



SAR TEST REPORT

Report No.: SET2022-07674
Product Name: METAVERTU 5G digital mobile phone
Model Name: VTL-202201
Trade Name: VERTU
Brand Name: VERTU
FCC ID: 2A6IQ-VTL202201
Applicant: VERTU INTERNATIONAL CORPORATION LIMITED
Address: 25 St Thomas Street, Winchester, Hampshire, SO23 9HJ, United Kingdom
Test Date: 2022/05/13~2022/07/11
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: 25 St Thomas Street, Winchester, Hampshire, SO23 9HJ, United Kingdom

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;

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)

RSS-102: Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)(Issue 5 of March 2015)

Test Standards: **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

IEC/IEEE 62209-1528:2020 Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices –Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)

Test Result: Pass

Tested by: Xinyuan Fang 2022-07-14

Xinyuan Fang, Test Engineer

Reviewed by: Chris You 2022-07-14

Chris You, Senior Engineer

Approved by: Shuangwen Zhang 2022-07-14

Shuangwen Zhang , 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 April 19th, 2023.
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 30th, 2023.
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:	Population/Uncontrolled	
Product Name:	METAVERTU 5G digital mobile phone	
Brand Name:	VERTU	
Model Name:	VTL-202201	
General description:	Support Band	GSM850/1900, WCDMA 850/1700/1900, CDMA2000 BC0 LTE Band 4/5/7/12/17/41, 5G NR 5, 41,77,78, NSA DC-5A_n78A WIFI2.4G, WIFI5G (Band 1 ,2,3,4) ,BT
	Test Band	GSM850/1900, WCDMA 850/1700/1900, CDMA2000 BC0 LTE Band 4/5/7/12/17/41, 5G NR 5, 41,77,78, NSA DC-5A_n78A WIFI2.4G, WIFI5G (Band 1 ,2,3,4) ,BT
	IMEI	357378130001679
	Device Class	Class B
	Multi Class	GPRS: Class 12; EGPRS: Class 12
	Development Stage	Identical Prototype
	Accessories	Power Supply
	Hotspot	2.4GHz WLAN support Hotspot mode
	Antenna type	Internal Antenna
	Operation mode	GSM / WCDMA / LTE / NR / WIFI
	Modulation mode	GSM(GMSK,8PSK),UMTS(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)
	DTM mode	Not support
	Hardware Version	P10
	Software Version	12.0.0_6.01.01.01
	Battery options :	Model No.: Li3941T44P8h826453 Capacitance: 4500mAh Rated Voltage: 3.87V Charge Limit: 4.45V Manufacturer: Zhuhai CosMX Battery Co., Ltd.
	Max. SAR Value	Head: 1.202 W/Kg Body-worn: 0.963 W/Kg(Limit:1.6W/Kg, 10mm distance)



	Hotspot: 1.180 W/Kg(Limit:1.6W/Kg, 10mm distance)
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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. 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.
3. The NR band test under FTM mode
4. For 5GNR FDD/TDD supports SCS15KHz and SCS30KHz, chose higher power which is SCS30KHz to perform SAR testing.

**EUT testing configuration**

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
CDMA2000 BC0	824.7-848.31 MHz	869.7-893.31 MHz
UMTS Band II:	1850-1910 MHz	1930-1990 MHz
UMTS Band IV:	1710-1755 MHz	2110-2155 MHz
UMTS Band V:	824-849 MHz	869-894 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:	2500-2690MHz	
NR Band 77:	3300-3550MHz	
NR Band 78:	3300-3550MHz	
WIFI(tested):	2412-2462 MHz	
	5150-5250 MHz	
	5250-5350 MHz	
	5470-5725 MHz	
	5725-5850 MHz	
Bluetooth:	2402-2480 MHz	
Test channels(low-mid-high):	128-190-251(GSM850)	
	512-661-810(GSM1900)	
	1013-384-777(CDMA2000 BC0)	
	9262-9400-9538(UMTS Band II)	
	1312-1413-1513(UMTS Band IV)	
	4132-4183-4233(UMTS Band V)	
	20050-20175-20300(LTE Band 4 Bandwidth 20M)	
	20450-20525-20600(LTE Band 5 Bandwidth 10M)	
	20850-21100-21350(LTE Band 7 Bandwidth 20M)	
	23060-23095-23130(LTE Band 12 Bandwidth 10M)	
	23780-23790-23800(LTE Band 17 Bandwidth 10M)	
	39750-40620-41490(LTE Band 41 Bandwidth 20M)	
	166800-167300-167800(5G NR 5 Bandwidth 20M)	
	509202-518598-528000(5G NR 41 Bandwidth 100M)	
	633334-633334-633334(5G NR 77 Bandwidth 100M)	
	633334-633334-633334(5G NR 78 Bandwidth 100M)	
	1-6-11(Wi-Fi 2.4G 802.11b)	
	36-44-48(Wi-Fi U-NII-1 802.11a)	
	52-60-64(Wi-Fi U-NII-2A 802.11a)	
	100-120-140(Wi-Fi U-NII-2C 802.11a)	



	5745-5785-5825(Wi-Fi U-NII-3 802.11a)
	0-39-78(BT)



3. SAR Summary

Highest Standalone SAR Summary

Exposure Position	Frequency Band	Scaled 1g-SAR(W/kg)	Highest Scaled 1g-SAR(W/kg)
Head	GSM850 ANT 1	0.303	1.202
	GSM1900 ANT 2	0.145	
	GSM1900 ANT 4	1.174	
	CDMA BC 0 ANT 1	0.318	
	WCDMA Band V ANT 1	0.421	
	WCDMA Band IV ANT 2	0.138	
	WCDMA Band IV ANT 4	1.202	
	WCDMA Band II ANT 2	0.197	
	WCDMA Band II ANT 4	0.906	
	LTE Band 4 ANT 2	0.121	
	LTE Band 4 ANT 3	0.986	
	LTE Band 5 ANT 1	0.471	
	LTE Band 7 ANT 2	0.069	
	LTE Band 7 ANT 3	1.171	
	LTE Band 12 ANT 1	0.180	
	LTE Band 17 ANT 1	0.183	
	LTE Band 41 ANT 2	0.145	
	LTE Band 41 ANT 4	0.981	
	NR Band 5 ANT 1	0.349	
	NR Band 41 ANT 2	0.049	
	NR Band 41 ANT 5	1.124	
	NR Band 77 ANT 5	0.030	
	NR Band 77 ANT 11	0.135	
	NR Band 78 ANT 5	0.267	
	NR Band 78 ANT 11	0.162	
	WIFI 2.4G 802.11b ANT 7	0.214	
	WIFI 2.4G 802.11b ANT 9	0.263	
	WIFI 2.4G 802.11n20 MIMO	0.254	
	5G WIFI Standalone		
	WIFI U-NII 1 802.11a ANT8	0.652	
	WIFI U-NII 1 802.11a ANT9	0.461	
	WIFI U-NII 1 802.11 n20 MIMO	0.770	
WIFI U-NII 2a 802.11a ANT8	0.573		
WIFI U-NII 2a 802.11a ANT9	0.774		
WIFI U-NII 2a 802.11n20 MIMO	0.791		
WIFI U-NII 2c 802.11a ANT8	0.520		
WIFI U-NII 2c 802.11a ANT9	0.431		
WIFI U-NII 2c 802.11n20 MIMO	0.678		



	WIFI U-NII 3 802.11a ANT8	0.464	
	WIFI U-NII 3 802.11a ANT9	0.554	
	WIFI U-NII 3 802.11n20 MIMO	0.715	
	5G WIFI Simultaneous Transmissions		
	WIFI U-NII 1 802.11a ANT8	0.183	
	WIFI U-NII 1 802.11a ANT9	0.152	
	WIFI U-NII 1 802.11 n20 MIMO	0.226	
	WIFI U-NII 2a 802.11a ANT8	0.151	
	WIFI U-NII 2a 802.11a ANT9	0.173	
	WIFI U-NII 2a 802.11n20 MIMO	0.248	
	WIFI U-NII 2c 802.11a ANT8	0.171	
	WIFI U-NII 2c 802.11a ANT9	0.134	
	WIFI U-NII 2c 802.11n20 MIMO	0.233	
	WIFI U-NII 3 802.11a ANT8	0.187	
	WIFI U-NII 3 802.11a ANT9	0.180	
	WIFI U-NII 3 802.11n20 MIMO	0.256	
	BT ANT 9	0.146	



Exposure Position	Frequency Band	Scaled 1g-SAR(W/kg)	Highest Scaled 1g-SAR(W/kg)	
Body-worn (10mm Gap)	GSM850 ANT 1	0.611	0.963	
	GSM1900 ANT 2	0.426		
	GSM1900 ANT 4	0.346		
	CDMA BC 0 ANT 1	0.727		
	WCDMA Band V ANT 1	0.881		
	WCDMA Band IV ANT 2	0.424		
	WCDMA Band IV ANT 4	0.608		
	WCDMA Band II ANT 2	0.581		
	WCDMA Band II ANT 4	0.392		
	LTE Band 4 ANT 2	0.301		
	LTE Band 4 ANT 3	0.146		
	LTE Band 5 ANT 1	0.927		
	LTE Band 7 ANT 2	0.205		
	LTE Band 7 ANT 3	0.519		
	LTE Band 12 ANT 1	0.437		
	LTE Band 17 ANT 1	0.495		
	LTE Band 41 ANT 2	0.227		
	LTE Band 41 ANT 4	0.469		
	NR Band 5 ANT 1	0.672		
	NR Band 41 ANT 2	0.227		
	NR Band 41 ANT 5	0.963		
	NR Band 77 ANT 5	0.196		
	NR Band 77 ANT 11	0.191		
	NR Band 78 ANT 5	0.424		
	NR Band 78 ANT 11	0.137		
	WIFI 2.4G 802.11b ANT 7	0.076		
	WIFI 2.4G 802.11b ANT 9	0.092		
	WIFI 2.4G 802.11n20 MIMO	0.087		
	5G WIFI Standalone			
	WIFI U-NII 1 802.11a ANT8	0.449		
	WIFI U-NII 1 802.11a ANT9	0.335		
	WIFI U-NII 1 802.11 n20 MIMO	0.531		
	WIFI U-NII 2a 802.11a ANT8	0.445		
	WIFI U-NII 2a 802.11a ANT9	0.487		
	WIFI U-NII 2a 802.11n20 MIMO	0.531		
	WIFI U-NII 2c 802.11a ANT8	0.401		
WIFI U-NII 2c 802.11a ANT9	0.291			
WIFI U-NII 2c 802.11n20 MIMO	0.490			
WIFI U-NII 3 802.11a ANT8	0.449			
WIFI U-NII 3 802.11a ANT9	0.375			
WIFI U-NII 3 802.11n20 MIMO	0.483			
5G WIFI Simultaneous Transmissions				



	WIFI U-NII 1 802.11a ANT8	0.117	
	WIFI U-NII 1 802.11a ANT9	0.109	
	WIFI U-NII 1 802.11 n20 MIMO	0.103	
	WIFI U-NII 2a 802.11a ANT8	0.080	
	WIFI U-NII 2a 802.11a ANT9	0.069	
	WIFI U-NII 2a 802.11n20 MIMO	0.093	
	WIFI U-NII 2c 802.11a ANT8	0.086	
	WIFI U-NII 2c 802.11a ANT9	0.054	
	WIFI U-NII 2c 802.11n20 MIMO	0.088	
	WIFI U-NII 3 802.11a ANT8	0.113	
	WIFI U-NII 3 802.11a ANT9	0.085	
	WIFI U-NII 3 802.11n20 MIMO	0.074	
	BT ANT 9	0.126	



Exposure Position	Frequency Band	Scaled 1g-SAR(W/kg)	Highest Scaled 1g-SAR(W/kg)
Hotspot (10mm Gap)	GSM850 ANT 1	0.611	1.180
	GSM1900 ANT 2	0.547	
	GSM1900 ANT 4	0.664	
	CDMA BC 0 ANT 1	0.727	
	WCDMA Band V ANT 1	0.881	
	WCDMA Band IV ANT 2	0.631	
	WCDMA Band IV ANT 4	0.843	
	WCDMA Band II ANT 2	0.951	
	WCDMA Band II ANT 4	0.447	
	LTE Band 4 ANT 2	0.359	
	LTE Band 4 ANT 3	0.146	
	LTE Band 5 ANT 1	0.927	
	LTE Band 7 ANT 2	0.411	
	LTE Band 7 ANT 3	0.668	
	LTE Band 12 ANT 1	0.437	
	LTE Band 17 ANT 1	0.495	
	LTE Band 41 ANT 2	0.344	
	LTE Band 41 ANT 4	1.020	
	NR Band 5 ANT 1	0.672	
	NR Band 41 ANT 2	0.679	
	NR Band 41 ANT 5	1.180	
	NR Band 77 ANT 5	0.557	
	NR Band 77 ANT 11	0.709	
	NR Band 78 ANT 5	0.964	
	NR Band 78 ANT 11	0.784	
	WIFI 2.4G 802.11b ANT 7	0.176	
	WIFI 2.4G 802.11b ANT 9	0.253	
	WIFI 2.4G 802.11n20 MIMO	0.103	

Highest Simultaneous SAR Summary

Exposure Position	Frequency Band	Highest Scaled 1g-SAR(W/kg)
Body (10mmGap)	WWAN(5G NR DC_5A(ANT1)_n78(ANT5))&WIFI&BT	1.576

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)
RSS-102	:Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)(Issue 5 of March 2015)
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
IEC/IEEE 62209-1528:2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices –Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
KDB 248227 D01	v02r02 802.11 Wi-Fi SAR
KDB 447498 D01	v06 General RF Exposure Guidance
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 10 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

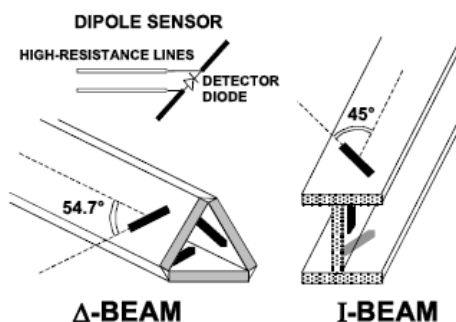


Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	700 MHz to 3 GHz; Linearity: ± 0.5 dB (700 MHz to 3 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	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$
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)	22.8	2022/05/20
Validation value		41.63	0.90		
Target value	835MHz	41.5 ±5% (39.425~43.575)	0.90 ±5% (0.855~0.945)	22.9	2022/05/13
Validation value		41.24	0.91		
Target value	835MHz	41.5 ±5% (39.425~43.575)	0.90 ±5% (0.855~0.945)	22.6	2022/05/14
Validation value		41.40	0.88		
Target value	835MHz	41.5 ±5% (39.425~43.575)	0.90 ±5% (0.855~0.945)	22.6	2022/05/23
Validation value		41.16	0.89		
Target value	835MHz	41.5 ±5% (39.425~43.575)	0.90 ±5% (0.855~0.945)	22.9	2022/07/06
Validation value		41.69	0.92		
Target value	1800MHz	40.0 ±5% (38.0~42.0)	1.40 ±5% (1.33~1.47)	22.8	2022/05/17
Validation value		39.20	1.39		
Target value	1800MHz	40.0 ±5% (38.0~42.0)	1.40 ±5% (1.33~1.47)	22.5	2022/06/23
Validation value		39.69	1.38		
Target value	1900MHz	40.0 ±5% (38.0~42.0)	1.40 ±5% (1.33~1.47)	22.7	2022/05/18
Validation value		40.36	1.43		
Target value	1900MHz	40.0 ±5% (38.0~42.0)	1.40 ±5% (1.33~1.47)	22.5	2022/06/22
Validation value		40.32	1.40		
Target value	2450MHz	39.2 ±5% (37.24~41.16)	1.80 ±5% (1.71~1.89)	22.6	2022/06/02
Validation value		39.53	1.80		
Target value	2600MHz	39.0 ±5% (37.05~40.95)	1.96 ±5% (1.862~2.058)	22.2	2022/05/22
Validation value		39.12	1.94		
Target value	2600MHz	39.0 ±5% (37.05~40.95)	1.96 ±5% (1.862~2.058)	22.9	2022/06/14
Validation value		39.82	2.01		

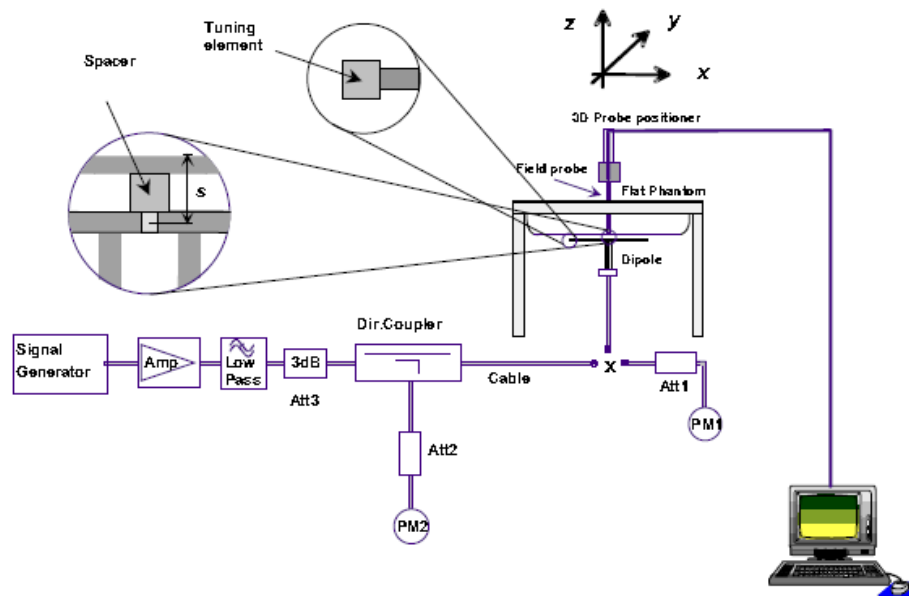


Target value	2600MHz	39.0 ±5% (37.05~40.95)	1.96 ±5% (1.862~2.058)	22.6	2022/06/25
Validation value		38.74	1.98		
Target value	2600MHz	39.0 ±5% (37.05~40.95)	1.96 ±5% (1.862~2.058)	22.8	2022/07/11
Validation value		38.32	1.99		
Target value	3500MHz	37.9 ±5% (36.005~39.795)	2.91 ±5% (2.7645~3.0555)	22.4	2022/06/13
Validation value		38.26	2.96		
Target value	5200MHz	36.0 ±5% (34.20~37.80)	4.66 ±5% (4.427~4.893)	22.2	2022/06/20
Validation value		35.78	4.71		
Target value	5200MHz	36.0 ±5% (34.20~37.80)	4.66 ±5% (4.427~4.893)	22.7	2022/06/21
Validation value		35.26	4.65		
Target value	5400MHz	35.8 ±5% (34.01~37.59)	4.86 ±5% (4.617~5.103)	22.7	2022/06/21
Validation value		34.89	4.89		
Target value	5600MHz	35.5 ±5% (33.725~37.275)	5.07 ±5% (4.8165~5.3235)	22.5	2022/06/22
Validation value		34.30	5.06		
Target value	5800MHz	35.3 ±5% (33.535~37.065)	5.27 ±5% (5.0065~5.5335)	22.4	2022/06/19
Validation value		34.48	5.37		

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	8.73 W/kg ±10% (7.857~9.603)	0.0891	8.91	2022/05/20
835MHz	1:1	9.69 W/kg ±10% (8.721~10.659)	0.1019	10.19	2022/05/13
835MHz	1:1	9.69 W/kg ±10% (8.721~10.659)	0.0980	9.80	2022/05/14
835MHz	1:1	9.69 W/kg ±10% (8.721~10.659)	0.0984	9.84	2022/05/23
835MHz	1:1	9.69 W/kg ±10% (8.721~10.659)	0.0999	9.99	2022/07/06
1800MHz	1:1	37.25 W/kg ±10% (33.525~40.975)	0.3820	38.20	2022/05/17
1800MHz	1:1	37.25 W/kg ±10% (33.525~40.975)	0.3674	36.74	2022/06/23
1900MHz	1:1	39.71 W/kg ±10% (35.739~43.681)	0.3907	39.07	2022/05/18
1900MHz	1:1	39.71 W/kg ±10% (35.739~43.681)	0.4027	40.27	2022/06/22
2450MHz	1:1	53.71 W/kg ±10% (48.339~59.081)	0.5517	55.17	2022/06/02
2600MHz	1:1	56.47 W/kg ±10% (50.823~62.117)	0.5535	55.35	2022/05/22
2600MHz	1:1	56.47 W/kg ±10% (50.823~62.117)	0.5615	56.15	2022/06/14
2600MHz	1:1	56.47 W/kg ±10% (50.823~62.117)	0.5582	55.82	2022/06/25
2600MHz	1:1	56.47 W/kg ±10% (50.823~62.117)	0.5313	53.13	2022/07/11
3500MHz	1:1	67.28 W/kg ±10% (60.552~74.008)	0.6909	69.09	2022/06/13
5200MHz	1:1	151.11 W/kg ±10% (135.999~166.221)	1.4793	147.93	2022/06/20
5200MHz	1:1	151.11 W/kg ±10% (135.999~166.221)	1.5061	150.61	2022/06/21
5400MHz	1:1	159.92 W/kg ±10% (143.928~175.912)	1.6726	167.26	2022/06/21
5600MHz	1:1	165.99 W/kg ±10% (149.391~182.589)	1.7252	172.52	2022/06/22
5800MHz	1:1	176.86 W/kg ±10% (159.174~194.546)	1.8512	185.12	2022/06/19

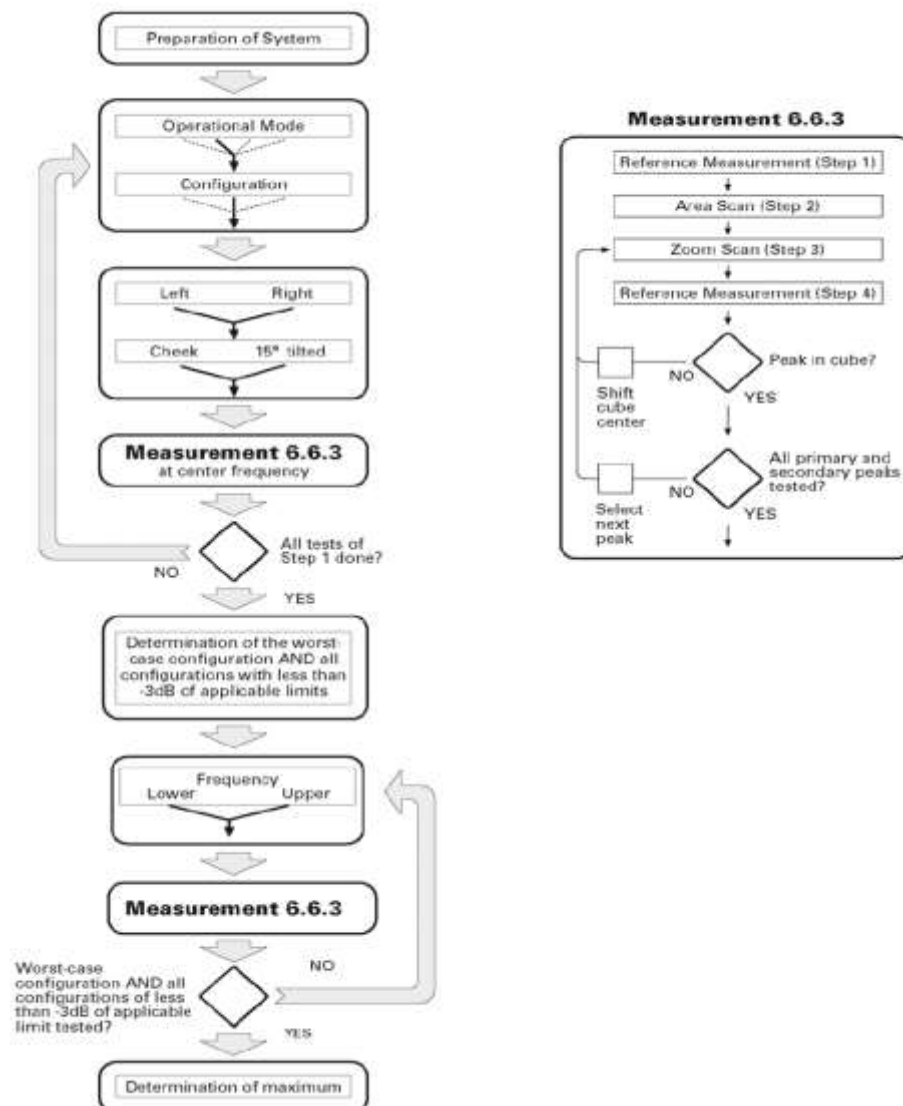


* Note: Target value was referring to the measured value in the calibration certificate of reference dipole.

Note: 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 Configuration

Overview of power reduction scenarios

The mobile phone device meets SAR requirements by accurately reducing the power of various scenes. Mainly the following scenarios:

- 1) Head SAR is mainly determined by whether the receiver on.
- 2) Body SAR is mainly determined by whether the Sensor off or Sensor on.
- 3) Hotspot SAR is mainly determined by whether the Hotspot off or Hotspot on.

Description of power reduction scenarios

The mobile phone device supports the receiver detection mechanism. This device uses the receiver to indicate whether the user is making a call in head or body.

When there is a voice call (including VOIP) and the audio is actively routed through the earpiece receiver, which indicating the head exposure condition it will trigger the head exposure reduced the power.

When there is a voice call (including VOIP), and the audio is actively routed through the headset or speaker, which indicating the body exposure conditions will trigger the body exposure reduced the power.

Antenna 3			
Band	Test position	Power Reduction	Power reduction amount (dB)
LTE Band 4	Right Cheek	Receiver on	1.5
	Right Tilt 15 °	Receiver on	1.5
	Left Cheek	Receiver on	1.5
	Left Tilt 15 °	Receiver on	1.5
Antenna 4			
Band	Test position	Power Reduction	Power reduction amount (dB)
WCDMA Band 2	Right Cheek	Receiver on	5.0
	Right Tilt 15 °	Receiver on	5.0
	Left Cheek	Receiver on	5.0
	Left Tilt 15 °	Receiver on	5.0
WCDMA Band 4	Right Cheek	Receiver on	4.0
	Right Tilt 15 °	Receiver on	4.0
	Left Cheek	Receiver on	4.0



	Left Tilt 15 °	Receiver on	4.0
Antenna 5			
Band	Test position	Power Reduction	Power reduction amount (dB)
5G NR 41	Right Cheek	Receiver on	2.0
	Right Tilt 15 °	Receiver on	2.0
	Left Cheek	Receiver on	2.0
	Left Tilt 15 °	Receiver on	2.0
	Front side(Body-Worn)	Sensor on	2.0
	Back side(Body-Worn)	Sensor on	2.0
	Front side(Hotspot)	Hotspot on	2.0
	Back side(Hotspot)	Hotspot on	2.0
	Left edge (Edge D) (Hotspot)	Hotspot on	2.0
	Top edge (Edge A) (Hotspot)	Hotspot on	2.0

Antenna 8			
Band	Test position	Power Reduction	Power reduction amount (dB)
5GWIFI	Right Cheek	Receiver on	3.5
	Right Tilt 15 °	Receiver on	3.5
	Left Cheek	Receiver on	3.5
	Left Tilt 15 °	Receiver on	3.5
	Front side(Body-Worn)	Sensor on	3.5
	Back side(Body-Worn)	Sensor on	3.5
	Right edge (Edge B) (Body-Worn)	Sensor on	3.5
	Top edge (Edge A) (Body-Worn)	Sensor on	3.5
Antenna 9			

Band	Test position	Power Reduction	Power reduction amount (dB)
5GWIFI	Right Cheek	Receiver on	3.5
	Right Tilt 15 °	Receiver on	3.5
	Left Cheek	Receiver on	3.5
	Left Tilt 15 °	Receiver on	3.5
	Front side(Body-Worn)	Sensor on	3.5
	Back side(Body-Worn)	Sensor on	3.5
	Right edge (Edge B) (Body-Worn)	Sensor on	3.5
	Top edge (Edge A) (Body-Worn)	Sensor on	3.5
Antenna8+9			
Band	Test position	Power Reduction	Power reduction amount (dB)
5GWIFI	Right Cheek	Receiver on	3.5
	Right Tilt 15 °	Receiver on	3.5
	Left Cheek	Receiver on	3.5
	Left Tilt 15 °	Receiver on	3.5
	Front side(Body-Worn)	Sensor on	3.5
	Back side(Body-Worn)	Sensor on	3.5
	Right edge (Edge B) (Body-Worn)	Sensor on	3.5
	Top edge (Edge A) (Body-Worn)	Sensor on	3.5

Note:

- 5G WIFI only reduces power in Simultaneous Transmission with WWAN.

Proximity sensor triggering distance

1). Due to the operating configurations and exposure conditions required by the device, the proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of Antenna 2 to ensure SAR compliance. It is also set an output power leveled to the lowest one to make sure that in any case of SAR sensor hardware failure, the SAR requirements can still be satisfied.

2). The following tables summarize the key power reduction information for proximity sensor. The test procedures be applied to determine proximity sensor triggering distances, and sensor coverage for normal and tilt positions. To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

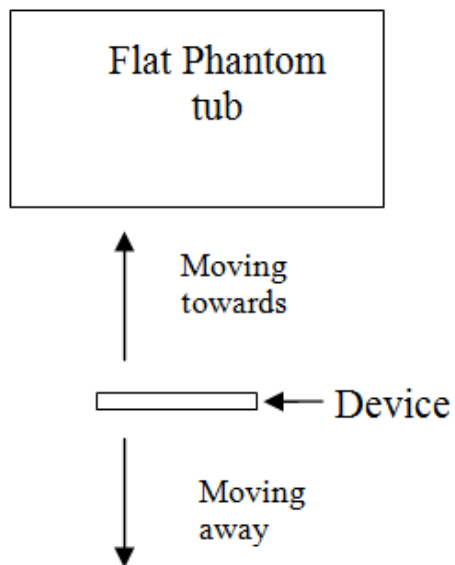
Antenna 5			
Band	Test position	Sensor Trigger Distance range (DUT to Phantom)	Power reduction amount (dB)
NR Band 41 ANT 5	Front side	0mm≤distance≤11mm	2.0
		11mm<distance	0
	Back side	0mm≤distance≤11mm	2.0
		11mm<distance	0
Antenna 8			
Band	Test position	Sensor Trigger Distance range (DUT to Phantom)	Power reduction amount (dB)
5GWIFI	Front side	0mm≤distance≤11mm	3.5
		11mm<distance	0
	Back side	0mm≤distance≤11mm	3.5
		11mm<distance	0
Antenna 9			
Band	Test position	Sensor Trigger Distance range (DUT to Phantom)	Power reduction amount (dB)
5GWIFI	Front side	0mm≤distance≤11mm	3.5
		11mm<distance	0
	Back side	0mm≤distance≤11mm	3.5
		11mm<distance	0
Antenna 8+9			
Band	Test position	Sensor Trigger Distance range (DUT to Phantom)	Power reduction amount (dB)
5GWIFI	Front side	0mm≤distance≤11mm	3.5



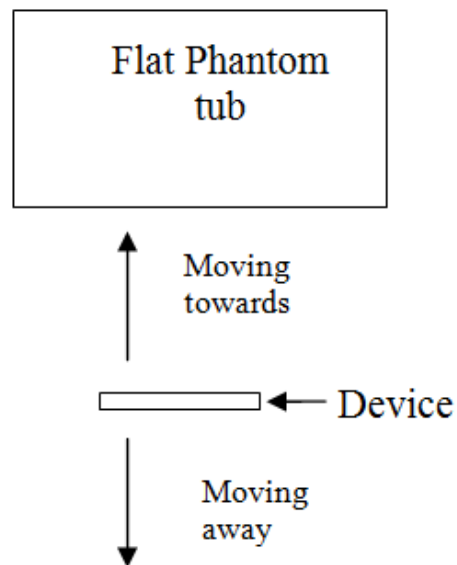
		11mm<distance	0
	Back side	0mm≤distance≤11mm	3.5
		11mm<distance	0

Note:

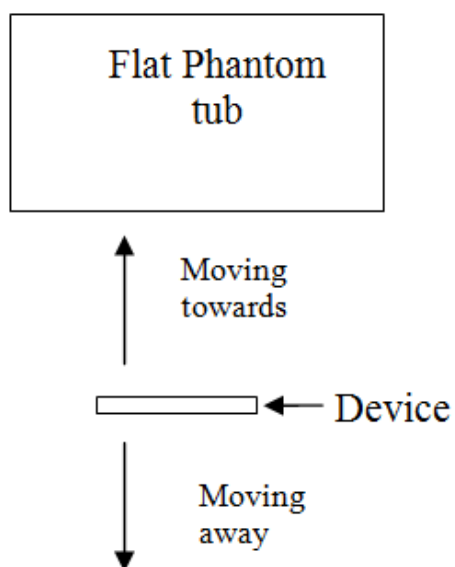
1. So the test distance of the front and back of the Body-Worn is 10mm.
2. 5G WIFI only reduces power in Simultaneous Transmission with WWAN.



Sensor detection test set-up,
front and back faces

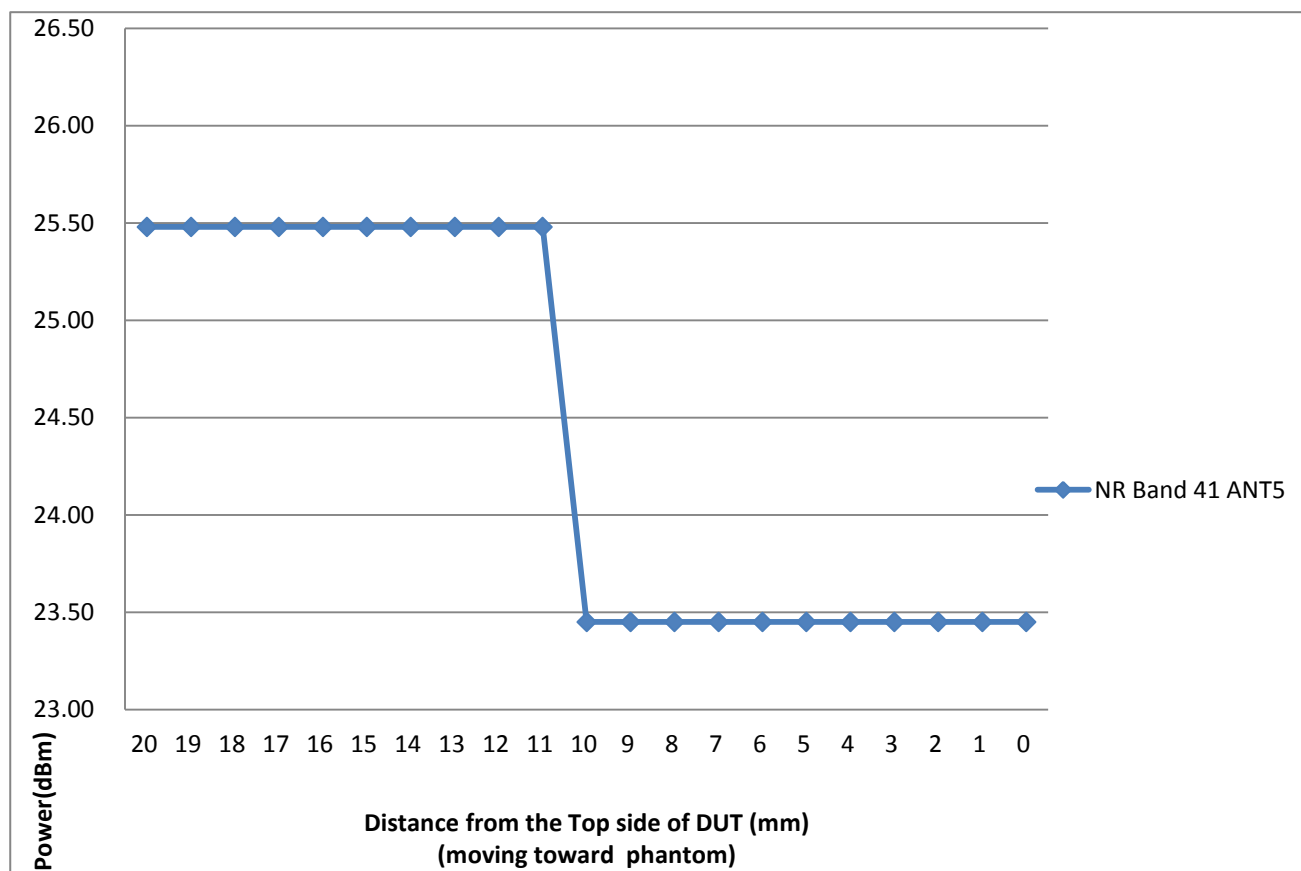


Sensor detection test set-up,
left and right faces

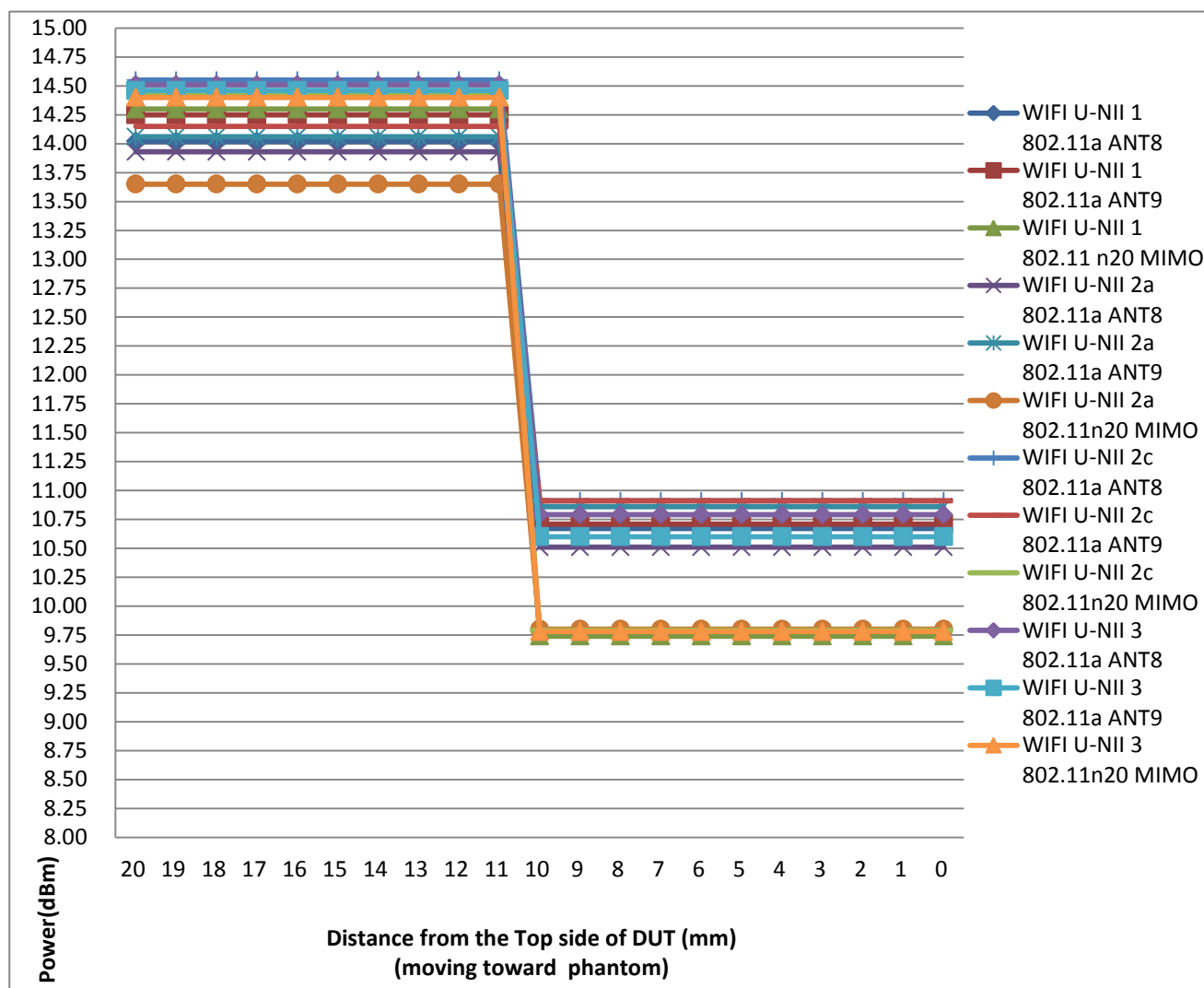


Sensor detection test set-up,
top and bottom faces

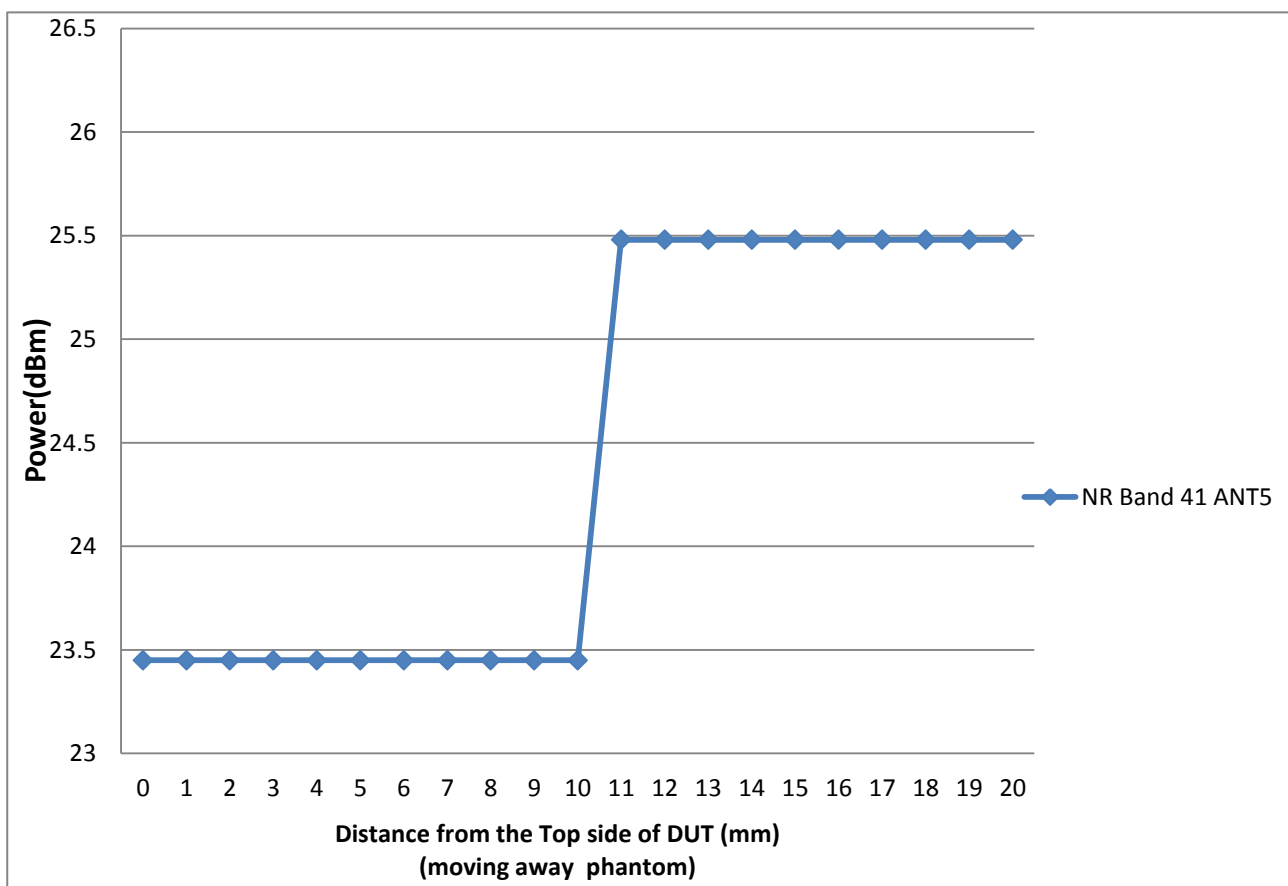
The DUT is moved towards the flat phantom:
NR Band 41 ANT 5(Front and Back edge)



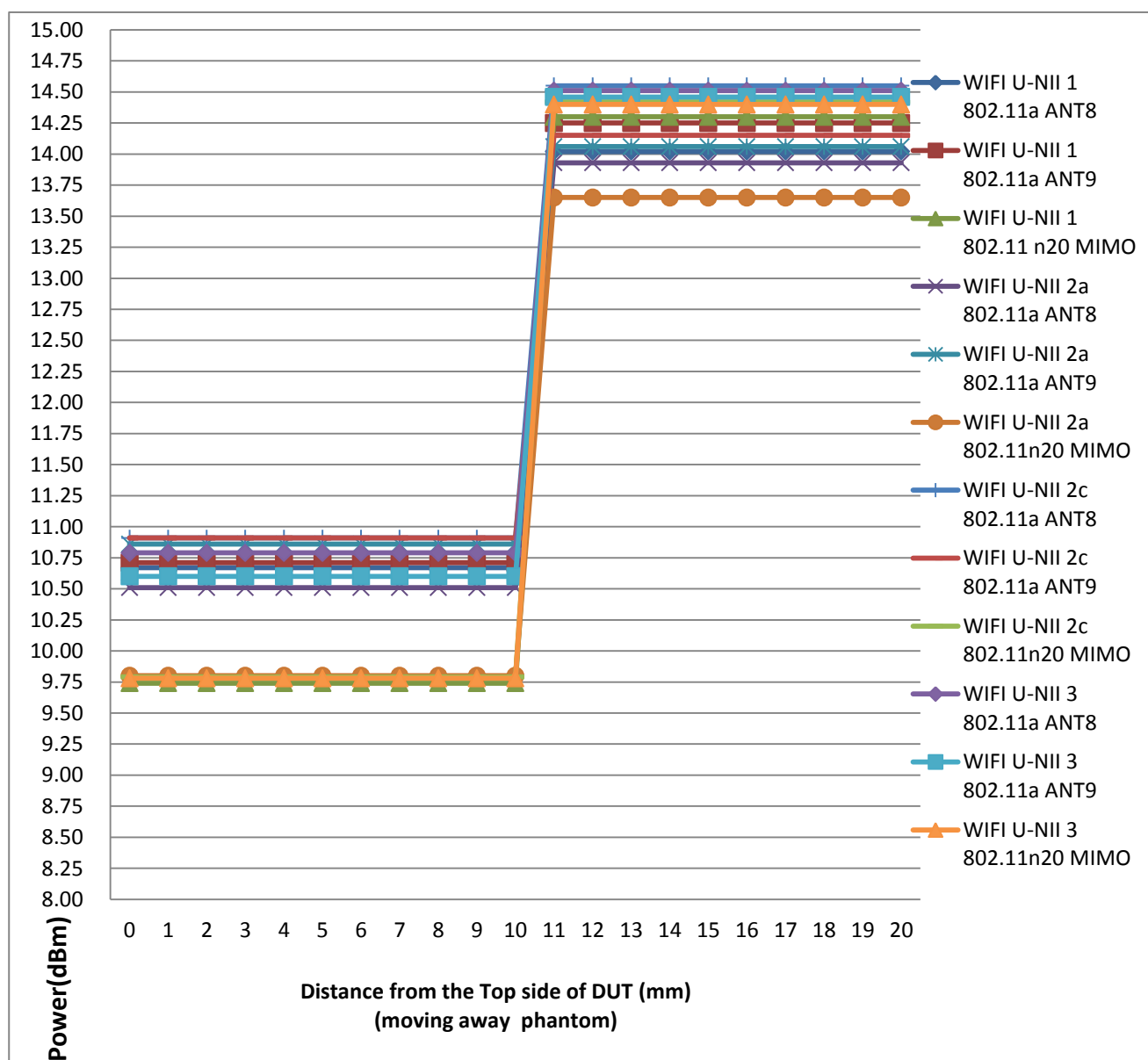
5G WIFI (Front , Back ,Edge A, Edge B)



The DUT is moved away from the flat phantom:
NR Band 41 ANT 5(Front and Back edge)



5G WIFI (Front , Back ,Edge A, Edge B)



Note:

1. SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.
2. When the distance between the phantom and EUT is equal to or less than the detection threshold distance, the proximity sensor will be trigger, and the conducted power will be reduced. When the distance between the phantom and EUT is greater than the detection threshold distance, the proximity sensor will be not trigger, and the DUT is in the full power transmit.

8. Conducted RF Output Power

8.1 GSM Conducted Power

GSM850 (ANT 1)		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)		32.64	32.51	32.76	-9.03	23.61	23.48	23.73
GPRS (GMSK)	1 Tx Slot	32.63	32.50	32.75	-9.03	23.60	23.47	23.72
	2 Tx Slots	30.30	30.41	30.24	-6.02	24.28	24.39	24.22
	3 Tx Slots	28.54	28.67	28.54	-4.26	24.28	24.41	24.28
	4 Tx Slots	27.41	27.50	27.49	-3.01	24.40	24.49	24.48
EDGE (8PSK)	1 Tx Slot	26.30	26.41	26.33	-9.03	17.27	17.38	17.30
	2 Tx Slots	24.17	24.20	24.36	-6.02	18.15	18.18	18.34
	3 Tx Slots	22.48	22.51	22.47	-4.26	18.22	18.25	18.21
	4 Tx Slots	21.34	21.45	21.54	-3.01	18.33	18.44	18.53
GSM1900 (ANT 2)		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)		30.04	29.79	29.90	-9.03	21.01	20.76	20.87
GPRS (GMSK)	1 Tx Slot	30.02	29.76	29.88	-9.03	20.99	20.73	20.85
	2 Tx Slots	27.25	27.27	27.19	-6.02	21.23	21.25	21.17
	3 Tx Slots	25.41	25.47	25.54	-4.26	21.15	21.21	21.28
	4 Tx Slots	24.29	24.46	24.14	-3.01	21.28	21.45	21.13
EDGE (8PSK)	1 Tx Slot	25.77	25.71	25.64	-9.03	16.74	16.68	16.61
	2 Tx Slots	23.35	23.42	23.23	-6.02	17.33	17.40	17.21
	3 Tx Slots	21.61	21.68	21.64	-4.26	17.35	17.42	17.38
	4 Tx Slots	20.59	20.63	20.64	-3.01	17.58	17.62	17.63
GSM1900 (ANT 4)		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)		28.10	28.14	28.13	-9.03	19.07	19.11	19.10
GPRS (GMSK)	1 Tx Slot	28.09	28.12	28.10	-9.03	19.06	19.09	19.07
	2 Tx Slots	25.97	26.01	25.87	-6.02	19.95	19.99	19.85
	3 Tx Slots	24.03	24.12	23.76	-4.26	19.77	19.86	19.50
	4 Tx Slots	23.05	23.04	22.91	-3.01	20.04	20.03	19.90
EDGE (8PSK)	1 Tx Slot	24.11	24.17	24.07	-9.03	15.08	15.14	15.04
	2 Tx Slots	22.05	21.98	21.77	-6.02	16.03	15.96	15.75
	3 Tx Slots	20.41	20.33	20.36	-4.26	16.15	16.07	16.10
	4 Tx Slots	19.26	19.30	19.34	-3.01	16.25	16.29	16.33

Note: Per KDB 447498 D01 v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.

For hotspot SAR, EUT was performed at GPRS Class 12 multi-slots(4Tx) mode

For Head and Body-worn SAR testing, EUT was set in GSM Voice mode for both GSM850 and GSM1900

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 BC0(ANT 1)	Average Power (dBm)		
	1013CH	384CH	777cH
RC1 + SO55	24.53	24.54	24.62
RC3 + SO55	24.51	24.52	24.60
RC3 + SO32(+ F-SCH)	24.54	24.58	24.64
RC3 + SO32(+SCH)	24.53	24.56	24.63

Note:

- 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.
- 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.
- 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		Average Power (dBm)		
		4132CH	4183CH	4233CH
		826.4	836.6	846..6
WCDMA	12.2kbps RMC	23.75	23.68	23.69
HSDPA	Subtest 1	22.47	22.53	22.54
	Subtest 2	22.35	22.29	22.32
	Subtest 3	21.95	21.89	21.92
	Subtest 4	21.76	21.72	21.74
HSUPA	Subtest 1	22.32	22.27	22.29
	Subtest 2	22.48	22.43	22.46
	Subtest 3	21.94	21.90	21.92
	Subtest 4	22.40	22.34	22.37
	Subtest 5	22.29	22.25	22.27
UMTS1700(Band IV) ANT 2		Average Power (dBm)		
		1312CH	1413CH	1513CH
		882.4	897.6	912.6
WCDMA	12.2kbps RMC	24.10	24.14	24.08
HSDPA	Subtest 1	23.07	23.13	23.06
	Subtest 2	22.64	22.44	22.45
	Subtest 3	21.27	21.29	21.34
	Subtest 4	21.80	21.80	21.94
HSUPA	Subtest 1	23.09	23.12	23.18
	Subtest 2	22.61	22.70	22.66
	Subtest 3	21.21	21.15	21.17
	Subtest 4	23.02	23.05	23.15
	Subtest 5	22.23	22.18	22.05
UMTS1700(Band IV) ANT 4		Average Power (dBm)		
		1312CH	1413CH	1513CH
		882.4	897.6	912.6
WCDMA	12.2kbps RMC	23.47	23.58	23.49
HSDPA	Subtest 1	22.12	22.24	22.19
	Subtest 2	21.45	21.28	21.31
	Subtest 3	21.35	21.53	21.45
	Subtest 4	20.61	20.68	20.76
HSUPA	Subtest 1	21.42	21.49	21.27
	Subtest 2	20.17	20.35	20.49
	Subtest 3	21.10	21.27	21.23
	Subtest 4	22.09	22.24	22.15
	Subtest 5	21.50	21.29	21.47



UMTS1700(Band IV) ANT 4 Head Receiver ON		Average Power (dBm)		
		1312CH	1413CH	1513CH
		882.4	897.6	912.6
WCDMA	12.2kbps RMC	19.29	19.46	19.35
HSDPA	Subtest 1	17.78	17.68	17.66
	Subtest 2	17.53	17.50	17.41
	Subtest 3	17.41	17.46	17.16
	Subtest 4	17.34	17.35	17.15
HSUPA	Subtest 1	17.26	17.23	16.98
	Subtest 2	17.60	17.60	17.36
	Subtest 3	17.01	17.29	16.68
	Subtest 4	17.64	17.82	17.48
	Subtest 5	17.44	17.24	17.07
UMTS1900(Band II) ANT 2		Average Power (dBm)		
		9262CH	9400CH	9538cH
		1852.4	1880.0	1907.6
WCDMA	12.2kbps RMC	24.26	24.34	24.25
HSDPA	Subtest 1	22.86	22.91	22.94
	Subtest 2	22.34	22.37	22.42
	Subtest 3	21.17	21.18	21.27
	Subtest 4	21.48	21.52	21.59
HSUPA	Subtest 1	22.92	22.95	23.04
	Subtest 2	23.13	23.20	23.18
	Subtest 3	21.24	21.29	21.31
	Subtest 4	22.99	23.00	23.03
	Subtest 5	21.99	22.05	22.04
UMTS1900(Band II) ANT 4		Average Power (dBm)		
		9262CH	9400CH	9538cH
		1852.4	1880.0	1907.6
WCDMA	12.2kbps RMC	23.49	23.56	23.48
HSDPA	Subtest 1	22.21	22.32	22.01
	Subtest 2	21.80	21.87	21.67
	Subtest 3	21.88	22.04	21.76
	Subtest 4	21.07	21.20	21.01
HSUPA	Subtest 1	21.77	22.12	22.04
	Subtest 2	21.25	21.42	21.24
	Subtest 3	20.84	20.96	21.18
	Subtest 4	21.66	21.76	21.89
	Subtest 5	21.38	21.59	21.54

UMTS1900(Band II) ANT 4 Head Receiver ON		Average Power (dBm)		
		9262CH	9400CH	9538cH
		1852.4	1880.0	1907.6
WCDMA	12.2kbps RMC	18.46	18.51	18.29
HSDPA	Subtest 1	16.97	16.70	16.56
	Subtest 2	16.90	17.18	16.65
	Subtest 3	16.11	16.50	16.06
	Subtest 4	16.80	16.82	16.78
HSUPA	Subtest 1	16.59	16.85	16.69
	Subtest 2	16.46	16.37	16.06
	Subtest 3	16.73	16.73	16.82
	Subtest 4	16.62	16.70	16.71
	Subtest 5	16.53	16.66	16.51

Note:

4. WCDMA SAR was tested under RMC 12.2kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. HSPA SAR was not required 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.
5. 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 $\leq 0.8\text{W/kg}$, 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 $> 1.45\text{W/kg}$, SAR is required for all three RB offset configurations for that required test channel.



1 . LTE Band 4 Conducted Power Test Verdict:

LTE FDD Band 4(ANT 2)				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	24.40	24.13	24.06	24.0±1.0
		1	3	24.07	24.15	24.12	
		1	5	24.21	23.95	24.22	
		3	0	23.13	23.15	23.22	22.5±1.0
		3	2	23.22	23.19	23.03	
		3	3	23.20	23.07	23.11	
		6	0	23.15	23.18	23.06	22.5±1.0
	16QAM	1	0	22.78	23.30	23.46	23.0±1.0
		1	3	22.82	23.22	23.11	
		1	5	23.44	23.11	23.22	
		3	0	22.28	22.37	22.20	22.0±1.0
		3	2	22.33	22.29	22.18	
		3	3	22.15	22.14	22.32	
		6	0	22.15	22.25	22.29	22.0±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	24.23	24.04	23.88	24.0±1.0
		1	8	24.15	24.08	24.21	
		1	14	24.27	24.17	24.11	
		8	0	23.21	23.17	23.13	23.0±1.0
		8	4	23.12	23.17	23.11	
		8	7	23.26	23.16	23.17	
		15	0	23.11	23.17	23.10	22.5±1.0
	16QAM	1	0	23.62	23.42	23.21	23.0±1.0
		1	8	23.37	23.30	23.39	
		1	14	23.45	23.33	23.22	
		8	0	22.34	22.14	22.12	22.0±1.0
		8	4	22.33	22.29	22.12	
		8	7	22.18	22.28	22.30	
		15	0	22.07	22.24	22.19	21.5±1.0

LTE FDD Band 4(ANT 2)				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	24.05	24.23	24.12	23.5±1.0
		1	12	24.19	24.15	24.15	
		1	24	24.10	24.27	24.05	
		12	0	23.16	23.21	23.16	23.0±1.0
		12	6	23.18	23.12	23.11	
		12	13	23.22	23.26	23.21	
		25	0	23.16	23.11	23.09	22.5±1.0
	16QAM	1	0	23.20	23.32	23.06	23.0±1.0
		1	12	23.07	22.97	23.25	
		1	24	23.15	23.45	23.28	
		12	0	22.16	22.34	22.05	22.0±1.0
		12	6	22.12	22.33	22.03	
		12	13	22.43	22.18	22.10	
		25	0	22.18	22.07	22.13	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	24.07	24.24	23.96	24.0±1.0
		1	25	24.07	24.31	24.22	
		1	49	23.77	24.09	23.99	
		25	0	23.12	23.33	23.07	22.5±1.0
		25	12	23.09	23.18	23.19	
		25	25	23.18	23.25	23.14	
		50	0	23.01	23.23	23.19	22.5±1.0
	16QAM	1	0	23.29	23.30	23.33	23.0±1.0
		1	25	23.13	23.02	23.23	
		1	49	22.51	23.21	23.19	
		25	0	22.16	22.26	22.17	22.0±1.0
		25	12	22.05	22.37	22.08	
		25	25	22.24	22.19	22.26	
		50	0	22.19	22.28	22.21	22.0±1.0

LTE FDD Band 4(ANT 2)				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	23.79	23.94	23.91	23.5±1.0
		1	37	24.04	23.96	24.02	
		1	74	23.93	23.90	24.01	
		36	0	23.02	23.05	23.05	22.5±1.0
		36	20	22.98	23.11	22.93	
		36	39	23.00	23.00	23.05	
		75	0	22.97	23.04	22.93	22.5±1.0
	16QAM	1	0	23.30	23.27	23.26	23.0±1.0
		1	37	23.18	23.06	23.25	
		1	74	23.03	23.31	22.94	
		36	0	22.03	21.95	22.03	21.5±1.0
		36	20	22.07	21.99	22.00	
		36	39	22.07	22.13	21.95	
		75	0	21.97	22.15	21.95	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	23.91	24.15	24.28	24.0±1.0
		1	49	23.98	23.97	24.11	
		1	99	24.08	24.05	23.92	
		50	0	23.07	23.04	22.99	22.5±1.0
		50	24	22.99	23.11	23.05	
		50	50	23.09	23.13	23.06	
		100	0	23.00	22.99	23.11	22.5±1.0
	16QAM	1	0	23.12	23.04	23.17	22.5±1.0
		1	49	23.13	23.15	23.20	
		1	99	23.12	23.03	22.14	
		50	0	22.01	22.09	21.95	21.5±1.0
		50	24	22.00	22.04	21.93	
		50	50	21.96	21.96	22.15	
		100	0	21.99	22.08	22.06	21.5±1.0



LTE FDD Band 4(ANT 3)				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	23.70	23.63	23.58	23.0±1.0
		1	3	23.50	23.51	23.52	
		1	5	23.69	23.53	23.52	
		3	0	22.60	22.62	22.58	22.0±1.0
		3	2	22.69	22.58	22.70	
		3	3	22.72	22.66	22.52	
		6	0	22.62	22.60	22.52	22.0±1.0
	16QAM	1	0	22.79	22.37	22.52	22.5±1.0
		1	3	22.74	22.46	22.38	
		1	5	22.55	22.26	22.67	
		3	0	21.61	21.71	21.44	21.0±1.0
		3	2	21.61	21.53	21.52	
		3	3	21.74	21.62	21.46	
		6	0	21.75	21.54	21.49	21.0±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	23.56	23.38	23.45	23.0±1.0
		1	8	23.73	23.69	23.37	
		1	14	23.59	23.58	23.47	
		8	0	22.61	22.63	22.60	22.0±1.0
		8	4	22.59	22.52	22.55	
		8	7	22.64	22.60	22.53	
		15	0	22.59	22.58	22.49	22.0±1.0
	16QAM	1	0	22.60	22.49	22.59	22.0±1.0
		1	8	22.67	22.44	22.66	
		1	14	22.45	22.73	22.64	
		8	0	21.44	21.55	21.67	21.0±1.0
		8	4	21.52	21.51	21.71	
		8	7	21.67	21.44	21.71	
		15	0	21.61	21.56	21.60	21.0±1.0



LTE FDD Band 4(ANT 3)				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	23.42	23.56	23.49	23.0±1.0
		1	12	23.46	23.71	23.66	
		1	24	23.66	23.59	23.56	
		12	0	22.50	22.61	22.55	22.0±1.0
		12	6	22.44	22.59	22.56	
		12	13	22.50	22.64	22.51	
		25	0	22.54	22.59	22.49	22.0±1.0
	16QAM	1	0	22.93	22.60	22.68	22.5±1.0
		1	12	22.66	23.09	22.52	
		1	24	22.42	22.95	22.62	
		12	0	21.45	21.44	21.69	21.0±1.0
		12	6	21.48	21.52	21.54	
		12	13	21.33	21.67	21.57	
		25	0	21.62	21.61	21.59	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	23.47	23.61	23.42	23.0±1.0
		1	25	23.62	23.71	23.68	
		1	49	23.42	23.55	23.46	
		25	0	22.52	22.74	22.63	22.0±1.0
		25	12	22.47	22.59	22.60	
		25	25	22.59	22.62	22.55	
		50	0	22.54	22.53	22.59	22.0±1.0
	16QAM	1	0	22.55	22.78	22.17	22.0±1.0
		1	25	22.31	22.66	22.29	
		1	49	22.55	22.82	22.33	
		25	0	21.51	21.63	21.67	21.0±1.0
		25	12	21.51	21.55	21.63	
		25	25	21.58	21.60	21.58	
		50	0	21.59	21.63	21.53	21.0±1.0

LTE FDD Band 4(ANT 3)				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	23.32	23.53	23.28	23.0±1.0
		1	37	23.38	23.46	23.46	
		1	74	23.47	23.35	23.19	
		36	0	22.30	22.48	22.50	22.0±1.0
		36	20	22.30	22.44	22.41	
		36	39	22.36	22.54	22.44	
		75	0	22.42	22.43	22.48	22.0±1.0
	16QAM	1	0	22.42	22.60	22.57	22.0±1.0
		1	37	22.49	22.54	22.62	
		1	74	22.74	22.53	22.32	
		36	0	21.31	21.46	21.55	21.0±1.0
		36	20	21.33	21.58	21.53	
		36	39	21.38	21.49	21.46	
		75	0	21.42	21.48	21.45	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	23.36	23.39	23.67	23.0±1.0
		1	49	23.27	23.59	23.43	
		1	99	23.52	23.44	23.24	
		50	0	22.38	22.48	22.57	22.0±1.0
		50	24	22.35	22.51	22.51	
		50	50	22.45	22.46	22.42	
		100	0	22.50	22.48	22.48	22.0±1.0
	16QAM	1	0	22.47	22.39	22.35	22.0±1.0
		1	49	22.31	22.49	22.40	
		1	99	22.44	22.41	22.21	
		50	0	21.37	21.44	21.52	21.0±1.0
		50	24	21.45	21.63	21.54	
		50	50	21.44	21.46	21.46	
		100	0	21.46	21.36	21.38	21.0±1.0



LTE FDD Band 4(ANT 3) Head Receiver ON

LTE FDD Band 4(ANT 3) Head Receiver ON				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	22.15	22.05	22.04	21.5±1.0
		1	3	22.04	22.08	22.09	
		1	5	21.97	22.11	21.92	
		3	0	21.14	21.04	21.04	20.5±1.0
		3	2	21.25	21.15	21.27	
		3	3	21.24	21.13	21.12	
		6	0	21.12	21.14	21.06	20.5±1.0
	16QAM	1	0	21.29	21.08	21.09	20.5±1.0
		1	3	21.20	21.03	20.99	
		1	5	21.10	20.98	21.10	
		3	0	20.08	20.13	20.15	19.5±1.0
		3	2	20.15	19.99	20.05	
		3	3	20.22	20.16	19.95	
		6	0	20.11	20.08	20.07	19.5±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	22.09	22.02	22.04	21.5±1.0
		1	8	22.06	22.07	21.90	
		1	14	22.08	22.00	22.02	
		8	0	21.05	21.02	21.09	20.5±1.0
		8	4	21.00	20.98	20.97	
		8	7	21.04	21.07	20.99	
		15	0	21.03	21.07	20.93	20.5±1.0
	16QAM	1	0	21.10	21.03	21.08	20.5±1.0
		1	8	21.15	20.91	21.04	
		1	14	20.99	21.09	21.06	
		8	0	19.84	20.11	20.17	19.5±1.0
		8	4	20.01	20.07	20.17	
		8	7	20.16	20.00	20.29	
		15	0	20.03	20.08	20.05	19.5±1.0

LTE FDD Band 4(ANT 3) Head Receiver ON				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	22.03	22.12	22.08	21.5±1.0
		1	12	22.02	22.11	22.20	
		1	24	22.07	22.10	22.07	
		12	0	21.05	21.06	21.08	20.5±1.0
		12	6	20.86	21.11	21.03	
		12	13	21.08	21.11	20.95	
		25	0	21.09	21.10	20.95	20.5±1.0
	16QAM	1	0	21.51	21.17	21.16	20.5±1.0
		1	12	21.11	21.55	20.98	
		1	24	20.86	21.41	21.14	
		12	0	20.08	19.87	20.21	19.5±1.0
		12	6	19.95	20.07	20.06	
		12	13	20.15	20.25	20.03	
		25	0	20.09	20.20	19.99	19.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	22.05	22.19	22.11	21.5±1.0
		1	25	22.10	22.11	22.23	
		1	49	22.00	22.01	21.94	
		25	0	21.00	21.22	21.15	20.5±1.0
		25	12	20.88	21.00	21.00	
		25	25	21.16	21.15	21.07	
		50	0	21.06	20.96	21.10	20.5±1.0
	16QAM	1	0	20.99	21.38	20.72	20.5±1.0
		1	25	20.82	21.19	20.69	
		1	49	21.00	21.40	20.85	
		25	0	20.10	20.04	20.22	19.5±1.0
		25	12	20.03	20.12	20.07	
		25	25	20.11	20.11	20.07	
		50	0	20.04	20.07	19.98	19.5±1.0



LTE FDD Band 4(ANT 3) Head Receiver ON				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	22.07	22.10	22.10	21.5±1.0
		1	37	21.85	21.89	22.08	
		1	74	21.91	22.02	21.95	
		36	0	20.71	21.03	20.94	20.5±1.0
		36	20	20.75	21.02	21.00	
		36	39	20.80	21.05	20.86	
		75	0	20.95	20.87	20.96	20.5±1.0
	16QAM	1	0	21.00	21.01	21.15	20.5±1.0
		1	37	20.98	20.97	21.14	
		1	74	21.12	21.03	20.92	
		36	0	20.04	20.00	20.13	19.5±1.0
		36	20	19.89	20.02	20.08	
		36	39	20.01	19.97	19.98	
		75	0	19.91	20.00	19.92	19.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	22.04	22.09	22.22	21.5±1.0
		1	49	21.89	22.12	21.89	
		1	99	22.08	22.01	21.93	
		50	0	21.15	21.02	21.11	20.5±1.0
		50	24	20.87	21.06	20.95	
		50	50	21.05	21.09	21.02	
		100	0	21.09	21.07	21.02	20.5±1.0
	16QAM	1	0	20.93	20.96	20.83	20.5±1.0
		1	49	20.88	21.02	20.96	
		1	99	21.01	20.92	20.76	
		50	0	19.80	20.02	19.98	19.5±1.0
		50	24	20.00	20.10	20.03	
		50	50	20.03	19.88	20.01	
		100	0	20.02	19.79	19.89	19.5±1.0

2. LTE Band 5 Conducted Power Test Verdict:

LTE FDD Band 5(ANT 1)				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	24.51	24.66	24.47	24.5±1.0
		1	2	24.66	24.68	24.52	
		1	5	24.74	24.75	24.44	
		3	0	23.68	23.59	23.55	23.0±1.0
		3	1	23.65	23.62	23.53	
		3	2	23.62	23.73	23.58	
		6	0	23.66	23.63	23.55	23.0±1.0
	16QAM	1	0	23.89	23.70	23.65	23.5±1.0
		1	2	24.08	23.53	23.54	
		1	5	24.18	23.47	23.54	
		3	0	22.81	22.65	22.66	22.5±1.0
		3	1	22.98	22.53	22.48	
		3	2	22.83	22.72	22.53	
		6	0	22.91	22.60	22.58	22.5±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	24.76	24.56	24.69	24.5±1.0
		1	7	24.63	24.79	24.57	
		1	14	24.58	24.55	24.43	
		8	0	23.66	23.61	23.62	23.0±1.0
		8	4	23.64	23.63	23.64	
		8	7	23.75	23.72	23.67	
		15	0	23.70	23.62	23.58	23.0±1.0
	16QAM	1	0	23.35	23.51	23.49	23.5±1.0
		1	7	23.93	23.79	23.96	
		1	14	23.62	23.87	24.01	
		8	0	22.87	22.50	22.56	22.5±1.0
		8	4	22.64	22.61	22.57	
		8	7	22.70	22.68	22.75	
		15	0	22.70	22.61	22.60	22.0±1.0

LTE FDD Band 5(ANT 1)				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	24.68	24.81	24.51	24.5±1.0
		1	12	24.75	24.85	24.84	
		1	24	24.76	24.67	24.30	
		12	0	23.66	23.74	23.61	23.5±1.0
		12	6	23.69	23.75	23.69	
		12	11	23.78	23.77	23.71	
		25	0	23.76	23.64	23.56	23.5±1.0
	16QAM	1	0	23.85	23.84	24.08	23.5±1.0
		1	12	23.81	24.01	24.02	
		1	24	23.61	23.72	23.96	
		12	0	22.58	22.68	22.67	22.0±1.0
		12	6	22.48	22.66	22.65	
		12	11	22.71	22.72	22.75	
		25	0	22.66	22.70	22.57	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	24.75	24.68	24.62	24.5±1.0
		1	24	24.53	24.57	24.77	
		1	49	24.71	24.68	24.61	
		25	0	23.69	23.81	23.67	23.5±1.0
		25	12	23.77	23.69	23.64	
		25	24	23.65	23.75	23.58	
		50	0	23.72	23.71	23.59	23.0±1.0
	16QAM	1	0	23.34	23.74	23.61	23.5±1.0
		1	24	23.78	23.96	23.52	
		1	49	23.63	23.78	23.56	
		25	0	22.58	22.78	22.56	22.5±1.0
		25	12	22.76	22.73	22.69	
		25	24	22.64	22.69	22.64	
		50	0	22.71	22.63	22.62	22.5±1.0

3. LTE Band 7 Conducted Power Test Verdict:

LTE FDD Band 7(ANT 2)				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	24.14	24.11	24.25	24.0±1.0
		1	12	24.09	24.37	24.16	
		1	24	24.24	24.27	24.11	
		12	0	23.25	23.20	23.32	22.5±1.0
		12	6	23.23	23.19	23.13	
		12	11	23.35	23.38	23.25	
		25	0	23.27	23.28	23.27	22.5±1.0
	16QAM	1	0	23.12	23.09	23.07	23.0±1.0
		1	12	23.34	23.11	23.19	
		1	24	23.27	23.08	23.18	
		12	0	22.33	22.11	22.14	21.5±1.0
		12	6	22.09	22.17	21.92	
		12	11	22.42	22.34	22.18	
		25	0	22.32	22.22	22.16	21.5±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	24.28	24.05	24.18	24.0±1.0
		1	24	24.20	24.41	24.20	
		1	49	24.06	24.41	24.26	
		25	0	23.23	23.12	23.17	22.5±1.0
		25	12	23.28	23.24	23.13	
		25	24	23.17	23.16	23.21	
		50	0	23.18	23.19	23.19	22.5±1.0
	16QAM	1	0	23.29	23.08	23.20	23.0±1.0
		1	24	23.14	23.21	23.33	
		1	49	23.08	23.30	23.14	
		25	0	22.25	22.24	22.27	22.0±1.0
		25	12	22.12	22.17	22.19	
		25	24	22.19	22.27	22.21	
		50	0	22.18	22.20	22.12	21.5±1.0

LTE FDD Band 7(ANT 2)				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	24.19	24.03	24.23	23.5±1.0
		1	37	24.02	24.15	24.14	
		1	74	24.06	23.97	24.02	
		36	0	23.13	23.04	23.16	22.5±1.0
		36	16	23.12	23.13	23.04	
		36	35	23.13	23.09	23.09	
		75	0	23.08	23.10	23.06	22.5±1.0
	16QAM	1	0	23.18	23.48	23.15	23.0±1.0
		1	37	23.31	23.24	23.22	
		1	74	23.04	23.22	23.10	
		36	0	22.10	22.19	22.18	21.5±1.0
		36	16	22.19	22.22	22.09	
		36	35	22.05	22.09	22.10	
		75	0	22.12	22.16	22.14	21.5±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	24.16	24.13	24.22	24.0±1.0
		1	49	24.31	24.10	24.11	
		1	99	24.19	23.96	24.37	
		50	0	23.05	23.02	22.97	22.5±1.0
		50	24	23.17	23.12	23.00	
		50	49	23.07	23.18	23.01	
		100	0	23.16	23.12	23.06	22.5±1.0
	16QAM	1	0	23.34	23.31	23.24	23.0±1.0
		1	49	23.28	23.06	23.10	
		1	99	23.14	23.22	23.26	
		50	0	22.16	22.12	22.05	21.5±1.0
		50	24	21.99	22.09	22.07	
		50	49	22.11	22.03	22.04	
		100	0	22.15	22.13	21.98	21.5±1.0

LTE FDD Band 7(ANT 3)				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	23.49	23.61	23.72	23.0±1.0
		1	12	23.63	23.44	23.70	
		1	24	23.57	23.51	23.44	
		12	0	22.55	22.35	22.42	22.0±1.0
		12	6	22.57	22.43	22.36	
		12	11	22.56	22.52	22.57	
		25	0	22.48	22.37	22.43	22.0±1.0
	16QAM	1	0	22.43	22.50	22.61	22.0±1.0
		1	12	22.41	22.42	22.58	
		1	24	22.53	22.60	22.44	
		12	0	21.60	21.26	21.42	21.0±1.0
		12	6	21.63	21.52	21.47	
		12	11	21.73	21.57	21.66	
		25	0	21.64	21.55	21.43	21.0±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	23.47	23.50	23.34	23.0±1.0
		1	24	23.61	23.45	23.64	
		1	49	23.51	23.46	23.50	
		25	0	22.48	22.43	22.44	22.0±1.0
		25	12	22.47	22.45	22.49	
		25	24	22.51	22.39	22.43	
		50	0	22.49	22.37	22.40	22.0±1.0
	16QAM	1	0	22.43	22.43	22.59	22.0±1.0
		1	24	22.57	22.52	22.63	
		1	49	22.48	22.60	22.34	
		25	0	21.48	21.62	21.62	21.0±1.0
		25	12	21.56	21.54	21.51	
		25	24	21.40	21.59	21.58	
		50	0	21.48	21.54	21.53	21.0±1.0

LTE FDD Band 7(ANT 3)				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	23.40	23.42	23.53	23.0±1.0
		1	37	23.53	23.51	23.45	
		1	74	23.41	23.38	23.64	
		36	0	22.39	22.36	22.37	22.0±1.0
		36	16	22.42	22.43	22.31	
		36	35	22.44	22.49	22.35	
		75	0	22.43	22.40	22.33	22.0±1.0
	16QAM	1	0	22.45	22.48	22.28	22.0±1.0
		1	37	22.49	22.44	22.43	
		1	74	22.39	22.32	22.50	
		36	0	21.37	21.33	21.39	21.0±1.0
		36	16	21.44	21.40	21.28	
		36	35	21.26	21.37	21.35	
		75	0	21.33	21.35	21.33	21.0±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	23.64	23.60	23.51	23.0±1.0
		1	49	23.37	23.43	23.24	
		1	99	23.50	23.39	23.49	
		50	0	22.40	22.40	22.46	22.0±1.0
		50	24	22.48	22.31	22.37	
		50	49	22.30	22.47	22.42	
		100	0	22.40	22.39	22.36	22.0±1.0
	16QAM	1	0	22.34	22.38	22.36	22.0±1.0
		1	49	22.52	22.55	22.48	
		1	99	22.47	22.44	22.23	
		50	0	21.36	21.25	21.29	21.0±1.0
		50	24	21.36	21.45	21.15	
		50	49	21.44	21.34	21.24	
		100	0	21.38	21.34	21.25	21.0±1.0

.4. LTE Band 12 Conducted Power Test Verdict:

LTE FDD Band 12				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	24.75	24.89	24.72	24.5±1.0
		1	2	24.79	24.76	24.70	
		1	5	24.87	24.79	24.68	
		3	0	23.79	23.82	23.70	23.5±1.0
		3	1	23.75	23.70	23.68	
		3	2	23.64	23.87	23.74	
		6	0	23.68	23.71	23.72	23.0±1.0
	16QAM	1	0	23.68	23.86	23.74	23.5±1.0
		1	2	23.52	23.91	23.43	
		1	5	23.78	23.87	23.76	
		3	0	22.60	22.88	22.78	22.5±1.0
		3	1	22.76	22.65	22.85	
		3	2	22.54	22.82	22.90	
		6	0	22.54	22.67	22.82	22.5±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	24.57	24.77	24.73	24.5±1.0
		1	7	24.85	24.84	24.70	
		1	14	24.61	24.69	24.63	
		8	0	23.81	23.76	23.70	23.5±1.0
		8	4	23.87	23.68	23.72	
		8	7	23.70	23.74	23.71	
		15	0	23.72	23.76	23.68	23.5±1.0
	16QAM	1	0	23.89	23.60	23.85	23.5±1.0
		1	7	23.85	23.86	23.79	
		1	14	23.71	23.46	23.46	
		8	0	22.84	22.74	22.66	22.5±1.0
		8	4	22.84	22.81	22.65	
		8	7	22.68	22.83	22.78	
		15	0	22.88	22.82	22.61	22.5±1.0



LTE FDD Band 12				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	24.81	24.73	24.64	24.5±1.0
		1	12	24.85	24.92	24.42	
		1	24	24.74	24.73	24.68	
		12	0	23.70	23.85	23.72	23.5±1.0
		12	6	23.70	23.78	23.67	
		12	11	23.77	23.79	23.82	
		25	0	23.87	23.73	23.63	23.5±1.0
	16QAM	1	0	23.68	23.87	23.24	23.5±1.0
		1	12	23.69	23.69	23.55	
		1	24	23.54	24.16	23.88	
		12	0	22.63	22.77	22.79	22.5±1.0
		12	6	22.78	22.77	22.65	
		12	11	22.71	22.82	22.68	
		25	0	22.88	22.76	22.82	22.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	24.66	24.81	24.70	24.5±1.0
		1	24	24.74	24.79	25.00	
		1	49	24.75	24.72	24.64	
		25	0	23.68	23.70	23.74	23.5±1.0
		25	12	23.79	23.82	23.77	
		25	24	23.70	23.78	23.68	
		50	0	23.77	23.74	23.77	23.5±1.0
	16QAM	1	0	23.73	23.90	23.86	23.5±1.0
		1	24	23.65	23.71	23.69	
		1	49	23.92	23.86	23.79	
		25	0	22.73	22.73	22.93	22.5±1.0
		25	12	22.79	22.78	22.74	
		25	24	22.85	22.69	22.87	
		50	0	22.90	22.73	22.76	22.5±1.0

5. LTE Band 17 Conducted Power Test Verdict:

LTE FDD Band 17				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23755/706.5	23790/710	23825/713.5	
5MHz	QPSK	1	0	24.75	24.96	24.74	24.5±1.0
		1	12	24.83	24.70	24.75	
		1	24	24.77	24.84	24.68	
		12	0	23.80	23.85	23.86	23.5±1.0
		12	6	23.77	23.87	23.75	
		12	11	23.74	23.76	23.62	
		25	0	23.73	23.87	23.69	23.5±1.0
	16QAM	1	0	23.81	24.08	23.93	23.5±1.0
		1	12	24.06	23.80	23.66	
		1	24	23.46	23.72	23.72	
		12	0	22.76	22.85	22.81	22.5±1.0
		12	6	22.62	22.75	22.75	
		12	11	22.83	22.72	22.81	
		25	0	22.91	22.72	22.66	22.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23780/709	23790/710	23800/711	
10MHz	QPSK	1	0	24.85	24.95	24.71	24.5±1.0
		1	24	24.73	24.83	24.77	
		1	49	24.74	24.69	24.62	
		25	0	23.74	23.81	23.77	23.5±1.0
		25	12	23.84	23.83	23.84	
		25	24	23.93	22.75	23.92	
		50	0	23.91	23.78	23.85	23.5±1.0
	16QAM	1	0	23.95	23.56	24.12	23.5±1.0
		1	24	24.38	23.85	23.95	
		1	49	23.70	23.92	24.26	
		25	0	22.85	22.77	22.81	22.5±1.0
		25	12	22.88	22.67	22.76	
		25	24	22.79	22.85	22.87	
		50	0	22.86	22.80	22.82	22.5±1.0

6. LTE Band 41 Conducted Power Test Verdict:

LTE FDD Band 41(ANT 2)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39675/2498.5	40620/2593	41565/2687.5	
5MHz	QPSK	1	0	25.12	25.07	24.84	24.5±1.0
		1	12	25.08	25.05	25.07	
		1	24	24.97	25.09	24.92	
		12	0	24.22	23.97	23.95	23.5±1.0
		12	6	24.16	23.95	23.79	
		12	11	24.13	24.13	23.99	
		25	0	24.03	24.07	23.88	23.5±1.0
	16QAM	1	0	23.86	23.92	23.64	23.5±1.0
		1	12	24.12	23.99	23.97	
		1	24	24.05	24.00	23.76	
		12	0	23.13	23.06	22.91	22.5±1.0
		12	6	23.21	23.09	23.03	
		12	11	23.17	23.19	22.85	
		25	0	23.01	23.20	22.96	22.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39700/2501	40620/2593	41540/2685	
10MHz	QPSK	1	0	25.08	24.97	24.93	24.5±1.0
		1	24	25.08	25.10	24.85	
		1	49	25.02	24.89	24.79	
		25	0	24.08	23.96	23.91	23.5±1.0
		25	12	24.20	24.03	23.98	
		25	24	24.15	23.92	23.85	
		50	0	24.17	24.12	23.87	23.5±1.0
	16QAM	1	0	24.11	23.88	23.92	23.5±1.0
		1	24	24.05	24.10	23.96	
		1	49	24.08	24.48	24.06	
		25	0	23.15	23.10	23.03	22.5±1.0
		25	12	23.04	23.00	22.97	
		25	24	23.18	23.12	23.05	
		50	0	23.15	23.15	23.00	22.5±1.0

LTE FDD Band 41(ANT 2)				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	24.71	25.03	24.76	24.5±1.0
		1	37	24.82	24.83	24.89	
		1	74	24.96	24.92	24.83	
		36	0	23.93	23.84	23.72	23.5±1.0
		36	16	23.88	23.93	23.81	
		36	35	23.95	23.87	23.76	
		75	0	23.86	23.84	23.68	23.5±1.0
	16QAM	1	0	23.73	23.91	23.82	23.5±1.0
		1	37	23.54	23.80	23.96	
		1	74	23.84	24.00	23.76	
		36	0	22.98	22.81	22.92	22.5±1.0
		36	16	22.92	22.94	22.82	
		36	35	23.04	22.81	22.86	
		75	0	23.07	22.77	22.78	22.5±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	25.13	25.03	24.98	24.5±1.0
		1	49	24.94	24.64	24.74	
		1	99	24.86	24.97	24.83	
		50	0	23.98	23.96	23.84	23.5±1.0
		50	24	24.05	23.93	23.79	
		50	49	23.96	23.99	23.89	
		100	0	24.02	23.91	23.95	23.5±1.0
	16QAM	1	0	24.04	24.19	23.95	23.5±1.0
		1	49	23.63	24.20	23.73	
		1	99	23.41	24.21	24.09	
		50	0	23.05	23.00	22.96	22.5±1.0
		50	24	22.92	22.92	22.85	
		50	49	22.99	23.02	22.86	
		100	0	23.03	22.92	22.83	22.5±1.0

LTE FDD Band 41(ANT 4)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39675/2498.5	40620/2593	41565/2687.5	
5MHz	QPSK	1	0	24.35	24.55	24.35	24.0±1.0
		1	12	24.23	24.67	24.40	
		1	24	24.44	24.75	24.22	
		12	0	23.42	23.74	23.56	23.0±1.0
		12	6	23.45	23.70	23.52	
		12	11	23.63	23.76	23.49	
		25	0	23.39	23.66	23.37	23.0±1.0
	16QAM	1	0	23.28	23.46	23.22	23.5±1.0
		1	12	23.11	23.97	23.58	
		1	24	23.51	23.57	23.38	
		12	0	22.46	22.73	22.47	22.0±1.0
		12	6	22.38	22.61	22.58	
		12	11	22.51	22.68	22.49	
		25	0	22.45	22.68	22.48	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39700/2501	40620/2593	41540/2685	
10MHz	QPSK	1	0	24.39	24.97	24.46	24.5±1.0
		1	24	24.63	24.75	24.19	
		1	49	24.63	24.49	24.25	
		25	0	23.58	23.72	23.63	23.0±1.0
		25	12	23.69	23.68	23.68	
		25	24	23.55	23.58	23.42	
		50	0	23.66	22.68	23.49	23.0±1.0
	16QAM	1	0	23.37	23.52	23.42	23.5±1.0
		1	24	23.83	23.79	23.67	
		1	49	23.54	23.11	23.40	
		25	0	22.55	22.82	22.73	22.5±1.0
		25	12	22.56	22.68	22.75	
		25	24	22.43	22.75	22.63	
		50	0	22.55	22.77	22.59	22.5±1.0

LTE FDD Band 41(ANT 4)				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	23.68	24.64	24.54	24.0±1.0
		1	37	24.22	24.50	24.26	
		1	74	24.56	24.62	24.40	
		36	0	23.33	23.51	23.51	23.0±1.0
		36	16	23.29	23.56	23.53	
		36	35	23.34	23.55	23.52	
		75	0	23.36	23.61	23.19	23.0±1.0
	16QAM	1	0	23.38	23.43	23.38	23.0±1.0
		1	37	23.14	23.58	23.36	
		1	74	23.30	23.35	23.41	
		36	0	22.25	22.57	22.48	22.0±1.0
		36	16	22.45	22.63	22.53	
		36	35	22.36	22.57	22.43	
		75	0	22.51	22.61	22.30	22.0±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	24.30	24.78	24.58	24.5±1.0
		1	49	24.40	24.40	24.39	
		1	99	24.42	24.46	24.26	
		50	0	23.41	23.57	23.55	23.0±1.0
		50	24	23.43	23.55	23.46	
		50	49	23.42	23.68	23.23	
		100	0	23.50	23.65	23.53	23.0±1.0
	16QAM	1	0	23.32	23.87	23.88	23.5±1.0
		1	49	23.41	23.59	23.67	
		1	99	23.35	23.40	23.28	
		50	0	22.45	22.66	22.60	22.0±1.0
		50	24	22.33	22.63	22.53	
		50	49	22.41	22.61	22.49	
		100	0	22.47	22.65	22.55	22.0±1.0

8.5 5G NR Conducted Power

1. 5G NR 5 Conducted Power Test Verdict:

N5(ANT1)		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	24.38	24.36	24.37	24.0±1.0
		1	53	24.27	24.23	24.16	
		1	104	24.35	24.22	24.28	
		50	0	23.52	23.66	23.56	23.0±1.0
		50	25	23.64	23.56	23.49	
		50	56	23.49	23.54	23.53	
		100	0	23.57	23.48	23.47	23.0±1.0
	DFT-s-OFDM QPSK	1	1	24.72	24.67	24.64	24.0±1.0
		1	53	24.66	24.54	24.67	
		1	104	24.65	24.39	24.59	
		50	0	23.80	23.83	23.80	23.5±1.0
		50	25	23.75	23.85	23.70	
		50	56	23.71	23.95	23.88	
		100	0	23.66	23.74	23.72	23.0±1.0
	DFT-s-OFDM 16QAM	1	1	23.65	23.51	23.54	23.0±1.0
	DFT-s-OFDM 64QAM	1	1	21.89	21.87	21.96	21.5±1.0
	DFT-s-OFDM 256QAM	1	1	19.50	19.35	19.79	19.5±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	24.58	24.67	24.71	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	166300	167300	168300	Tune up
				831.5MHz	836.5MHz	841.5MHz	
10MHz	DFT-s-OFDM QPSK	1	1	24.72	24.66	24.51	24.0±1.0
Bandwidth	Modulation	RB size	RB offset	166300	167300	168300	Tune up
				831.5MHz	836.5MHz	841.5MHz	
5MHz	DFT-s-OFDM QPSK	1	1	24.71	24.62	24.54	24.0±1.0

2. 5G NR 41 Conducted Power Test Verdict:

N41(ANT2)			Conducted Power(dBm)				
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	509202	518598	528000	Tune up
				2546.01MHz	2592.99MHz	2640.00MHz	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	24.97	24.72	24.93	24.5±1.0
		1	137	24.90	24.89	25.06	
		1	271	25.16	25.17	24.82	
		135	0	24.05	24.16	23.90	23.5±1.0
		135	67	23.76	23.97	23.69	
		135	138	23.91	23.99	24.24	
		270	0	23.99	23.81	23.95	23.5±1.0
	DFT-s-OFDM QPSK	1	1	25.41	25.39	25.33	25.0±1.0
		1	137	25.15	25.41	25.48	
		1	271	25.21	25.35	25.09	
		135	0	24.11	24.24	24.14	24.0±1.0
		135	67	24.26	24.16	24.11	
		135	138	24.10	24.21	24.27	
		270	0	24.10	24.13	24.11	23.5±1.0
	DFT-s-OFDM 16QAM	1	1	23.82	24.08	23.72	23.5±1.0
	DFT-s-OFDM 64QAM	1	1	22.08	22.37	22.53	22.0±1.0
	DFT-s-OFDM 256QAM	1	1	20.55	20.40	20.29	20.0±1.0
Bandwidth	Modulation	RB size	RB offset	508200	518598	528996	Tune up
				2541.00MHz	2592.99MHz	2644.98MHz	
90MHz	DFT-s-OFDM QPSK	1	1	24.94	25.45	25.14	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	507204	518598	529998	Tune up
				2536.02MHz	2592.99MHz	2649.99MHz	
80MHz	DFT-s-OFDM QPSK	1	1	25.23	25.09	25.40	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	505200	518598	531996	Tune up
				2526.00MHz	2592.99MHz	2659.98MHz	
60MHz	DFT-s-OFDM QPSK	1	1	25.30	25.25	25.30	25.0±1.0

Bandwidth	Modulation	RB size	RB offset	504204	518598	532998	Tune up
				2521.02MHz	2592.99MHz	2664.99MHz	
50MHz	DFT-s-OFDM QPSK	1	1	24.97	25.21	24.98	24.5±1.0
Bandwidth	Modulation	RB size	RB offset	503202	518598	534000	Tune up
				2516.01MHz	2592.99MHz	2670.00MHz	
40MHz	DFT-s-OFDM QPSK	1	1	25.17	25.25	25.26	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	502200	518598	534996	Tune up
				2511.00MHz	2592.99MHz	2674.98MHz	
30MHz	DFT-s-OFDM QPSK	1	1	25.34	25.32	25.28	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	501204	518598	535998	Tune up
				2506.02MHz	2592.99MHz	2679.99MHz	
20MHz	DFT-s-OFDM QPSK	1	1	25.42	25.32	25.23	25.0±1.0



N41(ANT5)		Conducted Power(dBm)					
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	509202	518598	528000	Tune up
				2546.01MHz	2592.99MHz	2640.00MHz	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	24.92	24.71	24.85	24.5±1.0
		1	137	25.01	24.79	24.98	
		1	271	25.09	25.08	24.87	
		135	0	24.10	24.19	24.00	23.5±1.0
		135	67	23.86	24.07	23.83	
		135	138	23.91	24.04	24.20	
		270	0	23.92	23.79	23.95	23.5±1.0
	DFT-s-OFDM QPSK	1	1	25.42	25.39	25.32	25.0±1.0
		1	137	25.28	25.48	25.44	
		1	271	25.22	25.29	25.16	
		135	0	24.23	24.16	24.22	24.0±1.0
		135	67	24.27	24.25	24.31	
		135	138	24.11	24.28	24.29	
		270	0	24.14	24.12	24.21	23.5±1.0
	DFT-s-OFDM 16QAM	1	1	23.82	24.06	23.83	23.5±1.0
	DFT-s-OFDM 64QAM	1	1	22.13	22.38	22.44	22.0±1.0
	DFT-s-OFDM 256QAM	1	1	20.49	20.50	20.26	20.0±1.0
Bandwidth	Modulation	RB size	RB offset	508200	518598	528996	Tune up
				2541.00MHz	2592.99MHz	2644.98MHz	
90MHz	DFT-s-OFDM QPSK	1	1	25.01	25.43	25.24	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	507204	518598	529998	Tune up
				2536.02MHz	2592.99MHz	2649.99MHz	
80MHz	DFT-s-OFDM QPSK	1	1	25.34	25.18	25.47	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	505200	518598	531996	Tune up
				2526.00MHz	2592.99MHz	2659.98MHz	
60MHz	DFT-s-OFDM QPSK	1	1	25.36	25.21	25.39	25.0±1.0

Bandwidth	Modulation	RB size	RB offset	504204	518598	532998	Tune up
				2521.02MHz	2592.99MHz	2664.99MHz	
50MHz	DFT-s-OFDM QPSK	1	1	25.05	25.29	25.09	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	503202	518598	534000	Tune up
				2516.01MHz	2592.99MHz	2670.00MHz	
40MHz	DFT-s-OFDM QPSK	1	1	25.28	25.27	25.30	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	502200	518598	534996	Tune up
				2511.00MHz	2592.99MHz	2674.98MHz	
30MHz	DFT-s-OFDM QPSK	1	1	25.31	25.31	25.26	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	501204	518598	535998	Tune up
				2506.02MHz	2592.99MHz	2679.99MHz	
20MHz	DFT-s-OFDM QPSK	1	1	25.32	25.34	25.26	25.0±1.0



5G NR 41(ANT 5) Receiver ON and Hotspot mode

N41(ANT5)Receiver ON , Sensor on and Hotspot on mode		Conducted Power(dBm)					
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	509202	518598	528000	Tune up
				2546.01MHz	2592.99MHz	2640.00MHz	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.84	22.73	22.79	22.5±1.0
		1	137	22.93	22.74	22.97	
		1	271	22.91	22.98	22.74	
		135	0	21.96	22.23	21.99	21.5±1.0
		135	67	21.80	22.10	21.65	
		135	138	21.86	22.01	22.17	
		270	0	21.88	21.78	21.89	21.5±1.0
	DFT-s-OFDM QPSK	1	1	23.33	23.27	23.22	23.0±1.0
		1	137	23.11	23.45	23.32	
		1	271	23.15	23.31	23.16	
		135	0	22.20	22.09	22.03	22.0±1.0
		135	67	22.22	22.23	22.25	
		135	138	22.05	22.29	22.24	
		270	0	22.11	21.99	22.21	21.5±1.0
	DFT-s-OFDM 16QAM	1	1	21.80	21.99	21.68	21.5±1.0
	DFT-s-OFDM 64QAM	1	1	20.00	20.43	20.43	20.0±1.0
	DFT-s-OFDM 256QAM	1	1	18.36	18.51	18.24	18.0±1.0
Bandwidth	Modulation	RB size	RB offset	508200	518598	528996	Tune up
				2541.00MHz	2592.99MHz	2644.98MHz	
90MHz	DFT-s-OFDM QPSK	1	1	22.96	23.47	23.16	23.0±1.0
Bandwidth	Modulation	RB size	RB offset	507204	518598	529998	Tune up
				2536.02MHz	2592.99MHz	2649.99MHz	
80MHz	DFT-s-OFDM QPSK	1	1	23.15	23.17	23.31	23.0±1.0
Bandwidth	Modulation	RB size	RB offset	505200	518598	531996	Tune up
				2526.00MHz	2592.99MHz	2659.98MHz	
60MHz	DFT-s-OFDM QPSK	1	1	23.16	23.11	23.20	22.5±1.0

Bandwidth	Modulation	RB size	RB offset	504204	518598	532998	Tune up
				2521.02MHz	2592.99MHz	2664.99MHz	
50MHz	DFT-s-OFDM QPSK	1	1	22.98	23.30	23.06	23.0±1.0
Bandwidth	Modulation	RB size	RB offset	503202	518598	534000	Tune up
				2516.01MHz	2592.99MHz	2670.00MHz	
40MHz	DFT-s-OFDM QPSK	1	1	23.10	23.26	23.20	23.0±1.0
Bandwidth	Modulation	RB size	RB offset	502200	518598	534996	Tune up
				2511.00MHz	2592.99MHz	2674.98MHz	
30MHz	DFT-s-OFDM QPSK	1	1	23.12	23.28	23.23	23.0±1.0
Bandwidth	Modulation	RB size	RB offset	501204	518598	535998	Tune up
				2506.02MHz	2592.99MHz	2679.99MHz	
20MHz	DFT-s-OFDM QPSK	1	1	23.29	23.31	23.22	23.0±1.0

3. 5G NR 77 Conducted Power Test Verdict:

N77(ANT5)		Conducted Power(dBm)					
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	/	633334	/	Tune up
				/	3500.01MHz	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	25.13	/	25.0±1.0
		1	137	/	25.36	/	
		1	271	/	25.22	/	
		135	0	/	23.83	/	23.5±1.0
		135	67	/	23.99	/	
		135	138	/	23.75	/	
		270	0	/	23.93	/	23.5±1.0
	DFT-s-OFDM QPSK	1	1	/	25.58	/	25.0±1.0
		1	137	/	25.40	/	
		1	271	/	25.54	/	
		135	0	/	24.66	/	24.0±1.0
		135	67	/	24.70	/	
		135	138	/	24.71	/	
		270	0	/	24.73	/	24.0±1.0
	DFT-s-OFDM 16QAM	1	1	/	24.73	/	24.0±1.0
	DFT-s-OFDM 64QAM	1	1	/	23.70	/	23.0±1.0
	DFT-s-OFDM 256QAM	1	1	/	21.82	/	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	633000	633334	633666	Tune up
				3495.00MHz	3500.01MHz	3504.99MHz	
90MHz	DFT-s-OFDM QPSK	1	1	25.26	25.46	25.42	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	632668	633334	634000	Tune up
				3490.02MHz	3500.01MHz	3510.00MHz	
80MHz	DFT-s-OFDM QPSK	1	1	25.46	25.23	25.39	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	632000	633334	634666	Tune up
				3480.00MHz	3500.01MHz	3519.99MHz	
60MHz	DFT-s-OFDM QPSK	1	1	25.36	25.40	25.15	25.0±1.0

Bandwidth	Modulation	RB size	RB offset	631668	633334	635000	Tune up
				3475.02MHz	3500.01MHz	3525.00MHz	
50MHz	DFT-s-OFDM QPSK	1	1	25.29	25.24	25.49	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	631334	633334	635332	Tune up
				3470.01MHz	3500.01MHz	3529.98MHz	
40MHz	DFT-s-OFDM QPSK	1	1	25.27	25.39	25.29	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	631000	633334	635666	Tune up
				3465.00MHz	3500.01MHz	3534.99MHz	
30MHz	DFT-s-OFDM QPSK	1	1	25.51	25.47	25.38	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	630668	633334	636000	Tune up
				3460.02MHz	3500.01MHz	3540.00MHz	
20MHz	DFT-s-OFDM QPSK	1	1	25.32	25.41	25.39	25.0±1.0



N77(ANT11)		Conducted Power(dBm)					
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	/	633334	/	Tune up
				/	3500.01MHz	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	25.25	/	25.0±1.0
		1	137	/	25.17	/	
		1	271	/	25.33	/	
		135	0	/	24.23	/	23.5±1.0
		135	67	/	24.19	/	
		135	138	/	24.18	/	
		270	0	/	24.10	/	23.5±1.0
	DFT-s-OFDM QPSK	1	1	/	25.45	/	25.0±1.0
		1	137	/	25.28	/	
		1	271	/	25.45	/	
		135	0	/	24.33	/	24.0±1.0
		135	67	/	24.39	/	
		135	138	/	24.22	/	
		270	0	/	24.10	/	23.5±1.0
	DFT-s-OFDM 16QAM	1	1	/	24.21	/	23.5±1.0
	DFT-s-OFDM 64QAM	1	1	/	22.90	/	22.5±1.0
	DFT-s-OFDM 256QAM	1	1	/	21.59	/	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	633000	633334	633666	Tune up
				3495.00MHz	3500.01MHz	3504.99MHz	
90MHz	DFT-s-OFDM QPSK	1	1	25.44	25.43	25.33	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	632668	633334	634000	Tune up
				3490.02MHz	3500.01MHz	3510.00MHz	
80MHz	DFT-s-OFDM QPSK	1	1	25.42	25.38	25.29	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	632000	633334	634666	Tune up
				3480.00MHz	3500.01MHz	3519.99MHz	
60MHz	DFT-s-OFDM QPSK	1	1	25.29	25.56	25.37	25.0±1.0

Bandwidth	Modulation	RB size	RB offset	631668	633334	635000	Tune up
				3475.02MHz	3500.01MHz	3525.00MHz	
50MHz	DFT-s-OFDM QPSK	1	1	25.38	25.35	25.55	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	631334	633334	635332	Tune up
				3470.01MHz	3500.01MHz	3529.98MHz	
40MHz	DFT-s-OFDM QPSK	1	1	25.26	25.35	25.05	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	631000	633334	635666	Tune up
				3465.00MHz	3500.01MHz	3534.99MHz	
30MHz	DFT-s-OFDM QPSK	1	1	25.41	25.29	25.43	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	630668	633334	636000	Tune up
				3460.02MHz	3500.01MHz	3540.00MHz	
20MHz	DFT-s-OFDM QPSK	1	1	25.53	25.20	25.31	25.0±1.0

4. 5G NR 78 Conducted Power Test Verdict:

N78(ANT5)		Conducted Power(dBm)					
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	/	633334	/	Tune up
				/	3500.01MHz	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	25.27	/	25.0±1.0
		1	137	/	25.36	/	
		1	271	/	25.35	/	
		135	0	/	24.33	/	24.0±1.0
		135	67	/	24.41	/	
		135	138	/	24.04	/	
		270	0	/	23.99	/	23.5±1.0
	DFT-s-OFDM QPSK	1	1	/	25.48	/	25.0±1.0
		1	137	/	25.29	/	
		1	271	/	25.50	/	
		135	0	/	24.47	/	24.0±1.0
		135	67	/	24.46	/	
		135	138	/	24.47	/	
	270	0	/	24.23	/	23.5±1.0	
	DFT-s-OFDM 16QAM	1	1	/	24.33	/	24.0±1.0
	DFT-s-OFDM 64QAM	1	1	/	23.25	/	22.5±1.0
	DFT-s-OFDM 256QAM	1	1	/	21.95	/	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	633000	633334	633666	Tune up
				3495.00MHz	3500.01MHz	3504.99MHz	
90MHz	DFT-s-OFDM QPSK	1	1	25.35	25.48	25.54	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	632668	633334	634000	Tune up
				3490.02MHz	3500.01MHz	3510.00MHz	
80MHz	DFT-s-OFDM QPSK	1	1	25.50	25.21	25.36	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	632000	633334	634666	Tune up
				3480.00MHz	3500.01MHz	3519.99MHz	
60MHz	DFT-s-OFDM QPSK	1	1	25.40	25.58	25.55	25.0±1.0

Bandwidth	Modulation	RB size	RB offset	631668	633334	635000	Tune up
				3475.02MHz	3500.01MHz	3525.00MHz	
50MHz	DFT-s-OFDM QPSK	1	1	25.51	25.40	25.59	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	631334	633334	635332	Tune up
				3470.01MHz	3500.01MHz	3529.98MHz	
40MHz	DFT-s-OFDM QPSK	1	1	25.49	25.52	25.35	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	631000	633334	635666	Tune up
				3465.00MHz	3500.01MHz	3534.99MHz	
30MHz	DFT-s-OFDM QPSK	1	1	25.41	25.50	25.41	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	630668	633334	636000	Tune up
				3460.02MHz	3500.01MHz	3540.00MHz	
20MHz	DFT-s-OFDM QPSK	1	1	25.54	25.48	25.50	25.0±1.0



N78(ANT11)		Conducted Power(dBm)					
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	/	633334	/	Tune up
				/	3500.01MHz	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	25.28	/	25.0±1.0
		1	137	/	25.20	/	
		1	271	/	25.14	/	
		135	0	/	23.94	/	23.5±1.0
		135	67	/	23.76	/	
		135	138	/	24.24	/	
		270	0	/	24.07	/	23.5±1.0
	DFT-s-OFDM QPSK	1	1	/	25.42	/	25.0±1.0
		1	137	/	25.27	/	
		1	271	/	25.49	/	
		135	0	/	24.29	/	24.0±1.0
		135	67	/	24.61	/	
		135	138	/	24.42	/	
		270	0	/	24.17	/	23.5±1.0
	DFT-s-OFDM 16QAM	1	1	/	24.52	/	24.0±1.0
	DFT-s-OFDM 64QAM	1	1	/	22.99	/	22.5±1.0
	DFT-s-OFDM 256QAM	1	1	/	22.09	/	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	633000	633334	633666	Tune up
				3495.00MHz	3500.01MHz	3504.99MHz	
90MHz	DFT-s-OFDM QPSK	1	1	25.52	25.46	25.24	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	632668	633334	634000	Tune up
				3490.02MHz	3500.01MHz	3510.00MHz	
80MHz	DFT-s-OFDM QPSK	1	1	25.32	25.59	25.35	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	632000	633334	634666	Tune up
				3480.00MHz	3500.01MHz	3519.99MHz	
60MHz	DFT-s-OFDM QPSK	1	1	25.10	25.32	25.42	25.0±1.0

Bandwidth	Modulation	RB size	RB offset	631668	633334	635000	Tune up
				3475.02MHz	3500.01MHz	3525.00MHz	
50MHz	DFT-s-OFDM QPSK	1	1	25.42	25.10	25.27	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	631334	633334	635332	Tune up
				3470.01MHz	3500.01MHz	3529.98MHz	
40MHz	DFT-s-OFDM QPSK	1	1	25.43	25.07	25.28	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	631000	633334	635666	Tune up
				3465.00MHz	3500.01MHz	3534.99MHz	
30MHz	DFT-s-OFDM QPSK	1	1	25.29	25.23	25.23	25.0±1.0
Bandwidth	Modulation	RB size	RB offset	630668	633334	636000	Tune up
				3460.02MHz	3500.01MHz	3540.00MHz	
20MHz	DFT-s-OFDM QPSK	1	1	25.52	25.39	25.30	25.0±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 SCS30KHz 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 adjust for the duty cycle)		Tune up (Adjusted for Duty cycle)	
N5 ANT 1	/	/	24.5	100%
N41 ANT 2	25.5	25%	19.5	100%
N41 ANT 5	25.5	25%	19.5	100%
N41 ANT 5 Receiver ON, Sensor on and Hotspot mode	23.5	25%	17.5	100%
N77 ANT 5	25.5	25%	19.5	100%
N77 ANT 11	25.5	25%	19.5	100%
N78 ANT 5	25.5	25%	19.5	100%
N78 ANT 11	25.5	25%	19.5	100%

8.6 WIFI Conducted Power

Wi-Fi 2.4G Output power ANT 7

2.4G WI-FI Channel/Freq.(MHz)	Average Power (dBm)			
	802.11b	802.11g	802.11n(HT20)	802.11ax(HT20)
1/2412.0	16.29	15.49	11.77	10.57
6/2437.0	16.34	15.72	11.46	10.56
11/2462.0	16.03	15.31	11.51	11.18

2.4G WI-FI Channel/Freq.(MHz)	Average Power (dBm)	
	802.11n(HT40)	802.11ax(HT40)
3/2422.0	11.03	10.10
6/2437.0	11.57	10.51
9/2452.0	11.20	10.27

Wi-Fi 2.4G Output power ANT 9

2.4G WI-FI Channel/Freq.(MHz)	Average Power (dBm)			
	802.11b	802.11g	802.11n(HT20)	802.11ax(HT20)
1/2412.0	15.67	14.46	10.93	11.42
6/2437.0	15.49	14.67	10.83	11.59
11/2462.0	15.71	14.83	10.73	10.74

2.4G WI-FI Channel/Freq.(MHz)	Average Power (dBm)	
	802.11n(HT40)	802.11ax(HT40)
3/2422.0	10.13	9.78
6/2437.0	10.26	9.77
9/2452.0	10.12	9.75

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

2.4G WI-FI Channel/Freq.(MHz)	Average Power (dBm)	
	802.11n(HT20)	802.11ax(HT20)
1/2412.0	14.38	14.03
6/2437.0	14.17	14.12
11/2462.0	14.15	13.98

2.4G WI-FI Channel/Freq.(MHz)	Average Power (dBm)	
	802.11n(HT40)	802.11ax(HT40)
3/2422.0	13.61	12.95
6/2437.0	13.97	13.17
9/2452.0	13.70	13.03

**5G WIFI Standalone SAR Output Power****Wi-Fi U-NII-1 Standalone Output power ANT 8**

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
36/5180.0	14.02	10.47	10.52	10.58
44/5220.0	13.97	10.50	10.52	10.66
48/5240.0	14.02	10.55	10.50	10.51

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
38/5190.0	10.85	11.20	10.96
46/5230.0	10.84	10.91	10.64

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
42/5210.0	10.73	10.80

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

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
36/5180.0	14.25	11.04	11.01	11.17
44/5220.0	13.63	10.69	10.54	10.57
48/5240.0	13.71	10.63	10.44	10.42

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
38/5190.0	10.69	11.38	11.42
46/5230.0	10.52	11.11	10.78

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
42/5210.0	10.79	11.05

Wi-Fi U-NII-1 MIMO Standalone Output power ANT 8+9

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n20	802.11 ac20	802.11 ax20
36/5180.0	13.77	13.78	13.90
44/5220.0	13.61	13.54	13.63
48/5240.0	13.60	13.48	13.48

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
38/5190.0	13.78	14.30	14.21
46/5230.0	13.69	14.02	13.72

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
42/5210.0	13.77	13.94

Wi-Fi U-NII-2A Standalone Output power ANT 8

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
52/5260.0	13.93	10.48	10.38	10.51
60/5300.0	13.56	10.20	10.09	10.17
64/5320.0	13.43	9.87	9.78	9.85

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
54/5270.0	10.85	10.73	10.68
62/5310.0	10.42	10.31	10.30

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
58/5290.0	10.36	10.47

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac160	802.11 ax160
50/5250.0	10.49	10.60

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

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
52/5260.0	14.06	9.85	9.65	10.58
60/5300.0	13.68	9.30	9.34	9.70
64/5320.0	13.97	9.42	9.52	9.43

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
54/5270.0	10.46	10.55	9.57
62/5310.0	8.66	8.57	10.42

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
58/5290.0	10.36	8.44

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac160	802.11 ax160
50/5250.0	10.78	10.58

Wi-Fi U-NII-2A MIMO Standalone Output power ANT 8+9

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n20	802.11 ac20	802.11 ax20
52/5260.0	13.19	13.04	13.13
60/5300.0	12.78	12.74	12.83
64/5320.0	12.66	12.66	12.72

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
54/5270.0	13.67	13.65	13.56
62/5310.0	12.64	12.54	12.48

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
58/5290.0	13.37	13.46

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac160	802.11 ax160
50/5250.0	13.65	13.60

Wi-Fi U-NII-2C Standalone Output power ANT 8

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
100/5500.0	14.06	10.23	10.24	10.38
120/5600.0	14.31	10.72	10.70	10.93
140/5700.0	14.55	10.91	10.90	11.12

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
102/5510.0	10.29	10.25	10.26
118/5590.0	11.09	11.03	11.03
134/5670.0	11.49	11.37	11.36

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
106/5530.0	10.48	10.62
122/5610.0	11.08	11.19

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac160	802.11 ax160
114/5570.0	10.89	10.97

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

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
100/5500.0	13.61	9.97	10.03	10.10
120/5600.0	14.05	10.33	10.31	10.51
140/5700.0	14.15	11.09	11.14	10.74

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
102/5510.0	10.21	10.27	9.84
118/5590.0	10.76	10.81	10.61
134/5670.0	11.33	11.32	11.11

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
106/5530.0	10.47	10.57
122/5610.0	10.76	10.89

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac160	802.11 ax160
114/5570.0	10.86	10.87

Wi-Fi U-NII-2C Standalone Output power ANT 8+9

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n20	802.11 ac20	802.11 ax20
100/5500.0	13.11	13.15	13.25
120/5600.0	13.54	13.52	13.74
140/5700.0	14.01	14.03	13.94

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
102/5510.0	13.26	13.27	13.07
118/5590.0	13.94	13.93	13.84
134/5670.0	14.42	14.36	14.25

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
106/5530.0	13.49	13.61
122/5610.0	13.93	14.05

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac160	802.11 ax160
114/5570.0	13.89	13.93

Wi-Fi U-NII-3 Standalone Output power ANT 8

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
149/5745.0	14.51	10.79	10.82	10.87
157/5785.0	14.44	10.78	10.78	10.83
165/5825.0	14.16	10.70	10.72	10.74

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
151/5755.0	11.31	11.38	11.24
159/5795.0	11.32	11.29	11.17

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
155/5775.0	11.21	11.35

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

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
149/5745.0	14.46	10.94	11.13	11.13
157/5785.0	14.16	10.77	10.84	10.81
165/5825.0	14.23	10.99	10.72	10.71

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
151/5755.0	11.29	11.35	11.53
159/5795.0	9.83	10.24	10.20

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
155/5775.0	9.77	10.17

**Wi-Fi U-NII-3 Standalone MIMO Output power ANT 8+9**

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n20	802.11 ac20	802.11 ax20
149/5745.0	13.88	13.99	14.01
157/5785.0	13.79	13.82	13.83
165/5825.0	13.86	13.73	13.74

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
151/5755.0	14.31	14.38	14.40
159/5795.0	13.65	13.81	13.72

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
155/5775.0	13.56	13.81

**5G WIFI of Simultaneous Transmissions SAR Output Power****Wi-Fi U-NII-1 of Simultaneous Transmissions SAR Output Power ANT 8**

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
36/5180.0	10.67	6.63	6.53	6.76
44/5220.0	10.65	6.50	6.45	6.60
48/5240.0	10.60	6.46	6.49	6.54

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
38/5190.0	6.41	6.87	6.94
46/5230.0	6.84	6.75	6.79

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
42/5210.0	6.67	6.72

Wi-Fi U-NII-1 of Simultaneous Transmissions SAR Output Power ANT 9

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
36/5180.0	10.71	6.59	6.57	6.70
44/5220.0	10.14	6.36	6.33	6.54
48/5240.0	10.04	6.15	6.14	6.27

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
38/5190.0	6.50	6.49	6.33
46/5230.0	6.26	6.26	6.06

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
42/5210.0	6.10	6.15

**Wi-Fi U-NII-1 MIMO of Simultaneous Transmissions SAR Output Power ANT 8+9**

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n20	802.11 ac20	802.11 ax20
36/5180.0	9.62	9.56	9.74
44/5220.0	9.44	9.40	9.58
48/5240.0	9.32	9.33	9.42

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
38/5190.0	9.47	9.69	9.66
46/5230.0	9.57	9.52	9.45

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
42/5210.0	9.40	9.45

Wi-Fi U-NII-2A of Simultaneous Transmissions SAR Output Power ANT 8

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
52/5260.0	10.47	6.74	6.75	6.56
60/5300.0	10.21	6.35	6.36	6.43
64/5320.0	10.51	6.23	6.27	6.31

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
54/5270.0	6.65	6.65	6.53
62/5310.0	6.10	6.11	5.99

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
58/5290.0	6.21	6.29

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac160	802.11 ax160
50/5250.0	6.44	6.43

Wi-Fi U-NII-2A of Simultaneous Transmissions SAR Output Power ANT 9

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
52/5260.0	10.86	6.66	6.65	6.52
60/5300.0	10.51	6.23	6.26	6.33
64/5320.0	10.59	6.05	6.07	6.15

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
54/5270.0	6.93	6.66	6.48
62/5310.0	6.24	6.13	6.51

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
58/5290.0	6.17	6.30

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac160	802.11 ax160
50/5250.0	6.42	6.36

Wi-Fi U-NII-2A MIMO of Simultaneous Transmissions SAR Output Power ANT 8+9

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n20	802.11 ac20	802.11 ax20
52/5260.0	9.71	9.71	9.55
60/5300.0	9.30	9.32	9.39
64/5320.0	9.15	9.18	9.24

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
54/5270.0	9.80	9.67	9.52
62/5310.0	9.18	9.13	9.27

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
58/5290.0	9.20	9.31

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac160	802.11 ax160
50/5250.0	9.44	9.41

**Wi-Fi U-NII-2C of Simultaneous Transmissions SAR Output Power ANT 8**

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
100/5500.0	10.76	6.20	6.22	6.20
120/5600.0	10.84	6.71	6.71	6.73
140/5700.0	10.91	6.77	6.79	6.82

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
102/5510.0	6.27	6.23	6.06
118/5590.0	6.84	6.82	6.65
134/5670.0	6.76	6.74	6.56

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
106/5530.0	6.36	6.42
122/5610.0	6.73	6.76

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac160	802.11 ax160
114/5570.0	6.65	6.64

Wi-Fi U-NII-2C of Simultaneous Transmissions SAR Output Power ANT 9

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
100/5500.0	10.81	6.10	6.07	6.14
120/5600.0	10.23	6.47	6.48	6.49
140/5700.0	10.91	6.46	6.52	6.51

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
102/5510.0	6.21	6.24	6.05
118/5590.0	6.60	6.11	6.43
134/5670.0	6.80	6.81	6.67

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
106/5530.0	6.33	6.38
122/5610.0	6.63	6.67

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac160	802.11 ax160
114/5570.0	6.76	6.72

**Wi-Fi U-NII-2C of Simultaneous Transmissions SAR Output Power ANT 8+9**

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n20	802.11 ac20	802.11 ax20
100/5500.0	9.16	9.16	9.18
120/5600.0	9.60	9.61	9.62
140/5700.0	9.63	9.67	9.68

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
102/5510.0	9.25	9.25	9.07
118/5590.0	9.73	9.49	9.55
134/5670.0	9.79	9.79	9.63

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
106/5530.0	9.36	9.41
122/5610.0	9.69	9.73

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac160	802.11 ax160
114/5570.0	9.72	9.69

**Wi-Fi U-NII-3 of Simultaneous Transmissions SAR Output Power ANT 8**

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
149/5745.0	10.79	6.62	6.59	6.58
157/5785.0	10.76	6.63	6.57	6.55
165/5825.0	10.68	6.36	6.32	6.36

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
151/5755.0	6.67	6.63	6.48
159/5795.0	6.57	6.55	6.38

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
155/5775.0	6.47	6.43

Wi-Fi U-NII-3 of Simultaneous Transmissions SAR Output Power ANT 9

Channel/Freq.(MHz)	Average Power (dBm)			
	802.11 a	802.11 n20	802.11 ac20	802.11 ax20
149/5745.0	10.40	6.92	6.54	6.52
157/5785.0	10.60	6.69	6.18	6.20
165/5825.0	10.48	6.55	6.65	6.42

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
151/5755.0	6.24	6.30	6.29
159/5795.0	6.14	6.14	6.23

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
155/5775.0	6.31	6.31

Wi-Fi U-NII-3 MIMO of Simultaneous Transmissions SAR Output Power ANT 8+9

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n20	802.11 ac20	802.11 ax20
149/5745.0	9.78	9.58	9.56
157/5785.0	9.67	9.39	9.39
165/5825.0	9.47	9.50	9.40

Channel/Freq.(MHz)	Average Power (dBm)		
	802.11 n40	802.11 ac40	802.11 ax40
151/5755.0	9.47	9.48	9.40
159/5795.0	9.37	9.36	9.32

Channel/Freq.(MHz)	Average Power (dBm)	
	802.11 ac80	802.11 ax80
155/5775.0	9.40	9.38

8.7 Bluetooth Output Power

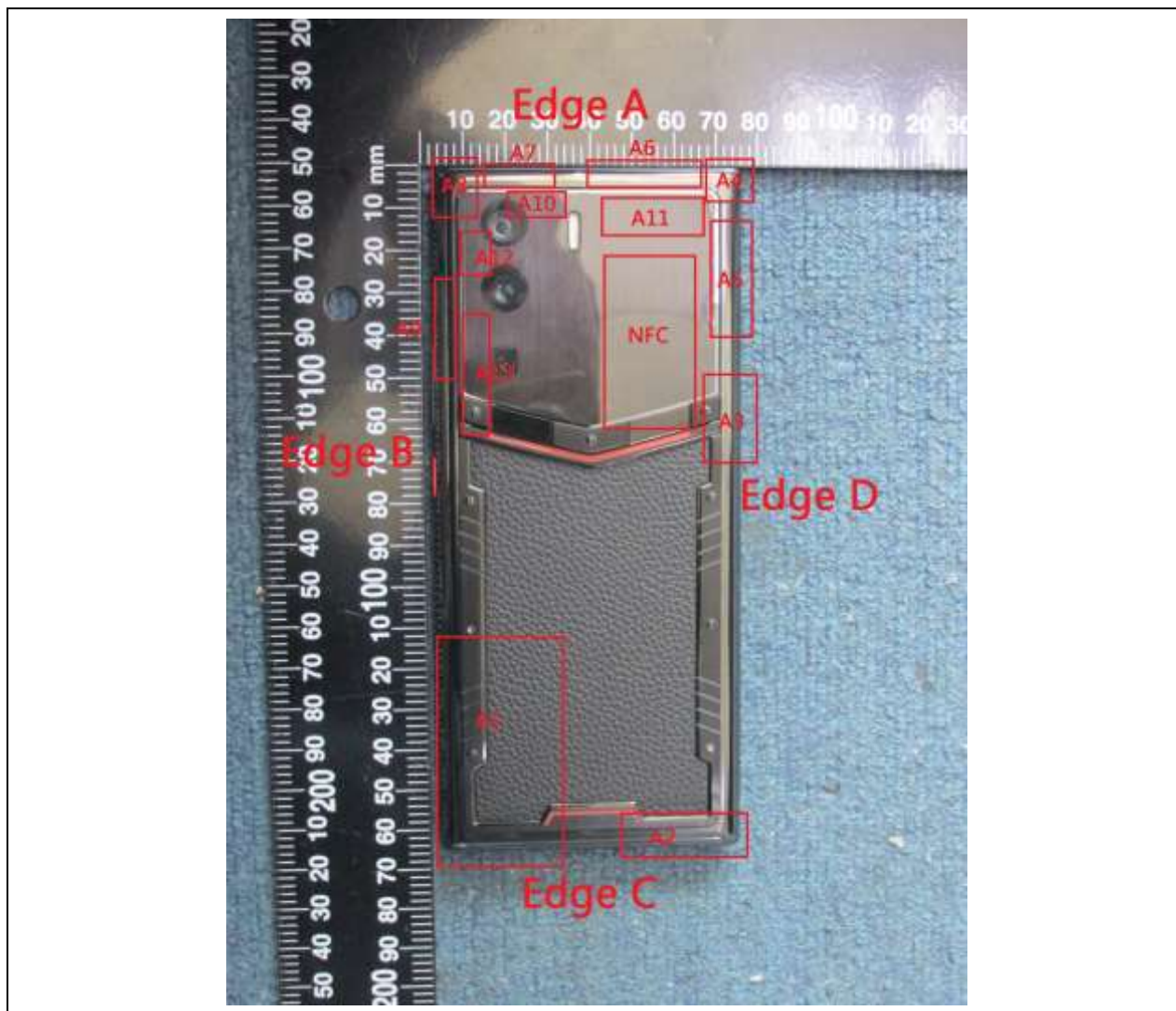
Channel	Frequency (MHz)	BT3.0 Average Power(dBm)		
		GFSK	$\pi/4$ -DQPSK	8-DPSK
CH 0	2402	7.42	5.96	6.46
CH 39	2441	8.34	6.86	7.27
CH 78	2480	7.45	5.96	6.33

Channel	Frequency (MHz)	BLE Average Power(dBm)	
		1M(GFSK)	2M(GFSK)
CH 0	2402	7.47	7.32
CH 20	2442	8.23	8.20
CH 39	2480	7.37	7.56

Note:

1. Per KDB248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion
2. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at lowest data rate
3. Per KDB248227 D01 v02r02, 802.11g /11n-HT20/11n-HT40 is not required. . When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leq 1.2\text{W/Kg}$. Thus the SAR can be excluded.

9. Antenna Location:



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

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

Antenna	Front	Back	Edge A	Edge B	Edge C	Edge D
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 5	<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 11	<25	<25	<25	>25	>25	<25

Note:

- Overall (Length x Width x High): 162mm x 74 mm x 12 mm
- Overall Diagonal: 177 mm / Display Diagonal: 167 mm

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

Antenna	Front	Back	Edge A	Edge B	Edge C	Edge D
ANT 1 Hotspot	Yes	Yes	No	Yes	Yes	No
ANT 2 Hotspot	Yes	Yes	No	No	Yes	Yes
ANT 3 Hotspot	Yes	Yes	No	No	No	Yes
ANT 4 Hotspot	Yes	Yes	Yes	No	No	Yes
ANT 5 Hotspot	Yes	Yes	Yes	No	No	Yes
ANT 7 Hotspot	Yes	Yes	Yes	Yes	No	No
ANT 8 Hotspot	Yes	Yes	Yes	Yes	No	No
ANT 9 Hotspot	Yes	Yes	No	Yes	No	No
ANT 11 Hotspot	Yes	Yes	Yes	No	No	Yes

Note:

- According to KDB 941225 D06 v02r01, when antenna-to-edge>2.5cm, SAR is not required..
- 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 ANT1	128/824.2	32.64	32.0 ± 1.0	33.00	1.086
	190/836.6	32.51	32.0 ± 1.0	33.00	1.119
	251/848.8	32.76	32.5 ± 1.0	33.50	1.186
GPRS850 (GPRS 4Tx) ANT1	128/824.2	27.41	27.0 ± 1.0	28.00	1.146
	190/836.6	27.50	27.0 ± 1.0	28.00	1.122
	251/848.8	27.49	27.0 ± 1.0	28.00	1.125
GSM1900 ANT2	512/1850.2	30.04	29.5 ± 1.0	30.50	1.112
	661/1880.0	29.79	29.5 ± 1.0	30.50	1.178
	810/1909.8	29.90	29.5 ± 1.0	30.50	1.148
GPRS1900 (GPRS 4Tx) ANT2	512/1850.2	24.29	24.0 ± 1.0	25.00	1.178
	661/1880.0	24.46	24.0 ± 1.0	25.00	1.132
	810/1909.8	24.14	23.5 ± 1.0	24.50	1.086
GSM1900 ANT4	512/1850.2	28.10	27.5 ± 1.0	28.50	1.096
	661/1880.0	28.14	27.5 ± 1.0	28.50	1.086
	810/1909.8	28.13	27.5 ± 1.0	28.50	1.089
GPRS1900 (GPRS 4Tx) ANT4	512/1850.2	23.05	22.5 ± 1.0	23.50	1.109
	661/1880.0	23.04	22.5 ± 1.0	23.50	1.112
	810/1909.8	22.91	22.5 ± 1.0	23.50	1.146
CDMA BC 0 ANT1	1013/824.7	24.54	24.0 ± 1.0	25.00	1.112
	384/836.52	24.58	24.0 ± 1.0	25.00	1.102
	777/848.31	24.64	24.0 ± 1.0	25.00	1.086
WCDMA850 ANT1	4132/826.4	23.75	23.0 ± 1.0	24.00	1.059
	4183/836.6	23.68	23.0 ± 1.0	24.00	1.076
	4233/846.6	23.69	23.0 ± 1.0	24.00	1.074
WCDMA1700 ANT2	1312/1712.4	24.10	23.5 ± 1.0	24.50	1.096
	1413/1732.6	24.14	23.5 ± 1.0	24.50	1.086
	1513/1752.6	24.08	23.5 ± 1.0	24.50	1.102
WCDMA1700 ANT4	1312/1712.4	23.47	23.0 ± 1.0	24.00	1.130
	1413/1732.6	23.58	23.0 ± 1.0	24.00	1.102
	1513/1752.6	23.49	23.0 ± 1.0	24.00	1.125
WCDMA1700 ANT4 Head Receiver ON	1312/1712.4	19.29	19.0 ± 1.0	20.00	1.178
	1413/1732.6	19.46	19.0 ± 1.0	20.00	1.132
	1513/1752.6	19.35	19.0 ± 1.0	20.00	1.161



WCDMA1900 ANT2	9262/1852.4	24.26	24.0 ± 1.0	25.00	1.186
	9400/1880.0	24.34	24.0 ± 1.0	25.00	1.164
	9538/1907.6	24.25	23.5 ± 1.0	24.50	1.059
WCDMA1900 ANT4	9262/1852.4	23.49	23.0 ± 1.0	24.00	1.125
	9400/1880.0	23.56	23.0 ± 1.0	24.00	1.107
	9538/1907.6	23.48	23.0 ± 1.0	24.00	1.127
WCDMA1900 ANT4 Head Receiver ON	9262/1852.4	18.46	18.0 ± 1.0	19.00	1.132
	9400/1880.0	18.51	18.0 ± 1.0	19.00	1.119
	9538/1907.6	18.29	18.0 ± 1.0	19.00	1.178
LTE B4 20MHz 1RB#0 ANT2	20050/1720.0	23.91	23.5 ± 1.0	24.50	1.146
	20175/1732.5	24.15	23.5 ± 1.0	24.50	1.084
	20300/1745.0	24.28	24.0 ± 1.0	25.00	1.180
LTE B4 20MHz 50%RB#0 ANT2	20050/1720.0	23.07	22.5 ± 1.0	23.50	1.104
	20175/1732.5	23.04	22.5 ± 1.0	23.50	1.112
	20300/1745.0	22.99	22.5 ± 1.0	23.50	1.125
LTE B4 20MHz 1RB#0 ANT3	20050/1720.0	23.36	23.0 ± 1.0	24.00	1.159
	20175/1732.5	23.39	23.0 ± 1.0	24.00	1.151
	20300/1745.0	23.67	23.0 ± 1.0	24.00	1.079
LTE B4 20MHz 50%RB#0 ANT3	20050/1720.0	22.38	22.0 ± 1.0	23.00	1.153
	20175/1732.5	22.48	22.0 ± 1.0	23.00	1.127
	20300/1745.0	22.57	22.0 ± 1.0	23.00	1.104
LTE B4 20MHz 1RB#0 ANT3 Head Receiver ON	20050/1720.0	22.04	21.5 ± 1.0	22.50	1.112
	20175/1732.5	22.09	21.5 ± 1.0	22.50	1.099
	20300/1745.0	22.22	21.5 ± 1.0	22.50	1.067
LTE B4 20MHz 50%RB#0 ANT3 Head Receiver ON	20050/1720.0	21.15	20.5 ± 1.0	21.50	1.084
	20175/1732.5	21.02	20.5 ± 1.0	21.50	1.117
	20300/1745.0	21.11	20.5 ± 1.0	21.50	1.094
LTE B4 20MHz 100%RB#0 ANT3 Head Receiver ON	20050/1720.0	21.09	20.5 ± 1.0	21.50	1.099
	20175/1732.5	21.07	20.5 ± 1.0	21.50	1.104
	20300/1745.0	21.02	20.5 ± 1.0	21.50	1.117
LTE B5 10MHz 1RB#0 ANT1	20450/829.0	24.75	24.5 ± 1.0	25.50	1.189
	20525/836.5	24.68	24.5 ± 1.0	25.50	1.208
	20600/844.0	24.62	24.5 ± 1.0	25.50	1.225
LTE B5 10MHz 50%RB#0 ANT1	20450/829.0	23.69	23.5 ± 1.0	24.50	1.205
	20525/836.5	23.81	23.5 ± 1.0	24.50	1.172
	20600/844.0	23.67	23.5 ± 1.0	24.50	1.211
LTE B5 10MHz 100%RB#0 ANT1	20450/829.0	23.72	23.0 ± 1.0	24.00	1.067
	20525/836.5	23.71	23.0 ± 1.0	24.00	1.069
	20600/844.0	23.59	23.0 ± 1.0	24.00	1.099



LTE B7 20MHz 1RB#0 ANT2	20850/2510.0	24.16	23.5 ± 1.0	24.50	1.081
	21100/2535.0	24.13	23.5 ± 1.0	24.50	1.089
	21350/2560.0	24.22	23.5 ± 1.0	24.50	1.067
LTE B7 20MHz 50RB#0 ANT2	20850/2510.0	23.05	22.5 ± 1.0	23.50	1.109
	21100/2535.0	23.02	22.5 ± 1.0	23.50	1.117
	21350/2560.0	22.97	22.5 ± 1.0	23.50	1.130
LTE B7 20MHz 1RB#0 ANT3	20850/2510.0	23.64	23.0 ± 1.0	24.00	1.086
	21100/2535.0	23.60	23.0 ± 1.0	24.00	1.096
	21350/2560.0	23.51	23.0 ± 1.0	24.00	1.119
LTE B7 20MHz 50RB#0 ANT3	20850/2510.0	22.40	22.0 ± 1.0	23.00	1.148
	21100/2535.0	22.40	22.0 ± 1.0	23.00	1.148
	21350/2560.0	22.46	22.0 ± 1.0	23.00	1.132
LTE B7 20MHz 100RB#0 ANT3	20850/2510.0	22.40	22.0 ± 1.0	23.00	1.148
	21100/2535.0	22.39	22.0 ± 1.0	23.00	1.151
	21350/2560.0	22.36	22.0 ± 1.0	23.00	1.159
LTE B12 10MHz 1RB#0 ANT1	23060/704.0	24.66	24.5 ± 1.0	25.50	1.213
	23095/707.5	24.81	24.5 ± 1.0	25.50	1.172
	23130/711.0	24.70	24.5 ± 1.0	25.50	1.202
LTE B12 10MHz 50%RB#0 ANT1	23060/704.0	23.68	23.5 ± 1.0	24.50	1.208
	23095/707.5	23.70	23.5 ± 1.0	24.50	1.202
	23130/711.0	23.74	23.5 ± 1.0	24.50	1.191
LTE B17 10MHz 1RB#0 ANT1	23780/709.0	24.85	24.5 ± 1.0	25.50	1.161
	23790/710.0	24.95	24.5 ± 1.0	25.50	1.135
	23800/711.0	24.71	24.5 ± 1.0	25.50	1.199
LTE B17 10MHz 50%RB#0 ANT1	23780/709.0	23.74	23.5 ± 1.0	24.50	1.191
	23790/710.0	23.81	23.5 ± 1.0	24.50	1.172
	23800/711.0	23.77	23.5 ± 1.0	24.50	1.183
LTE B41 20MHz 1RB#0 ANT2	39750/2506.0	25.13	24.5 ± 1.0	25.50	1.089
	40620/2593.0	25.03	24.5 ± 1.0	25.50	1.114
	41490/2680.0	24.98	24.5 ± 1.0	25.50	1.127
LTE B41 20MHz 50%RB#0 ANT2	39750/2506.0	23.98	23.5 ± 1.0	24.50	1.127
	40620/2593.0	23.96	23.5 ± 1.0	24.50	1.132
	41490/2680.0	23.84	23.5 ± 1.0	24.50	1.164
LTE B41 20MHz 1RB#0 ANT4	39750/2506.0	24.30	24.0 ± 1.0	25.00	1.175
	40620/2593.0	24.78	24.0 ± 1.0	25.00	1.052
	41490/2680.0	24.58	24.0 ± 1.0	25.00	1.102
LTE B41 20MHz 50%RB#0 ANT4	39750/2506.0	23.41	23.0 ± 1.0	24.00	1.146
	40620/2593.0	23.57	23.0 ± 1.0	24.00	1.104
	41490/2680.0	23.55	23.0 ± 1.0	24.00	1.109



LTE B41 20MHz 100%RB#0 ANT4	39750/2506.0	23.50	23.0 ± 1.0	24.00	1.122
	40620/2593.0	23.65	23.0 ± 1.0	24.00	1.084
	41490/2680.0	23.53	23.0 ± 1.0	24.00	1.114
NR5 15KHz SCS 20MHz 1RB#1 ANT 1	166800/834.0	24.50	24.0 ± 1.0	25.00	1.122
	167300/836.5	24.50	24.0 ± 1.0	25.00	1.122
	167800/839.0	24.50	24.0 ± 1.0	25.00	1.122
NR5 15KHz SCS 20MHz 50%RB#0 ANT 1	166800/834.0	24.00	23.5 ± 1.0	24.50	1.122
	167300/836.5	24.00	23.5 ± 1.0	24.50	1.122
	167800/839.0	24.00	23.5 ± 1.0	24.50	1.122
NR41 30KHz SCS 100MHz 1RB#1 ANT 2	509202/2546.01	25.50	25.0 ± 1.0	26.00	1.122
	518598/2592.99	25.50	25.0 ± 1.0	26.00	1.122
	528000/2640.0	25.50	25.0 ± 1.0	26.00	1.122
NR41 30KHz SCS 100MHz 50%RB#0 ANT 2	509202/2546.01	25.00	23.5 ± 1.0	25.00	1.000
	518598/2592.99	25.00	23.5 ± 1.0	25.00	1.000
	528000/2640.0	25.00	23.5 ± 1.0	25.00	1.000
NR41 30KHz SCS 100MHz 1RB#1 Power Reduction ANT 5	509202/2546.01	23.50	23.0 ± 1.0	24.00	1.122
	518598/2592.99	23.50	23.0 ± 1.0	24.00	1.122
	528000/2640.0	23.50	23.0 ± 1.0	24.00	1.122
NR41 30KHz SCS 100MHz 50%RB#0 Power Reduction ANT 5	509202/2546.01	23.00	22.0 ± 1.0	23.00	1.000
	518598/2592.99	23.00	22.0 ± 1.0	23.00	1.000
	528000/2640.0	23.00	22.0 ± 1.0	23.00	1.000
NR41 30KHz SCS 100MHz100%RB#0 Power Reduction ANT 5	509202/2546.01	22.50	21.5 ± 1.0	22.50	1.000
	518598/2592.99	22.50	21.5 ± 1.0	22.50	1.000
	528000/2640.0	22.50	21.5 ± 1.0	22.50	1.000
NR77 30KHz SCS 100MHz 1RB#1 ANT 5	633334/3500.01	25.50	25.0 ± 1.0	26.00	1.122
NR77 30KHz SCS 100MHz 50%RB#0 ANT 5	633334/3500.01	25.00	23.5 ± 1.0	25.00	1.000
NR77 30KHz SCS 100MHz 1RB#1 ANT 11	633334/3500.01	25.50	25.0 ± 1.0	26.00	1.122
NR77 30KHz SCS 100MHz 50%RB#0 ANT 11	633334/3500.01	25.00	23.5 ± 1.0	25.00	1.000
NR78 30KHz SCS 100MHz 1RB#1 ANT 5	633334/3500.01	25.50	25.0 ± 1.0	26.00	1.122



NR78 30KHz SCS 100MHz 50%RB#0 ANT 5	633334/3500.01	25.00	23.5 ± 1.0	25.00	1.000
NR78 30KHz SCS 100MHz 1RB#1 ANT 11	633334/3500.01	25.50	25.0 ± 1.0	26.00	1.122
NR78 30KHz SCS 100MHz 50%RB#0 ANT 11	633334/3500.01	25.00	23.5 ± 1.0	25.00	1.000
WIFI 2.4G 802.11b ANT 7	1/2412.0	16.29	16.0 ± 1.0	17.00	1.178
	6/2437.0	16.34	16.0 ± 1.0	17.00	1.164
	11/2462.0	16.03	15.5 ± 1.0	16.50	1.114
WIFI 2.4G 802.11b ANT 9	1/2412.0	15.67	15.0 ± 1.0	16.00	1.079
	6/2437.0	15.49	15.0 ± 1.0	16.00	1.125
	11/2462.0	15.71	15.0 ± 1.0	16.00	1.069
WIFI 2.4G MIMO 802.11n20 ANT 7+9	1/2412.0	14.38	14.0 ± 1.0	15.00	1.153
	6/2437.0	14.17	13.5 ± 1.0	14.50	1.079
	11/2462.0	14.15	13.5 ± 1.0	14.50	1.084

5G WIFI Standalone SAR Scaling Factor calculation

Wi-Fi U-NII-1 802.11a ANT 8	36/5180.0	14.02	13.5 ± 1.0	14.50	1.117
	44/5220.0	13.97	13.5 ± 1.0	14.50	1.130
	48/5240.0	14.02	13.5 ± 1.0	14.50	1.117
Wi-Fi U-NII-1 802.11a ANT 9	36/5180.0	14.25	13.5 ± 1.0	14.50	1.059
	44/5220.0	13.63	13.0 ± 1.0	14.00	1.089
	48/5240.0	13.71	13.0 ± 1.0	14.00	1.069
Wi-Fi U-NII-1 MIMO 802.11n20 ANT 8+9	36/5180.0	13.77	13.5 ± 1.0	14.50	1.183
	44/5220.0	13.61	13.0 ± 1.0	14.00	1.094
	48/5240.0	13.60	13.0 ± 1.0	14.00	1.096
Wi-Fi U-NII-2a 802.11a ANT 8	52/5260.0	13.93	13.5 ± 1.0	14.50	1.140
	60/5300.0	13.56	13.0 ± 1.0	14.00	1.107
	64/5320.0	13.43	13.0 ± 1.0	14.00	1.140
Wi-Fi U-NII-2a 802.11a ANT 9	52/5260.0	14.06	13.5 ± 1.0	14.50	1.107
	60/5300.0	13.68	13.0 ± 1.0	14.00	1.076
	64/5320.0	13.97	13.5 ± 1.0	14.50	1.130
Wi-Fi U-NII-2a MIMO 802.11n20 ANT 8+9	52/5260.0	13.19	12.5 ± 1.0	13.50	1.074
	60/5300.0	12.78	12.5 ± 1.0	13.50	1.180
	64/5320.0	12.66	12.0 ± 1.0	13.00	1.081
Wi-Fi U-NII-2c 802.11a ANT 8	100/5500.0	14.06	13.5 ± 1.0	14.50	1.107
	120/5600.0	14.31	14.0 ± 1.0	15.00	1.172
	140/5700.0	14.55	14.0 ± 1.0	15.00	1.109
Wi-Fi U-NII-2c 802.11a ANT 9	100/5500.0	13.61	13.0 ± 1.0	14.00	1.094
	120/5600.0	14.05	13.5 ± 1.0	14.50	1.109
	140/5700.0	14.15	13.5 ± 1.0	14.50	1.084
Wi-Fi U-NII-2c MIMO 802.11n20 ANT 8+9	100/5500.0	13.11	12.5 ± 1.0	13.50	1.094
	120/5600.0	13.54	13.0 ± 1.0	14.00	1.112
	140/5700.0	14.01	13.5 ± 1.0	14.50	1.119
Wi-Fi U-NII-3 802.11a ANT 8	149/5745.0	14.51	14.0 ± 1.0	15.00	1.119
	157/5785.0	14.44	14.0 ± 1.0	15.00	1.138
	165/5825.0	14.16	13.5 ± 1.0	14.50	1.081
Wi-Fi U-NII-3 802.11a ANT 9	149/5745.0	14.46	14.0 ± 1.0	15.00	1.132
	157/5785.0	14.16	13.5 ± 1.0	14.50	1.081
	165/5825.0	14.23	13.5 ± 1.0	14.50	1.064
Wi-Fi U-NII-3 MIMO 802.11n20 ANT 8+9	149/5745.0	13.88	13.5 ± 1.0	14.50	1.153
	157/5785.0	13.79	13.5 ± 1.0	14.50	1.178
	165/5825.0	13.86	13.5 ± 1.0	14.50	1.159

5G WIFI Simultaneous Transmissions SAR Scaling Factor calculation

Wi-Fi U-NII-1 802.11a ANT 8	36/5180.0	10.67	10.0 ± 1.0	11.00	1.079
	44/5220.0	10.65	10.0 ± 1.0	11.00	1.084
	48/5240.0	10.60	10.0 ± 1.0	11.00	1.096
Wi-Fi U-NII-1 802.11a ANT 9	36/5180.0	10.71	10.0 ± 1.0	11.00	1.069
	44/5220.0	10.14	9.5 ± 1.0	10.50	1.086
	48/5240.0	10.04	9.5 ± 1.0	10.50	1.112
Wi-Fi U-NII-1 MIMO 802.11n20 ANT 8+9	36/5180.0	9.62	9.0 ± 1.0	10.00	1.091
	44/5220.0	9.44	9.0 ± 1.0	10.00	1.138
	48/5240.0	9.32	9.0 ± 1.0	10.00	1.169
Wi-Fi U-NII-2a 802.11a ANT 8	52/5260.0	10.47	10.0 ± 1.0	11.00	1.130
	60/5300.0	10.21	9.5 ± 1.0	10.50	1.069
	64/5320.0	10.51	10.0 ± 1.0	11.00	1.119
Wi-Fi U-NII-2a 802.11a ANT 9	52/5260.0	10.86	10.5 ± 1.0	11.50	1.159
	60/5300.0	10.51	10.0 ± 1.0	11.00	1.119
	64/5320.0	10.59	10.0 ± 1.0	11.00	1.099
Wi-Fi U-NII-2a MIMO 802.11n20 ANT 8+9	52/5260.0	9.71	9.0 ± 1.0	10.00	1.069
	60/5300.0	9.30	9.0 ± 1.0	10.00	1.175
	64/5320.0	9.15	8.5 ± 1.0	9.50	1.084
Wi-Fi U-NII-2c 802.11a ANT 8	100/5500.0	10.76	10.5 ± 1.0	11.50	1.186
	120/5600.0	10.84	10.5 ± 1.0	11.50	1.164
	140/5700.0	10.91	10.5 ± 1.0	11.50	1.146
Wi-Fi U-NII-2c 802.11a ANT 9	100/5500.0	10.81	10.5 ± 1.0	11.50	1.172
	120/5600.0	10.23	9.5 ± 1.0	10.50	1.064
	140/5700.0	10.91	10.5 ± 1.0	11.50	1.146
Wi-Fi U-NII-2c MIMO 802.11n20 ANT 8+9	100/5500.0	9.16	8.5 ± 1.0	9.50	1.081
	120/5600.0	9.60	9.0 ± 1.0	10.00	1.096
	140/5700.0	9.63	9.0 ± 1.0	10.00	1.089
Wi-Fi U-NII-3 802.11a ANT 8	149/5745.0	10.79	10.5 ± 1.0	11.50	1.178
	157/5785.0	10.76	10.5 ± 1.0	11.50	1.186
	165/5825.0	10.68	10.0 ± 1.0	11.00	1.076
Wi-Fi U-NII-3 802.11a ANT 9	149/5745.0	10.40	10.0 ± 1.0	11.00	1.148
	157/5785.0	10.60	10.0 ± 1.0	11.00	1.096
	165/5825.0	10.48	10.0 ± 1.0	11.00	1.127
Wi-Fi U-NII-3 MIMO 802.11n20 ANT 8+9	149/5745.0	9.78	9.5 ± 1.0	10.50	1.180
	157/5785.0	9.67	9.0 ± 1.0	10.00	1.079
	165/5825.0	9.47	9.0 ± 1.0	10.00	1.130



BT ANT 9	0/2402.0	7.42	7.0 ± 1.0	8.00	1.143
	39/2441.0	8.34	8.0 ± 1.0	9.00	1.164
	78/2480.0	7.45	7.0 ± 1.0	8.00	1.135

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

11. Test Results

Results overview of GSM850

ANT 1

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	190/836.6	Voice	0.235	-2.48	1.119	0.263	1.6	/
Right Tilt 15 °	190/836.6	Voice	0.112	-4.02	1.119	0.125	1.6	/
Left Cheek	190/836.6	Voice	0.241	-2.73	1.119	0.270	1.6	/
Left Tilt 15 °	190/836.6	Voice	0.115	1.27	1.119	0.129	1.6	/
Left Cheek	128/824.2	Voice	0.279	1.63	1.086	0.303	1.6	Yes
Left Cheek	251/848.8	Voice	0.203	-2.31	1.186	0.241	1.6	/
Body-worn(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	190/836.6	GPRS 4Tx	0.511	2.35	1.122	0.573	1.6	/
Back Upward	190/836.6	GPRS 4Tx	0.424	-0.61	1.122	0.476	1.6	/
Front Upward	128/824.2	GPRS 4Tx	0.533	-0.79	1.146	0.611	1.6	Yes
Front Upward	251/848.8	GPRS 4Tx	0.478	-0.35	1.125	0.538	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.
Front Upward	190/836.6	GPRS 4Tx	0.511	2.35	1.122	0.573	1.6	/
Back Upward	190/836.6	GPRS 4Tx	0.424	-0.61	1.122	0.476	1.6	/
Edge B	190/836.6	GPRS 4Tx	0.157	-3.58	1.122	0.176	1.6	/
Edge C	190/836.6	GPRS 4Tx	0.292	-2.95	1.122	0.328	1.6	/
Front Upward	128/824.2	GPRS 4Tx	0.533	-0.79	1.146	0.611	1.6	Yes
Front Upward	251/848.8	GPRS 4Tx	0.478	-0.35	1.125	0.538	1.6	/

Results overview of GSM1900

ANT 2

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	661/1880.0	Voice	0.095	1.15	1.178	0.112	1.6	/
Right Tilt 15 °	661/1880.0	Voice	0.032	-3.40	1.178	0.038	1.6	/
Left Cheek	661/1880.0	Voice	0.123	-2.93	1.178	0.145	1.6	Yes
Left Tilt 15 °	661/1880.0	Voice	0.044	-1.16	1.178	0.052	1.6	/
Left Cheek	512/1850.2	Voice	0.110	-0.95	1.112	0.122	1.6	/
Left Cheek	810/1909.8	Voice	0.098	0.26	1.148	0.113	1.6	/
Body-worn(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	661/1880.0	GPRS 4Tx	0.341	-0.16	1.132	0.386	1.6	/
Back Upward	661/1880.0	GPRS 4Tx	0.313	2.27	1.132	0.354	1.6	/
Front Upward	512/1850.2	GPRS 4Tx	0.362	-3.95	1.178	0.426	1.6	Yes
Front Upward	810/1909.8	GPRS 4Tx	0.357	-1.15	1.086	0.388	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.
Front Upward	661/1880.0	GPRS 4Tx	0.341	-0.16	1.132	0.386	1.6	/
Back Upward	661/1880.0	GPRS 4Tx	0.313	2.27	1.132	0.354	1.6	/
Edge C	661/1880.0	GPRS 4Tx	0.412	0.85	1.132	0.466	1.6	/
Edge D	661/1880.0	GPRS 4Tx	0.081	-2.20	1.132	0.092	1.6	/
Edge C	512/1850.2	GPRS 4Tx	0.464	0.45	1.178	0.547	1.6	Yes
Edge C	810/1909.8	GPRS 4Tx	0.428	-1.62	1.086	0.465	1.6	/

**Results overview of GSM1900**

ANT 4

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	661/1880.0	Voice	0.816	-1.78	1.086	0.886	1.6	/
Right Cheek	512/1850.2	Voice	0.865	0.92	1.096	0.948	1.6	/
Right Cheek	810/1909.8	Voice	0.939	-3.60	1.089	1.023	1.6	/
Right Tilt 15 °	661/1880.0	Voice	0.532	-3.05	1.086	0.578	1.6	/
Left Cheek	661/1880.0	Voice	0.993	-0.47	1.086	1.078	1.6	/
Left Tilt 15 °	661/1880.0	Voice	0.639	-2.28	1.086	0.694	1.6	/
Left Cheek	512/1850.2	Voice	1.054	-1.60	1.096	1.155	1.6	/
Left Cheek	810/1909.8	Voice	1.075	2.85	1.089	1.171	1.6	/
Left Cheek Repeat	810/1909.8	Voice	1.078	-1.12	1.089	1.174	1.6	Yes
Body-worn(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	661/1880.0	GPRS 4Tx	0.254	-4.68	1.112	0.282	1.6	/
Back Upward	661/1880.0	GPRS 4Tx	0.204	-2.05	1.112	0.227	1.6	/
Front Upward	512/1850.2	GPRS 4Tx	0.199	-4.30	1.109	0.221	1.6	/
Front Upward	810/1909.8	GPRS 4Tx	0.302	-1.38	1.146	0.346	1.6	Yes
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	661/1880.0	GPRS 4Tx	0.254	-4.68	1.112	0.282	1.6	/
Back Upward	661/1880.0	GPRS 4Tx	0.204	-2.05	1.112	0.227	1.6	/
Edge A	661/1880.0	GPRS 4Tx	0.560	-3.34	1.112	0.623	1.6	/
Edge D	661/1880.0	GPRS 4Tx	0.099	-1.38	1.112	0.110	1.6	/
Edge A	512/1850.2	GPRS 4Tx	0.505	-4.68	1.109	0.560	1.6	/
Edge A	810/1909.8	GPRS 4Tx	0.579	-2.05	1.146	0.664	1.6	Yes

**Results overview of CDMA BC 0**

ANT 1

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	384/836.52	RC3 (+F-SCH)	0.257	-1.35	1.102	0.283	1.6	/
Right Tilt 15 °	384/836.52	RC3 (+F-SCH)	0.112	-0.69	1.102	0.123	1.6	/
Left Cheek	384/836.52	RC3 (+F-SCH)	0.206	3.04	1.102	0.227	1.6	/
Left Tilt 15 °	384/836.52	RC3 (+F-SCH)	0.097	0.88	1.102	0.107	1.6	/
Right Cheek	1013/824.7	RC3 (+F-SCH)	0.286	-0.76	1.112	0.318	1.6	Yes
Right Cheek	777/848.31	RC3 (+F-SCH)	0.221	-3.39	1.086	0.240	1.6	/
Body-worn(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 (+F-SCH)	0.617	-2.44	1.102	0.680	1.6	/
Back Upward	384/836.52	RC3 (+F-SCH)	0.576	-4.38	1.102	0.635	1.6	/
Front Upward	1013/824.7	RC3 (+F-SCH)	0.654	1.61	1.112	0.727	1.6	Yes
Front Upward	777/848.31	RC3 (+F-SCH)	0.537	2.47	1.086	0.583	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.
Front Upward	384/836.52	RC3 (+F-SCH)	0.617	-2.44	1.102	0.680	1.6	/
Back Upward	384/836.52	RC3 (+F-SCH)	0.576	-4.38	1.102	0.635	1.6	/
Edge B	384/836.52	RC3 (+F-SCH)	0.266	1.47	1.102	0.293	1.6	/
Edge C	384/836.52	RC3 (+F-SCH)	0.424	-3.09	1.102	0.467	1.6	/
Front Upward	1013/824.7	RC3 (+F-SCH)	0.654	1.61	1.112	0.727	1.6	Yes
Front Upward	777/848.31	RC3 (+F-SCH)	0.537	2.47	1.086	0.583	1.6	/

**Results overview of WCDMA850**

ANT 1

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	4183/836.6	RMC	0.313	-2.12	1.076	0.337	1.6	/
Right Tilt 15 °	4183/836.6	RMC	0.137	-0.51	1.076	0.147	1.6	/
Left Cheek	4183/836.6	RMC	0.345	-1.21	1.076	0.371	1.6	/
Left Tilt 15 °	4183/836.6	RMC	0.148	-0.83	1.076	0.159	1.6	/
Left Cheek	4132/826.4	RMC	0.398	-3.50	1.059	0.421	1.6	Yes
Left Cheek	4233/846.6	RMC	0.309	1.52	1.074	0.332	1.6	/
Body-worn(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	4183/836.6	RMC	0.703	-0.82	1.076	0.756	1.6	/
Back Upward	4183/836.6	RMC	0.567	-1.26	1.076	0.610	1.6	/
Front Upward	4132/826.4	RMC	0.832	0.28	1.059	0.881	1.6	Yes
Front Upward Repeat	4132/826.4	RMC	0.828	-1.52	1.059	0.877	1.6	/
Front Upward	4233/846.6	RMC	0.696	-0.80	1.074	0.748	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.
Front Upward	4183/836.6	RMC	0.703	-0.82	1.076	0.756	1.6	/
Back Upward	4183/836.6	RMC	0.567	-1.26	1.076	0.610	1.6	/
Edge B	4183/836.6	RMC	0.207	-2.23	1.076	0.223	1.6	/
Edge C	4183/836.6	RMC	0.450	-1.46	1.076	0.484	1.6	/
Front Upward	4132/826.4	RMC	0.832	0.28	1.059	0.881	1.6	Yes
Front Upward Repeat	4132/826.4	RMC	0.828	-1.52	1.059	0.877	1.6	/
Front Upward	4233/846.6	RMC	0.696	-0.80	1.074	0.748	1.6	/

**Results overview of WCDMA1700**

ANT 2

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	1413/1732.6	RMC	0.088	-3.52	1.086	0.096	1.6	/
Right Tilt 15 °	1413/1732.6	RMC	0.036	-1.87	1.086	0.039	1.6	/
Left Cheek	1413/1732.6	RMC	0.109	-0.50	1.086	0.118	1.6	/
Left Tilt 15 °	1413/1732.6	RMC	0.042	1.82	1.086	0.046	1.6	/
Left Cheek	1312/1712.4	RMC	0.101	-2.25	1.096	0.111	1.6	/
Left Cheek	1513/1752.6	RMC	0.125	1.50	1.102	0.138	1.6	Yes
Body-worn(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	1413/1732.6	RMC	0.318	-1.69	1.086	0.345	1.6	/
Back Upward	1413/1732.6	RMC	0.271	-0.89	1.086	0.294	1.6	/
Front Upward	1312/1712.4	RMC	0.294	-1.60	1.096	0.322	1.6	/
Front Upward	1513/1752.6	RMC	0.385	2.34	1.102	0.424	1.6	Yes
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	1413/1732.6	RMC	0.318	-1.69	1.086	0.345	1.6	/
Back Upward	1413/1732.6	RMC	0.271	-0.89	1.086	0.294	1.6	/
Edge C	1413/1732.6	RMC	0.529	1.38	1.096	0.580	1.6	/
Edge D	1413/1732.6	RMC	0.091	-3.52	1.102	0.100	1.6	/
Edge C	1312/1712.4	RMC	0.485	-1.53	1.096	0.532	1.6	/
Edge C	1513/1752.6	RMC	0.573	-3.35	1.102	0.631	1.6	Yes

**Results overview of WCDMA1700**

ANT 4

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek Receiver ON	1413/1732.6	RMC	0.909	-4.12	1.132	1.029	1.6	/
Right Tilt 15 ° Receiver ON	1413/1732.6	RMC	0.522	0.82	1.132	0.591	1.6	/
Left Cheek Receiver ON	1413/1732.6	RMC	0.661	-0.04	1.132	0.748	1.6	/
Left Tilt 15 ° Receiver ON	1413/1732.6	RMC	0.382	-4.56	1.132	0.432	1.6	/
Right Cheek Receiver ON	1312/1712.4	RMC	0.892	-0.84	1.178	1.051	1.6	/
Right Cheek Receiver ON	1513/1752.6	RMC	1.035	-2.52	1.161	1.202	1.6	Yes
Right Cheek Receiver ON Repeat	1513/1752.6	RMC	1.029	-2.14	1.161	1.195	1.6	/
Body-worn(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	1413/1732.6	RMC	0.527	3.51	1.102	0.581	1.6	/
Back Upward	1413/1732.6	RMC	0.223	-0.48	1.102	0.246	1.6	/
Front Upward	1312/1712.4	RMC	0.442	-2.51	1.130	0.499	1.6	/
Front Upward	1513/1752.6	RMC	0.540	-2.37	1.125	0.608	1.6	Yes
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	1413/1732.6	RMC	0.527	3.51	1.102	0.581	1.6	/
Back Upward	1413/1732.6	RMC	0.223	-0.48	1.102	0.246	1.6	/
Edge A	1413/1732.6	RMC	0.716	-2.62	1.102	0.789	1.6	/
Edge D	1413/1732.6	RMC	0.101	-0.21	1.102	0.111	1.6	/
Edge A	1312/1712.4	RMC	0.649	-1.28	1.130	0.733	1.6	/
Edge A	1513/1752.6	RMC	0.749	-2.92	1.125	0.843	1.6	Yes

**Results overview of WCDMA1900**

ANT 2

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	9400/1880.0	RMC	0.105	-2.20	1.164	0.122	1.6	/
Right Tilt 15 °	9400/1880.0	RMC	0.040	0.85	1.164	0.047	1.6	/
Left Cheek	9400/1880.0	RMC	0.169	-3.67	1.164	0.197	1.6	/
Left Tilt 15 °	9400/1880.0	RMC	0.055	-1.14	1.164	0.064	1.6	/
Left Cheek	9262/1852.4	RMC	0.130	-0.48	1.186	0.154	1.6	/
Left Cheek	9538/1907.6	RMC	0.182	-2.04	1.059	0.193	1.6	Yes
Body-worn(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	9400/1880.0	RMC	0.498	-1.82	1.164	0.580	1.6	/
Back Upward	9400/1880.0	RMC	0.412	-2.47	1.164	0.480	1.6	/
Front Upward	9262/1852.4	RMC	0.374	-2.41	1.186	0.444	1.6	/
Front Upward	9538/1907.6	RMC	0.549	-1.54	1.059	0.581	1.6	Yes
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	9400/1880.0	RMC	0.498	-1.82	1.164	0.580	1.6	/
Back Upward	9400/1880.0	RMC	0.412	-2.47	1.164	0.480	1.6	/
Edge C	9400/1880.0	RMC	0.801	1.62	1.164	0.932	1.6	/
Edge D	9400/1880.0	RMC	0.112	-1.48	1.164	0.130	1.6	/
Edge C	9262/1852.4	RMC	0.726	0.68	1.186	0.861	1.6	/
Edge C	9538/1907.6	RMC	0.898	-1.99	1.059	0.951	1.6	Yes
Edge C Repeat	9538/1907.6	RMC	0.892	-3.52	1.059	0.945	1.6	/

**Results overview of WCDMA1900**

ANT 4

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek Receiver ON	9400/1880.0	RMC	0.554	-3.85	1.119	0.620	1.6	/
Right Tilt 15 ° Receiver ON	9400/1880.0	RMC	0.424	-2.92	1.119	0.474	1.6	/
Left Cheek Receiver ON	9400/1880.0	RMC	0.694	-0.88	1.119	0.777	1.6	/
Left Tilt 15 ° Receiver ON	9400/1880.0	RMC	0.503	-1.36	1.119	0.563	1.6	/
Left Cheek Receiver ON	9262/1852.4	RMC	0.658	-3.67	1.132	0.745	1.6	/
Left Cheek Receiver ON	9538/1907.6	RMC	0.769	1.23	1.178	0.906	1.6	Yes
Body-worn(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	9400/1880.0	RMC	0.324	-2.61	1.107	0.359	1.6	/
Back Upward	9400/1880.0	RMC	0.283	3.21	1.107	0.313	1.6	/
Front Upward	9262/1852.4	RMC	0.341	-1.74	1.125	0.384	1.6	/
Front Upward	9538/1907.6	RMC	0.348	3.93	1.127	0.392	1.6	Yes
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	9400/1880.0	RMC	0.324	-2.61	1.107	0.359	1.6	/
Back Upward	9400/1880.0	RMC	0.283	3.21	1.107	0.313	1.6	/
Edge A	9400/1880.0	RMC	0.364	1.56	1.107	0.403	1.6	/
Edge D	9400/1880.0	RMC	0.085	-1.65	1.107	0.094	1.6	/
Edge A	9262/1852.4	RMC	0.381	-3.02	1.125	0.429	1.6	/
Edge A	9538/1907.6	RMC	0.397	-1.81	1.127	0.447	1.6	Yes

**Results overview of FDD LTE Band 4, QPSK, 20MHz Bandwidth**

ANT 2

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	20175/1732.5	Data	0.061	-1.47	1.084	0.066	1.6	/
Right Tilt 15 °	20175/1732.5	Data	0.024	2.37	1.084	0.026	1.6	/
Left Cheek	20175/1732.5	Data	0.099	-1.03	1.084	0.107	1.6	/
Left Tilt 15 °	20175/1732.5	Data	0.039	-3.69	1.084	0.042	1.6	/
Left Cheek	20050/1720.0	Data	0.106	-0.27	1.146	0.121	1.6	Yes
Left Cheek	20300/1745.0	Data	0.089	-3.00	1.180	0.105	1.6	/
50%RB#0								
Right Cheek	20175/1732.5	Data	0.056	-2.70	1.112	0.062	1.6	/
Right Tilt 15 °	20175/1732.5	Data	0.021	1.42	1.112	0.023	1.6	/
Left Cheek	20175/1732.5	Data	0.095	-2.82	1.112	0.106	1.6	/
Left Tilt 15 °	20175/1732.5	Data	0.034	1.44	1.112	0.038	1.6	/
Body-worn(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.
1RB#0								
Front Upward	20175/1732.5	Data	0.254	0.91	1.084	0.275	1.6	/
Back Upward	20175/1732.5	Data	0.242	0.14	1.084	0.262	1.6	/
Front Upward	20050/1720.0	Data	0.263	-1.32	1.146	0.301	1.6	Yes
Front Upward	20300/1745.0	Data	0.216	-0.71	1.180	0.255	1.6	/
50%RB#0								
Front Upward	20175/1732.5	Data	0.243	-2.85	1.112	0.270	1.6	/
Back Upward	20175/1732.5	Data	0.235	-1.91	1.112	0.261	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.
1RB#0								
Front Upward	20175/1732.5	Data	0.254	0.91	1.084	0.275	1.6	/
Back Upward	20175/1732.5	Data	0.242	0.14	1.084	0.262	1.6	/
Edge C	20175/1732.5	Data	0.305	-3.34	1.084	0.331	1.6	/
Edge D	20175/1732.5	Data	0.114	0.24	1.084	0.124	1.6	/
Edge C	20050/1720.0	Data	0.313	-2.51	1.146	0.359	1.6	Yes
Edge C	20300/1745.0	Data	0.266	-3.25	1.180	0.314	1.6	/
50%RB#0								
Front Upward	20175/1732.5	Data	0.243	-2.85	1.112	0.270	1.6	/
Back Upward	20175/1732.5	Data	0.235	-1.91	1.112	0.261	1.6	/
Edge C	20175/1732.5	Data	0.292	0.54	1.112	0.325	1.6	/
Edge D	20175/1732.5	Data	0.102	-1.81	1.112	0.113	1.6	/

**Results overview of FDD LTE Band 4, QPSK, 20MHz Bandwidth**

ANT 3

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek Receiver ON	20175/1732.5	Data	0.890	2.48	1.099	0.978	1.6	/
Right Cheek Repeat Receiver ON	20175/1732.5	Data	0.897	-0.75	1.099	0.986	1.6	Yes
Right Cheek Receiver ON	20050/1720.0	Data	0.841	-2.08	1.112	0.935	1.6	/
Right Cheek Receiver ON	20300/1745.0	Data	0.815	3.68	1.067	0.870	1.6	/
Right Tilt 15 ° Receiver ON	20175/1732.5	Data	0.496	-3.32	1.099	0.545	1.6	/
Left Cheek Receiver ON	20175/1732.5	Data	0.738	-0.11	1.099	0.811	1.6	/
Left Cheek Receiver ON	20050/1720.0	Data	0.692	0.52	1.112	0.770	1.6	/
Left Cheek Receiver ON	20300/1745.0	Data	0.660	-1.92	1.067	0.704	1.6	/
Left Tilt 15 ° Receiver ON	20175/1732.5	Data	0.423	-2.51	1.099	0.465	1.6	/
50%RB#0								
Right Cheek Receiver ON	20175/1732.5	Data	0.743	-1.61	1.117	0.830	1.6	/
Right Tilt 15 ° Receiver ON	20175/1732.5	Data	0.403	-0.92	1.117	0.450	1.6	/
Left Cheek Receiver ON	20175/1732.5	Data	0.642	-2.07	1.117	0.717	1.6	/
Left Tilt 15 ° Receiver ON	20175/1732.5	Data	0.377	-1.90	1.117	0.421	1.6	/
Right Cheek Receiver ON	20050/1720.0	Data	0.762	-1.42	1.084	0.826	1.6	/
Right Cheek Receiver ON	20300/1745.0	Data	0.731	-3.81	1.094	0.800	1.6	/
100%RB#0								
Right Cheek Receiver ON	20175/1732.5	Data	0.699	-1.74	1.104	0.772	1.6	/
Left Cheek Receiver ON	20175/1732.5	Data	0.608	-2.86	1.104	0.671	1.6	/
Body-worn(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.
1RB#0								



Front Upward	20175/1732.5	Data	0.098	-2.34	1.151	0.113	1.6	/
Back Upward	20175/1732.5	Data	0.127	-4.19	1.151	0.146	1.6	Yes
Back Upward	20050/1720.0	Data	0.115	1.41	1.159	0.133	1.6	/
Back Upward	20300/1745.0	Data	0.107	-3.12	1.079	0.115	1.6	/
50%RB#0								
Front Upward	20175/1732.5	Data	0.082	-1.89	1.127	0.092	1.6	/
Back Upward	20175/1732.5	Data	0.098	0.91	1.127	0.110	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.
1RB#0								
Front Upward	20175/1732.5	Data	0.098	-2.34	1.151	0.113	1.6	/
Back Upward	20175/1732.5	Data	0.127	-4.19	1.151	0.146	1.6	/
Edge D	20175/1732.5	Data	0.321	0.91	1.151	0.369	1.6	Yes
Edge D	20050/1720.0	Data	0.319	-2.16	1.159	0.370	1.6	/
Edge D	20300/1745.0	Data	0.305	-2.75	1.079	0.329	1.6	/
50%RB#0								
Front Upward	20175/1732.5	Data	0.082	-1.89	1.127	0.092	1.6	/
Back Upward	20175/1732.5	Data	0.098	0.91	1.127	0.110	1.6	/
Edge D	20175/1732.5	Data	0.267	-0.13	1.127	0.301	1.6	/

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

ANT 1

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	20525/836.5	Data	0.384	-0.23	1.208	0.464	1.6	/
Right Tilt 15 °	20525/836.5	Data	0.197	-3.85	1.208	0.238	1.6	/
Left Cheek	20525/836.5	Data	0.359	-3.08	1.208	0.434	1.6	/
Left Tilt 15 °	20525/836.5	Data	0.180	-1.25	1.208	0.217	1.6	/
Right Cheek	20450/829.0	Data	0.396	-1.83	1.189	0.471	1.6	Yes
Right Cheek	20600/844.0	Data	0.311	2.58	1.225	0.381	1.6	/
50%RB#0								
Right Cheek	20525/836.5	Data	0.299	-0.62	1.172	0.350	1.6	/
Right Tilt 15 °	20525/836.5	Data	0.148	-3.85	1.172	0.173	1.6	/
Left Cheek	20525/836.5	Data	0.266	0.35	1.172	0.312	1.6	/
Left Tilt 15 °	20525/836.5	Data	0.127	-2.82	1.172	0.149	1.6	/
Body-worn(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.
1RB#0								
Front Upward	20525/836.5	Data	0.763	-0.33	1.208	0.922	1.6	/
Back Upward	20525/836.5	Data	0.591	-1.49	1.208	0.714	1.6	/
Front Upward	20450/829.0	Data	0.780	-2.98	1.189	0.927	1.6	Yes
Front Upward	20600/844.0	Data	0.681	-0.17	1.225	0.834	1.6	/
50%RB#0								
Front Upward	20525/836.5	Data	0.592	0.84	1.172	0.694	1.6	/
Back Upward	20525/836.5	Data	0.410	-2.45	1.172	0.481	1.6	/
100%RB#0								
Front Upward	20525/836.5	Data	0.407	-0.95	1.069	0.435	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.
1RB#0								
Front Upward	20525/836.5	Data	0.763	-0.33	1.208	0.922	1.6	/
Back Upward	20525/836.5	Data	0.591	-1.49	1.208	0.714	1.6	/
Edge B	20525/836.5	Data	0.178	-3.31	1.208	0.215	1.6	/
Edge C	20525/836.5	Data	0.263	-2.53	1.208	0.318	1.6	/
Front Upward	20450/829.0	Data	0.780	-2.98	1.189	0.927	1.6	Yes
Front Upward	20600/844.0	Data	0.681	-0.17	1.225	0.834	1.6	/
50%RB#0								
Front Upward	20525/836.5	Data	0.592	0.84	1.208	0.715	1.6	/
Back Upward	20525/836.5	Data	0.410	-2.45	1.208	0.495	1.6	/
Edge B	20525/836.5	Data	0.128	2.57	1.208	0.155	1.6	/
Edge C	20525/836.5	Data	0.191	-3.70	1.208	0.231	1.6	/



100%RB#0								
Front Upward	20525/836.5	Data	0.407	-0.95	1.069	0.435	1.6	/

**Results overview of TDD LTE Band 7, QPSK, 20MHz Bandwidth****ANT 2**

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	21100/2535.0	Data	0.058	-3.03	1.089	0.063	1.6	/
Right Tilt 15 °	21100/2535.0	Data	0.021	-2.38	1.089	0.023	1.6	/
Left Cheek	21100/2535.0	Data	0.052	-1.95	1.089	0.057	1.6	/
Left Tilt 15 °	21100/2535.0	Data	0.017	-1.41	1.089	0.019	1.6	/
Right Cheek	20850/2510.0	Data	0.050	-1.55	1.081	0.054	1.6	/
Right Cheek	21350/2560.0	Data	0.061	-3.94	1.067	0.065	1.6	Yes
50%RB#0								
Right Cheek	21100/2535.0	Data	0.042	0.32	1.117	0.047	1.6	/
Right Tilt 15 °	21100/2535.0	Data	0.014	-1.05	1.117	0.016	1.6	/
Left Cheek	21100/2535.0	Data	0.040	-1.26	1.117	0.045	1.6	/
Left Tilt 15 °	21100/2535.0	Data	0.013	-1.97	1.117	0.015	1.6	/
Body-worn(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.
1RB#0								
Front Upward	21100/2535.0	Data	0.165	0.43	1.089	0.180	1.6	/
Back Upward	21100/2535.0	Data	0.137	-1.04	1.089	0.149	1.6	/
Front Upward	20850/2510.0	Data	0.146	-3.17	1.081	0.158	1.6	/
Front Upward	21350/2560.0	Data	0.181	-2.44	1.067	0.193	1.6	Yes
50%RB#0								
Front Upward	21100/2535.0	Data	0.118	-1.31	1.117	0.132	1.6	/
Back Upward	21100/2535.0	Data	0.096	-0.24	1.117	0.107	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.
1RB#0								
Front Upward	21100/2535.0	Data	0.165	0.43	1.089	0.180	1.6	/
Back Upward	21100/2535.0	Data	0.137	-1.04	1.089	0.149	1.6	/
Edge C	21100/2535.0	Data	0.297	-0.28	1.089	0.323	1.6	/
Edge D	21100/2535.0	Data	0.041	-1.94	1.089	0.045	1.6	/
Edge C	20850/2510.0	Data	0.251	-1.49	1.081	0.271	1.6	/
Edge C	21350/2560.0	Data	0.362	-2.42	1.067	0.386	1.6	Yes
50%RB#0								
Front Upward	21100/2535.0	Data	0.118	-1.31	1.117	0.132	1.6	/
Back Upward	21100/2535.0	Data	0.096	-0.24	1.117	0.107	1.6	/
Edge C	21100/2535.0	Data	0.230	3.52	1.117	0.257	1.6	/
Edge D	21100/2535.0	Data	0.035	-0.58	1.117	0.039	1.6	/

**Results overview of TDD LTE Band 7, QPSK, 20MHz Bandwidth****ANT 3**

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	21100/2535.0	Data	1.009	-2.51	1.096	1.106	1.6	/
Right Cheek Repeat	21100/2535.0	Data	1.013	-1.98	1.096	1.110	1.6	Yes
Right Cheek	20850/2510.0	Data	0.968	-0.37	1.086	1.051	1.6	/
Right Cheek	21350/2560.0	Data	0.915	-1.56	1.119	1.024	1.6	/
Right Tilt 15 °	21100/2535.0	Data	0.568	-2.32	1.096	0.623	1.6	/
Left Cheek	21100/2535.0	Data	0.916	-1.44	1.096	1.004	1.6	/
Left Cheek Repeat	21100/2535.0	Data	0.908	-1.70	1.096	0.995	1.6	/
Left Cheek	21100/2535.0	Data	0.876	2.34	1.086	0.951	1.6	/
Left Cheek	21100/2535.0	Data	0.821	2.05	1.119	0.919	1.6	/
Left Tilt 15 °	21100/2535.0	Data	0.513	-3.48	1.096	0.562	1.6	/
50%RB#0								
Right Cheek	21100/2535.0	Data	0.892	-0.26	1.148	1.024	1.6	/
Right Cheek	20850/2510.0	Data	0.913	-1.47	1.148	1.048	1.6	/
Right Cheek Repeat	20850/2510.0	Data	0.908	-0.85	1.148	1.042	1.6	/
Right Cheek	21350/2560.0	Data	0.852	2.19	1.132	0.964	1.6	/
Right Tilt 15 °	21100/2535.0	Data	0.451	-0.16	1.148	0.518	1.6	/
Left Cheek	21100/2535.0	Data	0.807	-3.45	1.148	0.926	1.6	/
Left Cheek	20850/2510.0	Data	0.822	-0.51	1.148	0.944	1.6	/
Left Cheek Repeat	20850/2510.0	Data	0.818	1.47	1.148	0.939	1.6	/
Left Cheek	21350/2560.0	Data	0.763	2.03	1.132	0.864	1.6	/
Left Tilt 15 °	21100/2535.0	Data	0.420	-2.51	1.148	0.482	1.6	/
100%RB#0								
Right Cheek	21100/2535.0	Data	0.835	-0.23	1.151	0.961	1.6	/
Right Cheek Repeat	21100/2535.0	Data	0.830	-0.70	1.151	0.955	1.6	/
Right Cheek	20850/2510.0	Data	0.782	-1.82	1.148	0.898	1.6	/
Right Cheek	21350/2560.0	Data	0.807	0.61	1.159	0.935	1.6	/
Left Cheek	21100/2535.0	Data	0.778	2.69	1.151	0.895	1.6	/
Left Cheek	20850/2510.0	Data	0.721	-1.70	1.148	0.828	1.6	/
Left Cheek	21350/2560.0	Data	0.754	-2.34	1.159	0.874	1.6	/
Body-worn(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.
1RB#0								
Front Upward	21100/2535.0	Data	0.423	-2.32	1.096	0.464	1.6	/
Back Upward	21100/2535.0	Data	0.449	-0.44	1.096	0.492	1.6	Yes
Back Upward	20850/2510.0	Data	0.428	-1.48	1.086	0.465	1.6	/
Back Upward	21350/2560.0	Data	0.407	-3.37	1.119	0.455	1.6	/
50%RB#0								
Front Upward	21100/2535.0	Data	0.365	-0.65	1.148	0.419	1.6	/



Back Upward	21100/2535.0	Data	0.391	-0.89	1.148	0.449	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.
1RB#0								
Front Upward	21100/2535.0	Data	0.423	-2.32	1.096	0.464	1.6	/
Back Upward	21100/2535.0	Data	0.449	-0.44	1.096	0.492	1.6	/
Edge D	21100/2535.0	Data	0.578	-3.43	1.096	0.633	1.6	Yes
Edge D	20850/2510.0	Data	0.540	-0.29	1.086	0.586	1.6	/
Edge D	21350/2560.0	Data	0.509	-2.28	1.119	0.570	1.6	/
50%RB#0								
Front Upward	21100/2535.0	Data	0.365	-0.65	1.148	0.419	1.6	/
Back Upward	21100/2535.0	Data	0.391	-0.89	1.148	0.449	1.6	/
Edge D	21100/2535.0	Data	0.497	-2.14	1.148	0.571	1.6	/

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

ANT 1

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	23095/707.5	Data	0.154	-0.49	1.172	0.180	1.6	Yes
Right Tilt 15 °	23095/707.5	Data	0.076	-2.25	1.172	0.089	1.6	/
Left Cheek	23095/707.5	Data	0.145	-0.55	1.172	0.170	1.6	/
Left Tilt 15 °	23095/707.5	Data	0.070	-1.75	1.172	0.082	1.6	/
Right Cheek	23060/704.0	Data	0.145	-1.06	1.213	0.176	1.6	/
Right Cheek	23130/711.0	Data	0.150	-3.92	1.202	0.180	1.6	/
50%RB#0								
Right Cheek	23095/707.5	Data	0.118	-1.98	1.202	0.142	1.6	/
Right Tilt 15 °	23095/707.5	Data	0.061	-2.54	1.202	0.073	1.6	/
Left Cheek	23095/707.5	Data	0.104	-1.95	1.202	0.125	1.6	/
Left Tilt 15 °	23095/707.5	Data	0.059	1.14	1.202	0.071	1.6	/
Body-worn(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.
1RB#0								
Front Upward	23095/707.5	Data	0.373	-2.84	1.172	0.437	1.6	Yes
Back Upward	23095/707.5	Data	0.313	-1.03	1.172	0.367	1.6	/
Front Upward	23060/704.0	Data	0.321	0.27	1.213	0.389	1.6	/
Front Upward	23130/711.0	Data	0.359	-4.12	1.202	0.432	1.6	/
50%RB#0								
Front Upward	23095/707.5	Data	0.348	-3.56	1.202	0.418	1.6	/
Back Upward	23095/707.5	Data	0.281	1.16	1.202	0.338	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.
1RB#0								
Front Upward	23095/707.5	Data	0.373	-2.84	1.172	0.437	1.6	Yes
Back Upward	23095/707.5	Data	0.313	-1.03	1.172	0.367	1.6	/
Edge B	23095/707.5	Data	0.164	-0.22	1.172	0.192	1.6	/
Edge C	23095/707.5	Data	0.200	-1.06	1.172	0.234	1.6	/
Front Upward	23060/704.0	Data	0.321	0.27	1.213	0.389	1.6	/
Front Upward	23130/711.0	Data	0.359	-4.12	1.202	0.432	1.6	/
50%RB#0								
Front Upward	23095/707.5	Data	0.348	-3.56	1.202	0.418	1.6	/
Back Upward	23095/707.5	Data	0.281	1.16	1.202	0.338	1.6	/
Edge B	23095/707.5	Data	0.121	-1.21	1.202	0.145	1.6	/
Edge C	23095/707.5	Data	0.162	0.92	1.202	0.195	1.6	/

**Results overview of FDD LTE Band 17, QPSK, 10MHz Bandwidth****ANT 1**

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	23790/710.0	Data	0.150	-2.26	1.135	0.170	1.6	/
Right Tilt 15 °	23790/710.0	Data	0.079	-3.92	1.135	0.090	1.6	/
Left Cheek	23790/710.0	Data	0.141	-2.51	1.135	0.160	1.6	/
Left Tilt 15 °	23790/710.0	Data	0.068	-0.14	1.135	0.077	1.6	/
Right Cheek	23780/709.0	Data	0.158	-3.55	1.161	0.183	1.6	Yes
Right Cheek	23800/711.0	Data	0.153	-0.62	1.199	0.183	1.6	/
50%RB#0								
Right Cheek	23790/710.0	Data	0.102	-1.01	1.172	0.120	1.6	/
Right Tilt 15 °	23790/710.0	Data	0.052	-2.50	1.172	0.061	1.6	/
Left Cheek	23790/710.0	Data	0.094	0.62	1.172	0.110	1.6	/
Left Tilt 15 °	23790/710.0	Data	0.046	-0.96	1.172	0.054	1.6	/
Body-worn(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.
1RB#0								
Front Upward	23790/710.0	Data	0.379	2.53	1.135	0.430	1.6	/
Back Upward	23790/710.0	Data	0.314	-3.44	1.135	0.356	1.6	/
Front Upward	23780/709.0	Data	0.426	0.94	1.161	0.495	1.6	Yes
Front Upward	23800/711.0	Data	0.413	-2.41	1.199	0.495	1.6	/
50%RB#0								
Front Upward	23790/710.0	Data	0.348	-3.79	1.172	0.408	1.6	/
Back Upward	23790/710.0	Data	0.299	1.12	1.172	0.350	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.
1RB#0								
Front Upward	23790/710.0	Data	0.379	2.53	1.135	0.430	1.6	/
Back Upward	23790/710.0	Data	0.314	-3.44	1.135	0.356	1.6	/
Edge B	23790/710.0	Data	0.178	-0.57	1.135	0.202	1.6	/
Edge C	23790/710.0	Data	0.210	-1.53	1.135	0.238	1.6	/
Front Upward	23780/709.0	Data	0.426	0.94	1.161	0.495	1.6	Yes
Front Upward	23800/711.0	Data	0.413	-2.41	1.199	0.495	1.6	/
50%RB#0								
Front Upward	23790/710.0	Data	0.348	-3.79	1.172	0.408	1.6	/
Back Upward	23790/710.0	Data	0.299	1.12	1.172	0.350	1.6	/
Edge B	23790/710.0	Data	0.157	-2.47	1.172	0.184	1.6	/
Edge C	23790/710.0	Data	0.193	0.76	1.172	0.226	1.6	/

**Results overview of TDD LTE Band 41, QPSK, 20MHz Bandwidth****ANT 2**

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	40620/2593.0	Data	0.083	-0.83	1.114	0.092	1.6	/
Right Tilt 15 °	40620/2593.0	Data	0.035	-0.96	1.114	0.039	1.6	/
Left Cheek	40620/2593.0	Data	0.130	1.68	1.114	0.145	1.6	Yes
Left Tilt 15 °	40620/2593.0	Data	0.055	-2.03	1.114	0.061	1.6	/
Left Cheek	39750/2506.0	Data	0.122	-2.72	1.089	0.133	1.6	/
Left Cheek	41490/2680.0	Data	0.112	1.02	1.127	0.126	1.6	/
50%RB#0								
Right Cheek	40620/2593.0	Data	0.072	-0.61	1.132	0.082	1.6	/
Right Tilt 15 °	40620/2593.0	Data	0.022	-3.60	1.132	0.025	1.6	/
Left Cheek	40620/2593.0	Data	0.090	-1.16	1.132	0.102	1.6	/
Left Tilt 15 °	40620/2593.0	Data	0.044	2.54	1.132	0.050	1.6	/
Body-worn(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.
1RB#0								
Front Upward	40620/2593.0	Data	0.204	-3.84	1.114	0.227	1.6	Yes
Back Upward	40620/2593.0	Data	0.179	-1.87	1.114	0.199	1.6	/
Front Upward	39750/2506.0	Data	0.200	-2.05	1.089	0.218	1.6	/
Front Upward	41490/2680.0	Data	0.178	1.22	1.127	0.201	1.6	/
50%RB#0								
Front Upward	40620/2593.0	Data	0.188	-0.91	1.132	0.213	1.6	/
Back Upward	40620/2593.0	Data	0.152	1.39	1.132	0.172	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.
1RB#0								
Front Upward	40620/2593.0	Data	0.204	-3.84	1.114	0.227	1.6	/
Back Upward	40620/2593.0	Data	0.179	-1.87	1.114	0.199	1.6	/
Edge C	40620/2593.0	Data	0.309	-0.87	1.114	0.344	1.6	Yes
Edge D	40620/2593.0	Data	0.128	1.77	1.114	0.143	1.6	/
Edge C	39750/2506.0	Data	0.292	-3.56	1.089	0.318	1.6	/
Edge C	41490/2680.0	Data	0.261	-2.53	1.127	0.294	1.6	/
50%RB#0								
Front Upward	40620/2593.0	Data	0.188	-0.91	1.132	0.213	1.6	/
Back Upward	40620/2593.0	Data	0.152	1.39	1.132	0.172	1.6	/
Edge C	40620/2593.0	Data	0.285	-3.57	1.132	0.323	1.6	/
Edge D	40620/2593.0	Data	0.120	-2.40	1.132	0.136	1.6	/



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

ANT 4

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#0								
Right Cheek	40620/2593.0	Data	0.718	0.51	1.052	0.755	1.6	/
Right Tilt 15 °	40620/2593.0	Data	0.469	-2.58	1.052	0.493	1.6	/
Left Cheek	40620/2593.0	Data	0.609	-3.65	1.052	0.641	1.6	/
Left Tilt 15 °	40620/2593.0	Data	0.387	1.08	1.052	0.407	1.6	/
Right Cheek	39750/2506.0	Data	0.631	-2.56	1.175	0.741	1.6	/
Right Cheek	41490/2680.0	Data	0.890	-3.10	1.102	0.981	1.6	Yes
Right Cheek Repeat	41490/2680.0	Data	0.881	-0.77	1.102	0.971	1.6	/
50%RB#0								
Right Cheek	40620/2593.0	Data	0.649	-2.28	1.104	0.716	1.6	/
Right Tilt 15 °	40620/2593.0	Data	0.412	-0.21	1.104	0.455	1.6	/
Left Cheek	40620/2593.0	Data	0.535	-2.26	1.104	0.591	1.6	/
Left Tilt 15 °	40620/2593.0	Data	0.316	3.81	1.104	0.349	1.6	/
100%RB#0								
Right Cheek	40620/2593.0	Data	0.605	-2.74	1.084	0.656	1.6	/
Body-worn(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.
1RB#0								
Front Upward	40620/2593.0	Data	0.261	1.90	1.052	0.275	1.6	/
Back Upward	40620/2593.0	Data	0.394	-2.09	1.052	0.414	1.6	/
Back Upward	39750/2506.0	Data	0.343	4.08	1.175	0.403	1.6	/
Back Upward	41490/2680.0	Data	0.426	-0.15	1.102	0.469	1.6	Yes
50%RB#0								
Front Upward	40620/2593.0	Data	0.219	-0.57	1.104	0.242	1.6	/
Back Upward	40620/2593.0	Data	0.330	-3.32	1.104	0.364	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.
1RB#0								
Front Upward	40620/2593.0	Data	0.261	-2.45	1.052	0.275	1.6	/
Back Upward	40620/2593.0	Data	0.394	-2.92	1.052	0.414	1.6	/
Edge A	40620/2593.0	Data	0.855	3.23	1.052	0.899	1.6	/
Edge D	40620/2593.0	Data	0.682	-4.17	1.052	0.717	1.6	/
Edge A	39750/2506.0	Data	0.734	-0.91	1.175	0.862	1.6	/
Edge A	41490/2680.0	Data	0.926	-0.02	1.102	1.020	1.6	Yes
Edge A	41490/2680.0	Data	0.920	-1.55	1.102	1.014	1.6	/
50%RB#0								
Front Upward	40620/2593.0	Data	0.219	-3.28	1.104	0.242	1.6	/
Back Upward	40620/2593.0	Data	0.330	-2.12	1.104	0.364	1.6	/



Edge A	40620/2593.0	Data	0.778	0.92	1.104	0.859	1.6	/
Edge D	40620/2593.0	Data	0.599	-0.41	1.104	0.661	1.6	/
Edge A	39750/2506.0	Data	0.685	2.71	1.146	0.785	1.6	/
Edge A	41490/2680.0	Data	0.736	1.53	1.109	0.816	1.6	/
100%RB#0								
Edge A	40620/2593.0	Data	0.717	-0.63	1.084	0.777	1.6	/
Edge A	39750/2506.0	Data	0.732	-0.64	1.122	0.821	1.6	/
Edge A	41490/2680.0	Data	0.679	-0.71	1.114	0.756	1.6	/

**Results overview of NR5, DFT-QPSK,20MHz Bandwidth**

ANT 1

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#1, 15KHz SCS								
Right Cheek	167300/836.5	Data	0.247	-0.11	1.122	0.277	1.6	/
Right Tilt 15 °	167300/836.5	Data	0.135	-2.17	1.122	0.151	1.6	/
Left Cheek	167300/836.5	Data	0.210	2.21	1.122	0.236	1.6	/
Left Tilt 15 °	167300/836.5	Data	0.114	3.19	1.122	0.128	1.6	/
50%RB#0, 15KHz SCS								
Right Cheek	167300/836.5	Data	0.296	-3.40	1.122	0.332	1.6	/
Right Tilt 15 °	167300/836.5	Data	0.162	-2.88	1.122	0.182	1.6	/
Left Cheek	167300/836.5	Data	0.234	0.23	1.122	0.263	1.6	/
Left Tilt 15 °	167300/836.5	Data	0.129	-3.56	1.122	0.145	1.6	/
Right Cheek	166800/834.0	Data	0.311	-4.48	1.122	0.349	1.6	Yes
Right Cheek	167800/839.0	Data	0.288	-2.45	1.122	0.323	1.6	/
Body-worn(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.
1RB#1, 15KHz SCS								
Front Upward	167300/836.5	Data	0.549	-2.38	1.122	0.616	1.6	/
Back Upward	167300/836.5	Data	0.463	-1.87	1.122	0.519	1.6	/
50%RB#0, 15KHz SCS								
Front Upward	167300/836.5	Data	0.557	-0.61	1.122	0.625	1.6	/
Back Upward	167300/836.5	Data	0.481	-3.52	1.122	0.540	1.6	/
Front Upward	166800/834.0	Data	0.599	0.38	1.122	0.672	1.6	Yes
Front Upward	167800/839.0	Data	0.496	-2.22	1.122	0.557	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.
1RB#1, 15KHz SCS								
Front Upward	167300/836.5	Data	0.549	-2.38	1.122	0.616	1.6	/
Back Upward	167300/836.5	Data	0.463	-1.87	1.122	0.519	1.6	/
Edge B	167300/836.5	Data	0.440	-3.50	1.122	0.494	1.6	/
Edge C	167300/836.5	Data	0.349	2.14	1.122	0.392	1.6	/
50%RB#0, 15KHz SCS								
Front Upward	167300/836.5	Data	0.557	-0.61	1.122	0.625	1.6	/
Back Upward	167300/836.5	Data	0.481	-3.52	1.122	0.540	1.6	/
Edge B	167300/836.5	Data	0.448	-1.60	1.122	0.503	1.6	/
Edge C	167300/836.5	Data	0.362	-1.58	1.122	0.406	1.6	/
Front Upward	166800/834.0	Data	0.599	0.38	1.122	0.672	1.6	Yes
Front Upward	167800/839.0	Data	0.496	-2.22	1.122	0.557	1.6	/

**Results overview of NR41, DFT-QPSK,100MHz Bandwidth**

ANT 2

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#1, 30KHz SCS								
Right Cheek	518598/2592.99	Data	0.022	1.07	1.122	0.025	1.6	/
Right Tilt 15 °	518598/2592.99	Data	0.009	-2.59	1.122	0.010	1.6	/
Left Cheek	518598/2592.99	Data	0.034	-1.64	1.122	0.038	1.6	/
Left Tilt 15 °	518598/2592.99	Data	0.015	-0.08	1.122	0.017	1.6	/
Left Cheek	509202/2546.01	Data	0.044	-2.52	1.122	0.049	1.6	Yes
Left Cheek	528000/2640.0	Data	0.036	-2.77	1.122	0.040	1.6	/
50%RB#0, 30KHz SCS								
Right Cheek	518598/2592.99	Data	0.019	-1.08	1.000	0.019	1.6	/
Right Tilt 15 °	518598/2592.99	Data	0.008	-3.61	1.000	0.008	1.6	/
Left Cheek	518598/2592.99	Data	0.030	-0.84	1.000	0.030	1.6	/
Left Tilt 15 °	518598/2592.99	Data	0.012	-1.72	1.000	0.012	1.6	/
Body-worn(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.
1RB#1, 30KHz SCS								
Front Upward	518598/2592.99	Data	0.093	-0.94	1.122	0.104	1.6	/
Back Upward	518598/2592.99	Data	0.173	-3.96	1.122	0.194	1.6	/
Back Upward	509202/2546.01	Data	0.202	2.99	1.122	0.227	1.6	Yes
Back Upward	528000/2640.0	Data	0.180	-0.50	1.122	0.202	1.6	/
50%RB#0, 30KHz SCS								
Front Upward	518598/2592.99	Data	0.075	-1.19	1.000	0.075	1.6	/
Back Upward	518598/2592.99	Data	0.094	-1.63	1.000	0.094	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.
1RB#1, 30KHz SCS								
Front Upward	518598/2592.99	Data	0.093	-0.94	1.122	0.104	1.6	/
Back Upward	518598/2592.99	Data	0.173	-3.96	1.122	0.194	1.6	/
Edge C	518598/2592.99	Data	0.525	-2.41	1.122	0.589	1.6	/
Edge D	518598/2592.99	Data	0.154	-0.73	1.122	0.173	1.6	/
Edge C	509202/2546.01	Data	0.605	2.44	1.122	0.679	1.6	Yes
Edge C	528000/2640.0	Data	0.543	-1.87	1.122	0.609	1.6	/
50%RB#0, 30KHz SCS								
Front Upward	518598/2592.99	Data	0.075	-1.19	1.000	0.075	1.6	/
Back Upward	518598/2592.99	Data	0.094	-1.63	1.000	0.094	1.6	/
Edge C	518598/2592.99	Data	0.423	-0.95	1.000	0.423	1.6	/
Edge D	518598/2592.99	Data	0.102	-3.11	1.000	0.102	1.6	/

**Results overview of NR41, DFT-QPSK,100MHz Bandwidth**

ANT 5

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#1, 30KHz SCS								
Right Cheek Receiver ON	518598/2592.99	Data	0.901	-1.34	1.122	1.011	1.6	/
Right Cheek Receiver ON	509202/2546.01	Data	1.002	-0.22	1.122	1.124	1.6	Yes
Right Cheek Repeat Receiver ON	509202/2546.01	Data	0.998	-0.87	1.122	1.120	1.6	/
Right Cheek Receiver ON	528000/2640.0	Data	0.853	-1.65	1.122	0.957	1.6	/
Right Tilt 15 ° Receiver ON	518598/2592.99	Data	0.521	-2.34	1.122	0.585	1.6	/
Left Cheek Receiver ON	518598/2592.99	Data	0.789	-1.71	1.122	0.885	1.6	/
Left Cheek Receiver ON	509202/2546.01	Data	0.886	-2.53	1.122	0.994	1.6	/
Left Cheek Repeat Receiver ON	509202/2546.01	Data	0.875	-2.53	1.122	0.982	1.6	/
Left Cheek Receiver ON	528000/2640.0	Data	0.743	-0.97	1.122	0.834	1.6	/
Left Tilt 15 ° Receiver ON	518598/2592.99	Data	0.448	-1.44	1.122	0.503	1.6	/
50%RB#0, 30KHz SCS								
Right Cheek Receiver ON	518598/2592.99	Data	0.798	-3.14	1.000	0.798	1.6	/
Right Cheek Receiver ON	509202/2546.01	Data	0.726	-4.73	1.000	0.726	1.6	/
Right Cheek Receiver ON	528000/2640.0	Data	0.832	-1.37	1.000	0.832	1.6	/
Right Cheek Receiver ON Repeat	528000/2640.0	Data	0.829	-3.09	1.000	0.829	1.6	/
Right Tilt 15 ° Receiver ON	518598/2592.99	Data	0.463	-3.91	1.000	0.463	1.6	/
Left Cheek Receiver ON	518598/2592.99	Data	0.694	-1.31	1.000	0.694	1.6	/
Left Tilt 15 ° Receiver ON	518598/2592.99	Data	0.403	-3.23	1.000	0.403	1.6	/
100%RB#0, 30KHz SCS								
Right Cheek Receiver ON	518598/2592.99	Data	0.706	-1.91	1.000	0.706	1.6	/
Left Cheek	518598/2592.99	Data	0.610	-1.22	1.000	0.610	1.6	/



Receiver ON								
Body-worn(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.
1RB#1, 30KHz SCS								
Front Upward Sensor on	518598/2592.99	Data	0.260	-1.31	1.122	0.292	1.6	/
Back Upward Sensor on	518598/2592.99	Data	0.797	-0.25	1.122	0.894	1.6	/
Back Upward Sensor on	509202/2546.01	Data	0.858	-3.26	1.122	0.963	1.6	Yes
Back Upward Sensor on Repeat	509202/2546.01	Data	0.852	-2.56	1.122	0.956	1.6	/
Back Upward Sensor on	528000/2640.0	Data	0.716	-1.40	1.122	0.803	1.6	/
50%RB#1, 30KHz SCS								
Front Upward Sensor on	518598/2592.99	Data	0.210	-1.99	1.000	0.210	1.6	/
Back Upward Sensor on	518598/2592.99	Data	0.716	-1.16	1.000	0.716	1.6	/
100%RB#0, 30KHz SCS								
Back Upward Sensor on	518598/2592.99	Data	0.638	-2.79	1.000	0.638	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.
1RB#1, 30KHz SCS								
Front Upward Hotspot on	518598/2592.99	Data	0.260	2.02	1.122	0.292	1.6	/
Back Upward Hotspot on	518598/2592.99	Data	0.797	-3.25	1.122	0.894	1.6	/
Back Upward Hotspot on	509202/2546.01	Data	0.858	-2.79	1.122	0.963	1.6	/
Back Upward Hotspot on Repeat	509202/2546.01	Data	0.852	-0.48	1.122	0.956	1.6	/
Back Upward Hotspot on	528000/2640.0	Data	0.716	2.71	1.122	0.803	1.6	/
Edge A Hotspot on	518598/2592.99	Data	0.304	-0.97	1.122	0.341	1.6	/
Edge D Hotspot on	518598/2592.99	Data	0.943	-2.30	1.122	1.058	1.6	/
Edge D Hotspot on	509202/2546.01	Data	1.041	-0.26	1.122	1.168	1.6	/
Edge D Hotspot on Repeat	509202/2546.01	Data	1.052	-0.46	1.122	1.180	1.6	Yes
Edge D	528000/2640.0	Data	0.892	1.09	1.122	1.001	1.6	/



Hotspot on								
50%RB#0, 30KHz SCS								
Front Upward Hotspot on	518598/2592.99	Data	0.210	-3.98	1.000	0.210	1.6	/
Back Upward Hotspot on	518598/2592.99	Data	0.716	-1.32	1.000	0.716	1.6	/
Edge A Hotspot on	518598/2592.99	Data	0.246	0.97	1.000	0.246	1.6	/
Edge D Hotspot on	518598/2592.99	Data	0.907	-0.33	1.000	0.907	1.6	/
Edge D Hotspot on Repeat	518598/2592.99	Data	0.913	-0.50	1.000	0.913	1.6	/
Edge D Hotspot on	509202/2546.01	Data	0.894	-1.35	1.000	0.894	1.6	/
Edge D Hotspot on	528000/2640.0	Data	0.841	-2.91	1.000	0.841	1.6	/
100%RB#0, 30KHz SCS								
Back Hotspot on	518598/2592.99	Data	0.638	-1.14	1.000	0.638	1.6	/
Edge D Hotspot on	518598/2592.99	Data	0.770	1.13	1.000	0.770	1.6	/
Edge D Hotspot on	509202/2546.01	Data	0.701	-2.74	1.000	0.701	1.6	/
Edge D Hotspot on	528000/2640.0	Data	0.715	-1.01	1.000	0.715	1.6	/

**Results overview of NR77, DFT-QPSK,100MHz Bandwidth(3450MHz-3550MHz)**

ANT 5

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#1, 30KHz SCS								
Right Cheek	633334/3500.01	Data	0.027	-3.10	1.122	0.030	1.6	Yes
Right Tilt 15 °	633334/3500.01	Data	0.015	-4.73	1.122	0.017	1.6	/
Left Cheek	633334/3500.01	Data	0.019	0.49	1.122	0.021	1.6	/
Left Tilt 15 °	633334/3500.01	Data	0.011	-3.80	1.122	0.012	1.6	/
50%RB#0, 30KHz SCS								
Right Cheek	633334/3500.01	Data	0.024	-2.30	1.000	0.024	1.6	/
Right Tilt 15 °	633334/3500.01	Data	0.014	-0.48	1.000	0.014	1.6	/
Left Cheek	633334/3500.01	Data	0.017	-2.27	1.000	0.017	1.6	/
Left Tilt 15 °	633334/3500.01	Data	0.010	1.58	1.000	0.010	1.6	/
Body-worn(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.
1RB#1, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.043	-2.09	1.122	0.048	1.6	/
Back Upward	633334/3500.01	Data	0.175	0.36	1.122	0.196	1.6	/
50%RB#0, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.033	-0.29	1.000	0.033	1.6	/
Back Upward	633334/3500.01	Data	0.122	-1.96	1.000	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.
1RB#1, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.043	-2.09	1.122	0.048	1.6	/
Back Upward	633334/3500.01	Data	0.175	0.36	1.122	0.196	1.6	/
Edge A	633334/3500.01	Data	0.040	-1.76	1.122	0.045	1.6	/
Edge D	633334/3500.01	Data	0.496	0.93	1.122	0.557	1.6	Yes
50%RB#0, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.033	-0.29	1.000	0.033	1.6	/
Back Upward	633334/3500.01	Data	0.122	-1.96	1.000	0.122	1.6	/
Edge A	633334/3500.01	Data	0.031	-0.14	1.000	0.031	1.6	/
Edge D	633334/3500.01	Data	0.434	0.26	1.000	0.434	1.6	/

**Results overview of NR77, DFT-QPSK,100MHz Bandwidth(3450MHz-3550MHz)**

ANT 11

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#1, 30KHz SCS								
Right Cheek	633334/3500.01	Data	0.098	-1.50	1.122	0.110	1.6	/
Right Tilt 15 °	633334/3500.01	Data	0.073	-3.82	1.122	0.082	1.6	/
Left Cheek	633334/3500.01	Data	0.120	-0.51	1.122	0.135	1.6	Yes
Left Tilt 15 °	633334/3500.01	Data	0.090	-0.84	1.122	0.101	1.6	/
50%RB#0, 30KHz SCS								
Right Cheek	633334/3500.01	Data	0.081	-1.72	1.000	0.081	1.6	/
Right Tilt 15 °	633334/3500.01	Data	0.064	-0.58	1.000	0.064	1.6	/
Left Cheek	633334/3500.01	Data	0.095	2.19	1.000	0.095	1.6	/
Left Tilt 15 °	633334/3500.01	Data	0.078	-3.90	1.000	0.078	1.6	/
Body-worn(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.
1RB#1, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.089	2.10	1.122	0.100	1.6	/
Back Upward	633334/3500.01	Data	0.170	-1.49	1.122	0.191	1.6	Yes
50%RB#0, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.077	1.87	1.000	0.077	1.6	/
Back Upward	633334/3500.01	Data	0.159	-3.50	1.000	0.159	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.
1RB#1, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.089	2.10	1.122	0.100	1.6	/
Back Upward	633334/3500.01	Data	0.170	-1.49	1.122	0.191	1.6	/
Edge A	633334/3500.01	Data	0.102	-3.89	1.122	0.114	1.6	/
Edge D	633334/3500.01	Data	0.632	-0.54	1.122	0.709	1.6	Yes
50%RB#0, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.077	1.87	1.000	0.077	1.6	/
Back Upward	633334/3500.01	Data	0.159	-3.50	1.000	0.159	1.6	/
Edge A	633334/3500.01	Data	0.093	1.87	1.000	0.093	1.6	/
Edge D	633334/3500.01	Data	0.616	-3.50	1.000	0.616	1.6	/

**Results overview of NR78, DFT-QPSK,100MHz Bandwidth(3450MHz-3550MHz)**

ANT 5

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#1, 30KHz SCS								
Right Cheek	633334/3500.01	Data	0.238	-2.55	1.122	0.267	1.6	Yes
Right Tilt 15 °	633334/3500.01	Data	0.157	-1.58	1.122	0.176	1.6	/
Left Cheek	633334/3500.01	Data	0.198	-3.23	1.122	0.222	1.6	/
Left Tilt 15 °	633334/3500.01	Data	0.119	-1.78	1.122	0.134	1.6	/
50%RB#0, 30KHz SCS								
Right Cheek	633334/3500.01	Data	0.194	-4.75	1.000	0.194	1.6	/
Right Tilt 15 °	633334/3500.01	Data	0.120	-1.58	1.000	0.120	1.6	/
Left Cheek	633334/3500.01	Data	0.165	2.72	1.000	0.165	1.6	/
Left Tilt 15 °	633334/3500.01	Data	0.103	-0.49	1.000	0.103	1.6	/
Body-worn(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.
1RB#1, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.118	-2.89	1.122	0.132	1.6	/
Back Upward	633334/3500.01	Data	0.378	0.37	1.122	0.424	1.6	Yes
50%RB#0, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.092	1.02	1.000	0.092	1.6	/
Back Upward	633334/3500.01	Data	0.342	-4.09	1.000	0.342	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.
1RB#1, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.188	-2.89	1.122	0.211	1.6	/
Back Upward	633334/3500.01	Data	0.378	0.37	1.122	0.424	1.6	/
Edge A	633334/3500.01	Data	0.125	-3.32	1.122	0.140	1.6	/
Edge D	633334/3500.01	Data	0.859	-2.21	1.122	0.964	1.6	Yes
Edge D Repeat	633334/3500.01	Data	0.855	-0.69	1.122	0.959	1.6	/
50%RB#0, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.092	1.02	1.000	0.092	1.6	/
Back Upward	633334/3500.01	Data	0.342	-4.09	1.000	0.342	1.6	/
Edge A	633334/3500.01	Data	0.090	-4.40	1.000	0.090	1.6	/
Edge D	633334/3500.01	Data	0.642	-2.96	1.000	0.642	1.6	/
100%RB#0, 30KHz SCS								
Edge D	633334/3500.01	Data	0.639	1.37	1.000	0.639	1.6	/

**Results overview of NR78, DFT-QPSK,100MHz Bandwidth(3450MHz-3550MHz)**

ANT 11

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
1RB#1, 30KHz SCS								
Right Cheek	633334/3500.01	Data	0.119	-1.68	1.122	0.134	1.6	/
Right Tilt 15 °	633334/3500.01	Data	0.087	-1.53	1.122	0.098	1.6	/
Left Cheek	633334/3500.01	Data	0.144	1.40	1.122	0.162	1.6	Yes
Left Tilt 15 °	633334/3500.01	Data	0.106	-3.29	1.122	0.119	1.6	/
50%RB#0, 30KHz SCS								
Right Cheek	633334/3500.01	Data	0.092	-3.86	1.000	0.092	1.6	/
Right Tilt 15 °	633334/3500.01	Data	0.069	-2.53	1.000	0.069	1.6	/
Left Cheek	633334/3500.01	Data	0.108	-4.40	1.000	0.108	1.6	/
Left Tilt 15 °	633334/3500.01	Data	0.088	-0.32	1.000	0.088	1.6	/
Body-worn(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.
1RB#1, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.081	-0.39	1.122	0.091	1.6	/
Back Upward	633334/3500.01	Data	0.122	0.68	1.122	0.137	1.6	Yes
50%RB#0, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.067	3.39	1.000	0.067	1.6	/
Back Upward	633334/3500.01	Data	0.090	1.66	1.000	0.090	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.
1RB#1, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.081	-0.39	1.122	0.091	1.6	/
Back Upward	633334/3500.01	Data	0.122	0.68	1.122	0.137	1.6	/
Edge A	633334/3500.01	Data	0.175	-2.99	1.122	0.196	1.6	/
Edge D	633334/3500.01	Data	0.699	-0.52	1.122	0.784	1.6	Yes
50%RB#0, 30KHz SCS								
Front Upward	633334/3500.01	Data	0.067	3.39	1.000	0.067	1.6	/
Back Upward	633334/3500.01	Data	0.090	1.66	1.000	0.090	1.6	/
Edge A	633334/3500.01	Data	0.109	-0.67	1.000	0.109	1.6	/
Edge D	633334/3500.01	Data	0.603	-3.34	1.000	0.603	1.6	/

**Results overview of WI-FI 2.4G 802.11b**

ANT 7

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	6/2437.0	802.11b	0.184	-3.30	1.164	0.214	1.6	Yes
Right Tilt 15 °	6/2437.0	802.11b	0.166	-0.76	1.164	0.193	1.6	/
Left Cheek	6/2437.0	802.11b	0.142	-2.66	1.164	0.165	1.6	/
Left Tilt 15 °	6/2437.0	802.11b	0.113	-0.52	1.164	0.132	1.6	/
Right Cheek	1/2412.0	802.11b	0.142	-1.22	1.178	0.167	1.6	/
Right Cheek	11/2462.0	802.11b	0.163	2.46	1.114	0.182	1.6	/
Body-worn(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	6/2437.0	802.11b	0.044	-0.79	1.164	0.051	1.6	/
Back Upward	6/2437.0	802.11b	0.065	-2.58	1.164	0.076	1.6	Yes
Back Upward	1/2412.0	802.11b	0.057	-2.05	1.178	0.067	1.6	/
Back Upward	11/2462.0	802.11b	0.062	-3.48	1.114	0.069	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.
Front Upward	6/2437.0	802.11b	0.044	-0.79	1.164	0.051	1.6	/
Back Upward	6/2437.0	802.11b	0.065	-2.58	1.164	0.076	1.6	/
Edge A	6/2437.0	802.11b	0.151	-1.01	1.164	0.176	1.6	Yes
Edge B	6/2437.0	802.11b	0.098	-3.13	1.164	0.114	1.6	/
Edge A	1/2412.0	802.11b	0.125	-0.93	1.178	0.147	1.6	/
Edge A	11/2462.0	802.11b	0.143	0.60	1.114	0.159	1.6	/

**Results overview of WI-FI 2.4G 802.11b**

ANT 9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	6/2437.0	802.11b	0.171	-0.06	1.125	0.192	1.6	/
Right Tilt 15 °	6/2437.0	802.11b	0.128	3.46	1.125	0.144	1.6	/
Left Cheek	6/2437.0	802.11b	0.225	4.54	1.125	0.253	1.6	/
Left Tilt 15 °	6/2437.0	802.11b	0.178	2.33	1.125	0.200	1.6	/
Left Cheek	1/2412.0	802.11b	0.228	-4.58	1.079	0.246	1.6	/
Left Cheek	11/2462.0	802.11b	0.246	-0.34	1.069	0.263	1.6	Yes
Body-worn(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	6/2437.0	802.11b	0.078	-2.07	1.125	0.088	1.6	/
Back Upward	6/2437.0	802.11b	0.055	0.14	1.125	0.062	1.6	/
Front Upward	1/2412.0	802.11b	0.078	-0.39	1.079	0.084	1.6	/
Front Upward	11/2462.0	802.11b	0.086	-1.12	1.069	0.092	1.6	Yes
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	6/2437.0	802.11b	0.078	-2.07	1.125	0.088	1.6	/
Back Upward	6/2437.0	802.11b	0.055	0.14	1.125	0.062	1.6	/
Edge B	6/2437.0	802.11b	0.220	-1.74	1.125	0.248	1.6	/
Edge B	1/2412.0	802.11b	0.214	-1.16	1.079	0.231	1.6	/
Edge B	11/2462.0	802.11b	0.237	0.96	1.069	0.253	1.6	Yes

**Results overview of WI-FI 2.4G 802.11n20 MIMO**

ANT 7+9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	6/2437.0	802.11n20	0.117	3.22	1.079	0.126	1.6	/
Right Tilt 15 °	6/2437.0	802.11n20	0.089	-3.18	1.079	0.096	1.6	/
Left Cheek	6/2437.0	802.11n20	0.207	-3.70	1.079	0.223	1.6	/
Left Tilt 15 °	6/2437.0	802.11n20	0.186	3.68	1.079	0.201	1.6	/
Left Cheek	1/2412.0	802.11n20	0.175	-4.80	1.153	0.202	1.6	/
Left Cheek	11/2462.0	802.11n20	0.234	-0.73	1.084	0.254	1.6	Yes
Body-worn(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	6/2437.0	802.11n20	0.074	-1.04	1.079	0.080	1.6	/
Back Upward	6/2437.0	802.11n20	0.047	-3.29	1.079	0.051	1.6	/
Front Upward	1/2412.0	802.11n20	0.066	-2.41	1.153	0.076	1.6	/
Front Upward	11/2462.0	802.11n20	0.080	-0.72	1.084	0.087	1.6	Yes
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	6/2437.0	802.11n20	0.074	-1.04	1.079	0.080	1.6	/
Back Upward	6/2437.0	802.11n20	0.047	-3.29	1.079	0.051	1.6	/
Edge A	6/2437.0	802.11n20	0.085	-2.12	1.079	0.092	1.6	/
Edge B	6/2437.0	802.11n20	0.033	-3.24	1.079	0.036	1.6	/
Edge A	1/2412.0	802.11n20	0.077	-0.92	1.153	0.089	1.6	/
Edge A	11/2462.0	802.11n20	0.095	0.17	1.084	0.103	1.6	Yes

**Results overview of WI-FI U-NII 1 802.11a Standalone**

ANT 8

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	44/5220.0	802.11a	0.403	-2.89	1.130	0.455	1.6	/
Right Tilt 15 °	44/5220.0	802.11a	0.475	0.33	1.130	0.537	1.6	/
Left Cheek	44/5220.0	802.11a	0.481	-1.45	1.130	0.544	1.6	/
Left Tilt 15 °	44/5220.0	802.11a	0.562	-1.84	1.130	0.635	1.6	/
Left Tilt 15 °	36/5180.0	802.11a	0.584	-2.52	1.117	0.652	1.6	Yes
Left Tilt 15 °	48/5240.0	802.11a	0.531	-1.29	1.117	0.593	1.6	/
Body-worn(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	44/5220.0	802.11a	0.371	-0.77	1.130	0.419	1.6	/
Back Upward	44/5220.0	802.11a	0.306	-1.04	1.130	0.346	1.6	/
Edge A	44/5220.0	802.11a	0.275	-2.22	1.130	0.311	1.6	/
Edge B	44/5220.0	802.11a	0.204	0.37	1.130	0.231	1.6	/
Front Upward	36/5180.0	802.11a	0.402	-1.55	1.117	0.449	1.6	Yes
Front Upward	48/5240.0	802.11a	0.352	-3.09	1.117	0.393	1.6	/

**Results overview of WI-FI U-NII 1 802.11a Standalone**

ANT 9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	44/5220.0	802.11a	0.367	-0.38	1.089	0.400	1.6	/
Right Tilt 15 °	44/5220.0	802.11a	0.208	-1.94	1.089	0.227	1.6	/
Left Cheek	44/5220.0	802.11a	0.423	-0.92	1.089	0.461	1.6	Yes
Left Tilt 15 °	44/5220.0	802.11a	0.287	1.55	1.089	0.313	1.6	/
Left Cheek	36/5180.0	802.11a	0.395	2.64	1.059	0.418	1.6	/
Left Cheek	48/5240.0	802.11a	0.319	1.21	1.069	0.341	1.6	/
Body-worn(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	44/5220.0	802.11a	0.171	-0.88	1.089	0.186	1.6	/
Back Upward	44/5220.0	802.11a	0.308	-2.10	1.089	0.335	1.6	Yes
Edge B	44/5220.0	802.11a	0.195	-2.97	1.089	0.212	1.6	/
Back Upward	36/5180.0	802.11a	0.264	-1.37	1.059	0.280	1.6	/
Back Upward	48/5240.0	802.11a	0.205	-0.75	1.069	0.219	1.6	/

**Results overview of WI-FI U-NII 1 802.11n20 MIMO Standalone**

ANT 8+9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	44/5220.0	802.11n20	0.593	-1.20	1.094	0.649	1.6	/
Right Tilt 15 °	44/5220.0	802.11n20	0.389	3.58	1.094	0.426	1.6	/
Left Cheek	44/5220.0	802.11n20	0.510	-2.41	1.094	0.558	1.6	/
Left Tilt 15 °	44/5220.0	802.11n20	0.332	-0.50	1.094	0.363	1.6	/
Right Cheek	36/5180.0	802.11n20	0.651	-0.99	1.183	0.770	1.6	Yes
Right Cheek	48/5240.0	802.11n20	0.550	-3.21	1.096	0.603	1.6	/
Body-worn(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	44/5220.0	802.11n20	0.207	-1.78	1.094	0.226	1.6	/
Back Upward	44/5220.0	802.11n20	0.382	-1.35	1.094	0.418	1.6	/
Edge A	44/5220.0	802.11n20	0.228	-3.73	1.094	0.249	1.6	/
Edge B	44/5220.0	802.11n20	0.304	-0.62	1.094	0.333	1.6	/
Back Upward	36/5180.0	802.11n20	0.449	0.73	1.183	0.531	1.6	Yes
Back Upward	48/5240.0	802.11n20	0.311	-2.69	1.096	0.341	1.6	/

**Results overview of WI-FI U-NII 2A 802.11a Standalone**

ANT 8

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	60/5300.0	802.11a	0.402	-0.90	1.107	0.445	1.6	/
Right Tilt 15 °	60/5300.0	802.11a	0.481	-1.74	1.107	0.532	1.6	/
Left Cheek	60/5300.0	802.11a	0.448	-2.39	1.107	0.496	1.6	/
Left Tilt 15 °	60/5300.0	802.11a	0.518	1.84	1.107	0.573	1.6	Yes
Left Tilt 15 °	52/5260.0	802.11a	0.478	-1.92	1.140	0.545	1.6	/
Left Tilt 15 °	64/5320.0	802.11a	0.501	-1.53	1.140	0.571	1.6	/
Body-worn(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	60/5300.0	802.11a	0.195	-2.93	1.107	0.216	1.6	/
Back Upward	60/5300.0	802.11a	0.254	-1.29	1.107	0.281	1.6	/
Back Upward	52/5260.0	802.11a	0.199	-2.06	1.140	0.227	1.6	/
Back Upward	64/5320.0	802.11a	0.223	0.23	1.140	0.254	1.6	/
Edge A	60/5300.0	802.11a	0.167	-0.92	1.107	0.185	1.6	/
Edge B	60/5300.0	802.11a	0.402	1.89	1.107	0.445	1.6	Yes
Edge B	52/5260.0	802.11a	0.336	-2.37	1.140	0.383	1.6	/
Edge B	64/5320.0	802.11a	0.370	0.70	1.140	0.422	1.6	/

**Results overview of WI-FI U-NII 2A 802.11a Standalone**

ANT 9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	60/5300.0	802.11a	0.519	-0.40	1.076	0.558	1.6	/
Right Tilt 15 °	60/5300.0	802.11a	0.384	-1.20	1.076	0.413	1.6	/
Left Cheek	60/5300.0	802.11a	0.610	-2.84	1.076	0.656	1.6	/
Left Tilt 15 °	60/5300.0	802.11a	0.458	3.12	1.076	0.493	1.6	/
Left Cheek	52/5260.0	802.11a	0.572	-1.12	1.107	0.633	1.6	/
Left Cheek	64/5320.0	802.11a	0.685	-2.91	1.130	0.774	1.6	Yes
Body-worn(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	60/5300.0	802.11a	0.200	-1.33	1.076	0.215	1.6	/
Back Upward	60/5300.0	802.11a	0.382	-0.49	1.076	0.411	1.6	/
Edge B	60/5300.0	802.11a	0.271	-3.52	1.076	0.292	1.6	/
Back Upward	52/5260.0	802.11a	0.348	2.24	1.107	0.385	1.6	/
Back Upward	64/5320.0	802.11a	0.431	-1.35	1.130	0.487	1.6	Yes

**Results overview of WI-FI U-NII 2A 802.11n20 MIMO Standalone**

ANT 8+9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	60/5300.0	802.11n20	0.589	-2.62	1.180	0.695	1.6	/
Right Tilt 15 °	60/5300.0	802.11n20	0.278	2.46	1.180	0.328	1.6	/
Left Cheek	60/5300.0	802.11n20	0.670	-3.92	1.180	0.791	1.6	/
Left Tilt 15 °	60/5300.0	802.11n20	0.339	-1.46	1.180	0.400	1.6	/
Left Cheek	52/5260.0	802.11n20	0.704	3.07	1.074	0.756	1.6	Yes
Left Cheek	64/5320.0	802.11n20	0.615	-2.73	1.081	0.665	1.6	/
Body-worn(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	60/5300.0	802.11n20	0.289	-0.35	1.180	0.341	1.6	/
Back Upward	60/5300.0	802.11n20	0.450	-1.97	1.180	0.531	1.6	/
Edge A	60/5300.0	802.11n20	0.421	-3.42	1.180	0.497	1.6	/
Edge B	60/5300.0	802.11n20	0.334	-1.69	1.180	0.394	1.6	/
Back Upward	52/5260.0	802.11n20	0.482	2.47	1.074	0.518	1.6	Yes
Back Upward	64/5320.0	802.11n20	0.403	-0.63	1.081	0.436	1.6	/

**Results overview of WI-FI U-NII 2C 802.11a Standalone**

ANT 8

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	120/5600.0	802.11a	0.323	-0.97	1.172	0.379	1.6	/
Right Tilt 15 °	120/5600.0	802.11a	0.358	-0.34	1.172	0.420	1.6	/
Left Cheek	120/5600.0	802.11a	0.385	-2.86	1.172	0.451	1.6	/
Left Tilt 15 °	120/5600.0	802.11a	0.422	-1.27	1.172	0.495	1.6	Yes
Left Tilt 15 °	100/5500.0	802.11a	0.431	-3.09	1.107	0.477	1.6	/
Left Tilt 15 °	140/5700.0	802.11a	0.469	-0.11	1.109	0.520	1.6	/
Body-worn(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	120/5600.0	802.11a	0.199	-2.17	1.172	0.233	1.6	/
Front Upward	100/5500.0	802.11a	0.170	-0.99	1.107	0.188	1.6	/
Front Upward	140/5700.0	802.11a	0.215	2.41	1.109	0.238	1.6	/
Back Upward	120/5600.0	802.11a	0.182	-0.68	1.172	0.213	1.6	/
Edge A	120/5600.0	802.11a	0.308	-0.71	1.172	0.361	1.6	/
Edge B	120/5600.0	802.11a	0.229	1.56	1.172	0.268	1.6	/
Edge A	100/5500.0	802.11a	0.315	-0.80	1.107	0.349	1.6	/
Edge A	140/5700.0	802.11a	0.362	0.13	1.109	0.401	1.6	Yes

**Results overview of WI-FI U-NII 2C 802.11a Standalone**

ANT 9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	120/5600.0	802.11a	0.302	-3.74	1.109	0.335	1.6	/
Right Tilt 15 °	120/5600.0	802.11a	0.153	-2.79	1.109	0.170	1.6	/
Left Cheek	120/5600.0	802.11a	0.389	-0.80	1.109	0.431	1.6	Yes
Left Tilt 15 °	120/5600.0	802.11a	0.200	-2.52	1.109	0.222	1.6	/
Left Cheek	100/5500.0	802.11a	0.357	0.62	1.094	0.391	1.6	/
Left Cheek	140/5700.0	802.11a	0.310	-1.32	1.084	0.336	1.6	/
Body-worn(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	120/5600.0	802.11a	0.119	-1.89	1.109	0.132	1.6	/
Back Upward	120/5600.0	802.11a	0.162	-1.98	1.109	0.180	1.6	/
Back Upward	100/5500.0	802.11a	0.144	-0.40	1.094	0.158	1.6	/
Back Upward	140/5700.0	802.11a	0.130	2.48	1.084	0.141	1.6	/
Edge B	120/5600.0	802.11a	0.262	-1.63	1.109	0.291	1.6	Yes
Edge B	100/5500.0	802.11a	0.219	1.08	1.094	0.240	1.6	/
Edge B	140/5700.0	802.11a	0.191	-0.41	1.084	0.207	1.6	/

**Results overview of WI-FI U-NII 2C 802.11n20 MIMO Standalone**

ANT 8+9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	120/5600.0	802.11n20	0.561	-0.35	1.112	0.624	1.6	/
Right Tilt 15 °	120/5600.0	802.11n20	0.291	-2.30	1.112	0.324	1.6	/
Left Cheek	120/5600.0	802.11n20	0.610	-3.62	1.112	0.678	1.6	Yes
Left Tilt 15 °	120/5600.0	802.11n20	0.381	-1.96	1.112	0.424	1.6	/
Left Cheek	100/5500.0	802.11n20	0.589	-0.72	1.094	0.644	1.6	/
Left Cheek	140/5700.0	802.11n20	0.542	1.74	1.119	0.606	1.6	/
Body-worn(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	120/5600.0	802.11n20	0.299	-1.43	1.112	0.332	1.6	/
Back Upward	120/5600.0	802.11n20	0.441	-2.35	1.112	0.490	1.6	Yes
Edge A	120/5600.0	802.11n20	0.331	-0.48	1.112	0.368	1.6	/
Edge B	120/5600.0	802.11n20	0.195	-3.55	1.112	0.217	1.6	/
Back Upward	100/5500.0	802.11n20	0.412	-1.69	1.094	0.451	1.6	/
Back Upward	140/5700.0	802.11n20	0.365	-0.28	1.119	0.408	1.6	/

**Results overview of WI-FI U-NII 3 802.11a Standalone**

ANT 8

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	157/5785.0	802.11a	0.312	-4.40	1.138	0.355	1.6	/
Right Tilt 15 °	157/5785.0	802.11a	0.338	0.90	1.138	0.385	1.6	/
Left Cheek	157/5785.0	802.11a	0.361	-1.45	1.138	0.411	1.6	/
Left Tilt 15 °	157/5785.0	802.11a	0.398	-2.66	1.138	0.453	1.6	/
Left Tilt 15 °	149/5745.0	802.11a	0.415	-1.57	1.119	0.464	1.6	Yes
Left Tilt 15 °	165/5825.0	802.11a	0.362	3.42	1.081	0.391	1.6	/
Body-worn(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	157/5785.0	802.11a	0.123	-0.90	1.138	0.140	1.6	/
Back Upward	157/5785.0	802.11a	0.230	-0.58	1.138	0.262	1.6	/
Back Upward	149/5745.0	802.11a	0.259	-1.12	1.119	0.290	1.6	/
Back Upward	165/5825.0	802.11a	0.192	2.87	1.081	0.208	1.6	/
Edge A	157/5785.0	802.11a	0.377	0.02	1.138	0.429	1.6	/
Edge B	157/5785.0	802.11a	0.095	-4.18	1.138	0.108	1.6	/
Edge A	149/5745.0	802.11a	0.401	-2.88	1.119	0.449	1.6	Yes
Edge A	165/5825.0	802.11a	0.357	1.82	1.081	0.386	1.6	/

**Results overview of WI-FI U-NII 3 802.11a Standalone**

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Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	157/5785.0	802.11a	0.379	-0.85	1.081	0.410	1.6	/
Right Tilt 15 °	157/5785.0	802.11a	0.256	-1.38	1.081	0.277	1.6	/
Left Cheek	157/5785.0	802.11a	0.432	0.62	1.081	0.467	1.6	/
Left Tilt 15 °	157/5785.0	802.11a	0.302	2.35	1.081	0.326	1.6	/
Left Cheek	149/5745.0	802.11a	0.489	-1.79	1.132	0.554	1.6	Yes
Left Cheek	165/5825.0	802.11a	0.411	-3.86	1.064	0.437	1.6	/
Body-worn(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	157/5785.0	802.11a	0.105	0.20	1.081	0.114	1.6	/
Front Upward	149/5745.0	802.11a	0.119	3.82	1.132	0.135	1.6	/
Front Upward	165/5825.0	802.11a	0.097	-4.26	1.064	0.103	1.6	/
Back Upward	157/5785.0	802.11a	0.081	-1.71	1.081	0.088	1.6	/
Edge B	157/5785.0	802.11a	0.289	-1.37	1.081	0.312	1.6	/
Edge B	149/5745.0	802.11a	0.331	-2.45	1.132	0.375	1.6	Yes
Edge B	165/5825.0	802.11a	0.271	-0.16	1.064	0.288	1.6	/

**Results overview of WI-FI U-NII 3 802.11n20 MIMO Standalone**

ANT 8+9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	157/5785.0	802.11n20	0.501	1.55	1.178	0.590	1.6	/
Right Tilt 15 °	157/5785.0	802.11n20	0.262	-2.31	1.178	0.309	1.6	/
Left Cheek	157/5785.0	802.11n20	0.582	-1.74	1.178	0.686	1.6	/
Left Tilt 15 °	157/5785.0	802.11n20	0.310	-2.86	1.178	0.365	1.6	/
Left Cheek	149/5745.0	802.11n20	0.620	-2.03	1.153	0.715	1.6	Yes
Left Cheek	165/5825.0	802.11n20	0.541	0.21	1.159	0.627	1.6	/
Body-worn(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	157/5785.0	802.11n20	0.189	3.62	1.178	0.223	1.6	/
Back Upward	157/5785.0	802.11n20	0.384	-2.97	1.178	0.452	1.6	/
Edge A	157/5785.0	802.11n20	0.239	-1.68	1.178	0.282	1.6	/
Edge B	157/5785.0	802.11n20	0.160	-0.31	1.178	0.188	1.6	/
Back Upward	149/5745.0	802.11n20	0.419	-4.03	1.153	0.483	1.6	Yes
Back Upward	165/5825.0	802.11n20	0.352	-3.24	1.159	0.408	1.6	/

**Results overview of WI-FI U-NII 1 802.11a Simultaneous Transmissions**

ANT 8

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek Receiver on	44/5220.0	802.11a	0.122	0.91	1.084	0.132	1.6	/
Right Tilt 15 ° Receiver on	44/5220.0	802.11a	0.131	0.37	1.084	0.142	1.6	/
Left Cheek Receiver on	44/5220.0	802.11a	0.142	-3.90	1.084	0.154	1.6	/
Left Tilt 15 ° Receiver on	44/5220.0	802.11a	0.162	-0.67	1.084	0.176	1.6	/
Left Tilt 15 ° Receiver on	36/5180.0	802.11a	0.170	-3.81	1.079	0.183	1.6	Yes
Left Tilt 15 ° Receiver on	48/5240.0	802.11a	0.155	0.19	1.096	0.170	1.6	/
Body-worn(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 Sensor on	44/5220.0	802.11a	0.101	-3.53	1.084	0.109	1.6	/
Back Upward Sensor on	44/5220.0	802.11a	0.094	-1.29	1.084	0.102	1.6	/
Edge A Sensor on	44/5220.0	802.11a	0.097	-3.88	1.084	0.105	1.6	/
Edge B Sensor on	44/5220.0	802.11a	0.088	0.95	1.084	0.095	1.6	/
Front Upward Sensor on	36/5180.0	802.11a	0.108	-1.61	1.079	0.117	1.6	Yes
Front Upward Sensor on	48/5240.0	802.11a	0.094	-2.40	1.096	0.103	1.6	/

**Results overview of WI-FI U-NII 1 802.11a Simultaneous Transmissions**

ANT 9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek Receiver on	44/5220.0	802.11a	0.112	3.79	1.086	0.122	1.6	/
Right Tilt 15 ° Receiver on	44/5220.0	802.11a	0.088	-0.24	1.086	0.096	1.6	/
Left Cheek Receiver on	44/5220.0	802.11a	0.130	0.20	1.086	0.141	1.6	/
Left Tilt 15 ° Receiver on	44/5220.0	802.11a	0.095	3.47	1.086	0.103	1.6	/
Left Cheek Receiver on	36/5180.0	802.11a	0.142	1.30	1.069	0.152	1.6	Yes
Left Cheek Receiver on	48/5240.0	802.11a	0.117	2.51	1.112	0.130	1.6	/
Body-worn(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 Sensor on	44/5220.0	802.11a	0.061	-4.68	1.086	0.066	1.6	/
Back Upward Sensor on	44/5220.0	802.11a	0.091	-0.41	1.086	0.099	1.6	/
Edge B Sensor on	44/5220.0	802.11a	0.062	-3.02	1.086	0.067	1.6	/
Back Upward Sensor on	36/5180.0	802.11a	0.102	-1.41	1.069	0.109	1.6	Yes
Back Upward Sensor on	48/5240.0	802.11a	0.089	1.45	1.112	0.099	1.6	/

**Results overview of WI-FI U-NII 1 802.11n20 MIMO Simultaneous Transmissions**

ANT 8+9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek Receiver on	44/5220.0	802.11n20	0.172	-1.26	1.138	0.196	1.6	/
Right Tilt 15 ° Receiver on	44/5220.0	802.11n20	0.111	2.69	1.138	0.126	1.6	/
Left Cheek Receiver on	44/5220.0	802.11n20	0.159	-0.66	1.138	0.181	1.6	/
Left Tilt 15 ° Receiver on	44/5220.0	802.11n20	0.095	-4.39	1.138	0.108	1.6	/
Right Cheek Receiver on	36/5180.0	802.11n20	0.136	-0.26	1.091	0.148	1.6	/
Right Cheek Receiver on	48/5240.0	802.11n20	0.193	-1.18	1.169	0.226	1.6	Yes
Body-worn(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 Sensor on	44/5220.0	802.11n20	0.055	-4.35	1.138	0.063	1.6	/
Back Upward Sensor on	44/5220.0	802.11n20	0.080	-1.84	1.138	0.091	1.6	/
Edge A Sensor on	44/5220.0	802.11n20	0.059	-2.65	1.138	0.067	1.6	/
Edge B Sensor on	44/5220.0	802.11n20	0.065	-3.85	1.138	0.074	1.6	/
Back Upward Sensor on	36/5180.0	802.11n20	0.076	-0.56	1.091	0.083	1.6	/
Back Upward Sensor on	48/5240.0	802.11n20	0.088	-0.35	1.169	0.103	1.6	Yes

**Results overview of WI-FI U-NII 2A 802.11a Simultaneous Transmissions**

ANT 8

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek Receiver on	60/5300.0	802.11a	0.109	-1.63	1.069	0.117	1.6	/
Right Tilt 15 ° Receiver on	60/5300.0	802.11a	0.115	-2.34	1.069	0.123	1.6	/
Left Cheek Receiver on	60/5300.0	802.11a	0.137	-1.27	1.069	0.146	1.6	/
Left Tilt 15 ° Receiver on	60/5300.0	802.11a	0.141	-0.82	1.069	0.151	1.6	Yes
Left Tilt 15 ° Receiver on	52/5260.0	802.11a	0.132	-1.76	1.130	0.149	1.6	/
Left Tilt 15 ° Receiver on	64/5320.0	802.11a	0.129	-4.21	1.119	0.144	1.6	/
Body-worn(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 Sensor on	60/5300.0	802.11a	0.053	3.64	1.069	0.057	1.6	/
Back Upward Sensor on	60/5300.0	802.11a	0.068	-4.27	1.069	0.073	1.6	/
Back Upward Sensor on	52/5260.0	802.11a	0.062	-0.93	1.130	0.070	1.6	/
Back Upward Sensor on	64/5320.0	802.11a	0.059	-1.80	1.119	0.066	1.6	/
Edge A Sensor on	60/5300.0	802.11a	0.050	-1.09	1.069	0.053	1.6	/
Edge B Sensor on	60/5300.0	802.11a	0.075	-2.17	1.069	0.080	1.6	Yes
Edge B Sensor on	52/5260.0	802.11a	0.070	-2.92	1.130	0.079	1.6	/
Edge B Sensor on	64/5320.0	802.11a	0.065	-0.87	1.119	0.073	1.6	/

**Results overview of WI-FI U-NII 2A 802.11a Simultaneous Transmissions**

ANT 9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek Receiver on	60/5300.0	802.11a	0.096	-3.36	1.119	0.107	1.6	/
Right Tilt 15 ° Receiver on	60/5300.0	802.11a	0.063	-1.24	1.119	0.070	1.6	/
Left Cheek Receiver on	60/5300.0	802.11a	0.139	-2.26	1.119	0.156	1.6	/
Left Tilt 15 ° Receiver on	60/5300.0	802.11a	0.078	-1.56	1.119	0.087	1.6	/
Left Cheek Receiver on	52/5260.0	802.11a	0.142	-2.76	1.159	0.165	1.6	/
Left Cheek Receiver on	64/5320.0	802.11a	0.157	0.50	1.099	0.173	1.6	Yes
Body-worn(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 Sensor on	60/5300.0	802.11a	0.029	-4.36	1.119	0.032	1.6	/
Back Upward Sensor on	60/5300.0	802.11a	0.053	3.04	1.119	0.059	1.6	/
Edge B Sensor on	60/5300.0	802.11a	0.036	-2.00	1.119	0.040	1.6	/
Back Upward Sensor on	52/5260.0	802.11a	0.057	-1.57	1.159	0.066	1.6	/
Back Upward Sensor on	64/5320.0	802.11a	0.063	-3.07	1.099	0.069	1.6	Yes

**Results overview of WI-FI U-NII 2A 802.11n20 MIMO Simultaneous Transmissions**

ANT 8+9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek Receiver on	60/5300.0	802.11n20	0.194	-1.67	1.175	0.228	1.6	/
Right Tilt 15 ° Receiver on	60/5300.0	802.11n20	0.108	0.71	1.175	0.127	1.6	/
Left Cheek Receiver on	60/5300.0	802.11n20	0.211	-1.15	1.175	0.248	1.6	/
Left Tilt 15 ° Receiver on	60/5300.0	802.11n20	0.115	-0.40	1.175	0.135	1.6	/
Left Cheek Receiver on	52/5260.0	802.11n20	0.224	-0.74	1.069	0.239	1.6	Yes
Left Cheek Receiver on	64/5320.0	802.11n20	0.194	-1.62	1.084	0.210	1.6	/
Body-worn(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 Sensor on	60/5300.0	802.11n20	0.056	-0.06	1.175	0.066	1.6	/
Back Upward Sensor on	60/5300.0	802.11n20	0.079	-0.90	1.175	0.093	1.6	/
Edge A Sensor on	60/5300.0	802.11n20	0.071	-2.71	1.175	0.083	1.6	/
Edge B Sensor on	60/5300.0	802.11n20	0.063	-0.72	1.175	0.074	1.6	/
Back Upward Sensor on	52/5260.0	802.11n20	0.086	0.80	1.069	0.092	1.6	Yes
Back Upward Sensor on	64/5320.0	802.11n20	0.073	-3.23	1.084	0.079	1.6	/

**Results overview of WI-FI U-NII 2C 802.11a Simultaneous Transmissions**

ANT 8

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek Receiver on	120/5600.0	802.11a	0.106	-4.63	1.164	0.123	1.6	/
Right Tilt 15 ° Receiver on	120/5600.0	802.11a	0.117	-1.42	1.164	0.136	1.6	/
Left Cheek Receiver on	120/5600.0	802.11a	0.124	-2.78	1.164	0.144	1.6	/
Left Tilt 15 ° Receiver on	120/5600.0	802.11a	0.138	-1.63	1.164	0.161	1.6	Yes
Left Tilt 15 ° Receiver on	100/5500.0	802.11a	0.126	-3.18	1.186	0.149	1.6	/
Left Tilt 15 ° Receiver on	140/5700.0	802.11a	0.149	0.80	1.146	0.171	1.6	/
Body-worn(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 Sensor on	120/5600.0	802.11a	0.049	-4.80	1.164	0.057	1.6	/
Front Upward Sensor on	100/5500.0	802.11a	0.045	-2.21	1.186	0.053	1.6	/
Front Upward Sensor on	140/5700.0	802.11a	0.056	-0.20	1.146	0.064	1.6	/
Back Upward Sensor on	120/5600.0	802.11a	0.046	-0.58	1.164	0.054	1.6	/
Edge A Sensor on	120/5600.0	802.11a	0.068	-3.70	1.164	0.079	1.6	/
Edge B Sensor on	120/5600.0	802.11a	0.054	-1.20	1.164	0.063	1.6	/
Edge A Sensor on	100/5500.0	802.11a	0.061	2.85	1.186	0.072	1.6	/
Edge A Sensor on	140/5700.0	802.11a	0.075	-1.69	1.146	0.086	1.6	Yes

**Results overview of WI-FI U-NII 2C 802.11a Simultaneous Transmissions**

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Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek Receiver on	120/5600.0	802.11a	0.097	-4.36	1.064	0.103	1.6	/
Right Tilt 15 ° Receiver on	120/5600.0	802.11a	0.056	-1.49	1.064	0.060	1.6	/
Left Cheek Receiver on	120/5600.0	802.11a	0.122	-0.60	1.064	0.130	1.6	Yes
Left Tilt 15 ° Receiver on	120/5600.0	802.11a	0.068	-2.75	1.064	0.072	1.6	/
Left Cheek Receiver on	100/5500.0	802.11a	0.112	-1.77	1.172	0.131	1.6	/
Left Cheek Receiver on	140/5700.0	802.11a	0.117	2.01	1.146	0.134	1.6	/
Body-worn(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 Sensor on	120/5600.0	802.11a	0.024	-3.41	1.064	0.026	1.6	/
Back Upward Sensor on	120/5600.0	802.11a	0.037	-1.22	1.064	0.039	1.6	/
Back Upward Sensor on	100/5500.0	802.11a	0.032	-0.92	1.172	0.038	1.6	/
Back Upward Sensor on	140/5700.0	802.11a	0.035	-0.81	1.146	0.040	1.6	/
Edge B Sensor on	120/5600.0	802.11a	0.049	-0.56	1.064	0.052	1.6	Yes
Edge B Sensor on	100/5500.0	802.11a	0.045	-3.65	1.172	0.053	1.6	/
Edge B Sensor on	140/5700.0	802.11a	0.047	0.60	1.146	0.054	1.6	/

**Results overview of WI-FI U-NII 2C 802.11n20 MIMO Simultaneous Transmissions**

ANT 8+9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek Receiver on	120/5600.0	802.11n20	0.176	-2.67	1.096	0.193	1.6	/
Right Tilt 15 ° Receiver on	120/5600.0	802.11n20	0.122	1.41	1.096	0.134	1.6	/
Left Cheek Receiver on	120/5600.0	802.11n20	0.190	-0.26	1.096	0.208	1.6	/
Left Tilt 15 ° Receiver on	120/5600.0	802.11n20	0.130	-3.17	1.096	0.142	1.6	/
Left Cheek Receiver on	100/5500.0	802.11n20	0.216	-4.10	1.081	0.233	1.6	Yes
Left Cheek Receiver on	140/5700.0	802.11n20	0.179	1.06	1.089	0.195	1.6	/
Body-worn(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 Sensor on	120/5600.0	802.11n20	0.052	-1.26	1.096	0.057	1.6	/
Back Upward Sensor on	120/5600.0	802.11n20	0.074	-1.39	1.096	0.081	1.6	/
Edge A Sensor on	120/5600.0	802.11n20	0.063	-3.08	1.096	0.069	1.6	/
Edge B Sensor on	120/5600.0	802.11n20	0.041	-2.57	1.096	0.045	1.6	/
Back Upward Sensor on	100/5500.0	802.11n20	0.081	0.56	1.081	0.088	1.6	Yes
Back Upward Sensor on	140/5700.0	802.11n20	0.069	-3.62	1.089	0.075	1.6	/

**Results overview of WI-FI U-NII 3 802.11a Simultaneous Transmissions**

ANT 8

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek Receiver on	157/5785.0	802.11a	0.096	3.68	1.186	0.114	1.6	/
Right Tilt 15 ° Receiver on	157/5785.0	802.11a	0.107	-4.32	1.186	0.127	1.6	/
Left Cheek Receiver on	157/5785.0	802.11a	0.112	-3.71	1.186	0.133	1.6	/
Left Tilt 15 ° Receiver on	157/5785.0	802.11a	0.133	0.28	1.186	0.158	1.6	/
Left Tilt 15 ° Receiver on	149/5745.0	802.11a	0.159	-3.81	1.178	0.187	1.6	Yes
Left Tilt 15 ° Receiver on	165/5825.0	802.11a	0.122	-0.19	1.076	0.131	1.6	/
Body-worn(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 Sensor on	157/5785.0	802.11a	0.034	-4.05	1.186	0.040	1.6	/
Back Upward Sensor on	157/5785.0	802.11a	0.053	-0.24	1.186	0.063	1.6	/
Back Upward Sensor on	149/5745.0	802.11a	0.061	1.12	1.178	0.072	1.6	/
Back Upward Sensor on	165/5825.0	802.11a	0.047	-0.97	1.076	0.051	1.6	/
Edge A Sensor on	157/5785.0	802.11a	0.087	-1.53	1.186	0.103	1.6	/
Edge B Sensor on	157/5785.0	802.11a	0.029	-0.72	1.186	0.034	1.6	/
Edge A Sensor on	149/5745.0	802.11a	0.096	0.49	1.178	0.113	1.6	Yes
Edge A Sensor on	165/5825.0	802.11a	0.078	-2.51	1.076	0.084	1.6	/

**Results overview of WI-FI U-NII 3 802.11a Simultaneous Transmissions**

ANT 9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek Receiver on	157/5785.0	802.11a	0.144	4.32	1.096	0.158	1.6	/
Right Tilt 15 ° Receiver on	157/5785.0	802.11a	0.102	1.71	1.096	0.112	1.6	/
Left Cheek Receiver on	157/5785.0	802.11a	0.164	0.88	1.096	0.180	1.6	Yes
Left Tilt 15 ° Receiver on	157/5785.0	802.11a	0.120	-1.67	1.096	0.132	1.6	/
Left Cheek Receiver on	149/5745.0	802.11a	0.155	-1.63	1.081	0.168	1.6	/
Left Cheek Receiver on	165/5825.0	802.11a	0.143	1.30	1.089	0.156	1.6	/
Body-worn(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 Sensor on	157/5785.0	802.11a	0.032	-2.48	1.096	0.035	1.6	/
Front Upward Sensor on	149/5745.0	802.11a	0.037	-1.50	1.081	0.040	1.6	/
Front Upward Sensor on	165/5825.0	802.11a	0.030	-0.96	1.089	0.033	1.6	/
Back Upward Sensor on	157/5785.0	802.11a	0.021	-3.57	1.096	0.023	1.6	/
Edge B Sensor on	157/5785.0	802.11a	0.071	1.29	1.096	0.078	1.6	/
Edge B Sensor on	149/5745.0	802.11a	0.079	0.99	1.081	0.085	1.6	Yes
Edge B Sensor on	165/5825.0	802.11a	0.067	-2.03	1.089	0.073	1.6	/

**Results overview of WI-FI U-NII 3 802.11n20 MIMO Simultaneous Transmissions**

ANT 8+9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek Receiver on	157/5785.0	802.11n20	0.188	-3.28	1.079	0.203	1.6	/
Right Tilt 15 ° Receiver on	157/5785.0	802.11n20	0.106	-0.21	1.079	0.114	1.6	/
Left Cheek Receiver on	157/5785.0	802.11n20	0.235	-4.54	1.079	0.254	1.6	Yes
Left Tilt 15 ° Receiver on	157/5785.0	802.11n20	0.137	-2.15	1.079	0.148	1.6	/
Left Cheek Receiver on	149/5745.0	802.11n20	0.217	-3.32	1.180	0.256	1.6	/
Left Cheek Receiver on	165/5825.0	802.11n20	0.192	-0.73	1.130	0.217	1.6	/
Body-worn(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 Sensor on	157/5785.0	802.11n20	0.040	-2.62	1.079	0.043	1.6	/
Back Upward Sensor on	157/5785.0	802.11n20	0.069	-3.27	1.079	0.074	1.6	Yes
Edge A Sensor on	157/5785.0	802.11n20	0.043	-0.99	1.079	0.046	1.6	/
Edge B Sensor on	157/5785.0	802.11n20	0.026	-0.67	1.079	0.028	1.6	/
Back Upward Sensor on	149/5745.0	802.11n20	0.060	-0.07	1.180	0.071	1.6	/
Back Upward Sensor on	165/5825.0	802.11n20	0.055	1.02	1.130	0.062	1.6	/

Results overview of Bluetooth

ANT 9

Test Position of Head	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Right Cheek	39/2441.0	DH5	0.091	-3.34	1.164	0.106	1.6	/
Right Tilt 15 °	39/2441.0	DH5	0.065	2.93	1.164	0.076	1.6	/
Left Cheek	39/2441.0	DH5	0.125	-2.71	1.164	0.146	1.6	Yes
Left Tilt 15 °	39/2441.0	DH5	0.077	-0.98	1.164	0.090	1.6	/
Right Cheek	0/2402.0	DH5	0.107	-1.99	1.143	0.122	1.6	/
Right Cheek	78/2480.0	DH5	0.089	-3.34	1.135	0.101	1.6	/
Body-worn(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	39/2441.0	DH5	0.079	-3.93	1.164	0.092	1.6	/
Back Upward	39/2441.0	DH5	0.067	1.88	1.164	0.078	1.6	/
Edge B	39/2441.0	DH5	0.108	-1.82	1.164	0.126	1.6	Yes
Edge B	0/2402.0	DH5	0.090	-4.65	1.143	0.103	1.6	/
Edge B	78/2480.0	DH5	0.072	2.74	1.135	0.082	1.6	/

Note:

1. Per KDB941225 D06 v02r01, When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested. As the manufacture requirement the separation distance use 10mm for Hotspot mode.

2. Per KDB Publication 941225 D01v03r01. RMC 12.2kbps was as primary mode SAR, when the primary mode SAR less than 1.2W/kg, secondary SAR (HSPA) was not requires.

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

5. Highlight part of test data means repeated test.

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 2.4GHz SISO/MIMO	Support	Support	Support
2	WWAN + WLAN 5GHz SISO/MIMO	Support	Support	Support
3	WWAN + WLAN 2.4GHz SISO + WLAN 5GHz SISO	Support	Support	Support
4	WWAN + WLAN 2.4GHz SISO + WLAN 5GHz MIMO	Support	Support	Support
5	WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz SISO	Support	Support	Support
6	WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz MIMO	Support	Support	Support
7	WWAN+ Bluetooth	Support	Support	Support
8	WWAN + WLAN 2.4GHz SISO/MIMO + Bluetooth	Support	Support	Support
9	WWAN + WLAN 5GHz SISO/MIMO + Bluetooth	Support	Support	Support
10	WWAN + WLAN 2.4GHz SISO + WLAN 5GHz SISO + Bluetooth	Support	Support	Support
11	WWAN + WLAN 2.4GHz SISO + WLAN 5GHz MIMO + Bluetooth	Support	Support	Support
12	WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz SISO + Bluetooth	Support	Support	Support
13	WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz MIMO + Bluetooth	Support	Support	Support

Note:

1. The NR band and EN-DC mode base on FTM mode, setting the NR Band at The most conservative full power to test.
2. EUT will choose each GSM, WCDMA, LTE and 5GNR(SA&NSA) according to the network signal condition; therefore, they will not operate simultaneously at any moment.
3. The reported SAR summation is calculated based on the same configuration and test position.

**5G NR ENDC**

Position		Standalone SAR(W/kg)		Σ SAR1g (W/kg)
		LTE Band 5 ANT1	NR n78 SA ANT5	5G NR DC_5A_n78
Head	Right Cheek	0.471	0.267	0.738
	Right Tilted	0.238	0.176	0.414
	Left Cheek	0.434	0.222	0.656
	Left Tilted	0.217	0.134	0.351
Body- worn	Front	0.927	0.132	1.059
	Back	0.714	0.424	1.138
Hotspot	Front	0.927	0.132	1.059
	Back	0.714	0.424	1.138
	Edge A	/	0.140	0.140
	Edge B	0.215	/	0.215
	Edge C	0.318	/	0.318
	Edge D	/	0.964	0.964

Position		Standalone SAR(W/kg)		Σ SAR1g (W/kg)
		LTE Band 5 ANT1	NR n78 SA ANT11	5G NR DC_5A_n78
Head	Right Cheek	0.471	0.134	0.605
	Right Tilted	0.238	0.098	0.336
	Left Cheek	0.434	0.162	0.596
	Left Tilted	0.217	0.119	0.336
Body- worn	Front	0.927	0.091	1.018
	Back	0.714	0.137	0.851
Hotspot	Front	0.927	0.091	1.018
	Back	0.714	0.137	0.851
	Edge A	/	0.196	0.196
	Edge B	0.215	/	0.215
	Edge C	0.318	/	0.318
	Edge D	/	0.784	0.784



Position 1gSAR(W/kg)		Wi-Fi 5G U-NII-1			Wi-Fi 5G U-NII-2A			Wi-Fi 5G U-NII-2C		
		Ant8	Ant9	MIMO	Ant8	Ant9	MIMO	Ant8	Ant9	MIMO
Head	Right Cheek	0.131	0.128	0.221	0.119	0.110	0.230	0.125	0.110	0.191
	Right Tilted	0.140	0.100	0.127	0.125	0.073	0.128	0.137	0.063	0.132
	Left Cheek	0.152	0.168	0.183	0.149	0.169	0.250	0.146	0.138	0.241
	Left Tilted	0.197	0.108	0.109	0.154	0.090	0.136	0.162	0.077	0.141
Body- worn	Front	0.125	0.070	0.063	0.058	0.033	0.063	0.060	0.027	0.056
	Back	0.101	0.121	0.101	0.074	0.068	0.093	0.049	0.042	0.090
Hotspot	Front	/	/	/	/	/	/	/	/	/
	Back	/	/	/	/	/	/	/	/	/
	Edge A	/	/	/	/	/	/	/	/	/
	Edge B	/	/	/	/	/	/	/	/	/
	Edge C	/	/	/	/	/	/	/	/	/
	Edge D	/	/	/	/	/	/	/	/	/

Position 1gSAR(W/kg)		Wi-Fi 5G U-NII-3			MAX WIFI 5G		
		Ant8	Ant9	MIMO	Ant8	Ant9	MIMO
Head	Right Cheek	0.102	0.155	0.207	0.131	0.155	0.230
	Right Tilted	0.114	0.110	0.116	0.140	0.110	0.132
	Left Cheek	0.120	0.177	0.258	0.152	0.177	0.258
	Left Tilted	0.184	0.129	0.151	0.197	0.129	0.151
Body- worn	Front	0.036	0.042	0.044	0.125	0.070	0.063
	Back	0.071	0.023	0.076	0.101	0.121	0.101
Hotspot	Front	/	/	/	/	/	/
	Back	/	/	/	/	/	/
	Edge A	/	/	/	/	/	/
	Edge B	/	/	/	/	/	/
	Edge C	/	/	/	/	/	/
	Edge D	/	/	/	/	/	/



Position 1gSAR(W/kg)		MAX WIFI 2.4G			MAX WIFI 5G			BT
		ANT 7	ANT 9	MIMO	ANT 8	ANT 9	MIMO	ANT 9
		1	2	3	4	5	6	7
Head	Right Cheek	0.214	0.192	0.126	0.131	0.155	0.230	0.106
	Right Tilted	0.193	0.144	0.096	0.140	0.110	0.132	0.076
	Left Cheek	0.165	0.263	0.254	0.152	0.177	0.258	0.146
	Left Tilted	0.132	0.200	0.201	0.197	0.129	0.151	0.090
Body- worn	Front	0.051	0.092	0.087	0.125	0.070	0.063	0.092
	Back	0.076	0.062	0.051	0.101	0.121	0.101	0.078
Hotspot	Front	0.051	0.088	0.080	/	/	/	/
	Back	0.076	0.062	0.051	/	/	/	/
	Edge A	0.176	/	0.092	/	/	/	/
	Edge B	0.114	0.253	0.036	/	/	/	/
	Edge C	/	/	/	/	/	/	/
	Edge D	/	/	/	/	/	/	/

Position 1gSAR(W/kg)		Summed							
		1+2	1+4	1+5	1+6	1+7	2+4	2+5	2+6
Head	Right Cheek	0.406	0.345	0.369	0.444	0.320	0.323	0.347	0.422
	Right Tilted	0.337	0.333	0.303	0.325	0.269	0.284	0.254	0.276
	Left Cheek	0.428	0.317	0.342	0.423	0.311	0.415	0.440	0.521
	Left Tilted	0.332	0.329	0.261	0.283	0.222	0.397	0.329	0.351
Body- worn	Front	0.143	0.176	0.121	0.114	0.143	0.217	0.162	0.155
	Back	0.138	0.177	0.197	0.177	0.154	0.163	0.183	0.163
Hotspot	Front	0.139	0.051	0.051	0.051	0.051	0.088	0.088	0.088
	Back	0.138	0.076	0.076	0.076	0.076	0.062	0.062	0.062
	Edge A	0.176	0.176	0.176	0.176	0.176	/	/	/
	Edge B	0.367	0.114	0.114	0.114	0.114	0.253	0.253	0.253
	Edge C	/	/	/	/	/	/	/	/
	Edge D	/	/	/	/	/	/	/	/



Position 1gSAR(W/kg)		Summed							
		2+7	3+4	3+5	3+6	3+7	4+5	4+7	5+7
Head	Right Cheek	0.298	0.257	0.281	0.356	0.232	0.286	0.237	0.261
	Right Tilted	0.220	0.236	0.206	0.228	0.172	0.250	0.216	0.186
	Left Cheek	0.409	0.406	0.431	0.512	0.400	0.329	0.298	0.323
	Left Tilted	0.290	0.398	0.330	0.352	0.291	0.326	0.287	0.219
Body-worn	Front	0.184	0.212	0.157	0.150	0.179	0.195	0.217	0.162
	Back	0.140	0.152	0.172	0.152	0.129	0.222	0.179	0.199
Hotspot	Front	0.088	0.080	0.080	0.080	0.080	/	/	/
	Back	0.062	0.051	0.051	0.051	0.051	/	/	/
	Edge A	/	0.092	0.092	0.092	0.092	/	/	/
	Edge B	0.253	0.036	0.036	0.036	0.036	/	/	/
	Edge C	/	/	/	/	/	/	/	/
	Edge D	/	/	/	/	/	/	/	/

Position 1gSAR(W/kg)		Summed							
		6+7	1+2+7	1+4+7	1+5+7	1+6+7	2+4+7	2+5+7	2+6+7
Head	Right Cheek	0.336	0.512	0.451	0.475	0.550	0.429	0.453	0.528
	Right Tilted	0.208	0.413	0.409	0.379	0.401	0.360	0.330	0.352
	Left Cheek	0.404	0.574	0.463	0.488	0.569	0.561	0.586	0.667
	Left Tilted	0.241	0.422	0.419	0.351	0.373	0.487	0.419	0.441
Body-worn	Front	0.155	0.235	0.268	0.213	0.206	0.309	0.254	0.247
	Back	0.179	0.216	0.255	0.275	0.255	0.241	0.261	0.241
Hotspot	Front	/	0.139	0.051	0.051	0.051	0.088	0.088	0.088
	Back	/	0.138	0.076	0.076	0.076	0.062	0.062	0.062
	Edge A	/	0.176	0.176	0.176	0.176	/	/	/
	Edge B	/	0.367	0.114	0.114	0.114	0.253	0.253	0.253
	Edge C	/	/	/	/	/	/	/	/
	Edge D	/	/	/	/	/	/	/	/



Position 1gSAR(W/kg)		Summed							
		3+4+7	3+5+7	3+6+7	4+5+7	1+2+4+5	1+2+4+7	1+2+5+7	1+4+5+7
Head	Right Cheek	0.363	0.387	0.462	0.392	0.692	0.643	0.667	0.606
	Right Tilted	0.312	0.282	0.304	0.326	0.587	0.553	0.523	0.519
	Left Cheek	0.552	0.577	0.658	0.475	0.757	0.726	0.751	0.640
	Left Tilted	0.488	0.420	0.442	0.416	0.658	0.619	0.551	0.548
Body-worn	Front	0.304	0.249	0.242	0.287	0.338	0.360	0.305	0.338
	Back	0.230	0.250	0.230	0.300	0.360	0.317	0.337	0.376
Hotspot	Front	0.080	0.080	0.080	/	0.139	0.139	0.139	0.051
	Back	0.051	0.051	0.051	/	0.138	0.138	0.138	0.076
	Edge A	0.092	0.092	0.092	/	0.176	0.176	0.176	0.176
	Edge B	0.036	0.036	0.036	0.000	0.367	0.367	0.367	0.114
	Edge C	/	/	/	/	/	/	/	/
	Edge D	/	/	/	/	/	/	/	/

Position 1gSAR(W/kg)		Summed		Max WIFI and BT Simultaneous SAR
		2+4+5+7	1+2+4+5+7	
Head	Right Cheek	0.584	0.798	0.798
	Right Tilted	0.470	0.663	0.663
	Left Cheek	0.738	0.903	0.903
	Left Tilted	0.616	0.748	0.748
Body-worn	Front	0.379	0.430	0.430
	Back	0.362	0.438	0.438
Hotspot	Front	0.088	0.139	0.139
	Back	0.062	0.138	0.138
	Edge A	/	0.176	0.176
	Edge B	0.253	0.367	0.367
	Edge C	/	/	/
	Edge D	/	/	/



Simultaneous Tx Combination of GSM/WCDMA/LTE and BT/WIFI

Band	Position 1gSAR(W/kg)		Stand-alone SAR		SUM SAR (1+2)
			1	2	
			WWAN	Max WIFI and BT Simultaneous SAR	
GSM850 ANT 1	Head 0mm distance	Right Cheek	0.263	0.798	1.061
		Right Tilted	0.125	0.663	0.788
		Left Cheek	0.303	0.903	1.206
		Left Tilted	0.129	0.748	0.877
	Body-worn 10mm distance	Front	0.611	0.430	1.041
		Back	0.476	0.438	0.914
	Hotspot 10mm distance	Front	0.611	0.139	0.750
		Back	0.476	0.138	0.614
		Edge A	/	0.176	0.176
		Edge B	0.176	0.367	0.543
		Edge C	0.328	/	0.328
		Edge D	/	/	/
GSM 1900 ANT 2	Head 0mm distance	Right Cheek	0.112	0.798	0.910
		Right Tilted	0.038	0.663	0.701
		Left Cheek	0.145	0.903	1.048
		Left Tilted	0.052	0.748	0.800
	Body-worn 10mm distance	Front	0.426	0.430	0.856
		Back	0.354	0.438	0.792
	Hotspot 10mm distance	Front	0.386	0.139	0.525
		Back	0.354	0.138	0.492
		Edge A	/	0.176	0.176
		Edge B	/	0.367	0.367
		Edge C	0.547	/	0.547
		Edge D	0.092	/	0.092
GSM 1900 ANT 4	Head 0mm distance	Right Cheek	1.023	0.798	1.821
		Right Tilted	0.578	0.663	1.241
		Left Cheek	1.174	0.903	2.077
		Left Tilted	0.694	0.748	1.442
	Body-worn 10mm distance	Front	0.346	0.430	0.776
		Back	0.227	0.438	0.665
	Hotspot 10mm distance	Front	0.282	0.139	0.421
		Back	0.227	0.138	0.365
		Edge A	0.664	0.176	0.840



		Edge B	/	0.367	0.367
		Edge C	/	/	/
		Edge D	0.110	/	0.110
CDMA BC 0 ANT 4	Head 0mm distance	Right Cheek	0.318	0.798	1.116
		Right Tilted	0.123	0.663	0.786
		Left Cheek	0.227	0.903	1.130
		Left Tilted	0.107	0.748	0.855
	Body-worn 10mm distance	Front	0.727	0.430	1.157
		Back	0.635	0.438	1.073
	Hotspot 10mm distance	Front	0.727	0.139	0.866
		Back	0.635	0.138	0.773
		Edge A	/	0.176	0.176
		Edge B	0.293	0.367	0.660
		Edge C	0.467	/	0.467
		Edge D	/	/	/
WCDMA Band V ANT 1	Head 0mm distance	Right Cheek	0.337	0.798	1.135
		Right Tilted	0.147	0.663	0.810
		Left Cheek	0.421	0.903	1.324
		Left Tilted	0.159	0.748	0.907
	Body-worn 10mm distance	Front	0.877	0.430	1.307
		Back	0.610	0.438	1.048
	Hotspot 10mm distance	Front	0.877	0.139	1.016
		Back	0.610	0.138	0.748
		Edge A	/	0.176	0.176
		Edge B	0.223	0.367	0.590
		Edge C	0.484	/	0.484
		Edge D	/	/	/
WCDMA Band IV ANT 2	Head 0mm distance	Right Cheek	0.096	0.798	0.894
		Right Tilted	0.039	0.663	0.702
		Left Cheek	0.138	0.903	1.041
		Left Tilted	0.046	0.748	0.794
	Body-worn 10mm distance	Front	0.424	0.430	0.854
		Back	0.294	0.438	0.732
	Hotspot 10mm distance	Front	0.345	0.139	0.484
		Back	0.294	0.138	0.432
		Edge A	/	0.176	0.176
		Edge B	/	0.367	0.367
		Edge C	0.631	/	0.631
		Edge D	0.100	/	0.100
WCDMA Band	Head	Right Cheek	1.202	0.798	2.000



IV ANT 4	0mm distance	Right Tilted	0.591	0.663	1.254
		Left Cheek	0.748	0.903	1.651
		Left Tilted	0.432	0.748	1.180
	Body-worn 10mm distance	Front	0.608	0.430	1.038
		Back	0.246	0.438	0.684
	Hotspot 10mm distance	Front	0.581	0.139	0.720
		Back	0.246	0.138	0.384
		Edge A	0.843	0.176	1.019
		Edge B	/	0.367	0.367
		Edge C	/	/	/
		Edge D	0.111	/	0.111
WCDMA Band II ANT 2	Head 0mm distance	Right Cheek	0.122	0.798	0.920
		Right Tilted	0.047	0.663	0.710
		Left Cheek	0.197	0.903	1.100
		Left Tilted	0.064	0.748	0.812
	Body-worn 10mm distance	Front	0.581	0.430	1.011
		Back	0.480	0.438	0.918
	Hotspot 10mm distance	Front	0.580	0.139	0.719
		Back	0.480	0.138	0.618
		Edge A	/	0.176	0.176
		Edge B	/	0.367	0.367
		Edge C	0.951	/	0.951
		Edge D	0.130	/	0.130
WCDMA Band II ANT 4	Head 0mm distance	Right Cheek	0.620	0.798	1.418
		Right Tilted	0.474	0.663	1.137
		Left Cheek	0.906	0.903	1.809
		Left Tilted	0.563	0.748	1.311
	Body-worn 10mm distance	Front	0.392	0.430	0.822
		Back	0.313	0.438	0.751
	Hotspot 10mm distance	Front	0.359	0.139	0.498
		Back	0.313	0.138	0.451
		Edge A	0.447	0.176	0.623
		Edge B	/	0.367	0.367
		Edge C	/	/	/
		Edge D	0.094	/	0.094
LTE Band 4 ANT 2	Head 0mm distance	Right Cheek	0.066	0.798	0.864
		Right Tilted	0.026	0.663	0.689
		Left Cheek	0.121	0.903	1.024
		Left Tilted	0.042	0.748	0.790
	Body-worn	Front	0.301	0.430	0.731



	10mm distance	Back	0.262	0.438	0.700
	Hotspot 10mm distance	Front	0.275	0.139	0.414
		Back	0.262	0.138	0.400
		Edge A	/	0.176	0.176
		Edge B	/	0.367	0.367
		Edge C	0.359	/	0.359
		Edge D	0.124	/	0.124
LTE Band 4 ANT 3	Head 0mm distance	Right Cheek	0.986	0.798	1.784
		Right Tilted	0.545	0.663	1.208
		Left Cheek	0.811	0.903	1.714
		Left Tilted	0.465	0.748	1.213
	Body-worn 10mm distance	Front	0.113	0.430	0.543
		Back	0.146	0.438	0.584
	Hotspot 10mm distance	Front	0.113	0.139	0.252
		Back	0.146	0.138	0.284
		Edge A	/	0.176	0.176
		Edge B	/	0.367	0.367
		Edge C	/	/	/
		Edge D	0.370	/	0.370
LTE Band 5 ANT 1	Head 0mm distance	Right Cheek	0.471	0.798	1.269
		Right Tilted	0.238	0.663	0.901
		Left Cheek	0.434	0.903	1.337
		Left Tilted	0.217	0.748	0.965
	Body-worn 10mm distance	Front	0.927	0.430	1.357
		Back	0.714	0.438	1.152
	Hotspot 10mm distance	Front	0.927	0.139	1.066
		Back	0.714	0.138	0.852
		Edge A	/	0.176	0.176
		Edge B	0.215	0.367	0.582
		Edge C	0.318	/	0.318
		Edge D	/	/	/
LTE Band 7 ANT 2	Head 0mm distance	Right Cheek	0.065	0.798	0.863
		Right Tilted	0.023	0.663	0.686
		Left Cheek	0.057	0.903	0.960
		Left Tilted	0.019	0.748	0.767
	Body-worn 10mm distance	Front	0.193	0.430	0.623
		Back	0.158	0.438	0.596
	Hotspot 10mm	Front	0.180	0.139	0.319
		Back	0.149	0.138	0.287



	distance	Edge A	/	0.176	0.176
		Edge B	/	0.367	0.367
		Edge C	0.386	/	0.386
		Edge D	0.045	/	0.045
LTE Band 7 ANT 3	Head 0mm distance	Right Cheek	1.110	0.798	1.908
		Right Tilted	0.623	0.663	1.286
		Left Cheek	1.004	0.903	1.907
		Left Tilted	0.562	0.748	1.310
	Body-worn 10mm distance	Front	0.464	0.430	0.894
		Back	0.492	0.438	0.930
	Hotspot 10mm distance	Front	0.464	0.139	0.603
		Back	0.492	0.138	0.630
		Edge A	/	0.176	0.176
		Edge B	/	0.367	0.367
		Edge C	/	/	/
		Edge D	0.633	/	0.633
LTE Band 12 ANT 1	Head 0mm distance	Right Cheek	0.180	0.798	0.978
		Right Tilted	0.089	0.663	0.752
		Left Cheek	0.170	0.903	1.073
		Left Tilted	0.082	0.748	0.830
	Body-worn 10mm distance	Front	0.437	0.430	0.867
		Back	0.367	0.438	0.805
	Hotspot 10mm distance	Front	0.437	0.139	0.576
		Back	0.367	0.138	0.505
		Edge A	/	0.176	0.176
		Edge B	0.192	0.367	0.559
		Edge C	0.234	/	0.234
		Edge D	/	/	/
LTE Band 17 ANT 1	Head 0mm distance	Right Cheek	0.183	0.798	0.981
		Right Tilted	0.090	0.663	0.753
		Left Cheek	0.160	0.903	1.063
		Left Tilted	0.077	0.748	0.825
	Body-worn 10mm distance	Front	0.495	0.430	0.925
		Back	0.356	0.438	0.794
	Hotspot 10mm distance	Front	0.495	0.139	0.634
		Back	0.356	0.138	0.494
		Edge A	/	0.176	0.176
		Edge B	0.202	0.367	0.569
		Edge C	0.238	/	0.238
		Edge D	/	/	/



LTE Band 41 ANT 2	Head 0mm distance	Right Cheek	0.092	0.798	0.890
		Right Tilted	0.039	0.663	0.702
		Left Cheek	0.145	0.903	1.048
		Left Tilted	0.061	0.748	0.809
	Body-worn 10mm distance	Front	0.227	0.430	0.657
		Back	0.199	0.438	0.637
	Hotspot 10mm distance	Front	0.227	0.139	0.366
		Back	0.199	0.138	0.337
		Edge A	/	0.176	0.176
		Edge B	/	0.367	0.367
		Edge C	0.344	/	0.344
		Edge D	0.143	/	0.143
LTE Band 41 ANT 4	Head 0mm distance	Right Cheek	0.981	0.798	1.779
		Right Tilted	0.493	0.663	1.156
		Left Cheek	0.641	0.903	1.544
		Left Tilted	0.407	0.748	1.155
	Body-worn 10mm distance	Front	0.275	0.430	0.705
		Back	0.469	0.438	0.907
	Hotspot 10mm distance	Front	0.275	0.139	0.414
		Back	0.414	0.138	0.552
		Edge A	1.020	0.176	1.196
		Edge B	/	0.367	0.367
		Edge C	/	/	/
		Edge D	0.717	/	0.717
NR Band 5 ANT 1	Head 0mm distance	Right Cheek	0.349	0.798	1.147
		Right Tilted	0.182	0.663	0.845
		Left Cheek	0.263	0.903	1.166
		Left Tilted	0.145	0.748	0.893
	Body-worn 10mm distance	Front	0.672	0.430	1.102
		Back	0.540	0.438	0.978
	Hotspot 10mm distance	Front	0.672	0.139	0.811
		Back	0.540	0.138	0.678
		Edge A	/	0.176	0.176
		Edge B	0.503	0.367	0.870
		Edge C	0.406	/	0.406
		Edge D	/	/	/
NR Band 41 ANT 2	Head 0mm distance	Right Cheek	0.025	0.798	0.823
		Right Tilted	0.010	0.663	0.673
		Left Cheek	0.049	0.903	0.952
		Left Tilted	0.017	0.748	0.765



	Body-worn 10mm distance	Front	0.104	0.430	0.534
		Back	0.227	0.438	0.665
	Hotspot 10mm distance	Front	0.104	0.139	0.243
		Back	0.194	0.138	0.332
		Edge A	/	0.176	0.176
		Edge B	/	0.367	0.367
		Edge C	0.679	/	0.679
		Edge D	0.173	/	0.173
NR Band 41 ANT 5	Head 0mm distance	Right Cheek	1.124	0.798	1.922
		Right Tilted	0.585	0.663	1.248
		Left Cheek	0.994	0.903	1.897
		Left Tilted	0.503	0.748	1.251
	Body-worn 10mm distance	Front	0.292	0.430	0.722
		Back	0.963	0.438	1.401
	Hotspot 10mm distance	Front	0.292	0.139	0.431
		Back	0.963	0.138	1.101
		Edge A	0.341	0.176	0.517
		Edge B	/	0.367	0.367
		Edge C	/	/	/
		Edge D	1.180	/	1.180
NR Band 77 ANT 5	Head 0mm distance	Right Cheek	0.030	0.798	0.828
		Right Tilted	0.017	0.663	0.680
		Left Cheek	0.021	0.903	0.924
		Left Tilted	0.012	0.748	0.760
	Body-worn 10mm distance	Front	0.048	0.430	0.478
		Back	0.196	0.438	0.634
	Hotspot 10mm distance	Front	0.048	0.139	0.187
		Back	0.196	0.138	0.334
		Edge A	0.045	0.176	0.221
		Edge B	/	0.367	0.367
		Edge C	/	/	/
		Edge D	0.557	/	0.557
NR Band 77 ANT 11	Head 0mm distance	Right Cheek	0.110	0.798	0.908
		Right Tilted	0.082	0.663	0.745
		Left Cheek	0.135	0.903	1.038
		Left Tilted	0.101	0.748	0.849
	Body-worn 10mm distance	Front	0.100	0.430	0.530
		Back	0.191	0.438	0.629



	Hotspot 10mm distance	Front	0.100	0.139	0.239
		Back	0.191	0.138	0.329
		Edge A	0.114	0.176	0.290
		Edge B	/	0.367	0.367
		Edge C	/	/	/
		Edge D	0.709	/	0.709
NR Band 78 ANT 5	Head 0mm distance	Right Cheek	0.267	0.798	1.065
		Right Tilted	0.176	0.663	0.839
		Left Cheek	0.222	0.903	1.125
		Left Tilted	0.134	0.748	0.882
	Body-worn 10mm distance	Front	0.132	0.430	0.562
		Back	0.424	0.438	0.862
	Hotspot 10mm distance	Front	0.211	0.139	0.350
		Back	0.424	0.138	0.562
		Edge A	0.140	0.176	0.316
		Edge B	/	0.367	0.367
		Edge C	/	/	/
		Edge D	0.964	/	0.964
NR Band 78 ANT 11	Head 0mm distance	Right Cheek	0.134	0.798	0.932
		Right Tilted	0.098	0.663	0.761
		Left Cheek	0.162	0.903	1.065
		Left Tilted	0.119	0.748	0.867
	Body-worn 10mm distance	Front	0.091	0.430	0.521
		Back	0.137	0.438	0.575
	Hotspot 10mm distance	Front	0.091	0.139	0.230
		Back	0.137	0.138	0.275
		Edge A	0.196	0.176	0.372
		Edge B	/	0.367	0.367
		Edge C	/	/	/
		Edge D	0.784	/	0.784
5G NR DC_5A(ANT1) _n78(ANT5)	Head 0mm distance	Right Cheek	0.738	0.798	1.536
		Right Tilted	0.414	0.663	1.077
		Left Cheek	0.656	0.903	1.559
		Left Tilted	0.351	0.748	1.099
	Body-worn 10mm distance	Front	1.059	0.430	1.489
		Back	1.138	0.438	1.576
	Hotspot 10mm distance	Front	1.059	0.139	1.198
		Back	1.138	0.138	1.276
		Edge A	0.140	0.176	0.316
		Edge B	0.215	0.367	0.582

5G NR DC_5A(ANT1) _n78(ANT11)		Edge C	0.318	/	0.318
		Edge D	0.964	/	0.964
	Head 0mm distance	Right Cheek	0.605	0.798	1.403
		Right Tilted	0.336	0.663	0.999
		Left Cheek	0.596	0.903	1.499
		Left Tilted	0.336	0.748	1.084
	Body-worn 10mm distance	Front	1.018	0.430	1.448
		Back	0.851	0.438	1.289
	Hotspot 10mm distance	Front	1.018	0.139	1.157
		Back	0.851	0.138	0.989
		Edge A	0.196	0.176	0.372
		Edge B	0.215	0.367	0.582
		Edge C	0.318	/	0.318
		Edge D	0.784	/	0.784

MAX. $\Sigma SAR_{1g} = 2.077 \text{ W/kg} > 1.6 \text{ W/kg}$, And the number marked in yellow $> 1.6 \text{ W/kg}$, so SPLSR evaluation is required

SAR to Peak Location Separation Ratio (SPLSR)

Per KDB 447498 D01v05r02, simultaneous transmission SAR is compliant If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

Scenario: GSM1900ANT 4+ WIFI 2.4GANT7+ WIFI 2.4GANT9+ WIFI 5.2GANT8
+ WIFI 5.8GANT9+BluetoothANT9

	Mode	Position	SAR Value(W/kg)	SAR peak location (X,Y,Z)(mm)	distance (mm)	SPLSR	Simultaneous SAR
1	GSM 1900 ANT 4	Right Cheek	1.023	(14.0,25.0,4.0)	38.08	0.036	Not required
	WIFI 2.4G ANT7		0.214	(-5.0,-8.0,4.0)			
	GSM 1900 ANT 4	Right Cheek	1.023	(14.0,25.0,4.0)	50.77	0.026	Not required
	WIFI 2.4G ANT9		0.192	(-13.0,-18.0,4.0)			
	GSM 1900 ANT 4	Right Cheek	1.023	(14.0,25.0,4.0)	61.85	0.020	Not required
	WIFI 5.2G ANT8		0.131	(-10.0,32.0,4.0)			
	GSM 1900 ANT 4	Right Cheek	1.023	(14.0,25.0,4.0)	74.95	0.017	Not required
	WIFI 5.8G ANT9		0.155	(-25.0,-39.0,4.0)			
	GSM 1900 ANT 4	Right Cheek	1.023	(14.0,25.0,4.0)	71.84	0.017	Not required
	BT ANT9		0.106	(-31.0,-31.0,4.0)			
	GSM 1900 ANT 4	Left Cheek	1.174	(-13.0,11.0,4.0)	41.04	0.038	Not required
	WIFI 2.4G ANT7		0.165	(15.0,-19.0,4.0)			



	GSM 1900 ANT 4	Left Cheek	1.174	(-13.0,11.0,4.0)	51.87	0.033	Not required
	WIFI 2.4G ANT9		0.263	(-30.0,-38.0,4.0)			
	GSM 1900 ANT 4	Left Cheek	1.174	(-13.0,11.0,4.0)	42.52	0.036	Not required
	WIFI 5.2G ANT8		0.152	(15.0,-21.0,4.0)			
	GSM 1900 ANT 4	Left Cheek	1.174	(-13.0,11.0,4.0)	44.42	0.035	Not required
	WIFI 5.8G ANT9		0.177	(-36.0,-27.0,4.0)			
	GSM 1900 ANT 4	Left Cheek	1.174	(-13.0,11.0,4.0)	50.16	0.030	Not required
	BT ANT9		0.146	(-33.0,-35.0,4.0)			



Scenario: WCDMA Band IV ANT 4+ WIFI 2.4GANT7+ WIFI 2.4GANT9+ WIFI 5.2GANT8
+ WIFI 5.8GANT9+BluetoothANT9

	Mode	Position	SAR Value(W/kg)	SAR peak location (X,Y,Z)(mm)	distance (mm)	SPLSR	Simultaneous SAR
2	WCDMA Band IV ANT 4	Right Cheek	1.202	(33.0,-37.0,4.0)	47.80	0.035	Not required
	WIFI 2.4G ANT7		0.214	(-5.0,-8.0,4.0)			
	WCDMA Band IV ANT 4	Right Cheek	1.202	(33.0,-37.0,4.0)	49.77	0.033	Not required
	WIFI 2.4G ANT9		0.192	(-13.0,-18.0,4.0)			
	WCDMA Band IV ANT 4	Right Cheek	1.202	(33.0,-37.0,4.0)	43.29	0.036	Not required
	WIFI 5.2G ANT8		0.131	(-10.0,32.0,4.0)			
	WCDMA Band IV ANT 4	Right Cheek	1.202	(33.0,-37.0,4.0)	58.03	0.027	Not required
	WIFI 5.8G ANT9		0.155	(-25.0,-39.0,4.0)			
	WCDMA Band IV ANT 4	Right Cheek	1.202	(33.0,-37.0,4.0)	64.28	0.023	Not required
	BT ANT9		0.106	(-31.0,-31.0,4.0)			
	WCDMA Band IV ANT 4	Left Cheek	0.748	(-18.0,7.0,4.0)	42.01	0.021	Not required
	WIFI 2.4G ANT7		0.165	(15.0,-19.0,4.0)			
	WCDMA Band IV ANT 4	Left Cheek	0.748	(-18.0,7.0,4.0)	46.57	0.022	Not required



	WIFI 2.4G ANT9		0.263	(-30.0,-38.0,4.0)			
	WCDMA Band IV ANT 4	Left Cheek	0.748	(-18.0,7.0,4.0)	43.28	0.020	Not required
	WIFI 5.2G ANT8		0.152	(15.0,-21.0,4.0)			
	WCDMA Band IV ANT 4	Left Cheek	0.748	(-18.0,7.0,4.0)	38.47	0.023	Not required
	WIFI 5.8G ANT9		0.177	(-36.0,-27.0,4.0)			
	WCDMA Band IV ANT 4	Left Cheek	0.748	(-18.0,7.0,4.0)	44.60	0.019	Not required
	BT ANT9		0.146	(-33.0,-35.0,4.0)			

Scenario: WCDMA Band II ANT 4+ WIFI 2.4GANT7+ WIFI 2.4GANT9+ WIFI 5.2GANT8
+ WIFI 5.8GANT9+BluetoothANT9

	Mode	Position	SAR Value(W/kg)	SAR peak location (X,Y,Z)(mm)	distance (mm)	SPLSR	Simultaneous SAR
3	WCDMA Band II ANT 4	Left Cheek	0.906	(-13.0,-2.0,4.0)	32.76	0.034	Not required
	WIFI 2.4G ANT7		0.165	(15.0,-19.0,4.0)			
	WCDMA Band II ANT 4	Left Cheek	0.906	(-13.0,-2.0,4.0)	39.81	0.032	Not required
	WIFI 2.4G ANT9		0.263	(-30.0,-38.0,4.0)			
	WCDMA Band II ANT 4	Left Cheek	0.906	(-13.0,-2.0,4.0)	33.84	0.032	Not required
	WIFI 5.2G ANT8		0.152	(15.0,-21.0,4.0)			
	WCDMA Band II ANT 4	Left Cheek	0.906	(-13.0,-2.0,4.0)	33.97	0.033	Not required
	WIFI 5.8G ANT9		0.177	(-36.0,-27.0,4.0)			
	WCDMA Band II ANT 4	Left Cheek	0.906	(-13.0,-2.0,4.0)	38.59	0.028	Not required
	BT ANT9		0.146	(-33.0,-35.0,4.0)			

Scenario: LTE Band 4 ANT 3+ WIFI 2.4GANT7+ WIFI 2.4GANT9+ WIFI 5.2GANT8
+ WIFI 5.8GANT9+BluetoothANT9

	Mode	Position	SAR Value(W/kg)	SAR peak location (X,Y,Z)(mm)	distance (mm)	SPLSR	Simultaneous SAR
4	LTE Band 4 ANT 3	Right Cheek	0.986	(-46.0,-6.0,4.0)	41.05	0.032	Not required
	WIFI 2.4G ANT7		0.214	(-5.0,-8.0,4.0)			
	LTE Band 4 ANT 3	Right Cheek	0.986	(-46.0,-6.0,4.0)	35.11	0.036	Not required
	WIFI 2.4G ANT9		0.192	(-13.0,-18.0,4.0)			
	LTE Band 4 ANT 3	Right Cheek	0.986	(-46.0,-6.0,4.0)	44.41	0.027	Not required
	WIFI 5.2G ANT8		0.131	(-10.0,32.0,4.0)			
	LTE Band 4 ANT 3	Right Cheek	0.986	(-46.0,-6.0,4.0)	39.12	0.031	Not required
	WIFI 5.8G ANT9		0.155	(-25.0,-39.0,4.0)			
	LTE Band 4 ANT 3	Right Cheek	0.986	(-46.0,-6.0,4.0)	29.15	0.039	Not required
	BT ANT9		0.106	(-31.0,-31.0,4.0)			
	LTE Band 4 ANT 3	Left Cheek	0.811	(-35.0,4.0,4.0)	35.23	0.027	Not required
	WIFI 2.4G ANT7		0.165	(15.0,-19.0,4.0)			
	LTE Band 4 ANT 3	Left Cheek	0.811	(-35.0,4.0,4.0)	42.30	0.026	Not required



	WIFI 2.4G ANT9		0.263	(-30.0,-38.0,4.0)			
	LTE Band 4 ANT 3	Left Cheek	0.811	(-35.0,4.0,4.0)	55.90	0.017	Not required
	WIFI 5.2G ANT8		0.152	(15.0,-21.0,4.0)			
	LTE Band 4 ANT 3	Left Cheek	0.811	(-35.0,4.0,4.0)	31.02	0.032	Not required
	WIFI 5.8G ANT9		0.177	(-36.0,-27.0,4.0)			
	LTE Band 4 ANT 3	Left Cheek	0.811	(-35.0,4.0,4.0)	39.05	0.024	Not required
	BT ANT9		0.146	(-33.0,-35.0,4.0)			



Scenario: LTE Band 7 ANT 3+ WIFI 2.4GANT7+ WIFI 2.4GANT9+ WIFI 5.2GANT8
+ WIFI 5.8GANT9+BluetoothANT9

	Mode	Position	SAR Value(W/kg)	SAR peak location (X,Y,Z)(mm)	distance (mm)	SPLSR	Simultaneous SAR
5	LTE Band 7 ANT 3	Right Cheek	1.110	(-55.0,-2.0,4.0)	50.36	0.030	Not required
	WIFI 2.4G ANT7		0.214	(-5.0,-8.0,4.0)			
	LTE Band 7 ANT 3	Right Cheek	1.110	(-55.0,-2.0,4.0)	44.94	0.033	Not required
	WIFI 2.4G ANT9		0.192	(-13.0,-18.0,4.0)			
	LTE Band 7 ANT 3	Right Cheek	1.110	(-55.0,-2.0,4.0)	56.40	0.025	Not required
	WIFI 5.2G ANT8		0.131	(-10.0,32.0,4.0)			
	LTE Band 7 ANT 3	Right Cheek	1.110	(-55.0,-2.0,4.0)	47.63	0.030	Not required
	WIFI 5.8G ANT9		0.155	(-25.0,-39.0,4.0)			
	LTE Band 7 ANT 3	Right Cheek	1.110	(-55.0,-2.0,4.0)	37.64	0.036	Not required
	BT ANT9		0.106	(-31.0,-31.0,4.0)			
	LTE Band 7 ANT 3	Left Cheek	1.004	(-56.0,3.0,4.0)	74.33	0.017	Not required
	WIFI 2.4G ANT7		0.165	(15.0,-19.0,4.0)			
	LTE Band 7 ANT 3	Left Cheek	1.004	(-56.0,3.0,4.0)	48.55	0.029	Not required



	WIFI 2.4G ANT9		0.263	(-30.0,-38.0,4.0)			
	LTE Band 7 ANT 3	Left Cheek	1.004	(-56.0,3.0,4.0)	74.95	0.017	Not required
	WIFI 5.2G ANT8		0.152	(15.0,-21.0,4.0)			
	LTE Band 7 ANT 3	Left Cheek	1.004	(-56.0,3.0,4.0)	36.06	0.036	Not required
	WIFI 5.8G ANT9		0.177	(-36.0,-27.0,4.0)			
	LTE Band 7 ANT 3	Left Cheek	1.004	(-56.0,3.0,4.0)	44.42	0.028	Not required
	BT ANT9		0.146	(-33.0,-35.0,4.0)			

Scenario: LTE Band 41 ANT 4+ WIFI 2.4GANT7+ WIFI 2.4GANT9+ WIFI 5.2GANT8
+ WIFI 5.8GANT9+BluetoothANT9

	Mode	Position	SAR Value(W/kg)	SAR peak location (X,Y,Z)(mm)	distance (mm)	SPLSR	Simultaneous SAR
6	LTE Band 41 ANT 4	Right Cheek	0.981	(-34.0,16.0,4.0)	37.64	0.035	Not required
	WIFI 2.4G ANT7		0.214	(-5.0,-8.0,4.0)			
	LTE Band 41 ANT 4	Right Cheek	0.981	(-34.0,16.0,4.0)	39.96	0.032	Not required
	WIFI 2.4G ANT9		0.192	(-13.0,-18.0,4.0)			
	LTE Band 41 ANT 4	Right Cheek	0.981	(-34.0,16.0,4.0)	53.67	0.022	Not required
	WIFI 5.2G ANT8		0.131	(-10.0,32.0,4.0)			
	LTE Band 41 ANT 4	Right Cheek	0.981	(-34.0,16.0,4.0)	55.73	0.022	Not required
	WIFI 5.8G ANT9		0.155	(-25.0,-39.0,4.0)			
	LTE Band 41 ANT 4	Right Cheek	0.981	(-34.0,16.0,4.0)	47.10	0.024	Not required
	BT ANT9		0.106	(-31.0,-31.0,4.0)			



Scenario: NR Band 41 ANT 5+ WIFI 2.4GANT7+ WIFI 2.4GANT9+ WIFI 5.2GANT8
+ WIFI 5.8GANT9+BluetoothANT9

	Mode	Position	SAR Value(W/kg)	SAR peak location (X,Y,Z)(mm)	distance (mm)	SPLSR	Simultaneous SAR
7	NR Band 41 ANT 5	Right Cheek	1.124	(-47.0,8.0,4.0)	44.94	0.034	Not required
	WIFI 2.4G ANT7		0.214	(-5.0,-8.0,4.0)			
	NR Band 41 ANT 5	Right Cheek	1.124	(-47.0,8.0,4.0)	42.80	0.035	Not required
	WIFI 2.4G ANT9		0.192	(-13.0,-18.0,4.0)			
	NR Band 41 ANT 5	Right Cheek	1.124	(-47.0,8.0,4.0)	54.49	0.026	Not required
	WIFI 5.2G ANT8		0.131	(-10.0,32.0,4.0)			
	NR Band 41 ANT 5	Right Cheek	1.124	(-47.0,8.0,4.0)	51.89	0.028	Not required
	WIFI 5.8G ANT9		0.155	(-25.0,-39.0,4.0)			
	NR Band 41 ANT 5	Right Cheek	1.124	(-47.0,8.0,4.0)	42.15	0.032	Not required
	BT ANT9		0.106	(-31.0,-31.0,4.0)			
	NR Band 41 ANT 5	Left Cheek	0.994	(-24.0,5.0,4.0)	45.79	0.027	Not required
	WIFI 2.4G ANT7		0.165	(15.0,-19.0,4.0)			
	NR Band 41 ANT 5	Left Cheek	0.994	(-24.0,5.0,4.0)	43.42	0.032	Not required



	WIFI 2.4G ANT9		0.263	(-30.0,-38.0,4.0)			
	NR Band 41 ANT 5	Left Cheek	0.994	(-24.0,5.0,4.0)	46.87	0.026	Not required
	WIFI 5.2G ANT8		0.152	(15.0,-21.0,4.0)			
	NR Band 41 ANT 5	Left Cheek	0.994	(-24.0,5.0,4.0)	34.18	0.036	Not required
	WIFI 5.8G ANT9		0.177	(-36.0,-27.0,4.0)			
	NR Band 41 ANT 5	Left Cheek	0.994	(-24.0,5.0,4.0)	41.00	0.030	Not required
	BT ANT9		0.146	(-33.0,-35.0,4.0)			

Note:

1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR, simultaneously transmission SAR measurement is not necessary.

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	

System Check Uncertainty

No.	Uncertainty Component	Type	Uncertainty Value (%)	Probability Distribution	k	ci	Standard Uncertainty (%) $u_i(\%)$	Degree of freedom V_{eff} or v_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	B	4	R	$\sqrt{3}$	1	2.31	∞



	and thickness tolerances)							
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	

14.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
☒	SAR Probe	SSE2	SN 41/18 EPG0330	2022/01/24	2023/01/23
☒	Dipole	SID750	SN23/15 DIP0G750-378	2020/06/25	2023/06/24
☒	Dipole	SID835	SN09/13DIP0G835-217	2020/06/25	2023/06/24
☒	Dipole	SID1800	SN 09/13 DIP1G800-216	2020/06/25	2023/06/24
☒	Dipole	SID1900	SN 09/13 DIP1G800-218	2020/06/25	2023/06/24
☒	Dipole	SID2450	SN_09/13_DIP2G450-220	2020/06/25	2023/06/24
☒	Dipole	SID2600	SN 32/14_DIP2G600-338	2020/06/25	2023/06/24
☒	Dipole	SID3500	SN 50/20 DIP3G500-527	2020/12/18	2023/12/17
☒	Dipole	SWG5500	SN15/15 WGA39	2020/06/25	2023/06/24
☒	Multimeter	Keithley-2000	4014020	2022/03/25	2023/03/24
☒	System Simulator(R&S)	CMW500	130805	2022/03/25	2023/03/24
☒	KEYSIGHT	E7515A	MY56040357	2022/03/25	2023/03/24
☒	Vector Network Analyzer(R&S)	ZVB8	A0802530	2022/03/25	2023/03/24
☒	PC 3.5 Fixed Match Calibration Kit	ZV-Z32	100571	2022/03/25	2023/03/24
☒	Dielectric Probe Kit	SCLMP	SN 09/13 OCPG51	2022/03/25	2023/03/24
☒	Signal Generator	SMU200A	A140801888	2022/03/25	2023/03/24
☒	Amplifier	Nucletudes	143060	2022/03/25	2023/03/24
☒	Directional Coupler	DC6180A	305827	2022/03/25	2023/03/24
☒	Power Meter	NRP2	A140401673	2022/03/25	2023/03/24



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—