1732.5	QPSK	0.104	-2.55	1.104	0.115	1.6	/
Left Cheek	20175/1732.5	QPSK	0.271	2.01	1.104	0.299	1.6	/
Left Tilted	20175/1732.5	QPSK	0.061	-1.15	1.104	0.067	1.6	/
ANT 4/100%RB#0 DSI 1 power								
Right Cheek	20175/1732.5	QPSK	0.448	0.53	1.114	0.499	1.6	/
Right Tilted	20175/1732.5	QPSK	0.087	-1.68	1.114	0.097	1.6	/
Left Cheek	20175/1732.5	QPSK	0.222	-0.13	1.114	0.247	1.6	/
Left Tilted	20175/1732.5	QPSK	0.055	1.07	1.114	0.061	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2/1RB#0 Full power								
Front Upward	20175/1732.5	QPSK	0.462	-1.37	1.086	0.502	1.6	/
Back Upward	20175/1732.5	QPSK	0.483	1.31	1.086	0.525	1.6	/
Back Upward	20050/1720.0	QPSK	0.458	-3.58	1.091	0.500	1.6	/
Back Upward	20300/1745.0	QPSK	0.510	-0.85	1.099	0.560	1.6	23
ANT 2/50%RB#0 Full power								
Front Upward	20175/1732.5	QPSK	0.329	2.67	1.086	0.357	1.6	/
Back Upward	20175/1732.5	QPSK	0.344	-1.83	1.086	0.374	1.6	/



ANT 4/1RB#0 Full power								
Front Upward	20175/1732.5	QPSK	0.158	-0.03	1.153	0.182	1.6	/
Back Upward	20175/1732.5	QPSK	0.192	-2.45	1.153	0.221	1.6	/
Back Upward	20050/1720.0	QPSK	0.174	0.70	1.138	0.198	1.6	/
Back Upward	20300/1745.0	QPSK	0.169	1.73	1.159	0.196	1.6	/
ANT 4/50%RB#0 Full power								
Front Upward	20175/1732.5	QPSK	0.116	-1.34	1.151	0.134	1.6	/
Back Upward	20175/1732.5	QPSK	0.143	-3.27	1.151	0.165	1.6	/
ANT 4/100%RB#0 Full power								
Front Upward	20175/1732.5	QPSK	0.102	-0.39	1.156	0.118	1.6	/
Back Upward	20175/1732.5	QPSK	0.120	-1.74	1.156	0.139	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2/1RB#0 DSI 2 Power								
Front Upward	20175/1732.5	QPSK	0.518	-1.63	1.064	0.551	1.6	/
Back Upward	20175/1732.5	QPSK	0.502	-2.99	1.064	0.534	1.6	/
Left	20175/1732.5	QPSK	0.220	-2.10	1.064	0.234	1.6	/
Bottom	20175/1732.5	QPSK	0.737	-3.62	1.064	0.784	1.6	/
Bottom	20050/1720.0	QPSK	0.741	0.28	1.109	0.822	1.6	/
Bottom	20300/1745.0	QPSK	0.793	-1.44	1.067	0.846	1.6	24
ANT 2/50%RB#0 DSI 2 Power								
Front Upward	20175/1732.5	QPSK	0.388	-0.42	1.079	0.419	1.6	/
Back Upward	20175/1732.5	QPSK	0.367	-1.46	1.079	0.396	1.6	/
Left	20175/1732.5	QPSK	0.153	-1.98	1.079	0.165	1.6	/
Bottom	20175/1732.5	QPSK	0.564	-3.12	1.079	0.609	1.6	/
ANT 2/100%RB#0 DSI 2 Power								
Front Upward	20175/1732.5	QPSK	0.346	3.55	1.099	0.380	1.6	/
Back Upward	20175/1732.5	QPSK	0.328	-0.27	1.099	0.360	1.6	/
Left	20175/1732.5	QPSK	0.142	1.81	1.099	0.156	1.6	/
Bottom	20175/1732.5	QPSK	0.497	1.20	1.099	0.546	1.6	/
ANT 4/1RB#0 Full power								
Front Upward	20175/1732.5	QPSK	0.354	-2.26	1.153	0.408	1.6	/
Back Upward	20175/1732.5	QPSK	0.339	0.52	1.153	0.391	1.6	/
Left	20175/1732.5	QPSK	0.650	0.53	1.153	0.749	1.6	/
Top	20175/1732.5	QPSK	0.111	0.60	1.153	0.128	1.6	/
Left	20050/1720.0	QPSK	0.606	-3.53	1.138	0.690	1.6	/
Left	20300/1745.0	QPSK	0.546	-3.86	1.159	0.633	1.6	/
ANT 4/50%RB#0 Full power								
Front Upward	20175/1732.5	QPSK	0.253	4.10	1.151	0.291	1.6	/
Back Upward	20175/1732.5	QPSK	0.243	-0.51	1.151	0.280	1.6	/
Left	20175/1732.5	QPSK	0.460	3.40	1.151	0.529	1.6	/
Top	20175/1732.5	QPSK	0.079	3.55	1.151	0.091	1.6	/
ANT 4/100%RB#0 Full power								



Front Upward	20175/1732.5	QPSK	0.222	-1.77	1.156	0.257	1.6	/
Back Upward	20175/1732.5	QPSK	0.204	1.07	1.156	0.236	1.6	/
Left	20175/1732.5	QPSK	0.417	-1.61	1.156	0.482	1.6	/
Top	20175/1732.5	QPSK	0.072	1.22	1.156	0.083	1.6	/



Results overview of FDD LTE Band 5, QPSK, 10MHz Bandwidth

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#0 Full power								
Right Cheek	20525/836.5	QPSK	0.160	0.35	1.091	0.175	1.6	/
Right Tilted	20525/836.5	QPSK	0.095	-1.22	1.091	0.104	1.6	/
Left Cheek	20525/836.5	QPSK	0.110	-0.48	1.091	0.120	1.6	/
Left Tilted	20525/836.5	QPSK	0.081	1.65	1.091	0.088	1.6	/
Right Cheek	20450/829.0	QPSK	0.165	-0.31	1.086	0.179	1.6	/
Right Cheek	20600/844.0	QPSK	0.155	-2.53	1.084	0.168	1.6	/
ANT 1/50%RB#0 Full power								
Right Cheek	20525/836.5	QPSK	0.138	-0.15	1.091	0.151	1.6	/
Right Tilted	20525/836.5	QPSK	0.082	-1.24	1.091	0.089	1.6	/
Left Cheek	20525/836.5	QPSK	0.095	-2.61	1.091	0.104	1.6	/
Left Tilted	20525/836.5	QPSK	0.069	0.69	1.091	0.075	1.6	/
ANT 3/1RB#0 Full power								
Right Cheek	20525/836.5	QPSK	0.332	-1.06	1.119	0.372	1.6	/
Right Tilted	20525/836.5	QPSK	0.109	-0.27	1.119	0.122	1.6	/
Left Cheek	20525/836.5	QPSK	0.625	-1.13	1.119	0.699	1.6	/
Left Tilted	20525/836.5	QPSK	0.220	0.35	1.119	0.246	1.6	/
Left Cheek	20450/829.0	QPSK	0.568	-0.29	1.135	0.645	1.6	/
Left Cheek	20600/844.0	QPSK	0.677	-1.62	1.117	0.756	1.6	25
ANT 3/50%RB#0 Full power								
Right Cheek	20525/836.5	QPSK	0.252	0.80	1.112	0.280	1.6	/
Right Tilted	20525/836.5	QPSK	0.083	-0.70	1.112	0.092	1.6	/
Left Cheek	20525/836.5	QPSK	0.551	-0.31	1.112	0.613	1.6	/
Left Tilted	20525/836.5	QPSK	0.090	1.58	1.112	0.100	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#0 Full power								
Front Upward	20525/836.5	QPSK	0.194	-0.60	1.091	0.212	1.6	/
Back Upward	20525/836.5	QPSK	0.155	-1.14	1.091	0.169	1.6	/
Front Upward	20450/829.0	QPSK	0.179	0.45	1.086	0.194	1.6	/
Front Upward	20600/844.0	QPSK	0.187	-2.80	1.084	0.203	1.6	/
ANT 1/50%RB#0 Full power								
Front Upward	20525/836.5	QPSK	0.151	0.60	1.091	0.165	1.6	/
Back Upward	20525/836.5	QPSK	0.122	-0.14	1.091	0.133	1.6	/
ANT 3/1RB#0 Full power								
Front Upward	20525/836.5	QPSK	0.318	-1.03	1.119	0.356	1.6	/
Back Upward	20525/836.5	QPSK	0.360	-2.45	1.119	0.403	1.6	/
Back Upward	20450/829.0	QPSK	0.386	0.70	1.135	0.438	1.6	26
Back Upward	20600/844.0	QPSK	0.286	1.73	1.117	0.319	1.6	/



ANT 3/50%RB#0 Full power								
Front Upward	20525/836.5	QPSK	0.244	0.47	1.112	0.271	1.6	/
Back Upward	20525/836.5	QPSK	0.276	-1.15	1.112	0.307	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#0 Full power								
Front Upward	20525/836.5	QPSK	0.335	3.11	1.091	0.365	1.6	/
Back Upward	20525/836.5	QPSK	0.299	-0.27	1.091	0.326	1.6	/
Right	20525/836.5	QPSK	0.402	-1.04	1.091	0.439	1.6	/
Bottom	20525/836.5	QPSK	0.169	2.53	1.091	0.184	1.6	/
Right	20450/829.0	QPSK	0.355	-0.49	1.086	0.386	1.6	/
Right	20600/844.0	QPSK	0.399	1.29	1.084	0.433	1.6	/
ANT 1/50%RB#0 Full power								
Front Upward	20525/836.5	QPSK	0.282	3.02	1.091	0.308	1.6	/
Back Upward	20525/836.5	QPSK	0.252	-0.39	1.091	0.275	1.6	/
Right	20525/836.5	QPSK	0.337	2.22	1.091	0.368	1.6	/
Bottom	20525/836.5	QPSK	0.143	-3.42	1.091	0.156	1.6	/
ANT 3/1RB#0 Full power								
Front Upward	20525/836.5	QPSK	0.545	-0.26	1.119	0.610	1.6	/
Back Upward	20525/836.5	QPSK	0.523	-1.68	1.119	0.585	1.6	/
Left	20525/836.5	QPSK	0.878	-1.74	1.119	0.982	1.6	/
Left	20450/829.0	QPSK	0.914	-0.60	1.135	1.037	1.6	27
Left	20600/844.0	QPSK	0.809	-0.17	1.117	0.904	1.6	/
ANT 3/50%RB#0 Full power								
Front Upward	20525/836.5	QPSK	0.415	1.03	1.112	0.461	1.6	/
Back Upward	20525/836.5	QPSK	0.399	-0.42	1.112	0.444	1.6	/
Left	20525/836.5	QPSK	0.683	-1.50	1.112	0.759	1.6	/
ANT 3/100%RB#0 Full power								
Front Upward	20525/836.5	QPSK	0.365	-0.38	1.130	0.412	1.6	/
Back Upward	20525/836.5	QPSK	0.351	-0.56	1.130	0.397	1.6	/
Left	20525/836.5	QPSK	0.632	0.91	1.130	0.714	1.6	/



Results overview of FDD LTE Band 7, QPSK, 20MHz Bandwidth

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2/1RB#0 Full power								
Right Cheek	21100/2535.0	QPSK	0.101	-3.10	1.140	0.115	1.6	/
Right Tilted	21100/2535.0	QPSK	0.041	-0.35	1.140	0.047	1.6	/
Left Cheek	21100/2535.0	QPSK	0.124	-2.20	1.140	0.141	1.6	/
Left Tilted	21100/2535.0	QPSK	0.052	-1.65	1.140	0.059	1.6	/
Left Cheek	20850/2510.0	QPSK	0.129	-1.03	1.164	0.150	1.6	/
Left Cheek	21350/2560.0	QPSK	0.134	-2.40	1.130	0.151	1.6	/
ANT 2/50%RB#0 Full power								
Right Cheek	21100/2535.0	QPSK	0.072	-1.89	1.130	0.081	1.6	/
Right Tilted	21100/2535.0	QPSK	0.029	1.95	1.130	0.033	1.6	/
Left Cheek	21100/2535.0	QPSK	0.088	0.09	1.130	0.099	1.6	/
Left Tilted	21100/2535.0	QPSK	0.037	-0.17	1.130	0.042	1.6	/
ANT 4/1RB#0 DSI 1 power								
Right Cheek	21100/2535.0	QPSK	0.405	-1.30	1.143	0.463	1.6	/
Right Tilted	21100/2535.0	QPSK	0.089	1.19	1.143	0.102	1.6	/
Left Cheek	21100/2535.0	QPSK	0.234	-1.51	1.143	0.267	1.6	/
Left Tilted	21100/2535.0	QPSK	0.052	-1.48	1.143	0.059	1.6	/
Right Cheek	20850/2510.0	QPSK	0.437	0.72	1.159	0.506	1.6	28
Right Cheek	21350/2560.0	QPSK	0.424	1.76	1.132	0.480	1.6	/
ANT 4/50%RB#0 DSI 1 power								
Right Cheek	21100/2535.0	QPSK	0.330	-1.44	1.127	0.372	1.6	/
Right Tilted	21100/2535.0	QPSK	0.067	0.05	1.127	0.076	1.6	/
Left Cheek	21100/2535.0	QPSK	0.176	-0.70	1.127	0.198	1.6	/
Left Tilted	21100/2535.0	QPSK	0.040	-0.51	1.127	0.045	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2/1RB#0 Full power								
Front Upward	21100/2535.0	QPSK	0.343	-2.13	1.140	0.391	1.6	/
Back Upward	21100/2535.0	QPSK	0.438	-0.17	1.140	0.499	1.6	/
Back Upward	20850/2510.0	QPSK	0.359	-1.52	1.164	0.418	1.6	/
Back Upward	21350/2560.0	QPSK	0.486	0.16	1.130	0.549	1.6	29
ANT 2/50%RB#0 Full power								
Front Upward	21100/2535.0	QPSK	0.227	-2.26	1.130	0.257	1.6	/
Back Upward	21100/2535.0	QPSK	0.290	-1.55	1.130	0.328	1.6	/
ANT 4/1RB#0 Full power								
Front Upward	21100/2535.0	QPSK	0.258	-0.47	1.175	0.303	1.6	/
Back Upward	21100/2535.0	QPSK	0.241	1.33	1.175	0.283	1.6	/
Front Upward	20850/2510.0	QPSK	0.233	-0.13	1.172	0.273	1.6	/
Front Upward	21350/2560.0	QPSK	0.217	-0.19	1.159	0.252	1.6	/



ANT 4/50%RB#0 Full power								
Front Upward	21100/2535.0	QPSK	0.195	0.50	1.079	0.210	1.6	/
Back Upward	21100/2535.0	QPSK	0.183	1.20	1.079	0.197	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 2/1RB#0 DSI 2 power								
Front Upward	21100/2535.0	QPSK	0.360	1.79	1.072	0.386	1.6	/
Back Upward	21100/2535.0	QPSK	0.401	1.83	1.072	0.430	1.6	/
Left	21100/2535.0	QPSK	0.133	-4.25	1.072	0.143	1.6	/
Bottom	21100/2535.0	QPSK	0.721	1.88	1.072	0.773	1.6	/
Bottom	20850/2510.0	QPSK	0.606	-1.81	1.062	0.644	1.6	/
Bottom	21350/2560.0	QPSK	0.748	1.02	1.153	0.862	1.6	/
ANT 2/50%RB#0 DSI 2 power								
Front Upward	21100/2535.0	QPSK	0.243	4.43	1.050	0.255	1.6	/
Back Upward	21100/2535.0	QPSK	0.271	-1.66	1.050	0.285	1.6	/
Left	21100/2535.0	QPSK	0.090	0.92	1.050	0.095	1.6	/
Bottom	21100/2535.0	QPSK	0.493	-4.04	1.050	0.518	1.6	/
ANT 2/100%RB#0 DSI 2 power								
Front Upward	21100/2535.0	QPSK	0.229	-2.53	1.069	0.245	1.6	/
Back Upward	21100/2535.0	QPSK	0.255	-4.17	1.069	0.273	1.6	/
Left	21100/2535.0	QPSK	0.084	1.14	1.069	0.090	1.6	/
Bottom	21100/2535.0	QPSK	0.457	0.27	1.069	0.489	1.6	/
ANT 4/1RB#0 Full power								
Front Upward	21100/2535.0	QPSK	0.433	0.29	1.175	0.509	1.6	/
Back Upward	21100/2535.0	QPSK	0.416	-0.41	1.175	0.489	1.6	/
Left	21100/2535.0	QPSK	0.794	-0.23	1.175	0.933	1.6	30
Top	21100/2535.0	QPSK	0.138	-2.08	1.175	0.162	1.6	/
Left	20850/2510.0	QPSK	0.738	0.20	1.172	0.865	1.6	/
Left	21350/2560.0	QPSK	0.673	1.76	1.159	0.780	1.6	/
ANT 4/50%RB#0 Full power								
Front Upward	21100/2535.0	QPSK	0.343	-1.11	1.079	0.370	1.6	/
Back Upward	21100/2535.0	QPSK	0.321	-0.60	1.079	0.346	1.6	/
Left	21100/2535.0	QPSK	0.611	-0.55	1.079	0.659	1.6	/
Top	21100/2535.0	QPSK	0.106	1.60	1.079	0.114	1.6	/
ANT 4/100%RB#0 Full power								
Front Upward	21100/2535.0	QPSK	0.291	0.36	1.089	0.317	1.6	/
Back Upward	21100/2535.0	QPSK	0.279	-0.07	1.089	0.304	1.6	/
Left	21100/2535.0	QPSK	0.548	-1.52	1.089	0.597	1.6	/
Top	21100/2535.0	QPSK	0.093	1.59	1.089	0.101	1.6	/



Results overview of FDD LTE Band 12, QPSK, 10MHz Bandwidth

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#0 Full power								
Right Cheek	23095/707.5	QPSK	0.113	-0.24	1.099	0.124	1.6	/
Right Tilted	23095/707.5	QPSK	0.066	-1.21	1.099	0.073	1.6	/
Left Cheek	23095/707.5	QPSK	0.077	-1.74	1.099	0.085	1.6	/
Left Tilted	23095/707.5	QPSK	0.056	-3.80	1.099	0.062	1.6	/
Right Cheek	23060/704.0	QPSK	0.111	-1.66	1.104	0.123	1.6	/
Right Cheek	23130/711.0	QPSK	0.102	0.10	1.107	0.113	1.6	/
ANT 1/50%RB#0 Full power								
Right Cheek	23095/707.5	QPSK	0.097	0.13	1.102	0.107	1.6	/
Right Tilted	23095/707.5	QPSK	0.051	-3.70	1.102	0.056	1.6	/
Left Cheek	23095/707.5	QPSK	0.066	1.35	1.102	0.073	1.6	/
Left Tilted	23095/707.5	QPSK	0.042	-0.58	1.102	0.046	1.6	/
ANT 3/1RB#0 Full power								
Right Cheek	23095/707.5	QPSK	0.257	1.74	1.161	0.298	1.6	/
Right Tilted	23095/707.5	QPSK	0.091	-0.25	1.161	0.106	1.6	/
Left Cheek	23095/707.5	QPSK	0.563	-0.62	1.161	0.654	1.6	/
Left Tilted	23095/707.5	QPSK	0.186	-2.10	1.161	0.216	1.6	/
Left Cheek	23060/704.0	QPSK	0.597	-0.29	1.156	0.690	1.6	31
Left Cheek	23130/711.0	QPSK	0.512	1.61	1.161	0.594	1.6	/
ANT 3/50%RB#0 Full power								
Right Cheek	23095/707.5	QPSK	0.203	-1.70	1.054	0.214	1.6	/
Right Tilted	23095/707.5	QPSK	0.073	-2.05	1.054	0.077	1.6	/
Left Cheek	23095/707.5	QPSK	0.494	0.69	1.054	0.521	1.6	/
Left Tilted	23095/707.5	QPSK	0.125	-1.76	1.054	0.132	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#0 Full power								
Front Upward	23095/707.5	QPSK	0.150	-1.96	1.099	0.165	1.6	/
Back Upward	23095/707.5	QPSK	0.121	2.05	1.099	0.133	1.6	/
Front Upward	23060/704.0	QPSK	0.160	-2.44	1.104	0.177	1.6	/
Front Upward	23130/711.0	QPSK	0.146	-0.32	1.107	0.162	1.6	/
ANT 1/50%RB#0 Full power								
Front Upward	23095/707.5	QPSK	0.114	-2.01	1.102	0.126	1.6	/
Back Upward	23095/707.5	QPSK	0.092	-2.71	1.102	0.101	1.6	/
ANT 3/1RB#0 Full power								
Front Upward	23095/707.5	QPSK	0.302	0.43	1.161	0.351	1.6	/
Back Upward	23095/707.5	QPSK	0.363	1.60	1.161	0.421	1.6	/
Back Upward	23060/704.0	QPSK	0.336	-1.21	1.156	0.388	1.6	/
Back Upward	23130/711.0	QPSK	0.381	1.05	1.161	0.442	1.6	32



ANT 3/50%RB#0 Full power								
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	23095/707.5	QPSK	0.227	0.95	1.054	0.239	1.6	/
Back Upward	23095/707.5	QPSK	0.273	0.42	1.054	0.288	1.6	/
ANT 1/1RB#0 Full power								
Front Upward	23095/707.5	QPSK	0.391	-0.07	1.099	0.430	1.6	/
Back Upward	23095/707.5	QPSK	0.349	-2.47	1.099	0.384	1.6	/
Right	23095/707.5	QPSK	0.469	-1.85	1.099	0.515	1.6	/
Bottom	23095/707.5	QPSK	0.196	4.42	1.099	0.215	1.6	/
Right	23060/704.0	QPSK	0.472	1.14	1.104	0.521	1.6	/
Right	23130/711.0	QPSK	0.490	3.78	1.107	0.542	1.6	/
ANT 1/50%RB#0 Full power								
Front Upward	23095/707.5	QPSK	0.326	-2.52	1.102	0.359	1.6	/
Back Upward	23095/707.5	QPSK	0.291	-4.06	1.102	0.321	1.6	/
Right	23095/707.5	QPSK	0.393	-2.52	1.102	0.433	1.6	/
Bottom	23095/707.5	QPSK	0.165	-1.86	1.102	0.182	1.6	/
ANT 3/1RB#0 Full power								
Front Upward	23095/707.5	QPSK	0.473	-1.55	1.161	0.549	1.6	/
Back Upward	23095/707.5	QPSK	0.454	1.39	1.161	0.527	1.6	/
Left	23095/707.5	QPSK	0.796	-2.08	1.161	0.924	1.6	/
Left	23060/704.0	QPSK	0.742	0.66	1.156	0.858	1.6	/
Left	23130/711.0	QPSK	0.823	-1.01	1.161	0.956	1.6	33
ANT 3/50%RB#0 Full power								
Front Upward	23095/707.5	QPSK	0.357	0.40	1.054	0.376	1.6	/
Back Upward	23095/707.5	QPSK	0.343	-1.08	1.054	0.362	1.6	/
Left	23095/707.5	QPSK	0.706	-0.20	1.054	0.744	1.6	/
ANT 3/100%RB#0 Full power								
Front Upward	23095/707.5	QPSK	0.314	-1.29	1.064	0.334	1.6	/
Back Upward	23095/707.5	QPSK	0.301	1.29	1.064	0.320	1.6	/
Left	23095/707.5	QPSK	0.621	0.29	1.064	0.661	1.6	/



Results overview of FDD LTE Band 17, QPSK, 10MHz Bandwidth

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#0 Full power								
Right Cheek	23790/710.0	QPSK	0.112	-0.71	1.119	0.125	1.6	/
Right Tilted	23790/710.0	QPSK	0.067	-3.64	1.119	0.075	1.6	/
Left Cheek	23790/710.0	QPSK	0.078	-1.80	1.119	0.087	1.6	/
Left Tilted	23790/710.0	QPSK	0.056	-2.61	1.119	0.063	1.6	/
Right Cheek	23780/709.0	QPSK	0.113	0.29	1.138	0.129	1.6	/
Right Cheek	23800/711.0	QPSK	0.108	2.87	1.132	0.122	1.6	/
ANT 1/50%RB#0 Full power								
Right Cheek	23790/710.0	QPSK	0.096	1.97	1.117	0.107	1.6	/
Right Tilted	23790/710.0	QPSK	0.050	-2.60	1.117	0.056	1.6	/
Left Cheek	23790/710.0	QPSK	0.065	-0.94	1.117	0.073	1.6	/
Left Tilted	23790/710.0	QPSK	0.043	-0.33	1.117	0.048	1.6	/
ANT 3/1RB#0 Full power								
Right Cheek	23790/710.0	QPSK	0.239	-0.68	1.175	0.281	1.6	/
Right Tilted	23790/710.0	QPSK	0.074	-0.87	1.175	0.087	1.6	/
Left Cheek	23790/710.0	QPSK	0.551	-1.73	1.175	0.694	1.6	/
Left Tilted	23790/710.0	QPSK	0.158	0.70	1.175	0.209	1.6	/
Left Cheek	23780/709.0	QPSK	0.616	-2.83	1.164	0.717	1.6	34
Left Cheek	23800/711.0	QPSK	0.577	0.44	1.167	0.673	1.6	/
ANT 3/50%RB#0 Full power								
Right Cheek	23790/710.0	QPSK	0.176	-0.97	1.059	0.186	1.6	/
Right Tilted	23790/710.0	QPSK	0.042	-0.15	1.059	0.044	1.6	/
Left Cheek	23790/710.0	QPSK	0.513	-1.50	1.059	0.543	1.6	/
Left Tilted	23790/710.0	QPSK	0.122	0.96	1.059	0.129	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#0 Full power								
Front Upward	23790/710.0	QPSK	0.148	2.82	1.119	0.166	1.6	/
Back Upward	23790/710.0	QPSK	0.111	-2.15	1.119	0.124	1.6	/
Front Upward	23780/709.0	QPSK	0.138	-4.25	1.138	0.157	1.6	/
Front Upward	23800/711.0	QPSK	0.133	3.36	1.132	0.151	1.6	/
ANT 1/50%RB#0 Full power								
Front Upward	23790/710.0	QPSK	0.101	0.30	1.117	0.113	1.6	/
Back Upward	23790/710.0	QPSK	0.082	-4.15	1.117	0.092	1.6	/
ANT 3/1RB#0 Full power								
Front Upward	23790/710.0	QPSK	0.320	0.43	1.175	0.376	1.6	/
Back Upward	23790/710.0	QPSK	0.374	1.60	1.175	0.439	1.6	/
Back Upward	23780/709.0	QPSK	0.392	-1.21	1.164	0.456	1.6	35
Back Upward	23800/711.0	QPSK	0.377	1.05	1.167	0.440	1.6	/



ANT 3/50%RB#0 Full power								
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	23790/710.0	QPSK	0.242	0.13	1.059	0.256	1.6	/
Back Upward	23790/710.0	QPSK	0.283	0.58	1.059	0.300	1.6	/
ANT 1/1RB#0 Full power								
Front Upward	23095/707.5	QPSK	0.401	-2.48	1.119	0.449	1.6	/
Back Upward	23095/707.5	QPSK	0.358	0.69	1.119	0.401	1.6	/
Right	23095/707.5	QPSK	0.477	-0.57	1.119	0.534	1.6	/
Bottom	23790/710.0	QPSK	0.202	-2.18	1.119	0.226	1.6	/
Right	23780/709.0	QPSK	0.467	-2.23	1.138	0.531	1.6	/
Right	23800/711.0	QPSK	0.435	0.30	1.132	0.492	1.6	/
ANT 1/50%RB#0 Full power								
Front Upward	23790/710.0	QPSK	0.326	-2.07	1.117	0.364	1.6	/
Back Upward	23790/710.0	QPSK	0.291	1.86	1.117	0.325	1.6	/
Right	23790/710.0	QPSK	0.387	0.49	1.117	0.432	1.6	/
Bottom	23790/710.0	QPSK	0.165	-0.30	1.117	0.184	1.6	/
ANT 3/1RB#0 Full power								
Front Upward	23095/707.5	QPSK	0.515	-0.75	1.175	0.605	1.6	/
Back Upward	23095/707.5	QPSK	0.494	-0.11	1.175	0.580	1.6	/
Left	23095/707.5	QPSK	0.785	0.26	1.175	0.922	1.6	/
Left	23780/709.0	QPSK	0.820	-1.14	1.164	0.954	1.6	36
Left	23800/711.0	QPSK	0.772	-1.00	1.167	0.901	1.6	/
ANT 3/50%RB#0 Full power								
Front Upward	23790/710.0	QPSK	0.386	-0.03	1.059	0.409	1.6	/
Back Upward	23790/710.0	QPSK	0.370	-0.93	1.059	0.392	1.6	/
Left	23790/710.0	QPSK	0.676	1.36	1.059	0.716	1.6	/
ANT 3/100%RB#0 Full power								
Front Upward	23790/710.0	QPSK	0.340	-1.27	1.081	0.368	1.6	/
Back Upward	23790/710.0	QPSK	0.326	0.70	1.081	0.352	1.6	/
Left	23790/710.0	QPSK	0.652	1.48	1.081	0.705	1.6	/



Results overview of TDD LTE Band 41, QPSK, 20MHz Bandwidth

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#0 Full power								
Right Cheek	40620/2593.0	QPSK	0.098	-0.31	1.102	0.108	1.6	/
Right Tilted	40620/2593.0	QPSK	0.060	-1.26	1.102	0.066	1.6	/
Left Cheek	40620/2593.0	QPSK	0.069	-2.12	1.102	0.076	1.6	/
Left Tilted	40620/2593.0	QPSK	0.051	-1.02	1.102	0.056	1.6	/
Right Cheek	39750/2506.0	QPSK	0.089	0.48	1.161	0.103	1.6	/
Right Cheek	41490/2680.0	QPSK	0.095	-0.23	1.138	0.108	1.6	/
ANT 1/50%RB#0 Full power								
Right Cheek	40620/2593.0	QPSK	0.074	-0.78	1.117	0.083	1.6	/
Right Tilted	40620/2593.0	QPSK	0.045	-1.79	1.117	0.050	1.6	/
Left Cheek	40620/2593.0	QPSK	0.051	-0.30	1.117	0.057	1.6	/
Left Tilted	40620/2593.0	QPSK	0.038	-1.45	1.117	0.042	1.6	/
ANT 2/1RB#0 Full power								
Right Cheek	40620/2593.0	QPSK	0.047	-0.15	1.104	0.052	1.6	/
Right Tilted	40620/2593.0	QPSK	0.019	-2.72	1.104	0.021	1.6	/
Left Cheek	40620/2593.0	QPSK	0.060	-0.97	1.104	0.066	1.6	/
Left Tilted	40620/2593.0	QPSK	0.024	0.76	1.104	0.026	1.6	/
Left Cheek	39750/2506.0	QPSK	0.066	-0.17	1.109	0.073	1.6	/
Left Cheek	41490/2680.0	QPSK	0.064	0.53	1.109	0.071	1.6	/
ANT 2/50%RB#0 Full power								
Right Cheek	40620/2593.0	QPSK	0.040	0.75	1.109	0.044	1.6	/
Right Tilted	40620/2593.0	QPSK	0.016	-1.58	1.109	0.018	1.6	/
Left Cheek	40620/2593.0	QPSK	0.050	-2.14	1.109	0.055	1.6	/
Left Tilted	40620/2593.0	QPSK	0.021	-0.60	1.109	0.023	1.6	/
ANT 4/1RB#0 Full power								
Right Cheek	40620/2593.0	QPSK	0.610	-0.82	1.081	0.659	1.6	/
Right Tilted	40620/2593.0	QPSK	0.121	-1.26	1.081	0.131	1.6	/
Left Cheek	40620/2593.0	QPSK	0.292	-2.41	1.081	0.316	1.6	/
Left Tilted	40620/2593.0	QPSK	0.084	0.13	1.081	0.091	1.6	/
Right Cheek	39750/2506.0	QPSK	0.678	-1.91	1.146	0.777	1.6	40
Right Cheek	41490/2680.0	QPSK	0.586	0.64	1.094	0.641	1.6	/
ANT 4/50%RB#0 Full power								
Right Cheek	40620/2593.0	QPSK	0.576	-1.02	1.146	0.660	1.6	/
Right Tilted	40620/2593.0	QPSK	0.096	0.58	1.146	0.110	1.6	/
Left Cheek	40620/2593.0	QPSK	0.214	-0.24	1.146	0.245	1.6	/
Left Tilted	40620/2593.0	QPSK	0.070	-0.75	1.146	0.080	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#0 Full power								



Front Upward	40620/2593.0	QPSK	0.121	0.43	1.102	0.133	1.6	/
Back Upward	40620/2593.0	QPSK	0.096	-1.22	1.102	0.106	1.6	/
Front Upward	39750/2506.0	QPSK	0.117	-1.00	1.161	0.136	1.6	/
Front Upward	41490/2680.0	QPSK	0.134	-0.36	1.138	0.152	1.6	/
ANT 1/50%RB#0 Full power								
Front Upward	40620/2593.0	QPSK	0.091	-1.29	1.117	0.102	1.6	/
Back Upward	40620/2593.0	QPSK	0.073	0.64	1.117	0.082	1.6	/
ANT 2/1RB#0 Full power								
Front Upward	40620/2593.0	QPSK	0.212	0.90	1.104	0.234	1.6	/
Back Upward	40620/2593.0	QPSK	0.262	-0.79	1.104	0.289	1.6	/
Back Upward	39750/2506.0	QPSK	0.294	1.74	1.109	0.326	1.6	41
Back Upward	41490/2680.0	QPSK	0.248	-2.92	1.109	0.275	1.6	/
ANT 2/50%RB#0 Full power								
Front Upward	40620/2593.0	QPSK	0.164	-0.74	1.109	0.182	1.6	/
Back Upward	40620/2593.0	QPSK	0.202	-0.50	1.109	0.224	1.6	/
ANT 4/1RB#0 Full power								
Front Upward	40620/2593.0	QPSK	0.174	-0.49	1.081	0.188	1.6	/
Back Upward	40620/2593.0	QPSK	0.184	-1.27	1.081	0.199	1.6	/
Back Upward	39750/2506.0	QPSK	0.166	0.42	1.146	0.190	1.6	/
Back Upward	41490/2680.0	QPSK	0.155	-0.11	1.094	0.170	1.6	/
ANT 4/50%RB#0 Full power								
Front Upward	40620/2593.0	QPSK	0.133	-1.00	1.146	0.152	1.6	/
Back Upward	40620/2593.0	QPSK	0.141	-1.01	1.146	0.162	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#0 Full power								
Front Upward	40620/2593.0	QPSK	0.361	-1.74	1.102	0.398	1.6	/
Back Upward	40620/2593.0	QPSK	0.322	-1.43	1.102	0.355	1.6	/
Right	40620/2593.0	QPSK	0.431	-0.24	1.102	0.475	1.6	/
Bottom	40620/2593.0	QPSK	0.185	-1.36	1.102	0.204	1.6	/
Right	39750/2506.0	QPSK	0.381	1.62	1.161	0.442	1.6	/
Right	41490/2680.0	QPSK	0.423	0.24	1.138	0.481	1.6	/
ANT 1/50%RB#0 Full power								
Front Upward	40620/2593.0	QPSK	0.274	-1.61	1.117	0.306	1.6	/
Back Upward	40620/2593.0	QPSK	0.244	0.69	1.117	0.273	1.6	/
Right	40620/2593.0	QPSK	0.327	0.12	1.117	0.365	1.6	/
Bottom	40620/2593.0	QPSK	0.141	-0.08	1.117	0.157	1.6	/
ANT 2/1RB#0 Full power								
Front Upward	40620/2593.0	QPSK	0.362	-2.41	1.104	0.400	1.6	/
Back Upward	40620/2593.0	QPSK	0.403	-0.75	1.104	0.445	1.6	/
Left	40620/2593.0	QPSK	0.135	-3.62	1.104	0.149	1.6	/
Bottom	40620/2593.0	QPSK	0.678	1.31	1.104	0.749	1.6	/
Bottom	39750/2506.0	QPSK	0.727	0.51	1.109	0.806	1.6	42



Bottom	41490/2680.0	QPSK	0.631	-2.15	1.109	0.700	1.6	/
ANT 2/50%RB#0 Full power								
Front Upward	40620/2593.0	QPSK	0.274	-0.57	1.109	0.304	1.6	/
Back Upward	40620/2593.0	QPSK	0.305	1.68	1.109	0.338	1.6	/
Left	40620/2593.0	QPSK	0.101	4.54	1.109	0.112	1.6	/
Bottom	40620/2593.0	QPSK	0.512	0.66	1.109	0.568	1.6	/
ANT 2/100%RB#0 Full power								
Front Upward	40620/2593.0	QPSK	0.262	-3.54	1.130	0.296	1.6	/
Back Upward	40620/2593.0	QPSK	0.292	2.69	1.130	0.330	1.6	/
Left	40620/2593.0	QPSK	0.099	-4.23	1.130	0.112	1.6	/
Bottom	40620/2593.0	QPSK	0.491	0.70	1.130	0.555	1.6	/
ANT 4/1RB#0 Full power								
Front Upward	40620/2593.0	QPSK	0.234	-0.90	1.081	0.253	1.6	/
Back Upward	40620/2593.0	QPSK	0.225	-0.06	1.081	0.243	1.6	/
Left	40620/2593.0	QPSK	0.426	0.43	1.081	0.461	1.6	/
Top	40620/2593.0	QPSK	0.073	-1.33	1.081	0.079	1.6	/
Left	39750/2506.0	QPSK	0.491	0.99	1.146	0.563	1.6	/
Left	41490/2680.0	QPSK	0.364	-1.00	1.094	0.398	1.6	/
ANT 4/50%RB#0 Full power								
Front Upward	40620/2593.0	QPSK	0.178	1.53	1.146	0.204	1.6	/
Back Upward	40620/2593.0	QPSK	0.171	0.02	1.146	0.196	1.6	/
Left	40620/2593.0	QPSK	0.318	0.70	1.146	0.364	1.6	/
Top	40620/2593.0	QPSK	0.056	1.76	1.146	0.064	1.6	/



Results overview of 5G NR Band n5, QPSK, 20MHz Bandwidth

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#1 Full power								
Right Cheek	167300/836.5	QPSK	0.116	-0.20	1.000	0.116	1.6	/
Right Tilted	167300/836.5	QPSK	0.069	-3.59	1.000	0.069	1.6	/
Left Cheek	167300/836.5	QPSK	0.079	-1.51	1.000	0.079	1.6	/
Left Tilted	167300/836.5	QPSK	0.059	-0.84	1.000	0.059	1.6	/
Right Cheek	166800/834.0	QPSK	0.104	-0.77	1.000	0.104	1.6	/
Right Cheek	167800/839.0	QPSK	0.132	2.00	1.000	0.132	1.6	/
ANT 1/50%RB#1 Full power								
Right Cheek	167300/836.5	QPSK	0.071	-1.07	1.000	0.071	1.6	/
Right Tilted	167300/836.5	QPSK	0.042	-3.06	1.000	0.042	1.6	/
Left Cheek	167300/836.5	QPSK	0.048	-1.20	1.000	0.048	1.6	/
Left Tilted	167300/836.5	QPSK	0.036	0.80	1.000	0.036	1.6	/
ANT 3/1RB#1 Full power								
Right Cheek	167300/836.5	QPSK	0.211	2.01	1.000	0.211	1.6	/
Right Tilted	167300/836.5	QPSK	0.085	-1.48	1.000	0.085	1.6	/
Left Cheek	167300/836.5	QPSK	0.591	-0.40	1.000	0.591	1.6	43
Left Tilted	167300/836.5	QPSK	0.194	-1.95	1.000	0.194	1.6	/
Left Cheek	166800/834.0	QPSK	0.582	0.83	1.000	0.582	1.6	/
Left Cheek	167800/839.0	QPSK	0.521	1.66	1.000	0.521	1.6	/
ANT 3/50%RB#1 Full power								
Right Cheek	167300/836.5	QPSK	0.165	-1.05	1.000	0.165	1.6	/
Right Tilted	167300/836.5	QPSK	0.077	-2.64	1.000	0.077	1.6	/
Left Cheek	167300/836.5	QPSK	0.538	1.19	1.000	0.538	1.6	/
Left Tilted	167300/836.5	QPSK	0.144	-0.74	1.000	0.144	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#1 Full power								
Front Upward	167300/836.5	QPSK	0.152	0.21	1.000	0.152	1.6	/
Back Upward	167300/836.5	QPSK	0.121	-2.15	1.000	0.121	1.6	/
Front Upward	166800/834.0	QPSK	0.141	-3.10	1.000	0.141	1.6	/
Front Upward	167800/839.0	QPSK	0.186	1.21	1.000	0.186	1.6	/
ANT 1/50%RB#1 Full power								
Front Upward	167300/836.5	QPSK	0.102	-3.34	1.000	0.102	1.6	/
Back Upward	167300/836.5	QPSK	0.081	1.46	1.000	0.081	1.6	/
ANT 3/1RB#1 Full power								
Front Upward	167300/836.5	QPSK	0.245	1.34	1.000	0.245	1.6	/
Back Upward	167300/836.5	QPSK	0.284	-1.74	1.000	0.284	1.6	44
Back Upward	166800/834.0	QPSK	0.241	0.51	1.000	0.241	1.6	/
Back Upward	167800/839.0	QPSK	0.219	-0.12	1.000	0.219	1.6	/



ANT 3/50%RB#1 Full power								
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	167300/836.5	QPSK	0.188	0.33	1.000	0.188	1.6	/
Back Upward	167300/836.5	QPSK	0.220	0.74	1.000	0.220	1.6	/
ANT 1/1RB#1 Full power								
Front Upward	167300/836.5	QPSK	0.215	0.24	1.000	0.215	1.6	/
Back Upward	167300/836.5	QPSK	0.192	-1.36	1.000	0.192	1.6	/
Right	167300/836.5	QPSK	0.258	-2.67	1.000	0.258	1.6	/
Bottom	167300/836.5	QPSK	0.108	0.85	1.000	0.108	1.6	/
Right	166800/834.0	QPSK	0.250	1.39	1.000	0.250	1.6	/
Right	167800/839.0	QPSK	0.277	-0.98	1.000	0.277	1.6	/
ANT 1/50%RB#1 Full power								
Front Upward	167300/836.5	QPSK	0.139	2.40	1.000	0.139	1.6	/
Back Upward	167300/836.5	QPSK	0.124	-1.58	1.000	0.124	1.6	/
Right	167300/836.5	QPSK	0.169	-0.75	1.000	0.169	1.6	/
Bottom	167300/836.5	QPSK	0.071	-3.47	1.000	0.071	1.6	/
ANT 3/1RB#1 Full power								
Front Upward	167300/836.5	QPSK	0.345	-0.68	1.000	0.345	1.6	/
Back Upward	167300/836.5	QPSK	0.331	0.58	1.000	0.331	1.6	/
Left	167300/836.5	QPSK	0.666	0.36	1.000	0.666	1.6	45
Left	166800/834.0	QPSK	0.641	0.80	1.000	0.641	1.6	/
Left	167800/839.0	QPSK	0.603	-1.22	1.000	0.603	1.6	/
ANT 3/50%RB#1 Full power								
Front Upward	167300/836.5	QPSK	0.174	0.98	1.000	0.174	1.6	/
Back Upward	167300/836.5	QPSK	0.167	-1.29	1.000	0.167	1.6	/
Left	167300/836.5	QPSK	0.331	1.16	1.000	0.331	1.6	/

**Results overview of 5G NR Band n41, DFT-QPSK, 100MHz Bandwidth**

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#1 Full Power								
Right Cheek	518598/2592.99	QPSK	0.096	1.71	1.000	0.096	1.6	/
Right Tilted	518598/2592.99	QPSK	0.057	-0.43	1.000	0.057	1.6	/
Left Cheek	518598/2592.99	QPSK	0.075	-2.50	1.000	0.075	1.6	/
Left Tilted	518598/2592.99	QPSK	0.044	-0.22	1.000	0.044	1.6	/
Right Cheek	509202/2546.01	QPSK	0.089	0.89	1.000	0.089	1.6	/
Right Cheek	528000/2640.00	QPSK	0.091	-1.56	1.000	0.091	1.6	/
ANT 1/50%RB#1 Full Power								
Right Cheek	518598/2592.99	QPSK	0.073	-1.11	1.000	0.073	1.6	/
Right Tilted	518598/2592.99	QPSK	0.043	0.83	1.000	0.043	1.6	/
Left Cheek	518598/2592.99	QPSK	0.058	-0.50	1.000	0.058	1.6	/
Left Tilted	518598/2592.99	QPSK	0.037	-1.45	1.000	0.037	1.6	/
ANT 2/1RB#1 Full Power								
Right Cheek	518598/2592.99	QPSK	0.095	0.46	1.000	0.095	1.6	/
Right Tilted	518598/2592.99	QPSK	0.039	-0.59	1.000	0.039	1.6	/
Left Cheek	518598/2592.99	QPSK	0.118	0.71	1.000	0.118	1.6	/
Left Tilted	518598/2592.99	QPSK	0.050	-0.77	1.000	0.050	1.6	/
Left Cheek	509202/2546.01	QPSK	0.125	-2.12	1.000	0.125	1.6	/
Left Cheek	528000/2640.00	QPSK	0.109	0.15	1.000	0.109	1.6	/
ANT 2/50%RB#1 Full Power								
Right Cheek	518598/2592.99	QPSK	0.076	1.13	1.000	0.076	1.6	/
Right Tilted	518598/2592.99	QPSK	0.029	-2.30	1.000	0.029	1.6	/
Left Cheek	518598/2592.99	QPSK	0.095	-0.80	1.000	0.095	1.6	/
Left Tilted	518598/2592.99	QPSK	0.038	0.64	1.000	0.038	1.6	/
ANT 4/1RB#1 Full Power								
Right Cheek	518598/2592.99	QPSK	0.302	-1.99	1.000	0.302	1.6	/
Right Tilted	518598/2592.99	QPSK	0.074	-0.55	1.000	0.074	1.6	/
Left Cheek	518598/2592.99	QPSK	0.193	-0.31	1.000	0.193	1.6	/
Left Tilted	518598/2592.99	QPSK	0.046	-1.20	1.000	0.046	1.6	/
Right Cheek	509202/2546.01	QPSK	0.323	-0.85	1.000	0.323	1.6	/
Right Cheek	528000/2640.00	QPSK	0.345	-0.40	1.000	0.345	1.6	/
ANT 4/50%RB#1 Full Power								
Right Cheek	518598/2592.99	QPSK	0.261	0.39	1.000	0.261	1.6	/
Right Tilted	518598/2592.99	QPSK	0.056	2.02	1.000	0.056	1.6	/
Left Cheek	518598/2592.99	QPSK	0.146	-1.03	1.000	0.146	1.6	/
Left Tilted	518598/2592.99	QPSK	0.034	1.24	1.000	0.034	1.6	/
ANT 8/1RB#1 Full Power								
Right Cheek	518598/2592.99	QPSK	0.538	1.64	1.000	0.538	1.6	/



Right Tilted	518598/2592.99	QPSK	0.410	-0.78	1.000	0.410	1.6	/
Left Cheek	518598/2592.99	QPSK	0.160	0.36	1.000	0.160	1.6	/
Left Tilted	518598/2592.99	QPSK	0.109	-0.68	1.000	0.109	1.6	/
Right Cheek	509202/2546.01	QPSK	0.587	-1.46	1.000	0.587	1.6	49
Right Cheek	528000/2640.00	QPSK	0.448	-0.92	1.000	0.448	1.6	/
ANT 8/50%RB#1 Full Power								
Right Cheek	518598/2592.99	QPSK	0.407	-0.41	1.000	0.407	1.6	/
Right Tilted	518598/2592.99	QPSK	0.310	0.22	1.000	0.310	1.6	/
Left Cheek	518598/2592.99	QPSK	0.121	1.45	1.000	0.121	1.6	/
Left Tilted	518598/2592.99	QPSK	0.082	0.33	1.000	0.082	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#1 Full Power								
Front Upward	518598/2592.99	QPSK	0.139	1.55	1.000	0.139	1.6	/
Back Upward	518598/2592.99	QPSK	0.108	2.60	1.000	0.108	1.6	/
Front Upward	509202/2546.01	QPSK	0.132	-0.49	1.000	0.132	1.6	/
Front Upward	528000/2640.00	QPSK	0.127	-0.82	1.000	0.127	1.6	/
ANT 1/50%RB#1 Full Power								
Front Upward	518598/2592.99	QPSK	0.102	1.61	1.000	0.102	1.6	/
Back Upward	518598/2592.99	QPSK	0.082	0.92	1.000	0.082	1.6	/
ANT 2/1RB#1 Full Power								
Front Upward	518598/2592.99	QPSK	0.133	-0.73	1.000	0.133	1.6	/
Back Upward	518598/2592.99	QPSK	0.174	-0.42	1.000	0.174	1.6	/
Back Upward	509202/2546.01	QPSK	0.188	-2.03	1.000	0.188	1.6	/
Back Upward	528000/2640.00	QPSK	0.156	-1.41	1.000	0.156	1.6	/
ANT 2/50%RB#1 Full Power								
Front Upward	518598/2592.99	QPSK	0.101	0.15	1.000	0.101	1.6	/
Back Upward	518598/2592.99	QPSK	0.132	-0.17	1.000	0.132	1.6	/
ANT 4/1RB#1 Full Power								
Front Upward	518598/2592.99	QPSK	0.095	-0.10	1.000	0.095	1.6	/
Back Upward	518598/2592.99	QPSK	0.104	-0.89	1.000	0.104	1.6	/
Back Upward	509202/2546.01	QPSK	0.093	-0.07	1.000	0.093	1.6	/
Back Upward	528000/2640.00	QPSK	0.116	1.60	1.000	0.116	1.6	/
ANT 4/50%RB#1 Full Power								
Front Upward	518598/2592.99	QPSK	0.072	0.32	1.000	0.072	1.6	/
Back Upward	518598/2592.99	QPSK	0.079	1.08	1.000	0.079	1.6	/
ANT 8/1RB#1 Full Power								
Front Upward	518598/2592.99	QPSK	0.173	-0.27	1.000	0.173	1.6	/
Back Upward	518598/2592.99	QPSK	0.192	-1.21	1.000	0.192	1.6	/
Back Upward	509202/2546.01	QPSK	0.200	0.46	1.000	0.200	1.6	50
Back Upward	528000/2640.00	QPSK	0.175	1.54	1.000	0.175	1.6	/
ANT 8/50%RB#1 Full Power								



Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	518598/2592.99	QPSK	0.130	-1.20	1.000	0.130	1.6	/
Back Upward	518598/2592.99	QPSK	0.150	0.02	1.000	0.150	1.6	/
ANT 1/1RB#1 Full Power								
Front Upward	518598/2592.99	QPSK	0.271	-0.87	1.000	0.271	1.6	/
Back Upward	518598/2592.99	QPSK	0.242	0.63	1.000	0.242	1.6	/
Right	518598/2592.99	QPSK	0.326	1.17	1.000	0.326	1.6	/
Bottom	518598/2592.99	QPSK	0.139	-1.48	1.000	0.139	1.6	/
Right	509202/2546.01	QPSK	0.290	1.60	1.000	0.290	1.6	/
Right	528000/2640.00	QPSK	0.319	-0.32	1.000	0.319	1.6	/
ANT 1/50%RB#1 Full Power								
Front Upward	518598/2592.99	QPSK	0.209	-1.31	1.000	0.209	1.6	/
Back Upward	518598/2592.99	QPSK	0.187	-1.04	1.000	0.187	1.6	/
Right	518598/2592.99	QPSK	0.251	1.49	1.000	0.251	1.6	/
Bottom	518598/2592.99	QPSK	0.108	1.13	1.000	0.108	1.6	/
ANT 2/1RB#1 Full Power								
Front Upward	518598/2592.99	QPSK	0.232	-1.36	1.000	0.232	1.6	/
Back Upward	518598/2592.99	QPSK	0.259	0.10	1.000	0.259	1.6	/
Left	518598/2592.99	QPSK	0.082	-1.28	1.000	0.082	1.6	/
Bottom	518598/2592.99	QPSK	0.398	0.54	1.000	0.398	1.6	/
Bottom	509202/2546.01	QPSK	0.416	-0.63	1.000	0.416	1.6	/
Bottom	528000/2640.00	QPSK	0.381	-1.27	1.000	0.381	1.6	/
ANT 2/50%RB#1 Full Power								
Front Upward	518598/2592.99	QPSK	0.175	-0.28	1.000	0.175	1.6	/
Back Upward	518598/2592.99	QPSK	0.195	0.51	1.000	0.195	1.6	/
Left	518598/2592.99	QPSK	0.062	-1.40	1.000	0.062	1.6	/
Bottom	518598/2592.99	QPSK	0.313	0.66	1.000	0.313	1.6	/
ANT 4/1RB#1 Full Power								
Front Upward	518598/2592.99	QPSK	0.185	1.37	1.000	0.185	1.6	/
Back Upward	518598/2592.99	QPSK	0.177	-1.01	1.000	0.177	1.6	/
Left	518598/2592.99	QPSK	0.349	0.82	1.000	0.349	1.6	/
Top	518598/2592.99	QPSK	0.060	-0.45	1.000	0.060	1.6	/
Left	509202/2546.01	QPSK	0.325	0.15	1.000	0.325	1.6	/
Left	528000/2640.00	QPSK	0.384	1.40	1.000	0.384	1.6	/
ANT 4/50%RB#1 Full Power								
Front Upward	518598/2592.99	QPSK	0.140	1.61	1.000	0.140	1.6	/
Back Upward	518598/2592.99	QPSK	0.135	-0.90	1.000	0.135	1.6	/
Left	518598/2592.99	QPSK	0.265	-0.33	1.000	0.265	1.6	/
Top	518598/2592.99	QPSK	0.045	-0.01	1.000	0.045	1.6	/
ANT 8/1RB#1 Full Power								
Front Upward	518598/2592.99	QPSK	0.219	1.52	1.000	0.219	1.6	/



Back Upward	518598/2592.99	QPSK	0.250	0.50	1.000	0.250	1.6	/
Left	518598/2592.99	QPSK	0.422	-1.54	1.000	0.422	1.6	/
Top	518598/2592.99	QPSK	0.112	1.77	1.000	0.112	1.6	/
Left	509202/2546.01	QPSK	0.502	-0.43	1.000	0.502	1.6	51
Left	528000/2640.00	QPSK	0.398	0.39	1.000	0.398	1.6	/
ANT 8/50%RB#1 Full Power								
Front Upward	518598/2592.99	QPSK	0.167	-1.34	1.000	0.167	1.6	/
Back Upward	518598/2592.99	QPSK	0.191	-0.69	1.000	0.191	1.6	/
Left	518598/2592.99	QPSK	0.319	-1.02	1.000	0.319	1.6	/
Top	518598/2592.99	QPSK	0.086	-0.94	1.000	0.086	1.6	/



Results overview of 5G NR Band n77(3450-3550MHz), DFT-QPSK, 100MHz Bandwidth

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.155	-1.73	1.000	0.155	1.6	/
Right Tilted	633334/3500.01	QPSK	0.092	-2.81	1.000	0.092	1.6	/
Left Cheek	633334/3500.01	QPSK	0.107	-0.26	1.000	0.107	1.6	/
Left Tilted	633334/3500.01	QPSK	0.078	0.35	1.000	0.078	1.6	/
ANT 1/50%RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.116	-2.04	1.000	0.116	1.6	/
Right Tilted	633334/3500.01	QPSK	0.069	-1.28	1.000	0.069	1.6	/
Left Cheek	633334/3500.01	QPSK	0.079	0.31	1.000	0.079	1.6	/
Left Tilted	633334/3500.01	QPSK	0.059	-1.49	1.000	0.059	1.6	/
ANT 8/1RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.674	0.12	1.000	0.674	1.6	/
Right Tilted	633334/3500.01	QPSK	0.607	-0.64	1.000	0.607	1.6	/
Left Cheek	633334/3500.01	QPSK	0.365	1.52	1.000	0.365	1.6	/
Left Tilted	633334/3500.01	QPSK	0.344	-0.23	1.000	0.344	1.6	/
ANT 8/50%RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.512	-0.19	1.000	0.512	1.6	/
Right Tilted	633334/3500.01	QPSK	0.461	-0.23	1.000	0.461	1.6	/
Left Cheek	633334/3500.01	QPSK	0.275	-1.07	1.000	0.275	1.6	/
Left Tilted	633334/3500.01	QPSK	0.257	-1.21	1.000	0.257	1.6	/
ANT 11/1RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.699	-1.14	1.000	0.699	1.6	52
Right Tilted	633334/3500.01	QPSK	0.507	-0.91	1.000	0.507	1.6	/
Left Cheek	633334/3500.01	QPSK	0.345	-1.35	1.000	0.345	1.6	/
Left Tilted	633334/3500.01	QPSK	0.283	0.56	1.000	0.283	1.6	/
ANT 11/50%RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.602	0.64	1.000	0.602	1.6	/
Right Tilted	633334/3500.01	QPSK	0.460	-1.72	1.000	0.460	1.6	/
Left Cheek	633334/3500.01	QPSK	0.285	-0.16	1.000	0.285	1.6	/
Left Tilted	633334/3500.01	QPSK	0.209	1.42	1.000	0.209	1.6	/
ANT 16/1RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.230	1.15	1.000	0.230	1.6	/
Right Tilted	633334/3500.01	QPSK	0.045	-2.03	1.000	0.045	1.6	/
Left Cheek	633334/3500.01	QPSK	0.118	0.79	1.000	0.118	1.6	/
Left Tilted	633334/3500.01	QPSK	0.026	1.27	1.000	0.026	1.6	/
ANT 16/50%RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.169	0.16	1.000	0.169	1.6	/
Right Tilted	633334/3500.01	QPSK	0.033	-1.34	1.000	0.033	1.6	/



Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Left Cheek	633334/3500.01	QPSK	0.087	-0.57	1.000	0.087	1.6	/
Left Tilted	633334/3500.01	QPSK	0.019	-1.32	1.000	0.019	1.6	/
ANT 1/1RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.063	-1.77	1.000	0.063	1.6	/
Back Upward	633334/3500.01	QPSK	0.051	-0.31	1.000	0.051	1.6	/
ANT 1/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.047	1.69	1.000	0.047	1.6	/
Back Upward	633334/3500.01	QPSK	0.037	-0.46	1.000	0.037	1.6	/
ANT 8/1RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.082	2.12	1.000	0.082	1.6	/
Back Upward	633334/3500.01	QPSK	0.144	0.39	1.000	0.144	1.6	/
ANT 8/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.060	0.18	1.000	0.060	1.6	/
Back Upward	633334/3500.01	QPSK	0.106	-1.42	1.000	0.106	1.6	/
ANT 11/1RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.082	0.38	1.000	0.082	1.6	/
Back Upward	633334/3500.01	QPSK	0.068	-2.14	1.000	0.068	1.6	/
ANT 11/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.060	-0.57	1.000	0.060	1.6	/
Back Upward	633334/3500.01	QPSK	0.050	-1.60	1.000	0.050	1.6	/
ANT 16/1RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.145	1.14	1.000	0.145	1.6	/
Back Upward	633334/3500.01	QPSK	0.177	-0.89	1.000	0.177	1.6	53
ANT 16/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.113	0.71	1.000	0.113	1.6	/
Back Upward	633334/3500.01	QPSK	0.138	-1.76	1.000	0.138	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.100	1.31	1.000	0.100	1.6	/
Back Upward	633334/3500.01	QPSK	0.089	1.72	1.000	0.089	1.6	/
Right	633334/3500.01	QPSK	0.120	0.13	1.000	0.120	1.6	/
Bottom	633334/3500.01	QPSK	0.052	-1.53	1.000	0.052	1.6	/
ANT 1/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.078	-2.10	1.000	0.078	1.6	/
Back Upward	633334/3500.01	QPSK	0.070	-0.87	1.000	0.070	1.6	/
Right	633334/3500.01	QPSK	0.096	1.46	1.000	0.096	1.6	/
Bottom	633334/3500.01	QPSK	0.039	0.73	1.000	0.039	1.6	/
ANT 8/1RB#1 Full Power								



Front Upward	633334/3500.01	QPSK	0.158	-1.08	1.000	0.158	1.6	/
Back Upward	633334/3500.01	QPSK	0.236	0.56	1.000	0.236	1.6	/
Left	633334/3500.01	QPSK	0.272	-0.30	1.000	0.272	1.6	54
Top	633334/3500.01	QPSK	0.245	1.724	1.000	0.245	1.6	/
ANT 8/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.119	0.89	1.000	0.119	1.6	/
Back Upward	633334/3500.01	QPSK	0.176	0.16	1.000	0.176	1.6	/
Left	633334/3500.01	QPSK	0.207	0.66	1.000	0.207	1.6	/
Top	633334/3500.01	QPSK	0.184	-0.05	1.000	0.184	1.6	/
ANT 11/1RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.066	-0.23	1.000	0.066	1.6	/
Back Upward	633334/3500.01	QPSK	0.092	-1.57	1.000	0.092	1.6	/
Left	633334/3500.01	QPSK	0.077	1.27	1.000	0.077	1.6	/
Top	633334/3500.01	QPSK	0.173	0.23	1.000	0.173	1.6	/
ANT 11/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.049	-0.22	1.000	0.049	1.6	/
Back Upward	633334/3500.01	QPSK	0.067	-1.74	1.000	0.067	1.6	/
Left	633334/3500.01	QPSK	0.057	-1.62	1.000	0.057	1.6	/
Top	633334/3500.01	QPSK	0.127	-0.76	1.000	0.127	1.6	/
ANT 16/1RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.168	-0.24	1.000	0.168	1.6	/
Back Upward	633334/3500.01	QPSK	0.214	0.87	1.000	0.214	1.6	/
Left	633334/3500.01	QPSK	0.143	-1.63	1.000	0.143	1.6	/
ANT 16/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.125	0.50	1.000	0.125	1.6	/
Back Upward	633334/3500.01	QPSK	0.159	-1.33	1.000	0.159	1.6	/
Left	633334/3500.01	QPSK	0.108	0.21	1.000	0.108	1.6	/



Results overview of 5G NR Band n78(3450-3550MHz), DFT-QPSK, 100MHz Bandwidth

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.260	0.36	1.000	0.260	1.6	/
Right Tilted	633334/3500.01	QPSK	0.152	-1.51	1.000	0.152	1.6	/
Left Cheek	633334/3500.01	QPSK	0.173	0.41	1.000	0.173	1.6	/
Left Tilted	633334/3500.01	QPSK	0.127	0.96	1.000	0.127	1.6	/
ANT 1/50%RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.198	-1.28	1.000	0.198	1.6	/
Right Tilted	633334/3500.01	QPSK	0.116	-0.34	1.000	0.116	1.6	/
Left Cheek	633334/3500.01	QPSK	0.133	0.38	1.000	0.133	1.6	/
Left Tilted	633334/3500.01	QPSK	0.097	0.65	1.000	0.097	1.6	/
ANT 8/1RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.358	-2.03	1.000	0.358	1.6	/
Right Tilted	633334/3500.01	QPSK	0.321	-0.13	1.000	0.321	1.6	/
Left Cheek	633334/3500.01	QPSK	0.192	0.75	1.000	0.192	1.6	/
Left Tilted	633334/3500.01	QPSK	0.182	-2.60	1.000	0.182	1.6	/
ANT 8/50%RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.271	-1.02	1.000	0.271	1.6	/
Right Tilted	633334/3500.01	QPSK	0.243	-1.42	1.000	0.243	1.6	/
Left Cheek	633334/3500.01	QPSK	0.142	1.41	1.000	0.142	1.6	/
Left Tilted	633334/3500.01	QPSK	0.136	1.59	1.000	0.136	1.6	/
ANT 11/1RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.729	-1.45	1.000	0.729	1.6	55
Right Tilted	633334/3500.01	QPSK	0.634	2.06	1.000	0.634	1.6	/
Left Cheek	633334/3500.01	QPSK	0.462	-1.77	1.000	0.462	1.6	/
Left Tilted	633334/3500.01	QPSK	0.397	-1.23	1.000	0.397	1.6	/
ANT 11/50%RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.596	0.46	1.000	0.596	1.6	/
Right Tilted	633334/3500.01	QPSK	0.474	-0.89	1.000	0.474	1.6	/
Left Cheek	633334/3500.01	QPSK	0.312	1.75	1.000	0.312	1.6	/
Left Tilted	633334/3500.01	QPSK	0.299	0.91	1.000	0.299	1.6	/
ANT 16/1RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.339	-0.24	1.000	0.339	1.6	/
Right Tilted	633334/3500.01	QPSK	0.067	-1.14	1.000	0.067	1.6	/
Left Cheek	633334/3500.01	QPSK	0.176	-2.09	1.000	0.176	1.6	/
Left Tilted	633334/3500.01	QPSK	0.039	-0.69	1.000	0.039	1.6	/
ANT 16/50%RB#1 Full Power								
Right Cheek	633334/3500.01	QPSK	0.256	-1.17	1.000	0.256	1.6	/
Right Tilted	633334/3500.01	QPSK	0.050	1.51	1.000	0.050	1.6	/



Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Left Cheek	633334/3500.01	QPSK	0.131	-1.58	1.000	0.131	1.6	/
Left Tilted	633334/3500.01	QPSK	0.029	0.78	1.000	0.029	1.6	/
ANT 1/1RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.142	1.06	1.000	0.142	1.6	/
Back Upward	633334/3500.01	QPSK	0.115	-2.71	1.000	0.115	1.6	/
ANT 1/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.108	-0.14	1.000	0.108	1.6	/
Back Upward	633334/3500.01	QPSK	0.087	-0.96	1.000	0.087	1.6	/
ANT 8/1RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.084	1.01	1.000	0.084	1.6	/
Back Upward	633334/3500.01	QPSK	0.149	-0.47	1.000	0.149	1.6	/
ANT 8/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.063	0.89	1.000	0.063	1.6	/
Back Upward	633334/3500.01	QPSK	0.111	-1.17	1.000	0.111	1.6	/
ANT 11/1RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.215	1.03	1.000	0.215	1.6	56
Back Upward	633334/3500.01	QPSK	0.177	0.40	1.000	0.177	1.6	/
ANT 11/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.163	-0.89	1.000	0.163	1.6	/
Back Upward	633334/3500.01	QPSK	0.135	-1.24	1.000	0.135	1.6	/
ANT 16/1RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.135	0.82	1.000	0.135	1.6	/
Back Upward	633334/3500.01	QPSK	0.160	-0.63	1.000	0.160	1.6	/
ANT 16/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.103	1.70	1.000	0.103	1.6	/
Back Upward	633334/3500.01	QPSK	0.126	0.76	1.000	0.126	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 1/1RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.126	0.19	1.000	0.126	1.6	/
Back Upward	633334/3500.01	QPSK	0.112	-1.78	1.000	0.112	1.6	/
Right	633334/3500.01	QPSK	0.149	0.50	1.000	0.149	1.6	/
Bottom	633334/3500.01	QPSK	0.064	-2.56	1.000	0.064	1.6	/
ANT 1/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.095	0.77	1.000	0.095	1.6	/
Back Upward	633334/3500.01	QPSK	0.085	-1.25	1.000	0.085	1.6	/
Right	633334/3500.01	QPSK	0.113	-0.30	1.000	0.113	1.6	/
Bottom	633334/3500.01	QPSK	0.048	-1.35	1.000	0.048	1.6	/
ANT 8/1RB#1 Full Power								



Front Upward	633334/3500.01	QPSK	0.130	1.01	1.000	0.130	1.6	/
Back Upward	633334/3500.01	QPSK	0.193	-1.95	1.000	0.193	1.6	/
Left	633334/3500.01	QPSK	0.223	-0.39	1.000	0.223	1.6	/
Top	633334/3500.01	QPSK	0.200	0.69	1.000	0.200	1.6	/
ANT 8/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.098	1.28	1.000	0.098	1.6	/
Back Upward	633334/3500.01	QPSK	0.146	0.27	1.000	0.146	1.6	/
Left	633334/3500.01	QPSK	0.167	0.97	1.000	0.167	1.6	/
Top	633334/3500.01	QPSK	0.154	1.16	1.000	0.154	1.6	/
ANT 11/1RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.141	0.99	1.000	0.141	1.6	/
Back Upward	633334/3500.01	QPSK	0.196	1.55	1.000	0.196	1.6	/
Left	633334/3500.01	QPSK	0.164	-0.31	1.000	0.164	1.6	/
Top	633334/3500.01	QPSK	0.369	0.28	1.000	0.369	1.6	57
ANT 11/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.107	-0.48	1.000	0.107	1.6	/
Back Upward	633334/3500.01	QPSK	0.149	-1.29	1.000	0.149	1.6	/
Left	633334/3500.01	QPSK	0.124	0.64	1.000	0.124	1.6	/
Top	633334/3500.01	QPSK	0.281	-0.38	1.000	0.281	1.6	/
ANT 16/1RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.154	-0.70	1.000	0.154	1.6	/
Back Upward	633334/3500.01	QPSK	0.194	-1.78	1.000	0.194	1.6	/
Left	633334/3500.01	QPSK	0.131	-2.53	1.000	0.131	1.6	/
ANT 16/50%RB#1 Full Power								
Front Upward	633334/3500.01	QPSK	0.115	-1.20	1.000	0.115	1.6	/
Back Upward	633334/3500.01	QPSK	0.147	1.53	1.000	0.147	1.6	/
Left	633334/3500.01	QPSK	0.100	2.95	1.000	0.100	1.6	/



Results overview of WIFI2.4G

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 7								
Right Cheek	6/2437.0	802.11b	0.286	3.36	1.151	0.329	1.6	/
Right Tilted	6/2437.0	802.11b	0.296	-0.48	1.151	0.341	1.6	/
Left Cheek	6/2437.0	802.11b	0.304	-2.53	1.151	0.350	1.6	/
Left Tilted	6/2437.0	802.11b	0.344	-1.61	1.151	0.396	1.6	/
Left Tilted	1/2412.0	802.11b	0.374	-0.24	1.164	0.435	1.6	58
Left Tilted	11/2462.0	802.11b	0.246	-0.83	1.130	0.278	1.6	/
ANT 9								
Right Cheek	6/2437.0	802.11g	0.201	1.10	1.138	0.229	1.6	/
Right Tilted	6/2437.0	802.11g	0.114	-0.78	1.138	0.130	1.6	/
Left Cheek	6/2437.0	802.11g	0.341	3.39	1.138	0.388	1.6	/
Left Tilted	6/2437.0	802.11g	0.182	2.31	1.138	0.207	1.6	/
Left Cheek	1/2412.0	802.11g	0.309	0.84	1.084	0.335	1.6	/
Left Cheek	11/2462.0	802.11g	0.334	-2.45	1.081	0.361	1.6	/
MIMO ANT 7+9								
Right Cheek	6/2437.0	802.11n20	0.141	-0.12	1.156	0.163	1.6	/
Right Tilted	6/2437.0	802.11n20	0.149	-1.19	1.156	0.172	1.6	/
Left Cheek	6/2437.0	802.11n20	0.163	1.46	1.156	0.188	1.6	/
Left Tilted	6/2437.0	802.11n20	0.172	-3.69	1.156	0.199	1.6	/
Left Tilted	1/2412.0	802.11n20	0.171	-3.48	1.074	0.184	1.6	/
Left Tilted	11/2462.0	802.11n20	0.148	2.36	1.094	0.162	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 7								
Front Upward	6/2437.0	802.11b	0.058	0.63	1.151	0.067	1.6	/
Back Upward	6/2437.0	802.11b	0.053	-2.56	1.151	0.061	1.6	/
Front Upward	1/2412.0	802.11b	0.062	1.25	1.164	0.072	1.6	59
Front Upward	11/2462.0	802.11b	0.055	0.89	1.130	0.062	1.6	/
ANT 9								
Front Upward	6/2437.0	802.11g	0.061	-2.76	1.138	0.069	1.6	/



Back Upward	6/2437.0	802.11g	0.053	-0.74	1.138	0.060	1.6	/
Front Upward	1/2412.0	802.11g	0.052	-2.51	1.084	0.056	1.6	/
Front Upward	11/2462.0	802.11g	0.059	0.56	1.081	0.064	1.6	/
MIMO ANT 7+9								
Front Upward	6/2437.0	802.11n20	0.041	0.81	1.156	0.047	1.6	/
Back Upward	6/2437.0	802.11n20	0.035	-1.70	1.156	0.040	1.6	/
Front Upward	1/2412.0	802.11n20	0.040	0.92	1.074	0.043	1.6	/
Front Upward	11/2462.0	802.11n20	0.036	-2.22	1.094	0.039	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 7								
Front Upward	6/2437.0	802.11b	0.116	0.71	1.151	0.134	1.6	/
Back Upward	6/2437.0	802.11b	0.091	-3.75	1.151	0.105	1.6	/
Right	6/2437.0	802.11b	0.164	-1.61	1.151	0.189	1.6	/
Top	6/2437.0	802.11b	0.236	-0.59	1.151	0.272	1.6	/
Top	1/2412.0	802.11b	0.264	2.21	1.164	0.307	1.6	/
Top	11/2462.0	802.11b	0.210	-3.70	1.130	0.237	1.6	/
ANT 9								
Front Upward	6/2437.0	802.11g	0.117	1.48	1.138	0.133	1.6	/
Back Upward	6/2437.0	802.11g	0.130	2.01	1.138	0.148	1.6	/
Right	6/2437.0	802.11g	0.282	-0.88	1.138	0.321	1.6	60
Top	6/2437.0	802.11g	0.065	3.26	1.138	0.074	1.6	/
Right	1/2412.0	802.11g	0.243	-1.37	1.084	0.263	1.6	/
Right	11/2462.0	802.11g	0.262	-2.13	1.081	0.283	1.6	/
MIMO ANT 7+9								
Front Upward	6/2437.0	802.11n20	0.095	0.52	1.156	0.110	1.6	/
Back Upward	6/2437.0	802.11n20	0.079	-2.24	1.156	0.091	1.6	/
Right	6/2437.0	802.11n20	0.134	-1.02	1.156	0.155	1.6	/
Top	6/2437.0	802.11n20	0.112	-0.95	1.156	0.129	1.6	/
Right	1/2412.0	802.11n20	0.126	0.56	1.074	0.135	1.6	/
Right	11/2462.0	802.11n20	0.119	3.86	1.094	0.130	1.6	/



Results overview of WI-FI U-NII 1

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 9								
Right Cheek	44/5220.0	802.11a	0.133	-0.68	1.153	0.153	1.6	/
Right Tilted	44/5220.0	802.11a	0.110	1.71	1.153	0.127	1.6	/
Left Cheek	44/5220.0	802.11a	0.290	-3.45	1.153	0.334	1.6	/
Left Tilted	44/5220.0	802.11a	0.231	-2.81	1.153	0.266	1.6	/
Left Cheek	36/5180.0	802.11a	0.244	-1.16	1.164	0.284	1.6	/
Left Cheek	48/5240.0	802.11a	0.306	2.50	1.178	0.360	1.6	/
ANT 10								
Right Cheek	44/5220.0	802.11a	0.365	1.09	1.047	0.382	1.6	/
Right Tilted	44/5220.0	802.11a	0.311	-3.12	1.047	0.326	1.6	/
Left Cheek	44/5220.0	802.11a	0.619	-1.28	1.047	0.648	1.6	/
Left Tilted	44/5220.0	802.11a	0.539	0.74	1.047	0.564	1.6	/
Left Cheek	36/5180.0	802.11a	0.636	0.61	1.052	0.669	1.6	61
Left Cheek	48/5240.0	802.11a	0.588	-2.27	1.021	0.600	1.6	/
MIMO ANT 9+10								
Right Cheek	44/5220.0	802.11ac20	0.265	0.46	1.151	0.305	1.6	/
Right Tilted	44/5220.0	802.11ac20	0.228	-2.67	1.151	0.262	1.6	/
Left Cheek	44/5220.0	802.11ac20	0.355	1.16	1.151	0.409	1.6	/
Left Tilted	44/5220.0	802.11ac20	0.284	-3.63	1.151	0.327	1.6	/
Left Cheek	36/5180.0	802.11ac20	0.364	-0.93	1.167	0.425	1.6	/
Left Cheek	48/5240.0	802.11ac20	0.321	0.78	1.130	0.363	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 9								
Front Upward	44/5220.0	802.11a	0.103	1.20	1.153	0.119	1.6	/
Back Upward	44/5220.0	802.11a	0.184	-0.82	1.153	0.212	1.6	/
Back Upward	36/5180.0	802.11a	0.155	-2.57	1.164	0.180	1.6	/
Back Upward	48/5240.0	802.11a	0.206	-0.43	1.178	0.243	1.6	62
ANT 10								



Front Upward	44/5220.0	802.11a	0.089	-0.70	1.047	0.093	1.6	/
Back Upward	44/5220.0	802.11a	0.122	1.81	1.047	0.128	1.6	/
Back Upward	36/5180.0	802.11a	0.136	-2.45	1.052	0.143	1.6	/
Back Upward	48/5240.0	802.11a	0.110	-0.52	1.021	0.112	1.6	/
MIMO ANT 9+10								
Front Upward	44/5220.0	802.11ac20	0.085	-0.67	1.151	0.098	1.6	/
Back Upward	44/5220.0	802.11ac20	0.120	0.10	1.151	0.138	1.6	/
Back Upward	36/5180.0	802.11ac20	0.144	-1.51	1.167	0.168	1.6	/
Back Upward	48/5240.0	802.11ac20	0.130	-0.80	1.130	0.147	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 9								
Front Upward	44/5220.0	802.11a	0.081	0.53	1.153	0.093	1.6	/
Back Upward	44/5220.0	802.11a	0.296	-2.44	1.153	0.341	1.6	/
Right	44/5220.0	802.11a	0.151	1.27	1.153	0.174	1.6	/
Top	44/5220.0	802.11a	0.057	-3.18	1.153	0.066	1.6	/
Back Upward	36/5180.0	802.11a	0.251	-2.37	1.164	0.292	1.6	/
Back Upward	48/5240.0	802.11a	0.315	-0.48	1.178	0.371	1.6	63
ANT 10								
Front Upward	44/5220.0	802.11a	0.124	-0.91	1.047	0.130	1.6	/
Back Upward	44/5220.0	802.11a	0.163	-2.03	1.047	0.171	1.6	/
Right	44/5220.0	802.11a	0.068	-1.29	1.047	0.071	1.6	/
Top	44/5220.0	802.11a	0.112	2.82	1.047	0.117	1.6	/
Back Upward	36/5180.0	802.11a	0.180	0.91	1.052	0.189	1.6	/
Back Upward	48/5240.0	802.11a	0.161	-2.61	1.021	0.164	1.6	/
MIMO ANT 9+10								
Front Upward	44/5220.0	802.11ac20	0.153	-1.06	1.151	0.176	1.6	/
Back Upward	44/5220.0	802.11ac20	0.200	-2.47	1.151	0.230	1.6	/
Right	44/5220.0	802.11ac20	0.149	-0.92	1.151	0.171	1.6	/
Top	44/5220.0	802.11ac20	0.193	3.10	1.151	0.222	1.6	/
Back Upward	36/5180.0	802.11ac20	0.209	-2.11	1.167	0.244	1.6	/
Back Upward	48/5240.0	802.11ac20	0.176	-0.64	1.130	0.199	1.6	/



Results overview of WI-FI U-NII 2A

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 9								
Right Cheek	60/5300.0	802.11a	0.150	-0.68	1.183	0.177	1.6	/
Right Tilted	60/5300.0	802.11a	0.128	1.71	1.183	0.151	1.6	/
Left Cheek	60/5300.0	802.11a	0.278	-3.45	1.183	0.329	1.6	/
Left Tilted	60/5300.0	802.11a	0.222	-1.81	1.183	0.263	1.6	/
Left Cheek	52/5260.0	802.11a	0.239	-0.16	1.072	0.256	1.6	/
Left Cheek	64/5320.0	802.11a	0.295	2.50	1.127	0.332	1.6	/
ANT 10								
Right Cheek	60/5300.0	802.11a	0.287	1.32	1.074	0.308	1.6	/
Right Tilted	60/5300.0	802.11a	0.232	3.60	1.074	0.249	1.6	/
Left Cheek	60/5300.0	802.11a	0.519	-0.78	1.074	0.557	1.6	/
Left Tilted	60/5300.0	802.11a	0.438	-1.59	1.074	0.470	1.6	/
Left Cheek	52/5260.0	802.11a	0.569	-0.57	1.030	0.586	1.6	64
Left Cheek	64/5320.0	802.11a	0.505	-2.16	1.076	0.543	1.6	/
MIMO ANT 9+10								
Right Cheek	60/5300.0	802.11n20	0.233	0.40	1.064	0.248	1.6	/
Right Tilted	60/5300.0	802.11n20	0.201	-2.67	1.064	0.214	1.6	/
Left Cheek	60/5300.0	802.11n20	0.311	-1.02	1.064	0.331	1.6	/
Left Tilted	60/5300.0	802.11n20	0.250	-3.63	1.064	0.266	1.6	/
Left Cheek	52/5260.0	802.11n20	0.346	-2.36	1.161	0.402	1.6	/
Left Cheek	64/5320.0	802.11n20	0.303	0.78	1.125	0.341	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 9								
Front Upward	60/5300.0	802.11a	0.144	-1.10	1.183	0.170	1.6	/
Back Upward	60/5300.0	802.11a	0.211	0.48	1.183	0.250	1.6	/
Back Upward	52/5260.0	802.11a	0.178	-0.26	1.072	0.191	1.6	/
Back Upward	64/5320.0	802.11a	0.234	-0.69	1.127	0.264	1.6	65
ANT 10								
Front Upward	60/5300.0	802.11a	0.056	1.28	1.074	0.060	1.6	/



Back Upward	60/5300.0	802.11a	0.092	0.74	1.074	0.099	1.6	/
Back Upward	52/5260.0	802.11a	0.102	-0.17	1.030	0.105	1.6	/
Back Upward	64/5320.0	802.11a	0.081	-1.00	1.076	0.087	1.6	/
MIMO ANT 9+10								
Front Upward	60/5300.0	802.11n20	0.086	0.90	1.064	0.092	1.6	/
Back Upward	60/5300.0	802.11n20	0.112	-0.73	1.064	0.119	1.6	/
Back Upward	52/5260.0	802.11n20	0.149	-1.65	1.161	0.173	1.6	/
Back Upward	64/5320.0	802.11n20	0.110	-0.29	1.125	0.124	1.6	/



Results overview of WI-FI U-NII 2C

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 9								
Right Cheek	120/5600.0	802.11a	0.157	2.85	1.130	0.177	1.6	/
Right Tilted	120/5600.0	802.11a	0.134	3.14	1.130	0.151	1.6	/
Left Cheek	120/5600.0	802.11a	0.291	-0.57	1.130	0.329	1.6	/
Left Tilted	120/5600.0	802.11a	0.232	-1.76	1.130	0.262	1.6	/
Left Cheek	100/5500.0	802.11a	0.266	-0.53	1.081	0.288	1.6	/
Left Cheek	140/5700.0	802.11a	0.310	1.48	1.107	0.343	1.6	/
ANT 10								
Right Cheek	120/5600.0	802.11a	0.216	1.35	1.086	0.235	1.6	/
Right Tilted	120/5600.0	802.11a	0.183	-0.12	1.086	0.199	1.6	/
Left Cheek	120/5600.0	802.11a	0.399	0.67	1.086	0.433	1.6	/
Left Tilted	120/5600.0	802.11a	0.318	-0.28	1.086	0.345	1.6	/
Left Cheek	100/5500.0	802.11a	0.406	-3.30	1.146	0.465	1.6	/
Left Cheek	140/5700.0	802.11a	0.437	1.53	1.104	0.482	1.6	66
MIMO ANT 9+10								
Right Cheek	120/5600.0	802.11n20	0.177	1.37	1.062	0.188	1.6	/
Right Tilted	120/5600.0	802.11n20	0.151	-2.02	1.062	0.160	1.6	/
Left Cheek	120/5600.0	802.11n20	0.236	0.42	1.062	0.251	1.6	/
Left Tilted	120/5600.0	802.11n20	0.190	-1.21	1.062	0.202	1.6	/
Left Cheek	100/5500.0	802.11n20	0.201	-2.56	1.109	0.223	1.6	/
Left Cheek	140/5700.0	802.11n20	0.162	-0.90	1.148	0.186	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 9								
Front Upward	120/5600.0	802.11a	0.113	-1.72	1.130	0.128	1.6	/
Back Upward	120/5600.0	802.11a	0.184	-1.11	1.130	0.208	1.6	/
Back Upward	100/5500.0	802.11a	0.154	0.20	1.081	0.166	1.6	/
Back Upward	140/5700.0	802.11a	0.205	-0.37	1.107	0.227	1.6	67
ANT 10								
Front Upward	120/5600.0	802.11a	0.094	-1.37	1.086	0.102	1.6	/



Back Upward	120/5600.0	802.11a	0.120	-0.62	1.086	0.130	1.6	/
Back Upward	100/5500.0	802.11a	0.115	0.95	1.146	0.132	1.6	/
Back Upward	140/5700.0	802.11a	0.152	-1.20	1.104	0.168	1.6	/
MIMO ANT 9+10								
Front Upward	120/5600.0	802.11n20	0.085	-0.93	1.062	0.090	1.6	/
Back Upward	120/5600.0	802.11n20	0.101	1.46	1.062	0.107	1.6	/
Back Upward	100/5500.0	802.11n20	0.075	-2.30	1.109	0.083	1.6	/
Back Upward	140/5700.0	802.11n20	0.089	-1.65	1.148	0.102	1.6	/



Results overview of WI-FI U-NII 3

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 9								
Right Cheek	157/5785.0	802.11a	0.157	2.93	1.059	0.166	1.6	/
Right Tilted	157/5785.0	802.11a	0.133	0.87	1.059	0.141	1.6	/
Left Cheek	157/5785.0	802.11a	0.290	-0.18	1.059	0.307	1.6	/
Left Tilted	157/5785.0	802.11a	0.231	-2.12	1.059	0.245	1.6	/
Left Cheek	149/5745.0	802.11a	0.316	3.49	1.167	0.369	1.6	/
Left Cheek	165/5825.0	802.11a	0.276	1.60	1.096	0.302	1.6	/
ANT 10								
Right Cheek	157/5785.0	802.11a	0.241	0.33	1.086	0.262	1.6	/
Right Tilted	157/5785.0	802.11a	0.194	-2.07	1.086	0.211	1.6	/
Left Cheek	157/5785.0	802.11a	0.445	1.82	1.086	0.483	1.6	/
Left Tilted	157/5785.0	802.11a	0.355	-0.57	1.086	0.386	1.6	/
Left Cheek	149/5745.0	802.11a	0.412	-2.26	1.084	0.447	1.6	/
Left Cheek	165/5825.0	802.11a	0.453	-3.69	1.143	0.518	1.6	68
MIMO ANT 9+10								
Right Cheek	157/5785.0	802.11n20	0.194	2.16	1.064	0.206	1.6	/
Right Tilted	157/5785.0	802.11n20	0.167	0.47	1.064	0.178	1.6	/
Left Cheek	157/5785.0	802.11n20	0.259	-3.34	1.064	0.276	1.6	/
Left Tilted	157/5785.0	802.11n20	0.208	1.45	1.064	0.221	1.6	/
Left Cheek	149/5745.0	802.11n20	0.248	-0.90	1.159	0.287	1.6	/
Left Cheek	165/5825.0	802.11n20	0.226	-2.95	1.079	0.244	1.6	/
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 9								
Front Upward	157/5785.0	802.11a	0.038	-0.56	1.059	0.040	1.6	/
Back Upward	157/5785.0	802.11a	0.100	-2.23	1.059	0.106	1.6	/
Back Upward	149/5745.0	802.11a	0.109	-0.15	1.167	0.127	1.6	/
Back Upward	165/5825.0	802.11a	0.085	1.62	1.096	0.093	1.6	/
ANT 10								
Front Upward	157/5785.0	802.11a	0.098	-1.11	1.086	0.106	1.6	/



Back Upward	157/5785.0	802.11a	0.104	-2.53	1.086	0.113	1.6	/
Back Upward	149/5745.0	802.11a	0.096	0.72	1.084	0.104	1.6	/
Back Upward	165/5825.0	802.11a	0.117	0.21	1.143	0.134	1.6	69
MIMO ANT 9+10								
Front Upward	157/5785.0	802.11n20	0.081	-1.24	1.064	0.086	1.6	/
Back Upward	157/5785.0	802.11n20	0.110	-0.40	1.064	0.117	1.6	/
Back Upward	149/5745.0	802.11n20	0.095	-1.62	1.159	0.110	1.6	/
Back Upward	165/5825.0	802.11n20	0.101	0.10	1.079	0.109	1.6	/
Hotspot(10mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 9								
Front Upward	157/5785.0	802.11a	0.041	1.57	1.059	0.043	1.6	/
Back Upward	157/5785.0	802.11a	0.149	-2.11	1.059	0.158	1.6	/
Right	157/5785.0	802.11a	0.077	-3.50	1.059	0.082	1.6	/
Top	157/5785.0	802.11a	0.029	0.97	1.059	0.031	1.6	/
Back Upward	149/5745.0	802.11a	0.158	-1.10	1.167	0.184	1.6	70
Back Upward	165/5825.0	802.11a	0.132	-3.78	1.096	0.145	1.6	/
ANT 10								
Front Upward	157/5785.0	802.11a	0.112	-3.61	1.086	0.122	1.6	/
Back Upward	157/5785.0	802.11a	0.140	-1.20	1.086	0.152	1.6	/
Right	157/5785.0	802.11a	0.061	2.21	1.086	0.066	1.6	/
Top	157/5785.0	802.11a	0.101	-1.04	1.086	0.110	1.6	/
Back Upward	149/5745.0	802.11a	0.126	1.51	1.084	0.137	1.6	/
Back Upward	165/5825.0	802.11a	0.147	-2.56	1.143	0.168	1.6	/
MIMO ANT 9+10								
Front Upward	157/5785.0	802.11n20	0.094	-1.95	1.064	0.100	1.6	/
Back Upward	157/5785.0	802.11n20	0.135	-3.27	1.064	0.144	1.6	/
Right	157/5785.0	802.11n20	0.091	2.19	1.064	0.097	1.6	/
Top	157/5785.0	802.11n20	0.118	-0.78	1.064	0.126	1.6	/
Back Upward	149/5745.0	802.11n20	0.121	-1.84	1.159	0.140	1.6	/
Back Upward	165/5825.0	802.11n20	0.109	-1.21	1.079	0.118	1.6	/



Results overview of Bluetooth

Head(0mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 7								
Right Cheek	19/2440.0	BLE 2M (GFSK)	0.104	-0.16	1.183	0.123	1.6	/
Right Tilted	19/2440.0	BLE 2M (GFSK)	0.118	0.90	1.183	0.140	1.6	/
Left Cheek	19/2440.0	BLE 2M (GFSK)	0.100	-2.14	1.183	0.118	1.6	/
Left Tilted	19/2440.0	BLE 2M (GFSK)	0.109	-1.49	1.183	0.129	1.6	/
Right Tilted	0/2402.0	BLE 2M (GFSK)	0.113	-0.45	1.119	0.126	1.6	/
Right Tilted	39/2480.0	BLE 2M (GFSK)	0.105	1.21	1.122	0.118	1.6	/
ANT 9								
Right Cheek	19/2440.0	BLE 2M (GFSK)	0.081	0.11	1.104	0.089	1.6	/
Right Tilted	19/2440.0	BLE 2M (GFSK)	0.035	-0.61	1.104	0.039	1.6	/
Left Cheek	19/2440.0	BLE 2M (GFSK)	0.119	-1.34	1.104	0.131	1.6	/
Left Tilted	19/2440.0	BLE 2M (GFSK)	0.056	-0.85	1.104	0.062	1.6	/
Left Cheek	0/2402.0	BLE 2M (GFSK)	0.108	0.72	1.125	0.122	1.6	/
Left Cheek	39/2480.0	BLE 2M (GFSK)	0.126	-1.19	1.081	0.136	1.6	71
Body-worn(15mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
ANT 7								
Front Upward	19/2440.0	BLE 2M (GFSK)	0.055	0.68	1.183	0.065	1.6	/
Back Upward	19/2440.0	BLE 2M (GFSK)	0.036	-0.90	1.183	0.043	1.6	/
Front Upward	0/2402.0	BLE 2M (GFSK)	0.050	-1.26	1.119	0.056	1.6	/
Front Upward	39/2480.0	BLE 2M (GFSK)	0.048	-0.19	1.122	0.054	1.6	/
ANT 9								



Front Upward	19/2440.0	BLE 2M (GFSK)	0.044	0.44	1.104	0.049	1.6	/
Back Upward	19/2440.0	BLE 2M (GFSK)	0.061	-2.07	1.104	0.067	1.6	/
Back Upward	0/2402.0	BLE 2M (GFSK)	0.052	0.21	1.125	0.059	1.6	/
Back Upward	39/2480.0	BLE 2M (GFSK)	0.065	1.05	1.081	0.070	1.6	72

Note:

When the 1-g SAR for the mid-band channel or the channel with the highest output power satisfy the following conditions, testing of the other channels in the band is not required. (Per KDB 447498 D01 General RF Exposure Guidance v06)

- ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz
- ≤ 0.6 W/kg, when the transmission band is between 100 MHz and 200 MHz
- ≤ 0.4 W/kg, when the transmission band is ≥ 200 MHz



12. Simultaneous Transmissions Analysis

Localized Specific Absorption Rate (SAR) of this portable wireless device has been measured in all cases requested by the relevant standards cited in Clause 6 of this report. Maximum localized SAR is **below** exposure limits specified in the relevant standards.

Simultaneous SAR

No.	Transmitter Combinations	Head	Body	Hotspot
1	WWAN + WLAN 2.4GHzSISO/MIMO	Support	Support	Support
2	WWAN + WLAN 5.2G/5.8GHzSISO/MIMO	Support	Support	Support
3	WWAN + WLAN 5.3G/5.6GHzSISO/MIMO	Support	Support	No
4	WWAN+ Bluetooth	Support	Support	No
5	WWAN + WLAN 5GHz SISO/MIMO +Bluetooth ANT 7	Support	Support	No
6	WWAN + WLAN 5GHz ANT 10 +Bluetooth(ANT 7/ANT 9)	Support	Support	No

Note:

- The NR band and EN-DC mode base on FTM mode, setting the NR Band at The most conservative full power to test.
- EUT will choose each GSM, WCDMA, LTE and 5G NR(SA&NSA) according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- Simultaneous Transmission SAR evaluation is not required for BT and WLAN 2.4G, because the software mechanism have been incorporated to guarantee that the WLAN 2.4G and Bluetooth transmitters would not simultaneously operate.
- The reported SAR summation is calculated based on the same configuration and test position.
- The same antenna for LTE and NR cannot combined on NSA mode.



Applicable Multiple Scenario Evaluation

WIFI SAR:

Position 1gSAR(W/kg)		2.4GWIFI	2.4GWIFI	2.4GWIFI	5.2GWIFI	5.2GWIFI	5.2GWIFI	5.3GWIFI	5.3GWIFI
		ANT 7	ANT 9	ANT 7 +ANT 9 MIMO	ANT 9	ANT 10	ANT 9 +ANT 10 MIMO	ANT 9	ANT 10
		1	2	3	4	5	6	7	8
Head 0mm distance	Right Cheek	0.329	0.229	0.163	0.153	0.382	0.305	0.177	0.308
	Right Tilted	0.341	0.130	0.172	0.127	0.326	0.262	0.151	0.249
	Left Cheek	0.350	0.388	0.188	0.360	0.669	0.409	0.332	0.586
	Left Tilted	0.435	0.207	0.199	0.266	0.564	0.327	0.263	0.470
Body-worn 15mm distance	Front	0.071	0.069	0.047	0.119	0.093	0.098	0.170	0.060
	Back	0.061	0.060	0.040	0.243	0.143	0.168	0.264	0.105
Hotspot 10mm distance	Front	0.134	0.133	0.110	0.093	0.130	0.176	/	/
	Back	0.105	0.148	0.091	0.371	0.189	0.244	/	/
	Left	/	/	/	/	/	/	/	/
	Right	0.189	0.321	0.155	0.174	0.071	0.171	/	/
	Top	0.307	0.074	0.129	0.066	0.117	0.222	/	/
	Bottom	/	/	/	/	/	/	/	/

Position 1gSAR(W/kg)		5.3GWIFI	5.6GWIFI	5.6GWIFI	5.6GWIFI	5.8GWIFI	5.8GWIFI	5.8GWIFI	BT	BT
		ANT 9 +ANT 10 MIMO	ANT 9	ANT 9	ANT 10 +ANT 10 MIMO	ANT 9	ANT 10	ANT 9 +ANT 10 MIMO	ANT 7	ANT 9
		9	10	11	12	13	14	15	16	17
Head 0mm distance	Right Cheek	0.248	0.177	0.235	0.188	0.166	0.262	0.206	0.123	0.089
	Right Tilted	0.214	0.151	0.199	0.160	0.141	0.211	0.178	0.140	0.039
	Left Cheek	0.402	0.343	0.482	0.251	0.369	0.518	0.287	0.118	0.136
	Left Tilted	0.266	0.262	0.345	0.202	0.245	0.386	0.221	0.129	0.062
Body -worn 15mm distance	Front	0.092	0.128	0.102	0.090	0.040	0.106	0.086	0.065	0.049
	Back	0.173	0.227	0.168	0.107	0.127	0.134	0.117	0.043	0.070
Hotspot 10mm distance	Front	/	/	/	/	0.043	0.122	0.100	/	/
	Back	/	/	/	/	0.184	0.168	0.144	/	/
	Left	/	/	/	/	/	/	/	/	/
	Right	/	/	/	/	0.082	0.066	0.097	/	/
	Top	/	/	/	/	0.031	0.110	0.126	/	/
	Bottom	/	/	/	/	/	/	/	/	/



WiFi and Bluetooth simultaneous transmission mode

Position 1gSAR(W/kg)		WiFi and Bluetooth Simultaneous SAR							
		1	2	3	4	5	6	7	8
Head 0mm distance	Right Cheek	0.329	0.229	0.163	0.153	0.382	0.305	0.177	0.308
	Right Tilted	0.341	0.130	0.172	0.127	0.326	0.262	0.151	0.249
	Left Cheek	0.350	0.388	0.188	0.360	0.669	0.409	0.332	0.586
	Left Tilted	0.435	0.207	0.199	0.266	0.564	0.327	0.263	0.470
Body-worn 15mm distance	Front	0.071	0.069	0.047	0.119	0.093	0.098	0.170	0.060
	Back	0.061	0.060	0.040	0.243	0.143	0.168	0.264	0.105
Hotspot 10mm distance	Front	0.134	0.133	0.110	0.093	0.130	0.176	/	/
	Back	0.105	0.148	0.091	0.371	0.189	0.244	/	/
	Left	/	/	/	/	/	/	/	/
	Right	0.189	0.321	0.155	0.174	0.071	0.171	/	/
	Top	0.307	0.074	0.129	0.066	0.117	0.222	/	/
	Bottom	/	/	/	/	/	/	/	/

Position 1gSAR(W/kg)		WiFi and Bluetooth Simultaneous SAR							
		9	10	11	12	13	14	15	16
Head 0mm distance	Right Cheek	0.248	0.177	0.235	0.188	0.166	0.262	0.206	0.123
	Right Tilted	0.214	0.151	0.199	0.160	0.141	0.211	0.178	0.140
	Left Cheek	0.402	0.343	0.482	0.251	0.369	0.518	0.287	0.118
	Left Tilted	0.266	0.262	0.345	0.202	0.245	0.386	0.221	0.129
Body-worn 15mm distance	Front	0.092	0.128	0.102	0.090	0.040	0.106	0.086	0.065
	Back	0.173	0.227	0.168	0.107	0.127	0.134	0.117	0.043
Hotspot 10mm distance	Front	/	/	/	/	0.043	0.122	0.100	/
	Back	/	/	/	/	0.184	0.168	0.144	/
	Left	/	/	/	/	/	/	/	/
	Right	/	/	/	/	0.082	0.066	0.097	/
	Top	/	/	/	/	0.031	0.110	0.126	/
	Bottom	/	/	/	/	/	/	/	/



Position 1gSAR(W/kg)		WIFI and Bluetooth Simultaneous SAR							
		17	4+16	5+16	6+16	7+16	8+16	9+16	10+16
Head 0mm distance	Right Cheek	0.089	0.276	0.505	0.428	0.300	0.431	0.371	0.300
	Right Tilted	0.039	0.267	0.466	0.402	0.291	0.389	0.354	0.291
	Left Cheek	0.136	0.478	0.787	0.527	0.450	0.704	0.520	0.461
	Left Tilted	0.062	0.395	0.693	0.456	0.392	0.599	0.395	0.391
Body-worn 15mm distance	Front	0.049	0.184	0.158	0.163	0.235	0.125	0.157	0.193
	Back	0.070	0.286	0.186	0.211	0.307	0.148	0.216	0.270
Hotspot 10mm distance	Front	/	0.093	0.130	0.176	/	/	/	/
	Back	/	0.371	0.189	0.244	/	/	/	/
	Left	/	/	/	/	/	/	/	/
	Right	/	0.174	0.071	0.171	/	/	/	/
	Top	/	0.066	0.117	0.222	/	/	/	/
	Bottom	/	/	/	/	/	/	/	/

Position 1gSAR(W/kg)		WIFI and Bluetooth Simultaneous SAR							
		11+16	12+16	13+16	14+16	15+16	5+17	8+17	11+17
Head 0mm distance	Right Cheek	0.358	0.311	0.289	0.385	0.329	0.471	0.397	0.324
	Right Tilted	0.339	0.300	0.281	0.351	0.318	0.365	0.288	0.238
	Left Cheek	0.600	0.369	0.487	0.636	0.405	0.805	0.722	0.618
	Left Tilted	0.474	0.331	0.374	0.515	0.350	0.626	0.532	0.407
Body-worn 15mm distance	Front	0.167	0.155	0.105	0.171	0.151	0.142	0.109	0.151
	Back	0.211	0.150	0.170	0.177	0.160	0.213	0.175	0.238
Hotspot 10mm distance	Front	/	/	0.043	0.122	0.100	0.130	/	/
	Back	/	/	0.184	0.168	0.144	0.189	/	/
	Left	/	/	/	/	/	/	/	/
	Right	/	/	0.082	0.066	0.097	0.071	/	/
	Top	/	/	0.031	0.110	0.126	0.117	/	/
	Bottom	/	/	/	/	/	/	/	/



Position 1gSAR(W/kg)		WIFI and Bluetooth Simultaneous SAR	Max WIFI and Bluetooth Simultaneous SAR
		14+17	
Head 0mm distance	Right Cheek	0.351	0.505
	Right Tilted	0.250	0.466
	Left Cheek	0.654	0.805
	Left Tilted	0.448	0.693
Body-worn 15mm distance	Front	0.155	0.235
	Back	0.204	0.307
Hotspot 10mm distance	Front	0.122	0.176
	Back	0.168	0.371
	Left	/	/
	Right	0.066	0.321
	Top	0.110	0.307
	Bottom	/	/



5G NR ENDC

Position			LTE Band 5 ANT 1 Test Data EN-DC SAR(W/kg)				
			LTE Band 5 ANT 1 SAR	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	5A ANT 1
Head 0mm distance	Right Cheek	20525/836.5	0.160	24.12	21.5	0.547	0.090
	Right Tilted	20525/836.5	0.095	24.12	21.5	0.547	0.053
	Left Cheek	20525/836.5	0.110	24.12	21.5	0.547	0.062
	Left Tilted	20525/836.5	0.081	24.12	21.5	0.547	0.045
	Right Cheek	20450/829.0	0.165	24.14	21.5	0.545	0.094
	Right Tilted	20600/844.0	0.155	24.15	21.5	0.543	0.087
Body 15mm distance	Front	20525/836.5	0.194	24.12	21.5	0.547	0.109
	Back	20525/836.5	0.155	24.12	21.5	0.547	0.087
	Front	20450/829.0	0.179	24.14	21.5	0.545	0.102
	Front	20600/844.0	0.187	24.15	21.5	0.543	0.105
Hotspot 10mm distance	Front	20525/836.5	0.335	24.12	21.5	0.547	0.188
	Back	20525/836.5	0.299	24.12	21.5	0.547	0.168
	Right	20525/836.5	0.402	24.12	21.5	0.547	0.226
	Bottom	20525/836.5	0.169	24.12	21.5	0.547	0.095
	Right	20450/829.0	0.355	24.14	21.5	0.545	0.202
	Right	20600/844.0	0.399	24.15	21.5	0.543	0.223



Position			LTE Band 5 ANT 3 Test Data EN-DC SAR(W/kg)				
			LTE Band 5 ANT 3 SAR	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	5A ANT 3
Head 0mm distance	Right Cheek	20525/836.5	0.332	24.51	22.0	0.561	0.186
	Right Tilted	20525/836.5	0.109	24.51	22.0	0.561	0.061
	Left Cheek	20525/836.5	0.625	24.51	22.0	0.561	0.351
	Left Tilted	20525/836.5	0.220	24.51	22.0	0.561	0.123
	Right Cheek	20450/829.0	0.568	24.45	22.0	0.569	0.323
	Right Tilted	20600/844.0	0.677	24.52	22.0	0.560	0.379
Body 15mm distance	Front	20525/836.5	0.318	24.51	22.0	0.561	0.178
	Back	20525/836.5	0.360	24.51	22.0	0.561	0.202
	Front	20450/829.0	0.386	24.45	22.0	0.569	0.220
	Front	20600/844.0	0.286	24.52	22.0	0.560	0.160
Hotspot 10mm distance	Front	20525/836.5	0.545	24.51	22.0	0.561	0.306
	Back	20525/836.5	0.523	24.51	22.0	0.561	0.293
	Left	20525/836.5	0.878	24.51	22.0	0.561	0.493
	Left	20525/836.5	0.914	24.51	22.0	0.561	0.513
	Left	20450/829.0	0.809	24.45	22.0	0.569	0.460



Position			NR 78 ANT 1 Test Data EN-DC SAR(W/kg)				
			NR 78 ANT 1 SAR	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	N78A ANT 1
Head 0mm distance	Right Cheek	633334/3500.01	0.260	26.5	23.5	0.501	0.130
	Right Tilted	633334/3500.01	0.152	26.5	23.5	0.501	0.076
	Left Cheek	633334/3500.01	0.173	26.5	23.5	0.501	0.087
	Left Tilted	633334/3500.01	0.127	26.5	23.5	0.501	0.064
Body 15mm distance	Front	633334/3500.01	0.142	26.5	23.5	0.501	0.071
	Back	633334/3500.01	0.115	26.5	23.5	0.501	0.058
Hotspot 10mm distance	Front	633334/3500.01	0.126	26.5	23.5	0.501	0.063
	Back	633334/3500.01	0.112	26.5	23.5	0.501	0.056
	Right	633334/3500.01	0.149	26.5	23.5	0.501	0.075
	Bottom	633334/3500.01	0.064	26.5	23.5	0.501	0.032

Position			NR 78 ANT 8 Test Data EN-DC SAR(W/kg)				
			NR 78 ANT 8 SAR	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	N78A ANT 8
Head 0mm distance	Right Cheek	633334/3500.01	0.358	26.5	23.5	0.501	0.179
	Right Tilted	633334/3500.01	0.321	26.5	23.5	0.501	0.161
	Left Cheek	633334/3500.01	0.192	26.5	23.5	0.501	0.096
	Left Tilted	633334/3500.01	0.182	26.5	23.5	0.501	0.091
Body 15mm distance	Front	633334/3500.01	0.084	26.5	23.5	0.501	0.042
	Back	633334/3500.01	0.149	26.5	23.5	0.501	0.075
Hotspot 10mm distance	Front	633334/3500.01	0.130	26.5	23.5	0.501	0.065
	Back	633334/3500.01	0.193	26.5	23.5	0.501	0.097
	Left	633334/3500.01	0.223	26.5	23.5	0.501	0.112
	Top	633334/3500.01	0.200	26.5	23.5	0.501	0.100



Position			NR 78 ANT 11 Test Data EN-DC SAR(W/kg)				
			NR 78 ANT 11 SAR	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	N78A ANT 11
Head 0mm distance	Right Cheek	633334/3500.01	0.729	25.0	22.0	0.501	0.365
	Right Tilted	633334/3500.01	0.634	25.0	22.0	0.501	0.318
	Left Cheek	633334/3500.01	0.462	25.0	22.0	0.501	0.231
	Left Tilted	633334/3500.01	0.397	25.0	22.0	0.501	0.199
Body 15mm distance	Front	633334/3500.01	0.215	25.0	22.0	0.501	0.108
	Back	633334/3500.01	0.177	25.0	22.0	0.501	0.089
Hotspot 10mm distance	Front	633334/3500.01	0.141	25.0	22.0	0.501	0.071
	Back	633334/3500.01	0.196	25.0	22.0	0.501	0.098
	Left	633334/3500.01	0.164	25.0	22.0	0.501	0.082
	Top	633334/3500.01	0.369	25.0	22.0	0.501	0.185

Position			NR 78 ANT 16 Test Data EN-DC SAR(W/kg)				
			NR 78 ANT 16 SAR	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	N78A ANT 16
Head 0mm distance	Right Cheek	633334/3500.01	0.339	26.5	23.5	0.501	0.170
	Right Tilted	633334/3500.01	0.067	26.5	23.5	0.501	0.034
	Left Cheek	633334/3500.01	0.176	26.5	23.5	0.501	0.088
	Left Tilted	633334/3500.01	0.039	26.5	23.5	0.501	0.020
Body 15mm distance	Front	633334/3500.01	0.135	26.5	23.5	0.501	0.068
	Back	633334/3500.01	0.160	26.5	23.5	0.501	0.080
Hotspot 10mm distance	Front	633334/3500.01	0.154	26.5	23.5	0.501	0.077
	Back	633334/3500.01	0.194	26.5	23.5	0.501	0.097
	Left	633334/3500.01	0.131	26.5	23.5	0.501	0.066



Position		Standalone SAR(W/kg)		Σ SAR1g (W/kg)
		LTE Band 5 ANT 1 Test Data EN-DC SAR	NR n78 SA ANT 1 Test Data EN-DC SAR	5G NR DC_5A_n78A
Head 0mm distance	Right Cheek	0.094	0.130	0.224
	Right Tilted	0.053	0.076	0.129
	Left Cheek	0.062	0.087	0.149
	Left Tilted	0.045	0.064	0.109
Body 15mm distance	Front	0.109	0.071	0.180
	Back	0.087	0.058	0.145
Hotspot 10mm distance	Front	0.188	0.063	0.251
	Back	0.168	0.056	0.224
	Left	/	/	/
	Right	0.226	0.075	0.301
	Top	/	/	/
	Bottom	0.095	0.032	0.127

Position		Standalone SAR(W/kg)		Σ SAR1g (W/kg)
		LTE Band 5 ANT 3 Test Data EN-DC SAR	NR n78 SA ANT 1 Test Data EN-DC SAR	5G NR DC_5A_n78A
Head 0mm distance	Right Cheek	0.379	0.130	0.509
	Right Tilted	0.061	0.076	0.137
	Left Cheek	0.351	0.087	0.438
	Left Tilted	0.123	0.064	0.187
Body 15mm distance	Front	0.220	0.071	0.291
	Back	0.202	0.058	0.260
Hotspot 10mm distance	Front	0.306	0.063	0.369
	Back	0.293	0.056	0.349
	Left	0.493	/	0.493
	Right	/	0.075	0.075
	Top	/	/	/
	Bottom	/	0.032	0.032



Position		Standalone SAR(W/kg)		Σ SAR1g (W/kg)
		LTE Band 5 ANT 1 Test Data EN-DC SAR	NR n78 SA ANT 8 Test Data EN-DC SAR	5G NR DC_5A_n78A
Head 0mm distance	Right Cheek	0.094	0.179	0.273
	Right Tilted	0.053	0.161	0.214
	Left Cheek	0.062	0.096	0.158
	Left Tilted	0.045	0.091	0.136
Body 15mm distance	Front	0.109	0.042	0.151
	Back	0.087	0.075	0.162
Hotspot 10mm distance	Front	0.188	0.065	0.253
	Back	0.168	0.097	0.265
	Left	/	0.112	0.112
	Right	0.226	/	0.226
	Top	/	0.100	0.100
	Bottom	0.095	/	0.095

Position		Standalone SAR(W/kg)		Σ SAR1g (W/kg)
		LTE Band 5 ANT 3 Test Data EN-DC SAR	NR n78 SA ANT 8 Test Data EN-DC SAR	5G NR DC_5A_n78A
Head 0mm distance	Right Cheek	0.379	0.179	0.558
	Right Tilted	0.061	0.161	0.222
	Left Cheek	0.351	0.096	0.447
	Left Tilted	0.123	0.091	0.214
Body 15mm distance	Front	0.220	0.042	0.262
	Back	0.202	0.075	0.277
Hotspot 10mm distance	Front	0.306	0.065	0.371
	Back	0.293	0.097	0.390
	Left	0.493	0.112	0.605
	Right	/	/	/
	Top	/	0.100	0.100
	Bottom	/	/	/



Position		Standalone SAR(W/kg)		Σ SAR1g (W/kg)
		LTE Band 5 ANT 1 Test Data EN-DC SAR	NR n78 SA ANT 11 Test Data EN-DC SAR	5G NR DC_5A_n78A
Head 0mm distance	Right Cheek	0.094	0.365	0.459
	Right Tilted	0.053	0.318	0.371
	Left Cheek	0.062	0.231	0.293
	Left Tilted	0.045	0.199	0.244
Body 15mm distance	Front	0.109	0.108	0.217
	Back	0.087	0.089	0.176
Hotspot 10mm distance	Front	0.188	0.071	0.259
	Back	0.168	0.098	0.266
	Left	/	0.082	0.082
	Right	0.226	/	0.226
	Top	/	0.185	0.185
	Bottom	0.095	/	0.095

Position		Standalone SAR(W/kg)		Σ SAR1g (W/kg)
		LTE Band 5 ANT 3 Test Data EN-DC SAR	NR n78 SA ANT 11 Test Data EN-DC SAR	5G NR DC_5A_n78A
Head 0mm distance	Right Cheek	0.379	0.365	0.744
	Right Tilted	0.061	0.318	0.379
	Left Cheek	0.351	0.231	0.582
	Left Tilted	0.123	0.199	0.322
Body 15mm distance	Front	0.220	0.108	0.328
	Back	0.202	0.089	0.291
Hotspot 10mm distance	Front	0.306	0.071	0.377
	Back	0.293	0.098	0.391
	Left	0.493	0.082	0.575
	Right	/	/	/
	Top	/	0.185	0.185
	Bottom	/	/	/



Position		Standalone SAR(W/kg)		Σ SAR1g (W/kg)
		LTE Band 5 ANT 1 Test Data EN-DC SAR	NR n78 SA ANT 16 Test Data EN-DC SAR	5G NR DC_5A_n78A
Head 0mm distance	Right Cheek	0.094	0.170	0.264
	Right Tilted	0.053	0.034	0.087
	Left Cheek	0.062	0.088	0.150
	Left Tilted	0.045	0.020	0.065
Body 15mm distance	Front	0.109	0.068	0.177
	Back	0.087	0.080	0.167
Hotspot 10mm distance	Front	0.188	0.077	0.265
	Back	0.168	0.097	0.265
	Left	/	0.066	0.066
	Right	0.226	/	0.226
	Top	/	/	/
	Bottom	0.095	/	0.095

Position		Standalone SAR(W/kg)		Σ SAR1g (W/kg)
		LTE Band 5 ANT 3 Test Data EN-DC SAR	NR n78 SA ANT 16 Test Data EN-DC SAR	5G NR DC_5A_n78A
Head 0mm distance	Right Cheek	0.379	0.170	0.549
	Right Tilted	0.061	0.034	0.095
	Left Cheek	0.351	0.088	0.439
	Left Tilted	0.123	0.020	0.143
Body 15mm distance	Front	0.220	0.068	0.288
	Back	0.202	0.080	0.282
Hotspot 10mm distance	Front	0.306	0.077	0.383
	Back	0.293	0.097	0.390
	Left	0.493	0.066	0.559
	Right	/	/	/
	Top	/	/	/
	Bottom	/	/	/

Note:

The 5G NR (NSA) SAR measurement procedure should be followed the TCB workshop publication in October 2020:

- a. If the signal uplink 1-g SAR values for each band are both less than 0.8 W/kg and the algebraic summation of the 1-g SAR values are less than 1.45 W/kg no additional measurements need to be performed.
- b. If one or the signal uplink 1-g SAR values is greater than 0.8 W/kg, instead of algebraically summing the 1-g SAR values, sum up the SAR distributions, similar to the enlarged zoom scan (volume scan) procedures found in FCC KDB Publication 865664 D01. And PAG is required for this case



Position 1gSAR(W/kg)		MAX ENDC SAR	Max WIFI and Bluetooth Simultaneous SAR	Max Simultaneous \sum 1-g SAR(W/Kg) (WIFI and BT MAX SAR + MAX ENDC SAR)
Head 0mm distance	Right Cheek	0.744	0.505	1.249
	Right Tilted	0.379	0.466	0.845
	Left Cheek	0.582	0.805	1.387
	Left Tilted	0.322	0.693	1.015
Body 15mm distance	Front	0.328	0.235	0.563
	Back	0.291	0.307	0.598
Hotspot 10mm distance	Front	0.383	0.176	0.559
	Back	0.391	0.371	0.762
	Left	0.605	/	0.605
	Right	0.301	0.321	0.622
	Top	0.185	0.307	0.492
	Bottom	0.127	/	0.127

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required



Simultaneous Tx Combination of GSM/WCDMA/LTE and BT/WIFI (Head)

Test Position/Freq.	Right Cheek	Right Tilted	Left Cheek	Left Tilted
GSM 850 ANT 1	0.103	0.061	0.078	0.043
GSM 850 ANT 3	0.362	0.119	0.759	0.218
GSM 1900 ANT 2	0.075	0.033	0.103	0.041
GSM 1900 ANT 4	0.849	0.216	0.511	0.112
CDMA BC 0 ANT1	0.163	0.095	0.114	0.081
CDMA BC 0 ANT3	0.322	0.112	0.718	0.164
WCDMA 850 ANT 1	0.166	0.098	0.115	0.083
WCDMA 850 ANT 3	0.383	0.123	0.746	0.185
WCDMA 1700 ANT 2	0.147	0.062	0.214	0.079
WCDMA 1700 ANT 4	0.894	0.177	0.467	0.102
WCDMA 1900 ANT 2	0.175	0.075	0.239	0.095
WCDMA 1900 ANT 4	0.806	0.164	0.436	0.095
LTE Band 2 ANT 2	0.163	0.070	0.231	0.088
LTE Band 2 ANT 4	0.788	0.156	0.414	0.091
LTE Band 4 ANT 2	0.125	0.053	0.173	0.066
LTE Band 4 ANT 4	0.733	0.149	0.392	0.087
LTE Band 5 ANT 1	0.179	0.104	0.120	0.088
LTE Band 5 ANT 3	0.372	0.122	0.756	0.246
LTE Band 7 ANT 2	0.115	0.047	0.151	0.059
LTE Band 7 ANT 4	0.506	0.102	0.267	0.059
LTE Band 12 ANT 1	0.124	0.073	0.085	0.062
LTE Band 12 ANT 3	0.298	0.106	0.690	0.216
LTE Band 17 ANT 1	0.129	0.075	0.087	0.063
LTE Band 17 ANT 3	0.281	0.087	0.717	0.209
LTE Band 41 ANT 1	0.108	0.066	0.076	0.056
LTE Band 41 ANT 2	0.052	0.021	0.073	0.026
LTE Band 41 ANT 4	0.777	0.131	0.316	0.091
5G NR 5 ANT 1	0.132	0.069	0.079	0.059
5G NR 5 ANT 3	0.211	0.085	0.591	0.194
5G NR 41 ANT 1	0.096	0.057	0.075	0.044
5G NR 41 ANT 2	0.095	0.039	0.125	0.050
5G NR 41 ANT 4	0.345	0.074	0.193	0.046
5G NR 41 ANT 8	0.587	0.410	0.160	0.109
5G NR 77 ANT 1	0.155	0.092	0.107	0.078
5G NR 77 ANT 8	0.674	0.607	0.365	0.344
5G NR 77 ANT 11	0.699	0.507	0.345	0.283
5G NR 77 ANT 16	0.230	0.045	0.118	0.026
5G NR 78 ANT 1	0.260	0.152	0.173	0.127
5G NR 78 ANT 8	0.358	0.321	0.192	0.182
5G NR 78 ANT 11	0.729	0.634	0.462	0.397
5G NR 78 ANT 16	0.339	0.067	0.176	0.039

Head
MAX 1-g
SAR(W/Kg)
0mm distance



WWAN MAX SAR	0.894	0.634	0.759	0.397
WIFI/BT MAX SAR	0.505	0.466	0.805	0.693
Max Simultaneous \sum 1-g SAR(W/Kg) (WIFI/BT MAX SAR +WWAN ANT MAX SAR)	1.399	1.100	1.564	1.090



Simultaneous Tx Combination of GSM/WCDMA/LTE and BT/WIFI (Body-worn).

Test Position		Front	Back	Left	Right	Top	Bottom
Body-worn MAX 1-g SAR(W/Kg) 15mm distance	GSM 850 ANT 1	0.206	0.112	/	/	/	/
	GSM 850 ANT 3	0.237	0.333	/	/	/	/
	GSM 1900 ANT 2	0.193	0.219	/	/	/	/
	GSM 1900 ANT 4	0.111	0.148	/	/	/	/
	CDMA BC 0 ANT1	0.208	0.180	/	/	/	/
	CDMA BC 0 ANT3	0.457	0.513	/	/	/	/
	WCDMA 850 ANT 1	0.208	0.177	/	/	/	/
	WCDMA 850 ANT 3	0.468	0.523	/	/	/	/
	WCDMA 1700 ANT 2	0.439	0.558	/	/	/	/
	WCDMA 1700 ANT 4	0.160	0.227	/	/	/	/
	WCDMA 1900 ANT 2	0.508	0.577	/	/	/	/
	WCDMA 1900 ANT 4	0.197	0.240	/	/	/	/
	LTE Band 2 ANT 2	0.602	0.643	/	/	/	/
	LTE Band 2 ANT 4	0.170	0.208	/	/	/	/
	LTE Band 4 ANT 2	0.502	0.560	/	/	/	/
	LTE Band 4 ANT 4	0.182	0.221	/	/	/	/
	LTE Band 5 ANT 1	0.212	0.169	/	/	/	/
	LTE Band 5 ANT 3	0.356	0.438	/	/	/	/
	LTE Band 7 ANT 2	0.391	0.549	/	/	/	/
	LTE Band 7 ANT 4	0.303	0.283	/	/	/	/
	LTE Band 12 ANT 1	0.177	0.133	/	/	/	/
	LTE Band 12 ANT 3	0.351	0.442	/	/	/	/
	LTE Band 17 ANT 1	0.166	0.124	/	/	/	/
	LTE Band 17 ANT 3	0.376	0.456	/	/	/	/
	LTE Band 41 ANT 1	0.152	0.106	/	/	/	/
	LTE Band 41 ANT 2	0.234	0.326	/	/	/	/
	LTE Band 41 ANT 4	0.188	0.199	/	/	/	/
	5G NR 5 ANT 1	0.186	0.121	/	/	/	/
	5G NR 5 ANT 3	0.245	0.284	/	/	/	/
	5G NR 41 ANT 1	0.139	0.108	/	/	/	/
	5G NR 41 ANT 2	0.133	0.188	/	/	/	/
	5G NR 41 ANT 4	0.095	0.116	/	/	/	/
	5G NR 41 ANT 8	0.173	0.200	/	/	/	/
	5G NR 77 ANT 1	0.063	0.051	/	/	/	/
5G NR 77 ANT 8	0.082	0.144	/	/	/	/	
5G NR 77 ANT 11	0.082	0.068	/	/	/	/	
5G NR 77 ANT 16	0.145	0.177	/	/	/	/	
5G NR 78 ANT 1	0.142	0.115	/	/	/	/	
5G NR 78 ANT 8	0.084	0.149	/	/	/	/	
5G NR 78 ANT 11	0.215	0.177	/	/	/	/	
5G NR 78 ANT 16	0.135	0.160	/	/	/	/	



WWAN MAX SAR	0.602	0.643	/	/	/	/
WIFI/BT MAX SAR	0.235	0.307	/	/	/	/
Max Simultaneous \sum 1-g SAR(W/Kg) (WIFI/BT MAX SAR +WWAN ANT MAX SAR)	0.837	0.950	/	/	/	/



Simultaneous Tx Combination of GSM/WCDMA/LTE and WIFI (Hotspot).

Test Position		Front	Back	Left	Right	Top	Bottom
Hotspot MAX 1-g SAR(W/Kg) 10mm distance	GSM 850 ANT 1	0.248	0.222	/	0.385	/	0.126
	GSM 850 ANT 3	0.446	0.428	0.882	/	/	/
	GSM 1900 ANT 2	0.386	0.375	0.165	/	/	0.551
	GSM 1900 ANT 4	0.156	0.149	0.314	/	/	/
	CDMA BC 0 ANT1	0.329	0.294	/	0.397	/	0.167
	CDMA BC 0 ANT3	0.628	0.588	0.821	/	/	/
	WCDMA 850 ANT 1	0.330	0.295	/	0.390	/	0.168
	WCDMA 850 ANT 3	0.691	0.663	1.102	/	/	/
	WCDMA 1700 ANT 2	0.566	0.549	0.242	/	/	0.810
	WCDMA 1700 ANT 4	0.378	0.363	0.693	/	0.118	/
	WCDMA 1900 ANT 2	0.494	0.480	0.213	/	/	0.743
	WCDMA 1900 ANT 4	0.364	0.349	0.668	/	0.114	/
	LTE Band 2 ANT 2	0.574	0.557	0.246	/	/	0.940
	LTE Band 2 ANT 4	0.357	0.343	0.659	/	0.112	/
	LTE Band 4 ANT 2	0.551	0.534	0.234	/	/	0.846
	LTE Band 4 ANT 4	0.408	0.391	0.749	/	0.128	/
	LTE Band 5 ANT 1	0.365	0.326	/	0.439	/	0.184
	LTE Band 5 ANT 3	0.610	0.585	1.037	/	/	/
	LTE Band 7 ANT 2	0.386	0.430	0.143	/	/	0.862
	LTE Band 7 ANT 4	0.509	0.489	0.933	/	0.162	/
	LTE Band 12 ANT 1	0.430	0.384	/	0.542	/	0.215
	LTE Band 12 ANT 3	0.549	0.527	0.956	/	/	/
	LTE Band 17 ANT 1	0.449	0.401	/	0.534	/	0.226
	LTE Band 17 ANT 3	0.605	0.580	0.954	/	/	/
	LTE Band 41 ANT 1	0.398	0.355	/	0.481	/	0.204
	LTE Band 41 ANT 2	0.400	0.445	0.149	/	/	0.806
	LTE Band 41 ANT 4	0.253	0.243	0.461	/	0.079	/
	5G NR 5 ANT 1	0.215	0.192	/	0.277	/	0.108
	5G NR 5 ANT 3	0.345	0.331	0.666	/	/	/
	5G NR 41 ANT 1	0.271	0.242	/	0.326	/	0.139
	5G NR 41 ANT 2	0.232	0.259	0.082	/	/	0.416
	5G NR 41 ANT 4	0.185	0.177	0.384	/	0.060	/
	5G NR 41 ANT 8	0.219	0.250	0.502	/	0.112	/
	5G NR 77 ANT 1	0.100	0.089	/	0.120	/	0.052
5G NR 77 ANT 8	0.158	0.236	0.272	/	0.245	/	
5G NR 77 ANT 11	0.066	0.092	0.077	/	0.173	/	
5G NR 77 ANT 16	0.168	0.214	0.143	/	/	/	
5G NR 78 ANT 1	0.126	0.112	/	0.149	/	0.064	
5G NR 78 ANT 8	0.130	0.193	0.223	/	0.200	/	
5G NR 78 ANT 11	0.141	0.196	0.164	/	0.369	/	
5G NR 78 ANT 16	0.154	0.194	0.131	/	/	/	



WWAN MAX SAR	0.691	0.663	1.102	0.542	0.369	0.940
WIFI/BT MAX SAR	0.176	0.371	/	0.321	0.307	/
Max Simultaneous \sum 1-g SAR(W/Kg) (WIFI/BT MAX SAR +WWAN ANT MAX SAR)	0.867	1.034	1.102	0.863	0.676	0.940

SAR to PeakLocation SeparationRatio (SPLSR)

As the Sum of the SAR is not greater than1.6 W/kg SPLSR assessment is not required



13.Measurement Uncertainty

No.	Uncertainty Component	Type	Uncertainty Value (%)	Probability Distribution	k	ci	Standard Uncertainty (%) $u_i(\%)$	Degree of freedom ν_{eff} or ν_i
Measurement System								
1	- Probe Calibration	B	5.8	N	1	1	5.8	∞
2	- Axial isotropy	B	3.5	R	$\sqrt{3}$	0.5	1.43	∞
3	- Hemispherical Isotropy	B	5.9	R	$\sqrt{3}$	0.5	2.41	∞
4	- Boundary Effect	B	1	R	$\sqrt{3}$	1	0.58	∞
5	- Linearity	B	4.7	R	$\sqrt{3}$	1	2.71	∞
6	- System Detection Limits	B	1.0	R	$\sqrt{3}$	1	0.58	∞
7	Modulation response	B	3	N	1	1	3.00	
8	- Readout Electronics	B	0.5	N	1	1	0.50	∞
9	- Response Time	B	1.4	R	$\sqrt{3}$	1	0.81	∞
10	- Integration Time	B	3.0	R	$\sqrt{3}$	1	1.73	∞
11	- RF Ambient Conditions	B	3.0	R	$\sqrt{3}$	1	1.73	∞
12	- Probe Position Mechanical tolerance	B	1.4	R	$\sqrt{3}$	1	0.81	∞
13	- Probe Position with respect to Phantom Shell	B	1.4	R	$\sqrt{3}$	1	0.81	∞
14	- Extrapolation, Interpolation and Integration Algorithms for Max. SAR evaluation	B	2.3	R	$\sqrt{3}$	1	1.33	∞
Uncertainties of the DUT								



15	- Position of the DUT	A	2.6	N	$\sqrt{3}$	1	2.6	5
16	- Holder of the DUT	A	3	N	$\sqrt{3}$	1	3.0	5
17	- Output Power Variation – SAR drift measurement	B	5.0	R	$\sqrt{3}$	1	2.89	∞
Phantom and Tissue Parameters								
18	- Phantom Uncertainty(shape and thickness tolerances)	B	4	R	$\sqrt{3}$	1	2.31	∞
19	Uncertainty in SAR correction for deviation(in permittivity and conductivity)	B	2	N	1	1	2.00	
20	- Liquid Conductivity Target – tolerance	B	2.5	R	$\sqrt{3}$	0.6	1.95	∞
21	- Liquid Conductivity – measurement Uncertainty)	B	4	N	$\sqrt{3}$	1	0.92	9
22	- Liquid Permittivity Target tolerance	B	2.5	R	$\sqrt{3}$	0.6	1.95	∞
23	- Liquid Permittivity – measurement uncertainty	B	5	N	$\sqrt{3}$	1	1.15	∞
Combined Standard Uncertainty				RSS			10.63	
Expanded uncertainty (Confidence interval of 95 %)				K=2			21.26	

14. System Check Uncertainty

No.	Uncertainty Component	Type	Uncertainty Value (%)	Probability Distribution	k	ci	Standard Uncertainty (%) $u_i(\%)$	Degree of freedom ν_{eff} or ν_i
Measurement System								
1	- Probe Calibration	B	5.8	N	1	1	5.8	∞
2	- Axial isotropy	B	3.5	R	$\sqrt{3}$	0.5	1.43	∞
3	- Hemispherical Isotropy	B	5.9	R	$\sqrt{3}$	0.5	2.41	∞
4	- Boundary Effect	B	1	R	$\sqrt{3}$	1	0.58	∞
5	- Linearity	B	4.7	R	$\sqrt{3}$	1	2.71	∞
6	- System Detection Limits	B	1	R	$\sqrt{3}$	1	0.58	∞
7	Modulation response	B	0	N	1	1	0.00	
8	- Readout Electronics	B	0.5	N	1	1	0.50	∞
9	- Response Time	B	0.00	R	$\sqrt{3}$	1	0.00	∞
10	- Integration Time	B	1.4	R	$\sqrt{3}$	1	0.81	∞
11	- RF Ambient Conditions	B	3.0	R	$\sqrt{3}$	1	1.73	∞
12	- Probe Position Mechanical tolerance	B	1.4	R	$\sqrt{3}$	1	0.81	∞
13	- Probe Position with respect to Phantom Shell	B	1.4	R	$\sqrt{3}$	1	0.81	∞
14	- Extrapolation, Interpolation and Integration Algorithms for Max. SAR evaluation	B	2.3	R	$\sqrt{3}$	1	1.33	∞
Uncertainties of the DUT								



15	Deviation of experimental source from numerical source	A	4	N	1	1	4.00	5
16	Input Power and SAR drift measurement	A	5	R	$\sqrt{3}$	1	2.89	5
17	Dipole Axis to Liquid Distance	B	2	R	$\sqrt{3}$	1	1.2	∞
Phantom and Tissue Parameters								
18	- Phantom Uncertainty(shape and thickness tolerances)	B	4	R	$\sqrt{3}$	1	2.31	∞
19	Uncertainty in SAR correction for deviation(in permittivity and conductivity)	B	2	N	1	1	2.00	
20	- Liquid Conductivity Target – tolerance	B	2.5	R	$\sqrt{3}$	0.6	1.95	∞
21	- Liquid Conductivity – measurement Uncertainty)	B	4	N	$\sqrt{3}$	1	0.92	9
22	- Liquid Permittivity Target tolerance	B	2.5	R	$\sqrt{3}$	0.6	1.95	∞
23	- Liquid Permittivity – measurement uncertainty	B	5	N	$\sqrt{3}$	1	1.15	∞
Combined Standard Uncertainty				RSS			10.15	
Expanded uncertainty (Confidence interval of 95 %)				K=2			20.29	



15. Equipment List

This table is a complete overview of the SAR measurement equipment. Devices used during the test described are marked .

	EQUIPMENT	Model	Serial number	Calibration Date	Due Date
<input checked="" type="checkbox"/>	SAR Probe	SSE2	0523-EPGO-403	2023/02/14	2024/02/13
<input checked="" type="checkbox"/>	Dipole	SID750	SN 23/15 DIP0G750-378	2023/05/24	2026/05/23
<input checked="" type="checkbox"/>	Dipole	SID835	SN 09/13 DIP0G835-217	2023/05/24	2026/05/23
<input checked="" type="checkbox"/>	Dipole	SID1800	SN 09/13 DIP1G800-216	2023/05/24	2026/05/23
<input checked="" type="checkbox"/>	Dipole	SID1900	SN 09/13 DIP1G900-218	2023/05/24	2026/05/23
<input checked="" type="checkbox"/>	Dipole	SID2300	SN 20/20 DIP2G300-525	2023/05/24	2026/05/23
<input checked="" type="checkbox"/>	Dipole	SID2450	SN 09/13 DIP2G450-220	2023/05/24	2026/05/23
<input checked="" type="checkbox"/>	Dipole	SID2600	SN 32/14 DIP2G600-338	2023/05/24	2026/05/23
<input checked="" type="checkbox"/>	Dipole	SID3500	SN 50/20 DIP3G500-527	2023/05/24	2026/05/23
<input checked="" type="checkbox"/>	Dipole	SID3700	SN 50/20 DIP3G700-528	2023/05/24	2026/05/23
<input checked="" type="checkbox"/>	Dipole	SID3900	SN 50/20 DIP3G500-529	2023/05/24	2026/05/23
<input checked="" type="checkbox"/>	Dipole	SWG5500	SN15/15 WGA39	2023/05/25	2026/05/24
<input checked="" type="checkbox"/>	Multimeter	Keithley-2000	4014020	2023/02/20	2024/02/19
<input checked="" type="checkbox"/>	System Simulator(R&S)	CMW500	130805	2023/07/13	2024/07/12
<input checked="" type="checkbox"/>	KEYSIGHT	E7515A	MY56040357	2023/02/20	2024/02/19
<input checked="" type="checkbox"/>	KEYSIGHT	E7515B	MY58120248	2023/02/20	2024/02/19
<input checked="" type="checkbox"/>	Vector Network Analyzer(R&S)	ZVB8	100343	2023/02/20	2024/02/19
<input checked="" type="checkbox"/>	PC 3.5 Fixed Match Calibration Kit	ZV-Z32	100571	2023/02/20	2024/02/19
<input checked="" type="checkbox"/>	Dielectric Probe Kit	SCLMP	SN 09/13 OCPG51	2023/02/20	2024/02/19
<input checked="" type="checkbox"/>	Signal Generator	SMU100A	177649	2023/02/20	2024/02/19
<input checked="" type="checkbox"/>	Amplifier	Nucletudes	143060	2023/02/20	2024/02/19
<input checked="" type="checkbox"/>	Directional Coupler	DC6180A	305827	2023/06/15	2024/06/14
<input checked="" type="checkbox"/>	Power Meter	NRP2	103434	2023/02/20	2024/02/19



ANNEX A: Appendix A: SAR System performance Check Plots

(Please See Appendix A)

ANNEX B: Appendix B: SAR Measurement results Plots

(Please See Appendix B)

ANNEX C: Appendix C: Calibration reports

(Please See Appendix C)

ANNEX D: Appendix D: SAR Test Setup

(Please See Appendix D)

—End of the Report—