

TEST REPORT

Report No.: BCTC2407938097E

Applicant: Shenzhen Feiyufei Digital Technology Co., Ltd

Product Name: Tablet

Test Model: NET X2

Tested Date: 2024-06-18 to 2024-07-16

Issued Date: 2024-07-17

Shenzhen BCTC Testing Co., Ltd.



No.: BCTC/RF-EMC-005 Page 1 of 164 Edition: B.2



FCC ID: 2BCOA-NETX2

Product Name: Tablet

Trademark: Krono

Model/Type Ref.: NET X2

Applicant: Shenzhen Feiyufei Digital Technology Co., Ltd

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Sample Received Date: 2024-06-18

Sample tested Date: 2024-06-18 to 2024-07-16

Issue Date: 2024-07-17

IEEE Std C95.1, 2019

Test Standards: IEEE Std 1528™-2013

FCC Part 2.1093

Test Results: PASS

Remark: This is SAR test report

Min zhi Cheng

Min Zhi Cheng/ Project Handler

Approved by:

Zero Zhou/Reviewer

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No.: BCTC/RF-EMC-005 Page 2 of 164 Edition B.2



Table Of Content

Test	Report Declaration	Page
1.	Version	5
2.	Test Standards	6
3.	Test Summary	7
4.	SAR Limits	8
5.	Measurement Uncertainty	9
6.	Product Information and Test Setup	10
6.1	Product Information	10
6.2	Test Setup Configuration	13
6.3	Support Equipment	13
6.4	Test Environment	_
7.	Test Facility and Test Instrument Used	14
7.1	Test Facility	14
7.2	Test Instrument Used	14
8.	Specific Absorption Rate (SAR)	16
8.1	Introduction	16
8.2	SAR Definition	16
9.	SAR Measurement System	17
9.1	The Measurement System	17
9.2	Probe	
9.3	Probe Calibration Process	19
9.4	Phantom	20
9.5	Device Holder	
10.	Tissue Simulating Liquids	
10.1	Composition of Tissue Simulating Liquid	
10.2		
10.3		
11.1		
11.2		
11.3	Validation Results	25
	EUT Testing Position	
13.	SAR Measurement Procedures	
13.1	Measurement Procedures	27
13.2	Spatial Peak SAR Evaluation	27
13.3	Area & Zoom Scan Procedures	28
13.4	Volume Scan Procedures	29
13.5	SAR Averaged Methods	29
13.6	Power Drift Monitoring	29
14.	Area & Zoom Scan Procedures Volume Scan Procedures SAR Averaged Methods Power Drift Monitoring SAR Test Result Conducted RF Output Power	30
14.1	Conducted RF Output Power	30
14.2	Transmit Antennas and SAR Measurement Position	47
14.3		48
14.4	SAR Measurement Variability	53

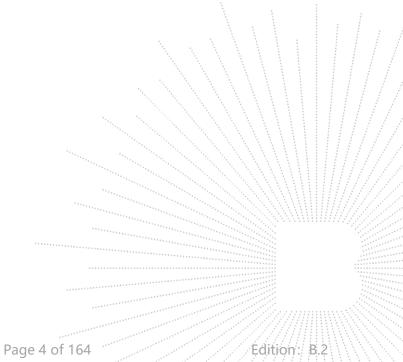


No.: BCTC/RF-EMC-005

Report No:	BCTC2407938097E
report ito.	DC1 CE 107 330037 E

14.5	Simultaneous Transmission Evaluation	54
	Test Plots	
15.1	System Performance Check	56
	SAR Test Graph Results	
16	CALIBRATION CERTIFICATES	82
17.	EUT Photographs	160
	Photographs Of The Liquid	
	EUT Test Setup Photographs	

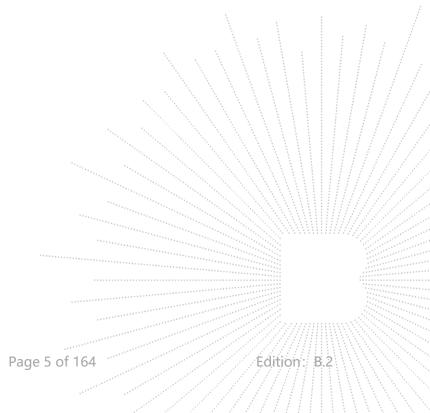
(Note: N/A Means Not Applicable)





1. Version

Report No.	Issue Date	Description	Approved
BCTC2407938097E	2024-07-17	Original	Valid



No.: BCTC/RF-EMC-005



2. Test Standards

IEEE Std C95.1-2019: IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

FCC Part 2.1093 Radiofrequency Radiation Exposure Evaluation: Portable Devices

KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies

KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04: SAR Measurement Requirements for 100 MHz to 6 GHz

KDB 865664 D02 RF Exposure Reporting v01r02: RF Exposure Compliance Reporting and Documentation Considerations

KDB 248227 D01 802.11 Wi-Fi SAR v02r02: SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS KDB 941225 D01 3G SAR Procedures: 3G SAR MEAUREMENT PROCEDURES

KDB 941225 D05 SAR for LTE Devices: SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES

KDB 941225 D06 Hotspot Mode v02r01: SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES

KDB 648474 D04 Handset SAR v01r03: SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS

KDB 648474 D04 Handset SAR v01r03: SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS



No.: BCTC/RF-EMC-005 Page 6 of 164 Edition: B.2

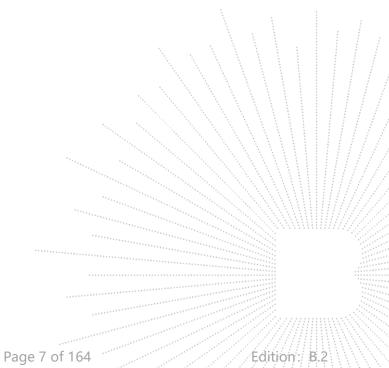


Test Summary 3.

The maximum results of Specific Absorption Rate (SAR) have found during testing are as follows:

Fraguency Bond	Report SAR _{1g} (W/kg)	CAD Limit (M//Lon)	
Frequency Band	Body (0mm Gap)	SAR _{1g} Limit (W/kg)	
Bluetooth	0.058	1.6	
WIFI	0.267	1.6	
GSM	0.740	1.6	
WCDMA	0.690	1.6	
LTE	0.835	1.6	
Simultaneous Transmission	1.083	1.6	

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2019, and had been tested in accordance with the measurement methods and procedure specified in IEEE 1528-2013.



No.: BCTC/RF-EMC-005



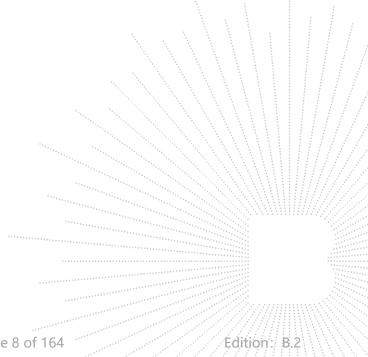
4. SAR Limits

FCC Limit (1g Tissue)

	SAR (W/kg)
EXPOSURE LIMITS	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average(averaged over the whole body)	0.08	0.4
Spatial Peak(averaged over any 1 g of tissue)	1.6	8.0
Spatial Peak(hands/wrists/ feet/anklesaveraged over 10 g)	4.0	20.0

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

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



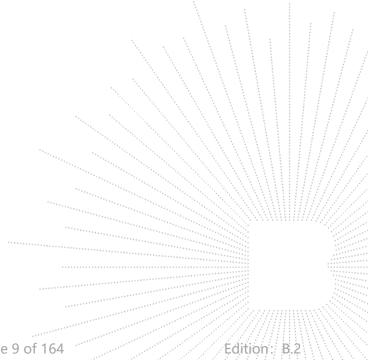
No.: BCTC/RF-EMC-005 Page 8 of 164 Edition: B.2



5. Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is <3.75 W/kg. The expanded SAR measurement uncertainty must be \leq 30%, for a confidence interval of k=2. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval.

Therefore, the measurement uncertainty is not required.



No.: BCTC/RF-EMC-005 Page 9 of 164 Edition: B.2



Product Information and Test Setup

6.1 Product Information

Model/Type reference:	NET X2
Model differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
Adapter:	Input: AC100-240V,50/60HZ,0.3A Output :DC 5V/2A
Battery:	DC 3.7V, 5000mAh
Bluetooth	
Operation Frequency:	2402-2480MHz
Type of Modulation:	GFSK, π/ 4 DQPSK, 8DPSK
Number Of Channel	79CH
Antenna installation:	Internal antenna
	0.24 dBi
Antenna Gain:	Remark: The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
BLE	
Operation Frequency:	2402-2480MHz
Type of Modulation:	GFSK
Number Of Channel	40CH
Antenna installation:	Internal antenna
	0.24 dBi
Antenna Gain:	Remark: The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.



WIFI 2.4G
Operation Frequency:

802.11b/g/n20MHz:2412~2462 MHz
802.11n40MHz:2422~2452 MHz
802.11b:11/5.5/2/1 Mbps
802.11g:54/48/36/24/18/12/9/6Mbps
802.11n Up to 150Mbps

Type of Modulation: OFDM/DSSS

Number Of Channel 802.11b/g/n20MHz:11 CH 802.11n40MHz: 7 CH

Antenna installation: Internal antenna

0.24 dBi Remark:

customer, and the test data is affected by the customer information.

☐ The antenna gain of the product is provided by the customer, and the test data

is affected by the customer information.

2G, 3G

Operation Frequency:

Type of Emission:

GSM/GPRS/EGPRS 850: TX: 824~849MHz; RX: 869~894MHz; GSM/GPRS/EGPRS 1900: TX:1850~1910MHz; RX:1930~1990MHz; WCDMA Band II: TX: 1852.40~1907.60MHz; Rx: 1932.60~1987.40MHz;

WCDMA Band II: TX: 1852.40~1907.60MHz; RX: 1932.60~1987.40MHz WCDMA Band V: TX: 826.40~846.60MHz; RX: 871.40~ 891.60MHz;

GPRS Class: Class 12

GSM/ GPRS/ EGPRS 850:32.29 dBm, GSM/ GPRS/ EGPRS 1900: 30.65dBm

Max RF Output Power: WCDMA Band II: 22.55dBm

WCDMA Band V: 22.55dBm GSM with GMSK Modulation

Type of Modulation: WCDMA Mode with BPSK Modulation

HSDPA Mode with QPSK, 16QAM Modulation HSUPA Mode with QPSK, 16QAM Modulation

GSM/GPRS 850: 248KGXW GSM/GPRS 1900: 246KGXW WCDMA Band II: 4M22F9W

WCDMA Band V: 4M17F9W

Antenna installation: Internal antenna

GSM850: -2.52Bi GSM1900: -0.27dBi WCDMA Band II: -0.27dBi WCDMA Band V: -2.52dBi

Antenna Gain: Remark:

☐ The antenna gain of the product comes from the antenna report provided by the

customer, and the test data is affected by the customer information.

☐ The antenna gain of the product is provided by the customer, and the test data

is affected by the customer information.



4G

LTE Band 2: 1850 MHz ~ 1910 MHz Tx Frequency: LTE Band 4: 1710 MHz ~ 1755 MHz

LTE Band 7: 2500MHz-2570MH

LTE Band 2: 1930 MHz \sim 1990 MHz Rx Frequency: LTE Band 4: 2110 MHz \sim 2155 MHz

LTE Band 7: 2620MHz-2690MHz

LTE Band 2: 1.4MHz /3MHz /5MHz /10MHz /15MHz /20MHz Bandwidth: LTE Band 4: 1.4MHz /3MHz /5MHz /10MHz /15MHz /20MHz

LTE Band 7: 5MHz /10MHz /15MHz /20MHz

Maximum Output Power to

Antenna:

LTE Band 2: 23.46dBm LTE Band 4: 23.59dBm

LTE Band 7: 19.76dBm

LTE Band 2: 18M0W7D

99% Occupied Bandwidth: LTE Band 4: 18M0W7D

LTE Band 7: 18M0W7D

Type of Modulation: QPSK/16QAM
Antenna Type: Internal Antenna

LTE Band 2: -0.27dBi LTE Band 4:-0.31dBi LTE Band 7: -0.24dBi

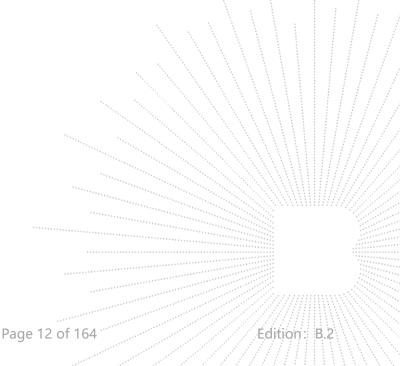
Antenna Gain: Remark:

☐ The antenna gain of the product comes from the antenna report provided by the

customer, and the test data is affected by the customer information.

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is affected by the customer information.



No.: BCTC/RF-EMC-005 Page 12 of 164



6.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

6.3 Support Equipment

Cable of Product

No.	Cable Type	Quantity	Provider	Length (m)	Shielded	Note
1			Applicant		Yes/No	
2			встс		Yes/No	

No	Device Type	Brand	Model	Series No.	Note
1					
2					

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

6.4 Test Environment

1. Normal Test Conditions:

Humidity(%):	35-75
Atmospheric Pressure(kPa):	95-105
Temperature(°C):	18-25

2. Extreme Test Conditions:

N/A



7. Test Facility and Test Instrument Used

7.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850 A2LA certificate registration number is: CN1212

ISED Registered No.: 23583 ISED CAB identifier: CN0017

7.2 Test Instrument Used

Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
PC	DELL	\	\	N/A	N/A
SAR Measurement system	SATIMO	\	\	N/A	N/A
Signal Generator	Keysight	83711B	US37100131	Aug. 29, 2023	Aug. 28, 2024
Multimeter	Keithley	1160271	\	Nov. 10, 2023	Nov 09, 2024
S-parameter Network Analyzer	R&S	ZVB 8	101353	Dec. 07, 2023	Dec. 06, 2024
Wideband Radio Communicatio n Tester	R&S	CMW500	\	Nov. 10, 2023	Nov 09, 2024
E SAR PROBE 6GHz	MVG	SSE2	2623-EPGO-4 20	July 18, 2023	July 17, 2024
DIPOLE 835	SATIMO	SID835	SN 47/21 DIP 0G835-621	Nov. 25, 2021	Nov. 24, 2024
DIPOLE 1800	SATIMO	SID1800	SN 47/21 DIP 1G800-623	Nov. 25, 2021	Nov. 24, 2024
DIPOLE 1900	SATIMO	SID1900	SN 47/21 DIP 1G900-624	Nov. 25, 2021	Nov. 24, 2024
DIPOLE 2450	SATIMO	SID2450	SN 47/21 DIP 2G450-627	Nov. 25, 2021	Nov. 24, 2024
DIPOLE 2600	SATIMO	SID2600	SN 47/21 DIP 2G600-628	Nov. 25, 2021	Nov. 24, 2024
COMOSAR OPENCoaxial Probe	SATIMO	\	\(\sigma_{\text{interpolation}}\)	Nov. 18, 2023	Nov. 17, 2024
SAR Locator	SATIMO	\	\	Nov. 18, 2023	Nov. 17, 2024
Communicatio n Antenna	SATIMO	\	······	Nov. 18, 2023	Nov. 17, 2024
FEATURE PHONEPOSIT IONING DEVICE	SATIMO	\		N/A	N/A



LIMESAR DIELECTRIC PROBE	SATIMO	\	\	N/A	N/A
SAM Phantom	MVG	\	SN 13/09 SAM68	N/A	N/A
Liquid measurement Kit	HP	85033D	3423A08186	N/A	N/A
Power meter	Agilent	E4419	\	May 15, 2024	May 14, 2025
Power meter	Agilent	E4419	\	May 15, 2024	May 14, 2025
Power sensor	Agilent	E9300A	\	May 15, 2024	May 14, 2025
Power sensor	Agilent	E9300A	\	May 15, 2024	May 14, 2025
Directional Coupler	Krytar 158020	131467	\	Nov. 10, 2023	Nov 09, 2024
Thermometer	BTE	\	\	Dec. 02, 2023	Dec. 01, 2024
Broad Band Tissue Simulation Liquid	Schmid	\	1	N/A	N/A





8. Specific Absorption Rate (SAR)

8.1 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 techiques 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.

8.2 SAR Definition

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

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

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

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

$$SAR = C\left(\frac{\delta T}{\delta t}\right)$$

Where: C is the specific heat capacity, δ T is the temperature rise and δ t is the exposure duration, or related to the

electrical field in the tissue by

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

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

No.: BCTC/RF-EMC-005 Page 16 of 164 Edition: B.2



9. SAR Measurement System

9.1 The Measurement System

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

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

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

9.2 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 46/21 EPGO362 with following specifications is used

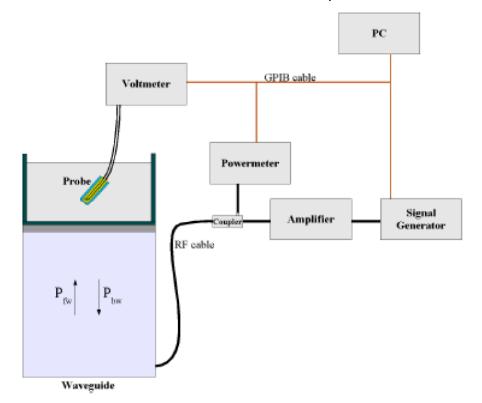
- Dynamic range: 0.01-100 W/kg
- Tip Diameter: 5 mm
- Distance between probe tip and sensor center: 2.10mm
- Distance between sensor center and the inner phantom surface: 4 mm (repeatability better than +/- 1mm)
- Probe linearity: <0.25 dB
- Axial Isotropy: <0.25 dB
- Spherical Isotropy: <0.50 dB
- Calibration range: 835 to 2500MHz for head & body simulating liquid.

Angle between probe axis (evaluation axis) and surface normal line:1ess than 30°

Probe calibration is realized, in compliance with EN 62209-1 and IEEE 1528 STD, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1 annex technique using reference guide at the five frequencies.

No.: BCTC/RF-EMC-005 Page 17 of 164 Edition: B.2





$$SAR = \frac{4(p_{\int w} - p_{\text{pbw}})}{ab\delta} \cos^2 (\pi \frac{y}{a}) c^{(2\pi/\delta)}$$

Where:

Pfw = Forward Power Pbw = Backward Power

a and b = Waveguide dimensions

I = Skin depth

Keithley configuration:

Rate = Medium; Filter = ON; RDGS = 10; Filter type = Moving Average; Range auto after each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it.

The calibration factors, CF(N), for the 3 sensors corresponding to dipole 1, dipole 2 and dipole 3 are:

$$CF(N)=SAR(N)/VIin(N)$$
 (N=1,2,3)

The linearised output voltage Vlin(N) is obtained from the displayed output voltage V(N) using

$$Vlin(N)=V(N)*(1+V(N)/DCP(N)) (N=1,2,3)$$

where DCP is the diode compression point in mV.

No.: BCTC/RF-EMC-005 Page 18 of 164 Edition: B.2



9.3 Probe Calibration Process

Dosimetric Assessment Procedure

Each E-Probe/Probe Amplifier combination has unique calibration parameters. SATIMO Probe calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm2) using an with CALISAR, Antenna proprietary calibration system.

Free Space Assessment Procedure

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1mW/cm2.

Temperature Assessment Procedure

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated head tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

Where:

$$SAR = C \frac{\Delta T}{\Delta t}$$

 Δ t = exposure time (30 seconds),

C = heat capacity of tissue (brain or muscle),

 \triangle T = temperature increase due to RF exposure.

SAR is proportional to $\Delta T/\Delta t$, the initial rate of tissue heating, before thermal diffusion takes place. The electric field in the simulated tissue can be used to estimate SAR by equating the thermally derived SAR to that with the E- field component.

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

Where:

 $\sigma = \text{simulated tissue conductivity},$

 ρ = Tissue density (1.25 g/cm³ for brain tissue)

No.: BCTC/RF-EMC-005 Page 19 of 164 Edition: B.2

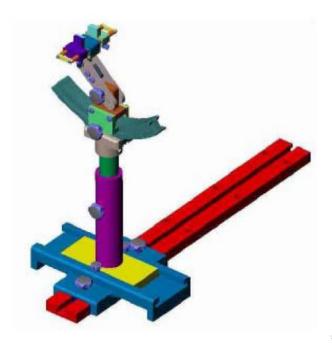


9.4 Phantom

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

9.5 Device Holder

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



System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005

No.: BCTC/RF-EMC-005 Page 20 of 164 Edition: B.2



10. Tissue Simulating Liquids

10.1 Composition of Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with SMTIMO, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. Please see the following photos for the liquid height.



Liquid Height for Body SAR

The Composition of Tissue Simulating Liquid

Frequency (MHz)	Water (%)	Salt (%)	1,2-Propane diol (%)	HEC (%)	Preventol (%)	DGBE (%)			
Head/Body									
835	40.3	1.4	57.9	0.2	0.2	0			
900	40.3	1.4	57.9	0.2	0.2	0			
1800-2000	55.2	0.3	0	0 ,	. 10 1	44.5			
2450	55.0	0.1	0	0	0	44.9			
2600	54.9	0.1	0	0	0	45.0			

Frequency (MHz)	Water (%)	Hexyl Carbitol (%)	Triton X-100 (%)		
		Head/Body	$\sim \sim $		
5000-6000	65.52	17.24	17.24		



10.2 Limit

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 variations 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.

Toward Francisco (MIII-)	He	ead	
Target Frequency (MHz)	Conductivity (σ)	Permittivity (E r)	
150	0.76	52.3	
300	0.87	45.3	
450	0.87	43.5	
750	0.89	41.9	
835	0.90	41.5	
900	0.97	41.5	
915	0.98	41.5	
1450	1.20	40.5	
1610	1.29	40.3	
1800-2000	1.40	40.0	
2450	1.80	39.2	
2600	1.96	39.0	
3000	2.40	38.5	
5200	4.66	36.0	
5400	4.86	35.8	
5600	5.07	35.5	
5800	5.27	35.3	

No.: BCTC/RF-EMC-005 Page 22 of 164 Edition: B.2



10.3 Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an R&S ZVB 8. Dielectric Probe Kit and an Agilent Network Analyzer.

Calibration Result for Dielectric Parameters of Tissue Simulating Liquid

Frequency (MHz)	Liquid	Target (σ)	Target (E r)	Measured (σ)	Measured (\mathcal{E}_{r})	Delta (σ)%	Delta (ε _r)%	Limit (%)	Temp. TSL (°C)	Date
835	Head	0.90	41.5	0.937	40.165	4.11	-3.22	±5	23.6	2/7/2024
1800	Head	1.40	40.0	1.398	41.002	-0.14	2.51	±5	23.6	2/7/2024
1900	Head	1.40	40.0	1.397	38.778	-0.21	-3.06	±5	23.6	3/7/2024
2450	Head	1.80	39.20	1.803	38.675	0.17	-1.34	±5	23.4	16/7/2024
2600	Head	1.96	39.00	1.887	40.124	-3.72	2.88	±5	23.4	16/7/2024

Remark:

- 1. The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within ± 2°C of the temperature when the tissue parameters are characterized.
- 2. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 3 4 days of use; or earlier if the dielectric parameters can become out of tolerance; for example, when the parameters are marginal at the beginning of the measurement series.

No.: BCTC/RF-EMC-005 Page 23 of 164 Edition: B.2



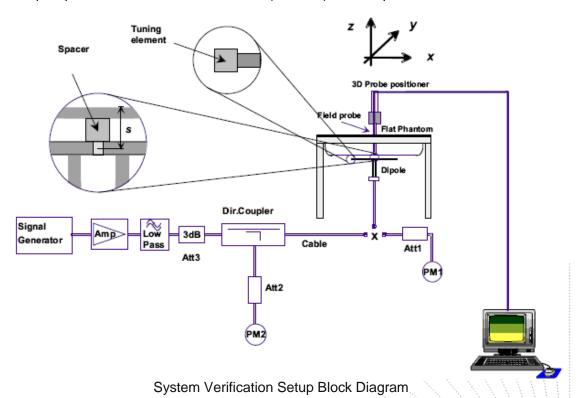
11. System Check

11.1 Purpose of System Performance Check

At the device test frequencies. System check verifies the measurement repeatability of a SAR system before compliance testing and is not a validation of all system specifications. The latter is not required for testing a device but is mandatory before the system is deployed. The system check detects possible short-term drift and unacceptable measurement errors or uncertainties in the system.

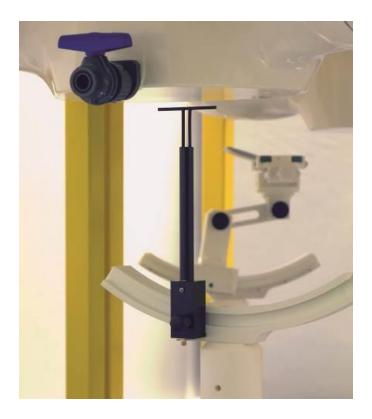
11.2 System Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave which comes from a signal generator at frequency 600MHz-6000MHz. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The output power on dipole port must be calibrated to 20 dBm (100 mW) before dipole is connected.



No.: BCTC/RF-EMC-005 Page 24 of 164 Edition: B.2





Setup Photo of Dipole Antenna

11.3 Validation Results

Comparing to the original SAR value provided by SATIMO, the validation data should be within its specification of 10 %. The following table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion.

Frequency		Measured Norma		Drift	1W Target	Difference	Limit	Liquid	
(MHz)	Power SAR.	to 1 Watt	(%)	SAR _{1g} (W/Kg)	Percentage (%)	(%)	Temp	Date	
835	250mW	2.464	9.854	-0.519	10.01	-1.558	±10	23.2	2/7/2024
1800	250mW	9.445	37.780	1.493	39.74	-4.932	±10	23.2	2/7/2024
1900	250mW	10.448	41.790	-1.390	41.26	1.285	±10	23.4	3/7/2024
2450	250mW	13.587	54.346	-1.419	55.16	-1.476	±10	23.7	16/7/2024
2600	250mW	13.424	53.697	-0.545	56.5	-4.961	±10	23.7	16/7/2024

No.: BCTC/RF-EMC-005 Page 25 of 164 Edition: B.2



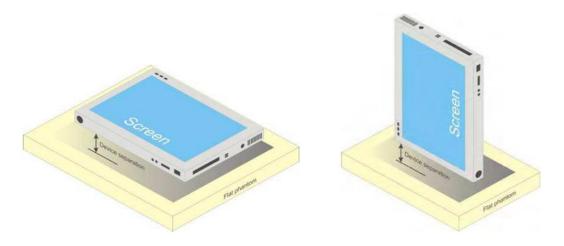
12. EUT Testing Position

Body Position

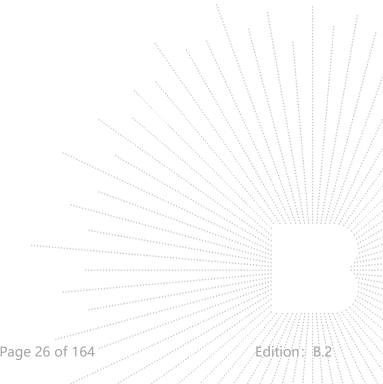
A typical example of a body supported device is a wireless enabled laptop device that among other orientations may be supported on the thighs of a sitting user. To represent this orientation, the device shall be positioned with its base against the flat phantom. Other orientations may be specified by the manufacturer in the user instructions. If the intended use is not specified, the device shall be tested directly against the flat phantom in all usable orientations.

The example shows a tablet form factor portable computer for which SAR should be separately assessed with

- a). each surface and
- b). the separation distances



Tablet form factor portable computer



Page 26 of 164 No.: BCTC/RF-EMC-005



13. SAR Measurement Procedures

13.1 Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the highest power channel.
- (b) Keep EUT to radiate maximum output power or 100% factor (if applicable)
- (c) Measure output power through RF cable and power meter.
- (d) Place the EUT in the positions as Annex D demonstrates.
- (e) Set scan area, grid size and other setting on the SATIMO software.
- (f) Measure SAR results for the highest power channel on each testing position.
- (g) Find out the largest SAR result on these testing positions of each band
- (h) Measure SAR results for other channels in worst SAR testing position if the SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

13.2 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The SATIMO software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine. The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values form the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g



13.3 Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan measures 5x5x7 points with step size 8, 8 and 5 mm for 300 MHz to 3 GHz, and 8x8x8 points with step size 4, 4 and 2.5 mm for 3 GHz to 6 GHz. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g.

			≤3 GHz	> 3 GHz
Maximum distance fro (geometric center of p		measurement point rs) to phantom surface	5 mm ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \text{ mm} \pm 0.5 \text{ mm}$
	Maximum probe angle from probe axis to phantom surface normal at the measurement location			20° ± 1°
			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
Maximum area scan sp	patial resol	ution: Δx_{Area} , Δy_{Area}	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device w at least one measurement point on the test device.	ion, is smaller than the olution must be ≤ the sion of the test device with
Maximum zoom scan	Maximum zoom scan spatial resolution: Δxzoom, Δyzoom			3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
	grid $\Delta z_{Zoom}(n>1)$: between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1) \text{ mm}$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.

No.: BCTC/RF-EMC-005 Page 28 of 164 Edition: B.2

^{*} When zoom scan is required and the <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> procedures of KDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.



13.4 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing (step-size is 4, 4 and 2.5 mm). When all volume scan were completed, the software can combine and subsequently superpose these measurement data to calculating the multiband SAR.

13.5 SAR Averaged Methods

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimize measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10g and 1 g requires a very fine resolution in the three dimensional scanned data array.

13.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In SATIMO measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drift more than 5%, the SAR will be retested.

No.: BCTC/RF-EMC-005 Page 29 of 164 Edition: B.2



14. SAR Test Result

14.1 Conducted RF Output Power

Bluetooth								
Modulation	Frequency (MHz)	Output Power (dBm)	Tune-up power (dBm)					
	2402	0.94						
1-DH5	2441	-2.01	1.5					
	2480	0.58						
	2402	-1.52						
2-DH5	2441	-0.76	0.0					
	2480	-2.03						

BLE								
Mode	Frequency (MHz)	Output Power (dBm)	Tune-up power (dBm)					
	2402	-0.67						
GFSK BLE 1M	2440	-2.11	0.0					
522	2480	-2.47						
	2402	-0.81						
GFSK BLE 2M	2440	-2.22	0.5					
222 2111	2480	-2.26						

Note:

Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0 \text{ for } 1-g \text{ SAR and } \le 7.5 \text{ for } 10-g \text{ extremity SAR}$

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Bluetooth Turn up Power (dBm)	Bluetooth Turn up Power (mW)	Separation Distance (mm)	Frequency (GHz)	Result	Exclusion Thresholds	
1.5	1.41	5	2.402	0.44	3.0	

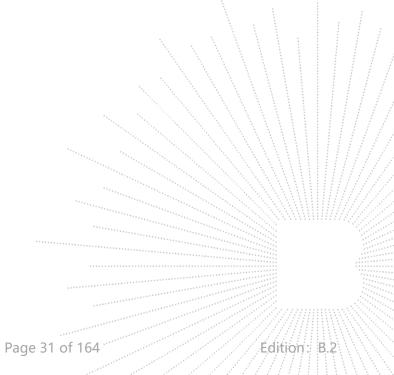
Per KDB 447498 D01v06, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

According to the calculation results in the table above, Bluetooth SAR does not need to be tested.

No.: BCTC/RF-EMC-005 Page 30 of 164 Edition: B.2



WIFI 2.4G								
Mode	Frequency	Maximum Conducted Output Power	Tune-up power					
Widde	(MHz)	(dBm)	(dBm)					
	2412	16.20						
b	2437	15.93	17.0					
	2462	16.77						
	2412	15.28						
g	2437	16.05	17.0					
	2462	16.66						
	2412	15.8						
n20	2437	15.09	16.0					
	2462	15.07						
	2422	14.08						
n40	2437	14.27	14.5					
	2452	13.8						



No.: BCTC/RF-EMC-005 Page 31 of 164



	GSM - Burst Average Power (dBm)									
Band		GSM850				GSM1900				
Channel	128	190	251	Tune- up	512	661	810	Tune- up		
Frequency (MHz)	824.2	836.6	848.8	- up	1850.2	1880	1909.8	~P		
GSM	31.78	32.29	31.96	32.5	30.63	30.65	30.44	31.0		
GPRS Slot -1	31.82	32.32	32.02	33.0	30.54	30.59	30.39	31.0		
GPRS Slot -2	29.48	30.00	29.77	30.5	28.22	28.39	28.2	29.0		
GPRS Slot -3	27.65	28.10	27.88	28.5	26.61	26.76	26.59	27.0		
GPRS Slot -4	26.81	26.30	26.9	27.5	24.49	24.72	24.6	25.0		
EGPRS Slot -1	31.81	31.30	31.9	32.5	31.67	31.66	31.49	32.0		
EGPRS Slot -2	28.02	28.53	28.12	29.0	28.03	28.19	28.54	29.0		
EGPRS Slot -3	26.03	26.21	26.11	26.5	26.57	26.73	26.5	27.0		
EGPRS Slot -4	25.31	25.76	25.85	26.5	24.57	24.43	24.48	25.0		

GSM - Source-Based Time-Average Power (dBm)							
Band	GSM850			GSM1900			
Channel	128	190	251	512	661	810	
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880	1909.8	
GSM	22.78	23.29	22.96	21.63	21.65	21.44	
GPRS Slot -1	22.82	23.32	23.02	21.54	21.59	21.39	
GPRS Slot -2	23.48	24.00	23.77	22.22	22.39	22.20	
GPRS Slot -3	23.40	23.85	23.63	22.36	22.51	22.34	
GPRS Slot -4	23.81	23.30	23.90	21.49	21.72	21.60	
EGPRS Slot -1	22.81	22.30	22.90	22.67	22.66	22.49	
EGPRS Slot -2	22.02	22.53	22.12	22.03	22.19	22.54	
EGPRS Slot -3	21.78	21.96	21.86	22.32	22.48	22.25	
EGPRS Slot -4	22.31	22.76	22.85	21.57	21.43	21.48	

Notes:

1. Division Factors

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

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.00dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.00dB

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

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.00dB

No.: BCTC/RF-EMC-005 Page 32 of 164 Edition: B.2



Band		WCDMA Band II				WCDMA Band V			
Channel	9262	9400	9538	Tuna un	4132	4182	4233	Tuna un	
Frequency (MHz)	1852.4	1880.0	1907.6	Tune-up	826.4	836.4	846.6	Tune-up	
RMC 12.2K	23.04	23.09	22.80	23.5	22.84	22.88	22.66	23.5	
HSDPA Subtest-1	22.99	22.55	22.72	23.5	22.95	22.9	22.68	23.5	
HSDPA Subtest-2	20.7	20.18	20.47		20.86	20.93	20.67		
HSDPA Subtest-3	19.27	19.9	19.16		19.84	19.91	19.69		
HSDPA Subtest-4	17.17	17.95	17.86		17.87	17.9	17.69		
HSUPA Subtest-1	21.88	22.19	21.53	23.0	21.77	22.02	21.79		
HSUPA Subtest-2	22	22.31	21.64		20.7	20.15	20.85		
HSUPA Subtest-3	20.57	20.87	20.33		19.19	19.72	19.53	22.5	
HSUPA Subtest-4	19.87	19.3	19.64		17.66	17.12	17.77		
HSUPA Subtest-5	17.6	17	17.47		16.52	16.9	16.58		

Note:

- 1. The 12.2kbps RMC mode was selected for SAR testing (the primary mode).
- When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤1/4dB higher than the primary mode (RMC12.2kbps) or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.





Do::l	Donaluiatta (NALL)	III Okanasi	DD 0:	DD Desities	Madulette	Device (dDay)	\/a=-!!!
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band2	1.4	18607	1	#0	QPSK	23.10	PASS
Band2	1.4	18607	1	#Mid	QPSK	23.15	PASS
Band2	1.4	18607	1	#Max	QPSK	23.15	PASS
Band2	1.4	18607	3	#0	QPSK	23.01	PASS
Band2	1.4	18607	3	#Mid	QPSK	23.03	PASS
Band2	1.4	18607	3	#Max	QPSK	23.10	PASS
Band2	1.4	18607	6	#0	QPSK	22.15	PASS
Band2	1.4	18607	1	#0	16QAM	23.41	PASS
Band2	1.4	18607	1	#Mid	16QAM	23.42	PASS
Band2	1.4	18607	1	#Max	16QAM	23.42	PASS
Band2	1.4	18607	3	#0	16QAM	22.30	PASS
Band2	1.4	18607	3	#Mid	16QAM	22.28	PASS
Band2	1.4	18607	3	#Max	16QAM	22.28	PASS
Band2	1.4	18607	6	#0	16QAM	21.28	PASS
Band2	1.4	18900	1	#0	QPSK	22.88	PASS
Band2	1.4	18900	1	#Mid	QPSK	22.84	PASS
Band2	1.4	18900	1	#Max	QPSK	22.78	PASS
Band2	1.4	18900	3	#0	QPSK	22.98	PASS
Band2	1.4	18900	3	#Mid	QPSK	22.97	PASS
Band2	1.4	18900	3	#Max	QPSK	22.97	PASS
Band2	1.4	18900	6	#0	QPSK	21.92	PASS
Band2	1.4	18900	1	#0	16QAM	22.57	PASS
Band2	1.4	18900	1	#Mid	16QAM	22.62	PASS
Band2	1.4	18900	1	#Max	16QAM	22.62	PASS
Band2	1.4	18900	3	#0	16QAM	22.04	PASS
Band2	1.4	18900	3	#Mid	16QAM	22.03	PASS
Band2	1.4	18900	3	#Max	16QAM	22.05	PASS
Band2	1.4	18900	6	#0	16QAM	21.01	PASS
Band2	1.4	19193	1	#0	QPSK	22.85	PASS
Band2	1.4	19193	1	#Mid	QPSK	22.85	PASS
Band2	1.4	19193	1	#Max	QPSK	22.80	PASS
Band2	1.4	19193	3	#0	QPSK	22.87	PASS
Band2	1.4	19193	3	#Mid	QPSK	22.83	PASS
Band2	1.4	19193	3	#Max	QPSK	22.88	PASS
Band2	1.4	19193	6	#0	QPSK	21.89	PASS
Band2	1.4	19193	1	#0	16QAM	22.67	PASS
Band2	1.4	19193	1	#Mid	16QAM	22.56	PASS
Band2	1.4	19193	1	#Max	16QAM	22.59	PASS
Band2	1.4	19193	3	#0	16QAM	22.27	PASS
Band2	1.4	19193	3	#Mid	16QAM	22.21	PASS
Band2	1.4	19193	3	#Max	16QAM	22.21	PASS
Band2	1.4	19193	6	#0	16QAM	21.05	PASS
Band2	3	18615	1	#0	QPSK	22.98	PASS
Band2	3	18615	1	#Mid	QPSK	22.92	PASS
Band2	3	18615	1	#Max	QPSK	22.87	PASS
Band2	3	18615	8	#IVIAX #0	QPSK	22.08	PASS
Band2	3	18615	8	#Mid	QPSK	22.06	PASS
Band2 Band2	3	18615	8	#Max	QPSK	22.06	PASS
Band2 Band2	3	18615	15	#IVIAX #0	QPSK		PASS
	3	18615		#0		22.10	
Band2			1		16QAM	23.49	PASS
Band2	3	18615	1	#Mid	16QAM	23.53	PASS
Band2	3	18615	1	#Max	16QAM	23.40	PASS
Band2	3	18615	8	#0	16QAM	21.20	PASS
Band2	3	18615	8	#Mid	16QAM	21.19	PASS
Band2	3	18615	8	#Max	16QAM	20.99	PASS

No.: BCTC/RF-EMC-005 Page 34 of 164 Edition: B.2



				Rej	port No. BC	1024079380	9/E
Band2	3	18615	15	#0	16QAM	21.42	PASS
Band2	3	18900	1	#0	QPSK	22.81	PASS
Band2	3	18900	1	#Mid	QPSK	22.90	PASS
Band2	3	18900	1	#Max	QPSK	22.86	PASS
Band2	3	18900	8	#0	QPSK	21.97	PASS
Band2	3	18900	8	#Mid	QPSK	22.07	PASS
Band2	3	18900	8	#Max	QPSK	22.07	PASS
Band2	3	18900	15	#0	QPSK	22.03	PASS
Band2	3	18900	1	#0	16QAM	22.03	PASS
Band2	3	18900	1	#Mid	16QAM	22.02	PASS
Band2	3	18900	1	#Max	16QAM	22.08	PASS
Band2	3	18900	8	#0	16QAM	21.14	PASS
Band2	3	18900	8	#Mid	16QAM	21.15	PASS
Band2	3	18900	8	#Max	16QAM	21.46	PASS
Band2	3	18900	15	#0	16QAM	21.06	PASS
Band2	3	19185	1	#0	QPSK	22.90	PASS
Band2	3	19185	1	#Mid	QPSK	22.83	PASS
Band2	3	19185	1	#Max	QPSK	22.88	PASS
Band2	3	19185	8	#IVIAX #0	QPSK	21.94	PASS
Band2	3	19185	8	#Mid	QPSK	21.94	PASS
Band2	<u> </u>	19185	8	#Max	QPSK	21.76	PASS
	3	19185	15		QPSK	21.88	PASS
Band2				#0			
Band2	3	19185	1	#0	16QAM	22.39	PASS
Band2	3	19185	1	#Mid	16QAM	22.34	PASS
Band2	3	19185	1	#Max	16QAM	22.27	PASS
Band2	3	19185	8	#0	16QAM	21.01	PASS
Band2	3	19185	8	#Mid	16QAM	20.95	PASS
Band2	3	19185	8	#Max	16QAM	20.94	PASS
Band2	3	19185	15	#0	16QAM	21.08	PASS
Band2	5	18625	1	#0	QPSK	22.96	PASS
Band2	5	18625	1	#Mid	QPSK	22.89	PASS
Band2	5	18625	1	#Max	QPSK	22.89	PASS
Band2	5	18625	12	#0	QPSK	22.16	PASS
Band2	5	18625	12	#Mid	QPSK	22.00	PASS
Band2	5	18625	12	#Max	QPSK	22.02	PASS
Band2	5	18625	25	#0	QPSK	21.95	PASS
Band2	5	18625	1	#0	16QAM	22.76	PASS
Band2	5	18625	1	#Mid	16QAM	22.73	PASS
Band2	5	18625	1	#Max	16QAM	22.68	PASS
Band2	5	18625	12	#0	16QAM	21.18	PASS
Band2	5	18625	12	#Mid	16QAM	21.03	PASS
Band2	5	18625	12	#Max	16QAM	21.03	PASS
Band2	5	18625	25	#0	16QAM	21.07	PASS
Band2	5	18900	1	#0 A ₀	QPSK	23.02	PASS
Band2	5	18900	1	#Mid	QPSK	23.01	PASS
Band2	5	18900	1	#Max	QPSK	23.04	PASS
Band2	5	18900	12	#0	QPSK	22.07	PASS
Band2	5	18900	12	#Mid	QPSK	22.02	PASS
Band2	5	18900	12	#Max	QPSK	22.04	PASS
Band2	5	18900	25	#0	QPSK	22.01	PASS
Band2	5	18900	1	#0	16QAM	22.30	PASS
Band2	5	18900	1	#Mid	16QAM	22.21	PASS
Band2	5	18900	1	#Max	16QAM	22.20	PASS
Band2	5	18900	12	#0	16QAM	20.98	PASS
	<u>5</u>	18900	12	#Mid	16QAM	20.96	PASS
Band		10000	1 4	TIVILO	I J G/ LIVI	20.00	1 733
Band2 Band2	5	18900	12	#Max	16QAM	21.36	PASS

No.: BCTC/RF-EMC-005 Page 35 of 164 Edition: B.2



				Re	port No. BC	1024079380	11 E
Band2	5	19175	1	#0	QPSK	22.83	PASS
Band2	5	19175	1	#Mid	QPSK	22.82	PASS
Band2	5	19175	1	#Max	QPSK	22.78	PASS
Band2	5	19175	12	#0	QPSK	21.89	PASS
Band2	5	19175	12	#Mid	QPSK	21.91	PASS
Band2	5	19175	12	#Max	QPSK	21.86	PASS
Band2	5	19175	25	#0	QPSK	21.94	PASS
Band2	5	19175	1	#0	16QAM	22.38	PASS
Band2	5	19175	1	#Mid	16QAM	22.37	PASS
Band2	5	19175	1	#Max	16QAM	22.36	PASS
Band2	5	19175	12	#0	16QAM	20.97	PASS
Band2	5	19175	12	#Mid	16QAM	21.01	PASS
Band2	5	19175	12	#Max	16QAM	20.84	PASS
Band2	5	19175	25	#0	16QAM	20.93	PASS
Band2	10	18650	1	#0	QPSK	22.95	PASS
Band2	10	18650	1	#Mid	QPSK	22.95	PASS
Band2	10	18650	1	#Max	QPSK	23.13	PASS
Band2	10	18650	25	#0	QPSK	21.97	PASS
Band2	10	18650	25	#Mid	QPSK	21.99	PASS
Band2	10	18650	25	#Max	QPSK	22.12	PASS
Band2	10	18650	50	#0	QPSK	22.03	PASS
Band2	10	18650	1	#0	16QAM	23.51	PASS
Band2	10	18650	1	#Mid	16QAM	23.54	PASS
Band2	10	18650	1	#Max	16QAM	23.73	PASS
Band2	10	18650	25	#0	16QAM	21.02	PASS
Band2	10	18650	25	#Mid	16QAM	21.06	PASS
Band2	10	18650	25	#Max	16QAM	21.05	PASS
Band2	10	18650	50	#0	16QAM	21.16	PASS
Band2	10	18900	1	#0	QPSK	23.01	PASS
Band2	10	18900	1	#Mid	QPSK	23.03	PASS
Band2	10	18900	1	#Max	QPSK	22.91	PASS
Band2	10	18900	25	#0	QPSK	22.07	PASS
Band2	10	18900	25	#Mid	QPSK	22.01	PASS
Band2	10	18900	25	#Max	QPSK	21.99	PASS
Band2	10	18900	50	#0	QPSK	21.96	PASS
Band2	10	18900	1	#0	16QAM	23.21	PASS
Band2	10	18900	1	#Mid	16QAM	23.11	PASS
Band2	10	18900	1	#Max	16QAM	23.08	PASS
Band2	10	18900	25	#0	16QAM	21.12	PASS
Band2	10	18900	25	#Mid	16QAM	21.13	PASS
Band2	10	18900	25	#Max	16QAM	21.12	PASS
Band2	10	18900	50	#0	16QAM	21.16	PASS
Band2	10	19150	1	#0	QPSK	22.99	PASS
Band2	10	19150	1	#Mid	QPSK	22.98	PASS
Band2	10	19150	1	#Max	QPSK	22.87	PASS
Band2	10	19150	25	#0	QPSK	21.95	PASS
Band2	10	19150	25	#Mid	QPSK	21.98	PASS
Band2	10	19150	25	#Max	QPSK	21.98	PASS
Band2	10	19150	50	#0	QPSK	21.99	PASS
Band2	10	19150	1	#0	16QAM	22.79	PASS
Band2	10	19150	1	#Mid	16QAM	22.59	PASS
Band2	10	19150	1	#Max	16QAM	22.61	PASS
Band2	10	19150	25	#0	16QAM	21.06	PASS
Band2	10	19150	25	#Mid	16QAM	21.13	PASS
Band2	10	19150	25	#Max	16QAM	21.08	PASS
Dando	10	19150	50	#0	16QAM	21.06	PASS
Band2 Band2	15	18675		#0	QPSK	22.98	PASS

No.: BCTC/RF-EMC-005 Page 36 of 164 Edition: B.2



				Re	port No. BC	1024079380	9/E
Band2	15	18675	1	#Mid	QPSK	23.08	PASS
Band2	15	18675	1	#Max	QPSK	23.08	PASS
Band2	15	18675	36	#0	QPSK	22.04	PASS
Band2	15	18675	36	#Mid	QPSK	22.06	PASS
Band2	15	18675	36	#Max	QPSK	22.05	PASS
Band2	15	18675	75	#0	QPSK	22.06	PASS
Band2	15	18675	1	#0	16QAM	23.52	PASS
Band2	15	18675	1	#Mid	16QAM	23.72	PASS
Band2	15	18675	1	#Max	16QAM	23.67	PASS
Band2	15	18675	36	#0	16QAM	21.09	PASS
Band2	15	18675	36	#Mid	16QAM	21.16	PASS
Band2	15	18675	36	#Max	16QAM	21.46	PASS
Band2	15	18675	75	#0	16QAM	21.22	PASS
Band2	15	18900	1	#0	QPSK	23.01	PASS
Band2	15	18900	1	#Mid	QPSK	22.98	PASS
Band2	15	18900	1	#Max	QPSK	22.97	PASS
Band2	15	18900	36	#0	QPSK	22.04	PASS
Band2	15	18900	36	#Mid	QPSK	21.95	PASS
Band2	15	18900	36	#Max	QPSK	22.03	PASS
Band2	15	18900	75	#0	QPSK	22.00	PASS
Band2	15	18900	1	#0	16QAM	22.57	PASS
Band2	15	18900	1	#Mid	16QAM	22.53	PASS
Band2	15	18900	1	#Max	16QAM	22.45	PASS
Band2	15	18900	36	#0	16QAM	21.20	PASS
Band2	15	18900	36	#Mid	16QAM	21.19	PASS
Band2	15	18900	36	#Max	16QAM	21.23	PASS
Band2	15	18900	75	#0	16QAM	21.13	PASS
Band2	15	19125	1	#0	QPSK	22.96	PASS
Band2	15	19125	1	#Mid	QPSK	22.91	PASS
Band2	15	19125	1	#Max	QPSK	22.82	PASS
Band2	15	19125	36	#0	QPSK	21.98	PASS
Band2	15	19125	36	#Mid	QPSK	21.91	PASS
Band2	15	19125	36	#Max	QPSK	21.91	PASS
Band2	15	19125	75	#0	QPSK	21.91	PASS
Band2	15	19125	1	#0	16QAM	23.08	PASS
Band2	15	19125	1	#Mid	16QAM	23.03	PASS
Band2	15	19125	1	#Max	16QAM	22.92	PASS
Band2	15	19125	36	#0	16QAM	21.05	PASS
Band2	15	19125	36	#Mid	16QAM	21.01	PASS
Band2	15	19125	36	#Max	16QAM	21.07	PASS
Band2	15	19125	75	#0	16QAM	21.06	PASS
Band2	20	18700	1	#0	QPSK	23.10	PASS
Band2	20	18700	1	#Mid	QPSK	23.08	PASS
Band2	20	18700	1	#Max	QPSK	23.06	PASS
Band2	20	18700	50	#0	QPSK	22.07	PASS
Band2	20	18700	50	#Mid	QPSK	22.10	PASS
Band2	20	18700	50	#Max	QPSK	22.06	PASS
Band2	20	18700	100	#0	QPSK	22.05	PASS
Band2	20	18700	1	#0	16QAM	22.68	PASS
Band2	20	18700	1	#Mid	16QAM	22.67	PASS
Band2	20	18700	1	#Max	16QAM	22.71	PASS
Band2	20	18700	50	#0	16QAM	21.19	PASS
Band2	20	18700	50	#Mid	16QAM	21.26	PASS
Band2	20	18700	50	#Max	16QAM	21.30	PASS
	20	18700	100	#0	16QAM	21.22	PASS
Bandz							
Band2 Band2	20	18900	1	#0	QPSK	23.12	PASS

No.: BCTC/RF-EMC-005 Page 37 of 164 Edition: B.2



Band2	20	18900	1	#Max	QPSK	23.18	PASS
Band2	20	18900	50	#0	QPSK	22.07	PASS
Band2	20	18900	50	#Mid	QPSK	22.10	PASS
Band2	20	18900	50	#Max	QPSK	22.02	PASS
Band2	20	18900	100	#0	QPSK	22.14	PASS
Band2	20	18900	1	#0	16QAM	22.32	PASS
Band2	20	18900	1	#Mid	16QAM	22.43	PASS
Band2	20	18900	1	#Max	16QAM	22.30	PASS
Band2	20	18900	50	#0	16QAM	21.13	PASS
Band2	20	18900	50	#Mid	16QAM	21.17	PASS
Band2	20	18900	50	#Max	16QAM	21.13	PASS
Band2	20	18900	100	#0	16QAM	21.15	PASS
Band2	20	19100	1	#0	QPSK	23.02	PASS
Band2	20	19100	1	#Mid	QPSK	23.07	PASS
Band2	20	19100	1	#Max	QPSK	23.03	PASS
Band2	20	19100	50	#0	QPSK	22.01	PASS
Band2	20	19100	50	#Mid	QPSK	21.94	PASS
Band2	20	19100	50	#Max	QPSK	21.91	PASS
Band2	20	19100	100	#0	QPSK	21.98	PASS
Band2	20	19100	1	#0	16QAM	22.48	PASS
Band2	20	19100	1	#Mid	16QAM	22.39	PASS
Band2	20	19100	1	#Max	16QAM	22.34	PASS
Band2	20	19100	50	#0	16QAM	21.05	PASS
Band2	20	19100	50	#Mid	16QAM	21.04	PASS
Band2	20	19100	50	#Max	16QAM	21.08	PASS
Band2	20	19100	100	#0	16QAM	21.06	PASS





Dan-I	Dondy date (MIII-)	III Chaire	DD 0:	DD Doo!!!	Modulatian	Dower (dD)	\/a ==! ==
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band4	1.4	19957	1	#0	QPSK	23.16	PASS
Band4	1.4	19957	1	#Mid	QPSK	23.22	PASS
Band4	1.4	19957	1	#Max	QPSK	23.17	PASS
Band4	1.4	19957	3	#0	QPSK	23.07	PASS
Band4	1.4	19957	3	#Mid	QPSK	23.13	PASS
Band4	1.4	19957	3	#Max	QPSK	23.06	PASS
Band4	1.4	19957	6	#0	QPSK	22.19	PASS
Band4	1.4	19957	1	#0	16QAM	23.67	PASS
Band4	1.4	19957	1	#Mid	16QAM	23.63	PASS
Band4	1.4	19957	1	#Max	16QAM	23.66	PASS
Band4	1.4	19957	3	#0	16QAM	22.34	PASS
Band4	1.4	19957	3	#Mid	16QAM	22.36	PASS
Band4	1.4	19957	3	#Max	16QAM	22.33	PASS
Band4	1.4	19957	6	#0	16QAM	21.26	PASS
Band4	1.4	20175	1	#0	QPSK	23.13	PASS
Band4	1.4	20175	1	#Mid	QPSK	23.12	PASS
Band4	1.4	20175	1	#Max	QPSK	23.04	PASS
Band4	1.4	20175	3	#0	QPSK	23.20	PASS
Band4	1.4	20175	3	#Mid	QPSK	23.28	PASS
Band4	1.4	20175	3	#Max	QPSK	23.26	PASS
Band4	1.4	20175	6	#0	QPSK	22.25	PASS
Band4	1.4	20175	1	#0	16QAM	23.42	PASS
Band4	1.4	20175	1	#Mid	16QAM	23.44	PASS
Band4	1.4	20175	1	#Max	16QAM	23.49	PASS
Band4	1.4	20175	3	#0	16QAM	22.31	PASS
Band4	1.4	20175	3	#Mid	16QAM	22.30	PASS
Band4	1.4	20175	3	#Max	16QAM	22.35	PASS
Band4	1.4	20175	6	#0	16QAM	21.26	PASS
Band4	1.4	20393	1	#0	QPSK	23.38	PASS
Band4	1.4	20393	1	#Mid	QPSK	23.52	PASS
Band4	1.4	20393	1	#Max	QPSK	23.39	PASS
Band4	1.4	20393	3	#0	QPSK	23.15	PASS
Band4	1.4	20393	3	#Mid	QPSK	23.19	PASS
Band4	1.4	20393	3	#Max	QPSK	23.10	PASS
Band4	1.4	20393	6	#0	QPSK	22.25	PASS
Band4	1.4	20393	1	#0	16QAM	23.25	PASS
Band4	1.4	20393		#Mid	16QAM	23.18	PASS
		20393	1		16QAM	23.34	PASS
Band4	1.4	20393	•	#Max #0	16QAM	23.34	1 1 1
Band4	1.4		3				PASS
Band4 Band4	1.4	20393		#Mid	16QAM	22.56	PASS
	1.4	20393	3	#Max	16QAM	22.59	PASS
Band4	1.4	20393	6	#0	16QAM	21.41	PASS
Band4	3	19965	1	#0	QPSK	22.97	PASS
Band4	3	19965	1	#Mid	QPSK	23.01	PASS
Band4	3	19965	1	#Max	QPSK	23.09	PASS
Band4	3	19965	8	#0	QPSK	22.13	PASS
Band4	3	19965	8	#Mid	QPSK	22.14	PASS
Band4	3	19965	8	#Max	QPSK	22.07	PASS
Band4	3	19965	15	#0	QPSK	22.09	PASS
Band4	3	19965	1	#0	16QAM	23.71	PASS
Band4	3	19965	1	#Mid	16QAM	23.73	PASS
Band4	3	19965	1	#Max	16QAM	23.72	PASS
Band4	3	19965	8	#0	16QAM	21.09	PASS
Band4	3	19965	8	#Mid	16QAM	21.10	PASS
Band4	3	19965	8	#Max	16QAM	21.10	PASS

No.: BCTC/RF-EMC-005 Page 39 of 164 Edition: B.2



				Re	port No. BC	1024079380	9/E
Band4	3	19965	15	#0	16QAM	21.34	PASS
Band4	3	20175	1	#0	QPSK	23.14	PASS
Band4	3	20175	1	#Mid	QPSK	23.12	PASS
Band4	3	20175	1	#Max	QPSK	23.12	PASS
Band4	3	20175	8	#0	QPSK	22.21	PASS
Band4	3	20175	8	#Mid	QPSK	22.16	PASS
Band4	3	20175	8	#Max	QPSK	22.23	PASS
Band4	3	20175	15	#0	QPSK	22.31	PASS
Band4	3	20175	1	#0	16QAM	23.43	PASS
Band4	3	20175	1	#Mid	16QAM	23.44	PASS
Band4	3	20175	1	#Max	16QAM	23.45	PASS
Band4	3	20175	8	#0	16QAM	21.58	PASS
Band4	3	20175	8	#Mid	16QAM	21.54	PASS
Band4	3	20175	8	#Max	16QAM	21.59	PASS
Band4	3	20175	15	#0	16QAM	21.33	PASS
Band4	3	20385	1	#0	QPSK	23.48	PASS
Band4	3	20385	1	#Mid	QPSK	23.45	PASS
Band4	3	20385	1	#Max	QPSK	23.53	PASS
Band4	3	20385	8	#0	QPSK	22.17	PASS
	3	20385	8	#Mid	QPSK	22.17	PASS
Band4	3		8			22.17	PASS
Band4	<u> </u>	20385		#Max	QPSK QPSK		
Band4		20385	15	#0		22.26	PASS
Band4	3	20385	1	#0	16QAM	23.23	PASS
Band4	3	20385	1	#Mid	16QAM	23.26	PASS
Band4	3	20385	1	#Max	16QAM	23.22	PASS
Band4	3	20385	8	#0	16QAM	21.28	PASS
Band4	3	20385	8	#Mid	16QAM	21.29	PASS
Band4	3	20385	8	#Max	16QAM	21.31	PASS
Band4	3	20385	15	#0	16QAM	21.34	PASS
Band4	5	19975	1	#0	QPSK	22.98	PASS
Band4	5	19975	1	#Mid	QPSK	22.93	PASS
Band4	5	19975	1	#Max	QPSK	22.99	PASS
Band4	5	19975	12	#0	QPSK	22.16	PASS
Band4	5	19975	12	#Mid	QPSK	22.08	PASS
Band4	5	19975	12	#Max	QPSK	22.12	PASS
Band4	5	19975	25	#0	QPSK	22.09	PASS
Band4	5	19975	1	#0	16QAM	22.83	PASS
Band4	5	19975	1	#Mid	16QAM	22.81	PASS
Band4	5	19975	1	#Max	16QAM	22.87	PASS
Band4	5	19975	12	#0	16QAM	21.12	PASS
Band4	5	19975	12	#Mid	16QAM	21.09	PASS
Band4	5	19975	12	#Max	16QAM	21.05	PASS
Band4	5	19975	25	#0	16QAM	21.29	PASS
Band4	5	20175	1	#0 A ₄	QPSK	23.25	PASS
Band4	5	20175	1	#Mid	QPSK	23.27	PASS
Band4	5	20175	1	#Max	QPSK	23.28	PASS
Band4	5	20175	12	#0	QPSK	22.26	PASS
Band4	5	20175	12	#Mid	QPSK	22.20	PASS
Band4	5	20175	12	#Max	QPSK	22.25	PASS
Band4	5	20175	25	#0	QPSK	22.22	PASS
Band4	5	20175	1	#0	16QAM	22.86	PASS
Band4	5	20175	1	#Mid	16QAM	22.77	PASS
Band4	5	20175	1	#Max	16QAM	22.86	PASS
Band4	5	20175	12	#0	16QAM	21.10	PASS
	<u>5</u>	20175	12	#Mid	16QAM	21.14	PASS
Band4 □				CLIVILLE	I U GC/ \IVI	. 41. LT	1 733
Band4 Band4	5	20175	12	#Max	16QAM	21.19	PASS

No.: BCTC/RF-EMC-005 Page 40 of 164 Edition: B.2



Band4 5 20375 1 #0 QPSK Band4 5 20375 1 #Mid QPSK Band4 5 20375 1 #Max QPSK Band4 5 20375 12 #0 QPSK Band4 5 20375 12 #Mid QPSK Band4 5 20375 12 #Max QPSK Band4 5 20375 12 #Max QPSK Band4 5 20375 1 #0 16QAM Band4 5 20375 1 #0 16QAM Band4 5 20375 1 #Max 16QAM Band4 5 20375 1 #Max 16QAM Band4 5 20375 12 #0 16QAM Band4 5 20375 12 #Mid 16QAM Band4 5 20375 12 #Max 16Q	23.14 23.10 23.14 22.20 22.26 22.21 22.31 23.19 23.16 23.17 21.28 21.26 21.21 21.46 23.06 23.06 23.06 23.12 22.05 22.10 22.10 22.23 23.70 23.76 23.85	PASS PASS PASS PASS PASS PASS PASS PASS
Band4 5 20375 1 #Max QPSK Band4 5 20375 12 #0 QPSK Band4 5 20375 12 #Mid QPSK Band4 5 20375 12 #Max QPSK Band4 5 20375 25 #0 QPSK Band4 5 20375 1 #0 16QAM Band4 5 20375 1 #Mid 16QAM Band4 5 20375 1 #Max 16QAM Band4 5 20375 1 #Max 16QAM Band4 5 20375 12 #Mid 16QAM Band4 5 20375 12 #Max 16QAM Band4 5 20375 12 #Max 16QAM Band4 5 20375 25 #0 16QAM Band4 10 20000 1 #Mid <	23.14 22.20 22.26 22.21 22.31 23.19 23.16 23.17 21.28 21.26 21.21 21.46 23.06 23.06 23.06 23.12 22.05 22.10 22.23 23.70 23.76	PASS PASS PASS PASS PASS PASS PASS PASS
Band4 5 20375 12 #0 QPSK Band4 5 20375 12 #Mid QPSK Band4 5 20375 12 #Max QPSK Band4 5 20375 1 #0 QPSK Band4 5 20375 1 #Mid 16QAM Band4 5 20375 1 #Max 16QAM Band4 5 20375 12 #0 16QAM Band4 5 20375 12 #0 16QAM Band4 5 20375 12 #Mid 16QAM Band4 5 20375 12 #Max 16QAM Band4 5 20375 12 #Max 16QAM Band4 5 20375 25 #0 16QAM Band4 10 20000 1 #Mid QPSK Band4 10 20000 1 #Max <	22.20 22.26 22.21 22.31 23.19 23.16 23.17 21.28 21.26 21.21 21.46 23.06 23.06 23.12 22.05 22.10 22.10 22.23 23.70 23.76	PASS PASS PASS PASS PASS PASS PASS PASS
Band4 5 20375 12 #Mid QPSK Band4 5 20375 12 #Max QPSK Band4 5 20375 25 #0 QPSK Band4 5 20375 1 #0 16QAM Band4 5 20375 1 #Max 16QAM Band4 5 20375 12 #0 16QAM Band4 5 20375 12 #Mid 16QAM Band4 5 20375 12 #Max 16QAM Band4 5 20375 12 #Max 16QAM Band4 5 20375 12 #Max 16QAM Band4 5 20375 25 #0 16QAM Band4 10 20000 1 #Mid QPSK Band4 10 20000 1 #Max QPSK Band4 10 20000 25 #Max	22.26 22.21 22.31 23.19 23.16 23.17 21.28 21.26 21.21 21.46 23.06 23.06 23.12 22.05 22.10 22.10 22.23 23.70 23.76	PASS PASS PASS PASS PASS PASS PASS PASS
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Band4 5 20375 25 #0 QPSK Band4 5 20375 1 #0 16QAM Band4 5 20375 1 #Mid 16QAM Band4 5 20375 1 #Max 16QAM Band4 5 20375 12 #Mid 16QAM Band4 5 20375 12 #Max 16QAM Band4 5 20375 12 #Max 16QAM Band4 5 20375 25 #0 16QAM Band4 10 20000 1 #Mid QPSK Band4 10 20000 1 #Max QPSK Band4 10 20000 25 #Mid QPSK Band4 10 20000 25 #Max QPSK Band4 10 20000 25 #Max QPSK Band4 10 20000 50 #0	22.31 23.19 23.16 23.17 21.28 21.26 21.21 21.46 23.06 23.06 23.12 22.05 22.10 22.10 22.23 23.70 23.76	PASS PASS PASS PASS PASS PASS PASS PASS
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Band4 5 20375 1 #Mid 16QAM Band4 5 20375 1 #Max 16QAM Band4 5 20375 12 #0 16QAM Band4 5 20375 12 #Mid 16QAM Band4 5 20375 12 #Max 16QAM Band4 5 20375 25 #0 16QAM Band4 10 20000 1 #Mid QPSK Band4 10 20000 1 #Max QPSK Band4 10 20000 25 #0 QPSK Band4 10 20000 25 #Mid QPSK Band4 10 20000 25 #Max QPSK Band4 10 20000 50 #0 QPSK Band4 10 20000 1 #0 16QAM Band4 10 20000 1 #Mid	23.16 23.17 21.28 21.26 21.21 21.46 23.06 23.06 23.12 22.05 22.10 22.10 22.23 23.70 23.76	PASS PASS PASS PASS PASS PASS PASS PASS
Band4 5 20375 1 #Max 16QAM Band4 5 20375 12 #0 16QAM Band4 5 20375 12 #Mid 16QAM Band4 5 20375 12 #Max 16QAM Band4 5 20375 25 #0 16QAM Band4 10 20000 1 #0 QPSK Band4 10 20000 1 #Mid QPSK Band4 10 20000 1 #Max QPSK Band4 10 20000 25 #Mid QPSK Band4 10 20000 25 #Max QPSK Band4 10 20000 50 #0 QPSK Band4 10 20000 1 #0 16QAM Band4 10 20000 1 #Mid 16QAM Band4 10 20000 1 #Mid	23.17 21.28 21.26 21.21 21.46 23.06 23.06 23.12 22.05 22.10 22.10 22.23 23.70 23.76	PASS PASS PASS PASS PASS PASS PASS PASS
Band4 5 20375 12 #0 16QAM Band4 5 20375 12 #Mid 16QAM Band4 5 20375 12 #Max 16QAM Band4 5 20375 25 #0 16QAM Band4 10 20000 1 #0 QPSK Band4 10 20000 1 #Mid QPSK Band4 10 20000 25 #0 QPSK Band4 10 20000 25 #Mid QPSK Band4 10 20000 25 #Max QPSK Band4 10 20000 50 #0 QPSK Band4 10 20000 1 #0 16QAM Band4 10 20000 1 #Mid 16QAM Band4 10 20000 1 #Mid 16QAM Band4 10 20000 1 #Mid	21.28 21.26 21.21 21.46 23.06 23.06 23.12 22.05 22.10 22.10 22.23 23.70 23.76	PASS PASS PASS PASS PASS PASS PASS PASS
Band4 5 20375 12 #Mid 16QAM Band4 5 20375 12 #Max 16QAM Band4 5 20375 25 #0 16QAM Band4 10 20000 1 #0 QPSK Band4 10 20000 1 #Mid QPSK Band4 10 20000 25 #0 QPSK Band4 10 20000 25 #Mid QPSK Band4 10 20000 25 #Max QPSK Band4 10 20000 25 #Max QPSK Band4 10 20000 50 #0 QPSK Band4 10 20000 1 #0 16QAM Band4 10 20000 1 #Mid 16QAM Band4 10 20000 1 #Max 16QAM Band4 10 20000 1 #Mid	21.26 21.21 21.46 23.06 23.06 23.12 22.05 22.10 22.10 22.23 23.70 23.76	PASS PASS PASS PASS PASS PASS PASS PASS
Band4 5 20375 12 #Max 16QAM Band4 5 20375 25 #0 16QAM Band4 10 20000 1 #0 QPSK Band4 10 20000 1 #Mid QPSK Band4 10 20000 25 #0 QPSK Band4 10 20000 25 #Mid QPSK Band4 10 20000 25 #Max QPSK Band4 10 20000 25 #Max QPSK Band4 10 20000 50 #0 QPSK Band4 10 20000 1 #0 16QAM Band4 10 20000 1 #Mid 16QAM Band4 10 20000 1 #Max 16QAM Band4 10 20000 1 #Max 16QAM	21.21 21.46 23.06 23.06 23.12 22.05 22.10 22.10 22.23 23.70 23.76	PASS PASS PASS PASS PASS PASS PASS PASS
Band4 5 20375 25 #0 16QAM Band4 10 20000 1 #0 QPSK Band4 10 20000 1 #Mid QPSK Band4 10 20000 25 #0 QPSK Band4 10 20000 25 #Mid QPSK Band4 10 20000 25 #Max QPSK Band4 10 20000 25 #Max QPSK Band4 10 20000 50 #0 QPSK Band4 10 20000 1 #0 16QAM Band4 10 20000 1 #Mid 16QAM Band4 10 20000 1 #Max 16QAM Band4 10 20000 1 #Max 16QAM	21.46 23.06 23.06 23.12 22.05 22.10 22.10 22.23 23.70 23.76	PASS PASS PASS PASS PASS PASS PASS PASS
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Band4 10 20000 1 #Mid QPSK Band4 10 20000 1 #Max QPSK Band4 10 20000 25 #0 QPSK Band4 10 20000 25 #Mid QPSK Band4 10 20000 25 #Max QPSK Band4 10 20000 50 #0 QPSK Band4 10 20000 1 #0 16QAM Band4 10 20000 1 #Mid 16QAM Band4 10 20000 1 #Max 16QAM	23.06 23.12 22.05 22.10 22.10 22.23 23.70 23.76	PASS PASS PASS PASS PASS PASS
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Band4 10 20000 1 #Mid 16QAM Band4 10 20000 1 #Max 16QAM	23.76	1
Band4 10 20000 1 #Max 16QAM		PASS
	23 82	PASS
	23.00	PASS
Band4 10 20000 25 #0 16QAM	21.26	PASS
Band4 10 20000 25 #Mid 16QAM	21.23	PASS
Band4 10 20000 25 #Max 16QAM	21.27	PASS
Band4 10 20000 50 #0 16QAM	21.26	PASS
Band4 10 20175 1 #0 QPSK	23.29	PASS
Band4 10 20175 1 #Mid QPSK	23.30	PASS
Band4 10 20175 1 #Max QPSK	23.32	PASS
Band4 10 20175 25 #0 QPSK	22.20	PASS
Band4 10 20175 25 #Mid QPSK	22.21	PASS
Band4 10 20175 25 #Max QPSK	22.29	PASS
Band4 10 20175 50 #0 QPSK	22.32	PASS
Band4 10 20175 1 #0 16QAM	22.70	PASS
Band4 10 20175 1 #Mid 16QAM	22.77	PASS
Band4 10 20175 1 #Max 16QAM	22.79	PASS
Band4 10 20175 25 #0 16QAM	21.34	PASS
Band4 10 20175 25 #Mid 16QAM	21.39	PASS
Band4 10 20175 25 #Max 16QAM	21.38	PASS
Band4 10 20175 50 #0 16QAM	21.37	PASS
Band4 10 20350 1 #0 QPSK	23.30	PASS
Band4 10 20350 1 #Mid QPSK	23.35	PASS
Band4 10 20350 1 #Max QPSK	23.28	PASS
Band4 10 20350 25 #0 QPSK	22.22	PASS
Band4 10 20350 25 #Mid QPSK	22.32	PASS
Band4 10 20350 25 #Max QPSK	22.17	PASS
Band4 10 20350 50 #0 QPSK	22.26	PASS
Band4 10 20350 1 #0 16QAM	22.87	PASS
Band4 10 20350 1 #Mid 16QAM	23.01	PASS
Band4 10 20350 1 #Max 16QAM	22.83	PASS
Band4 10 20350 25 #0 16QAM	21.32	PASS
Band4 10 20350 25 #Mid 16QAM	21.41	PASS
Band4 10 20350 25 #Max 16QAM	21.29	PASS
Band4 10 20350 50 #0 16QAM	21.35	PASS
Band4 15 20025 1 #0 QPSK	23.20	PASS

No.: BCTC/RF-EMC-005 Page 41 of 164 Edition: B.2



Band4					Re	port No: BC	TC240/93809	9/E
Band4	Band4			1	#Mid			PASS
Band4	Band4			•				PASS
Band4	Band4	15	20025	36	#0	QPSK	22.15	PASS
Band4	Band4		20025		#Mid			PASS
Band4	Band4	15	20025	36	#Max	QPSK	22.18	PASS
Band4		15						PASS
Band4								PASS
Band4		15		1	#Mid			PASS
Band4	Band4	15	20025	1	#Max	16QAM	23.90	PASS
Band4	Band4	15	20025	36	#0	16QAM	21.19	PASS
Band4	Band4	15	20025	36	#Mid	16QAM	21.23	PASS
Band4	Band4	15	20025	36	#Max	16QAM	21.22	PASS
Band4 15 20175 1 #Midx QPSK 23.31 PASS Band4 15 20175 1 #Max QPSK 23.39 PASS Band4 15 20175 36 #0 QPSK 22.19 PASS Band4 15 20175 36 #Mid QPSK 22.29 PASS Band4 15 20175 36 #Max QPSK 22.28 PASS Band4 15 20175 75 #0 QPSK 22.28 PASS Band4 15 20175 1 #Mid 16QAM 23.43 PASS Band4 15 20175 1 #Mid 16QAM 23.43 PASS Band4 15 20175 36 #0 16QAM 23.49 PASS Band4 15 20175 36 #Mid 16QAM 21.43 PASS Band4 15 20175 36 #M	Band4	15	20025	75	#0	16QAM	21.27	PASS
Band4 15 20175 1 #Max QPSK 23.39 PASS Band4 15 20175 36 #0 QPSK 22.19 PASS Band4 15 20175 36 #Mid QPSK 22.29 PASS Band4 15 20175 36 #Max QPSK 22.28 PASS Band4 15 20175 75 #0 QPSK 22.28 PASS Band4 15 20175 1 #0 16QAM 23.46 PASS Band4 15 20175 1 #Mid 16QAM 23.42 PASS Band4 15 20175 36 #0 16QAM 23.42 PASS Band4 15 20175 36 #Mid 16QAM 21.48 PASS Band4 15 20175 36 #Mid 16QAM 21.49 PASS Band4 15 20175 36 #Mi	Band4	15	20175	1	#0	QPSK	23.26	PASS
Band4 15 20175 36 #0 QPSK 22.19 PASS Band4 15 20175 36 #Mid QPSK 22.29 PASS Band4 15 20175 75 #0 QPSK 22.25 PASS Band4 15 20175 1 #0 16QAM 23.46 PASS Band4 15 20175 1 #0 16QAM 23.46 PASS Band4 15 20175 1 #Mid 16QAM 23.43 PASS Band4 15 20175 36 #0 16QAM 21.38 PASS Band4 15 20175 36 #0 16QAM 21.38 PASS Band4 15 20175 36 #Miax 16QAM 21.32 PASS Band4 15 20175 36 #Miax 16QAM 21.32 PASS Band4 15 20325 1 #Mid	Band4	15	20175	1	#Mid	QPSK	23.31	PASS
Band4 15 20175 36 #Mid QPSK 22.29 PASS Band4 15 20175 36 #Max QPSK 22.25 PASS Band4 15 20175 75 #0 QPSK 22.28 PASS Band4 15 20175 1 #0 16QAM 23.46 PASS Band4 15 20175 1 #Mid 16QAM 23.43 PASS Band4 15 20175 36 #Max 16QAM 21.38 PASS Band4 15 20175 36 #Mid 16QAM 21.38 PASS Band4 15 20175 36 #Mid 16QAM 21.38 PASS Band4 15 20175 36 #Max 16QAM 21.32 PASS Band4 15 20325 1 #Mid QPSK 23.11 PASS Band4 15 20325 1 <t></t>	Band4	15	20175	1	#Max	QPSK	23.39	PASS
Band4 15 20175 36 #Max QPSK 22.25 PASS Band4 15 20175 75 #0 QPSK 22.28 PASS Band4 15 20175 1 #0 16QAM 23.43 PASS Band4 15 20175 1 #Max 16QAM 23.43 PASS Band4 15 20175 1 #Max 16QAM 23.43 PASS Band4 15 20175 36 #0 16QAM 21.38 PASS Band4 15 20175 36 #Mid 16QAM 21.46 PASS Band4 15 20175 36 #Max 16QAM 21.46 PASS Band4 15 20175 36 #Max 16QAM 21.46 PASS Band4 15 20325 1 #Max 16QAM 21.32 PASS Band4 15 20325 1	Band4	15	20175	36	#0	QPSK	22.19	PASS
Band4 15 20175 75 #0 QPSK 22.28 PASS Band4 15 20175 1 #0 16QAM 23.46 PASS Band4 15 20175 1 #Mid 16QAM 23.43 PASS Band4 15 20175 36 #0 16QAM 23.52 PASS Band4 15 20175 36 #0 16QAM 21.38 PASS Band4 15 20175 36 #Mid 16QAM 21.43 PASS Band4 15 20175 36 #Max 16QAM 21.43 PASS Band4 15 20175 75 #0 16QAM 21.43 PASS Band4 15 20325 1 #Mid QPSK 23.11 PASS Band4 15 20325 1 #Mid QPSK 23.11 PASS Band4 15 20325 36 #Mid	Band4	15	20175	36	#Mid	QPSK	22.29	PASS
Band4 15 20175 75 #0 QPSK 22.28 PASS Band4 15 20175 1 #0 16QAM 23.46 PASS Band4 15 20175 1 #Mid 16QAM 23.43 PASS Band4 15 20175 36 #0 16QAM 21.38 PASS Band4 15 20175 36 #Mid 16QAM 21.43 PASS Band4 15 20175 36 #Mid 16QAM 21.43 PASS Band4 15 20175 36 #Mid 16QAM 21.43 PASS Band4 15 20175 75 #0 16QAM 21.43 PASS Band4 15 20325 1 #Mid QPSK 23.11 PASS Band4 15 20325 1 #Mid QPSK 23.11 PASS Band4 15 20325 36 #M	Band4	15		36	#Max	QPSK	22.25	PASS
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Band4 15 20175 75 #0 16QAM 21.32 PASS Band4 15 20325 1 #0 QPSK 23.14 PASS Band4 15 20325 1 #Mid QPSK 23.11 PASS Band4 15 20325 1 #Max QPSK 23.11 PASS Band4 15 20325 36 #0 QPSK 22.24 PASS Band4 15 20325 36 #Mid QPSK 22.27 PASS Band4 15 20325 36 #Max QPSK 22.17 PASS Band4 15 20325 75 #0 QPSK 22.17 PASS Band4 15 20325 1 #0 16QAM 23.72 PASS Band4 15 20325 1 #Mid 16QAM 23.72 PASS Band4 15 20325 36 #Mid	Band4	15	20175	36	#Mid	16QAM	21.46	PASS
Band4 15 20325 1 #0 QPSK 23.14 PASS Band4 15 20325 1 #Mid QPSK 23.11 PASS Band4 15 20325 1 #Max QPSK 23.11 PASS Band4 15 20325 36 #0 QPSK 22.24 PASS Band4 15 20325 36 #Mid QPSK 22.27 PASS Band4 15 20325 36 #Max QPSK 22.17 PASS Band4 15 20325 36 #Max QPSK 22.17 PASS Band4 15 20325 75 #0 QPSK 22.17 PASS Band4 15 20325 1 #Mid 16QAM 23.72 PASS Band4 15 20325 36 #Mid 16QAM 21.26 PASS Band4 15 20325 36 #Mid<	Band4	15	20175	36	#Max	16QAM	21.43	PASS
Band4 15 20325 1 #Mid QPSK 23.11 PASS Band4 15 20325 1 #Max QPSK 23.11 PASS Band4 15 20325 36 #0 QPSK 22.24 PASS Band4 15 20325 36 #Mid QPSK 22.17 PASS Band4 15 20325 36 #Max QPSK 22.17 PASS Band4 15 20325 75 #0 QPSK 22.17 PASS Band4 15 20325 1 #0 16QAM 23.72 PASS Band4 15 20325 1 #Max 16QAM 23.73 PASS Band4 15 20325 1 #Max 16QAM 23.72 PASS Band4 15 20325 36 #Mid 16QAM 21.26 PASS Band4 15 20325 36 #Max	Band4	15	20175	75	#0	16QAM	21.32	PASS
Band4 15 20325 1 #Max QPSK 23.11 PASS Band4 15 20325 36 #0 QPSK 22.24 PASS Band4 15 20325 36 #Mid QPSK 22.27 PASS Band4 15 20325 36 #Max QPSK 22.17 PASS Band4 15 20325 75 #0 QPSK 22.17 PASS Band4 15 20325 1 #0 16QAM 23.72 PASS Band4 15 20325 1 #Mid 16QAM 23.73 PASS Band4 15 20325 1 #Max 16QAM 23.72 PASS Band4 15 20325 36 #0 16QAM 23.72 PASS Band4 15 20325 36 #0 16QAM 21.22 PASS Band4 15 20325 36 #Mid </td <td>Band4</td> <td>15</td> <td>20325</td> <td>1</td> <td>#0</td> <td>QPSK</td> <td>23.14</td> <td>PASS</td>	Band4	15	20325	1	#0	QPSK	23.14	PASS
Band4 15 20325 36 #0 QPSK 22.24 PASS Band4 15 20325 36 #Mid QPSK 22.27 PASS Band4 15 20325 36 #Max QPSK 22.17 PASS Band4 15 20325 75 #0 QPSK 22.17 PASS Band4 15 20325 1 #0 16QAM 23.72 PASS Band4 15 20325 1 #Mid 16QAM 23.73 PASS Band4 15 20325 1 #Mid 16QAM 23.72 PASS Band4 15 20325 36 #0 16QAM 23.72 PASS Band4 15 20325 36 #Mid 16QAM 21.33 PASS Band4 15 20325 36 #Mid 16QAM 21.33 PASS Band4 15 20325 75 #0	Band4	15	20325	1	#Mid	QPSK	23.11	PASS
Band4 15 20325 36 #Mid QPSK 22.27 PASS Band4 15 20325 36 #Max QPSK 22.17 PASS Band4 15 20325 75 #0 QPSK 22.17 PASS Band4 15 20325 1 #0 16QAM 23.72 PASS Band4 15 20325 1 #Mid 16QAM 23.73 PASS Band4 15 20325 1 #Max 16QAM 23.72 PASS Band4 15 20325 36 #0 16QAM 23.72 PASS Band4 15 20325 36 #0 16QAM 21.26 PASS Band4 15 20325 36 #Mid 16QAM 21.33 PASS Band4 15 20325 36 #Max 16QAM 21.33 PASS Band4 15 20325 75 #	Band4	15	20325	1	#Max	QPSK		PASS
Band4 15 20325 36 #Max QPSK 22.17 PASS Band4 15 20325 75 #0 QPSK 22.17 PASS Band4 15 20325 1 #0 16QAM 23.72 PASS Band4 15 20325 1 #Mid 16QAM 23.72 PASS Band4 15 20325 1 #Max 16QAM 23.72 PASS Band4 15 20325 36 #0 16QAM 21.26 PASS Band4 15 20325 36 #Mid 16QAM 21.26 PASS Band4 15 20325 36 #Mid 16QAM 21.23 PASS Band4 15 20325 36 #Max 16QAM 21.33 PASS Band4 15 20325 75 #0 16QAM 21.33 PASS Band4 20 20050 1 #	Band4	15	20325	36	#0	QPSK	22.24	PASS
Band4 15 20325 75 #0 QPSK 22.17 PASS Band4 15 20325 1 #0 16QAM 23.72 PASS Band4 15 20325 1 #Mid 16QAM 23.73 PASS Band4 15 20325 1 #Max 16QAM 23.72 PASS Band4 15 20325 36 #0 16QAM 21.26 PASS Band4 15 20325 36 #Mid 16QAM 21.22 PASS Band4 15 20325 36 #Max 16QAM 21.33 PASS Band4 15 20325 36 #Max 16QAM 21.33 PASS Band4 15 20325 75 #0 16QAM 21.33 PASS Band4 20 20050 1 #Mid QPSK 23.04 PASS Band4 20 20050 1 #M	Band4	15	20325	36	#Mid	QPSK	22.27	PASS
Band4 15 20325 1 #0 16QAM 23.72 PASS Band4 15 20325 1 #Mid 16QAM 23.73 PASS Band4 15 20325 1 #Max 16QAM 23.72 PASS Band4 15 20325 36 #0 16QAM 21.26 PASS Band4 15 20325 36 #Mid 16QAM 21.22 PASS Band4 15 20325 36 #Max 16QAM 21.33 PASS Band4 15 20325 36 #Max 16QAM 21.33 PASS Band4 15 20325 75 #0 16QAM 21.36 PASS Band4 20 20050 1 #Mid QPSK 23.04 PASS Band4 20 20050 1 #Max QPSK 23.18 PASS Band4 20 20050 50	Band4	15	20325	36	#Max	QPSK	22.17	PASS
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Band4 15 20325 1 #Max 16QAM 23.72 PASS Band4 15 20325 36 #0 16QAM 21.26 PASS Band4 15 20325 36 #Mid 16QAM 21.22 PASS Band4 15 20325 36 #Max 16QAM 21.33 PASS Band4 15 20325 75 #0 16QAM 21.36 PASS Band4 20 20050 1 #0 QPSK 23.04 PASS Band4 20 20050 1 #Mid QPSK 23.09 PASS Band4 20 20050 1 #Max QPSK 23.18 PASS Band4 20 20050 50 #0 QPSK 22.10 PASS Band4 20 20050 50 #Max QPSK 22.21 PASS Band4 20 20050 1 #0 <td>Band4</td> <td>15</td> <td>20325</td> <td>1</td> <td>#0</td> <td>16QAM</td> <td>23.72</td> <td>PASS</td>	Band4	15	20325	1	#0	16QAM	23.72	PASS
Band4 15 20325 36 #0 16QAM 21.26 PASS Band4 15 20325 36 #Mid 16QAM 21.22 PASS Band4 15 20325 36 #Max 16QAM 21.33 PASS Band4 15 20325 75 #0 16QAM 21.36 PASS Band4 20 20050 1 #0 QPSK 23.04 PASS Band4 20 20050 1 #Mid QPSK 23.09 PASS Band4 20 20050 1 #Max QPSK 23.18 PASS Band4 20 20050 50 #0 QPSK 22.10 PASS Band4 20 20050 50 #Max QPSK 22.18 PASS Band4 20 20050 50 #Max QPSK 22.18 PASS Band4 20 20050 1 #Mid<	Band4		20325	1	#Mid	16QAM	23.73	PASS
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Band4 20 20050 50 #0 16QAM 21.35 PASS Band4 20 20050 50 #Mid 16QAM 21.33 PASS Band4 20 20050 50 #Max 16QAM 21.41 PASS Band4 20 20050 100 #0 16QAM 21.22 PASS Band4 20 20175 1 #0 QPSK 23.18 PASS								PASS
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Band4 20 20050 50 #Max 16QAM 21.41 PASS Band4 20 20050 100 #0 16QAM 21.22 PASS Band4 20 20175 1 #0 QPSK 23.18 PASS	Band4							PASS
Band4 20 20050 100 #0 16QAM 21.22 PASS Band4 20 20175 1 #0 QPSK 23.18 PASS	Band4		20050		#Mid	16QAM		PASS
Band4 20 20175 1 #0 QPSK 23.18 PASS					#Max			PASS
	Band4	20	20050	100			21.22	PASS
				1				PASS
DATION 1 #IVIIU QFON 23.24// FASS	Band4	20	20175	1	#Mid	QPSK	23.24	PASS

No.: BCTC/RF-EMC-005 Page 42 of 164 Edition: B.2



Band4	20	20175	1	#Max	QPSK	23.26	PASS
Band4	20	20175	50	#0	QPSK	22.14	PASS
Band4	20	20175	50	#Mid	QPSK	22.25	PASS
Band4	20	20175	50	#Max	QPSK	22.27	PASS
Band4	20	20175	100	#0	QPSK	22.32	PASS
Band4	20	20175	1	#0	16QAM	22.77	PASS
Band4	20	20175	1	#Mid	16QAM	22.87	PASS
Band4	20	20175	1	#Max	16QAM	22.94	PASS
Band4	20	20175	50	#0	16QAM	21.28	PASS
Band4	20	20175	50	#Mid	16QAM	21.33	PASS
Band4	20	20175	50	#Max	16QAM	21.37	PASS
Band4	20	20175	100	#0	16QAM	21.33	PASS
Band4	20	20300	1	#0	QPSK	23.32	PASS
Band4	20	20300	1	#Mid	QPSK	23.35	PASS
Band4	20	20300	1	#Max	QPSK	23.36	PASS
Band4	20	20300	50	#0	QPSK	22.23	PASS
Band4	20	20300	50	#Mid	QPSK	22.31	PASS
Band4	20	20300	50	#Max	QPSK	22.30	PASS
Band4	20	20300	100	#0	QPSK	22.26	PASS
Band4	20	20300	1	#0	16QAM	22.85	PASS
Band4	20	20300	1	#Mid	16QAM	22.87	PASS
Band4	20	20300	1	#Max	16QAM	22.92	PASS
Band4	20	20300	50	#0	16QAM	21.35	PASS
Band4	20	20300	50	#Mid	16QAM	21.39	PASS
Band4	20	20300	50	#Max	16QAM	21.41	PASS
Band4	20	20300	100	#0	16QAM	21.36	PASS





D	December 2 101 (5 41 1 1)	111 01 - 1	DD 0:	DD D - 111	NA - J J - C	D (!D .)	Marile
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band7	5	20775	1	#0	QPSK	21.57	PASS
Band7	5	20775	1	#Mid	QPSK	21.46	PASS
Band7	5	20775	1	#Max	QPSK	21.46	PASS
Band7	5	20775	12	#0	QPSK	20.48	PASS
Band7	5	20775	12	#Mid	QPSK	20.56	PASS
Band7	5	20775	12	#Max	QPSK	20.47	PASS
Band7	5	20775	25	#0	QPSK	20.55	PASS
Band7	5	20775	1	#0	16QAM	20.88	PASS
Band7	5	20775	1	#Mid	16QAM	20.75	PASS
Band7	5	20775	1 12	#Max #0	16QAM	20.80	PASS
Band7	5	20775		#Mid	16QAM	19.57	PASS
Band7	5	20775	12 12		16QAM	19.54	PASS
Band7	5 5	20775	25	#Max #0	16QAM 16QAM	19.52 19.67	PASS PASS
Band7	5	20775 21100		#0	QPSK		PASS
Band7 Band7	<u> </u>	21100	1	#Mid	QPSK	21.46 21.45	PASS
Band7	5	21100	1	#Max	QPSK	21.38	PASS
Band7	5	21100	12	#IVIAX #0	QPSK	20.56	PASS
Band7	5	21100	12	#Mid	QPSK	20.48	PASS
Band7	5	21100	12	#Max	QPSK	20.51	PASS
Band7	5	21100	25	#0	QPSK	20.56	PASS
Band7	5	21100	1	#0	16QAM	21.14	PASS
Band7	5	21100	1	#Mid	16QAM	21.14	PASS
Band7	5	21100	1	#Max	16QAM	20.98	PASS
Band7	5	21100	12	#0	16QAM	19.63	PASS
Band7	5	21100	12	#Mid	16QAM	19.54	PASS
Band7	5	21100	12	#Max	16QAM	19.49	PASS
Band7	5	21100	25	#0	16QAM	19.59	PASS
Band7	5	21425	1	#0	QPSK	21.10	PASS
Band7	5	21425	1	#Mid	QPSK	21.02	PASS
Band7	5	21425	1	#Max	QPSK	21.03	PASS
Band7	5	21425	12	#0	QPSK	20.00	PASS
Band7	5	21425	12	#Mid	QPSK	20.02	PASS
Band7	5	21425	12	#Max	QPSK	20.04	PASS
Band7	5	21425	25	#0	QPSK	20.03	PASS
Band7	5	21425	1	#0	16QAM	20.77	PASS
Band7	5	21425	1	#Mid	16QAM	20.65	PASS
Band7	5	21425	1	#Max	16QAM	20.60	PASS
Band7	5	21425	12	#0	16QAM	19.03	PASS
Band7	5	21425	12	#Mid	16QAM	19.02	PASS
Band7	5	21425	12	#Max	16QAM	19.00	PASS
Band7	5	21425	25	#0 ·	16QAM	19.37	PASS
Band7	10	20800	1	#0	QPSK	21.61	PASS
Band7	10	20800	1	#Mid	QPSK	21.42	PASS
Band7	10	20800	1	#Max	QPSK	21.34	PASS
Band7	10	20800	25	#0	QPSK	20.57	PASS
Band7	10	20800	25	#Mid	QPSK	20.57	PASS
Band7	10	20800	25	#Max	QPSK	20.45	PASS
Band7	10	20800	50	#0	QPSK	20.51	PASS
Band7	10	20800	1	#0	16QAM	22.28	PASS
Band7	10	20800	1	#Mid	16QAM	22.15	PASS
Band7	10	20800	1	#Max	16QAM	22.07	PASS
Band7	10	20800	25	#0	16QAM	19.60	PASS
Band7	10	20800	25	#Mid	16QAM	19.47	PASS
Band7	10	20800	25	#Max	16QAM	19.46	PASS

No.: BCTC/RF-EMC-005 Page 44 of 164 Edition: B.2



Band7					Re	portivo. BC	10240793803)/ C
Band7	Band7	10	20800	50	#0		19.58	PASS
Band7	Band7			1				PASS
Band7				1				PASS
Band7								PASS
Band7	Band7							PASS
Band7	Band7		21100					PASS
Band7	Band7	10	21100	25	#Max		20.49	PASS
Band7	Band7			50				PASS
Band7	Band7		21100	1			21.13	PASS
Band7	Band7			1				PASS
Band7	Band7							PASS
Band7	Band7		21100			16QAM	19.70	PASS
Band7 10 21100 50 #0 16QAM 19.68 P Band7 10 21400 1 #0 QPSK 21.01 P Band7 10 21400 1 #Mid QPSK 21.13 P Band7 10 21400 25 #0 QPSK 20.03 P Band7 10 21400 25 #0 QPSK 20.06 P Band7 10 21400 25 #Mid QPSK 20.06 P Band7 10 21400 25 #Max QPSK 20.06 P Band7 10 21400 50 #0 QPSK 20.14 P Band7 10 21400 1 #Max 16QAM 20.56 P Band7 10 21400 1 #Max 16QAM 20.56 P Band7 10 21400 25 #Mid 16QAM	Band7							PASS
Band7 10 21400 1 #0 QPSK 21.01 P Band7 10 21400 1 #Mid QPSK 21.13 P Band7 10 21400 25 #0 QPSK 20.03 P Band7 10 21400 25 #Mid QPSK 20.06 P Band7 10 21400 25 #Mid QPSK 20.06 P Band7 10 21400 50 #0 QPSK 20.14 P Band7 10 21400 1 #0 16QAM 20.54 P Band7 10 21400 1 #Mid 16QAM 20.56 P Band7 10 21400 25 #0 16QAM 19.07 P Band7 10 21400 25 #Mid 16QAM 19.07 P Band7 10 21400 25 #Mid 16QAM	Band7	10	21100	25	#Max	16QAM	19.59	PASS
Band7 10 21400 1 #Mid QPSK 21.13 P Band7 10 21400 1 #Max QPSK 21.13 P Band7 10 21400 25 #0 QPSK 20.06 P Band7 10 21400 25 #Max QPSK 20.06 P Band7 10 21400 25 #Max QPSK 20.06 P Band7 10 21400 50 #0 QPSK 20.06 P Band7 10 21400 1 #0 16QAM 20.54 P Band7 10 21400 1 #Max 16QAM 20.56 P Band7 10 21400 25 #0 16QAM 19.07 P Band7 10 21400 25 #Max 16QAM 19.19 P Band7 10 21400 25 #Max 16QAM	Band7		21100	50				PASS
Band7 10 21400 1 #Max QPSK 21.13 P Band7 10 21400 25 #0 QPSK 20.03 P Band7 10 21400 25 #Mid QPSK 20.06 P Band7 10 21400 50 #0 QPSK 20.14 P Band7 10 21400 1 #0 16QAM 20.54 P Band7 10 21400 1 #0 16QAM 20.70 P Band7 10 21400 1 #Mid 16QAM 20.70 P Band7 10 21400 25 #0 16QAM 20.70 P Band7 10 21400 25 #0 16QAM 19.19 P Band7 10 21400 25 #Mid 16QAM 19.16 P Band7 10 21400 25 #Mid 16QAM	Band7		21400	1	#0			PASS
Band7 10 21400 25 #0 QPSK 20.03 P Band7 10 21400 25 #Mid QPSK 20.06 P Band7 10 21400 25 #Max QPSK 20.06 P Band7 10 21400 50 #0 QPSK 20.14 P Band7 10 21400 1 #0 160AM 20.54 P Band7 10 21400 1 #Mid 160AM 20.56 P Band7 10 21400 25 #0 160AM 19.07 P Band7 10 21400 25 #0 160AM 19.07 P Band7 10 21400 25 #Mid 160AM 19.16 P Band7 10 21400 25 #Mid 160AM 19.16 P Band7 15 20825 1 #0 QPSK	Band7	10	21400	1	#Mid	QPSK		PASS
Band7 10 21400 25 #Mid QPSK 20.06 P Band7 10 21400 25 #Max QPSK 20.06 P Band7 10 21400 50 #0 QPSK 20.14 P Band7 10 21400 1 #0 16QAM 20.54 P Band7 10 21400 1 #Mid 16QAM 20.70 P Band7 10 21400 1 #Mid 16QAM 20.56 P Band7 10 21400 25 #Mid 16QAM 19.07 P Band7 10 21400 25 #Mid 16QAM 19.19 P Band7 10 21400 25 #Mid 16QAM 19.19 P Band7 10 21400 25 #Mid 16QAM 19.23 P Band7 15 20825 1 #Mo QPSK <td>Band7</td> <td>10</td> <td>21400</td> <td>1</td> <td>#Max</td> <td>QPSK</td> <td>21.13</td> <td>PASS</td>	Band7	10	21400	1	#Max	QPSK	21.13	PASS
Band7 10 21400 25 #Max QPSK 20.06 P Band7 10 21400 50 #0 QPSK 20.14 P Band7 10 21400 1 #0 16QAM 20.54 P Band7 10 21400 1 #Mid 16QAM 20.70 P Band7 10 21400 1 #Max 16QAM 20.56 P Band7 10 21400 25 #Mid 16QAM 19.07 P Band7 10 21400 25 #Mid 16QAM 19.19 P Band7 10 21400 25 #Max 16QAM 19.19 P Band7 10 21400 50 #0 16QAM 19.19 P Band7 15 20825 1 #Mid QPSK 21.42 P Band7 15 20825 1 #Mid QPSK	Band7							PASS
Band7 10 21400 50 #0 QPSK 20.14 P Band7 10 21400 1 #0 16QAM 20.54 P Band7 10 21400 1 #Max 16QAM 20.70 P Band7 10 21400 1 #Max 16QAM 20.76 P Band7 10 21400 25 #Mid 16QAM 19.07 P Band7 10 21400 25 #Mid 16QAM 19.19 P Band7 10 21400 25 #Mid 16QAM 19.16 P Band7 10 21400 50 #0 16QAM 19.23 P Band7 15 20825 1 #Mid QPSK 21.42 P Band7 15 20825 1 #Mid QPSK 21.32 P Band7 15 20825 36 #Mid QPSK	Band7	10	21400			QPSK	20.06	PASS
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No.: BCTC/RF-EMC-005 Page 45 of 164 Edition: B.2



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Band7 20 20850 1 #0 16QAM 21.26 F Band7 20 20850 1 #Mid 16QAM 21.15 F Band7 20 20850 1 #Max 16QAM 21.22 F Band7 20 20850 50 #0 16QAM 19.71 F Band7 20 20850 50 #Mid 16QAM 19.55 F Band7 20 20850 50 #Max 16QAM 19.55 F Band7 20 20850 100 #0 16QAM 19.49 F Band7 20 20850 100 #0 16QAM 19.49 F Band7 20 21100 1 #Mid QPSK 21.54 F Band7 20 21100 1 #Miax QPSK 21.23 F Band7 20 21100 50 #Max QPSK <td>PASS</td>	PASS
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Band7 20 20850 50 #Mid 16QAM 19.55 F Band7 20 20850 50 #Max 16QAM 19.62 F Band7 20 20850 100 #0 16QAM 19.49 F Band7 20 21100 1 #0 QPSK 21.54 F Band7 20 21100 1 #Mid QPSK 21.68 F Band7 20 21100 1 #Max QPSK 21.23 F Band7 20 21100 50 #0 QPSK 20.46 F Band7 20 21100 50 #0 QPSK 20.46 F Band7 20 21100 50 #Mid QPSK 20.39 F Band7 20 21100 50 #Max QPSK 20.38 F Band7 20 21100 1 #0 16QAM	PASS
Band7 20 20850 50 #Max 16QAM 19.62 F Band7 20 20850 100 #0 16QAM 19.49 F Band7 20 21100 1 #0 QPSK 21.54 F Band7 20 21100 1 #Mid QPSK 21.68 F Band7 20 21100 1 #Max QPSK 21.23 F Band7 20 21100 50 #0 QPSK 20.46 F Band7 20 21100 50 #Mid QPSK 20.46 F Band7 20 21100 50 #Max QPSK 20.39 F Band7 20 21100 50 #Max QPSK 20.38 F Band7 20 21100 10 #0 QPSK 20.54 F Band7 20 21100 1 #Mid 16QAM	PASS
Band7 20 20850 100 #0 16QAM 19.49 F Band7 20 21100 1 #0 QPSK 21.54 F Band7 20 21100 1 #Mid QPSK 21.68 F Band7 20 21100 1 #Max QPSK 21.23 F Band7 20 21100 50 #0 QPSK 20.46 F Band7 20 21100 50 #Mid QPSK 20.39 F Band7 20 21100 50 #Max QPSK 20.38 F Band7 20 21100 100 #0 QPSK 20.54 F Band7 20 21100 1 #0 16QAM 21.23 F Band7 20 21100 1 #Max 16QAM 21.12 F Band7 20 21100 50 #Mid 16QAM	PASS
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Band7 20 21100 50 #Mid QPSK 20.39 F Band7 20 21100 50 #Max QPSK 20.38 F Band7 20 21100 100 #0 QPSK 20.54 F Band7 20 21100 1 #0 16QAM 21.23 F Band7 20 21100 1 #Mid 16QAM 21.28 F Band7 20 21100 1 #Max 16QAM 21.12 F Band7 20 21100 50 #0 16QAM 19.57 F Band7 20 21100 50 #Mid 16QAM 19.58 F Band7 20 21100 50 #Max 16QAM 19.49 F Band7 20 21100 100 #0 16QAM 19.47 F Band7 20 21350 1 #0 QPSK	PASS PASS
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Band7 20 21100 1 #0 16QAM 21.23 F Band7 20 21100 1 #Mid 16QAM 21.28 F Band7 20 21100 1 #Max 16QAM 21.12 F Band7 20 21100 50 #0 16QAM 19.57 F Band7 20 21100 50 #Mid 16QAM 19.58 F Band7 20 21100 50 #Max 16QAM 19.49 F Band7 20 21100 100 #0 16QAM 19.47 F Band7 20 21350 1 #0 QPSK 21.10 F Band7 20 21350 1 #Mid QPSK 21.19 F Band7 20 21350 50 #0 QPSK 19.99 F Band7 20 21350 50 #0 QPSK	PASS
Band7 20 21100 1 #Mid 16QAM 21.28 F Band7 20 21100 1 #Max 16QAM 21.12 F Band7 20 21100 50 #0 16QAM 19.57 F Band7 20 21100 50 #Mid 16QAM 19.58 F Band7 20 21100 50 #Max 16QAM 19.49 F Band7 20 21100 100 #0 16QAM 19.47 F Band7 20 21350 1 #0 QPSK 21.10 F Band7 20 21350 1 #Mid QPSK 21.19 F Band7 20 21350 1 #Max QPSK 21.29 F Band7 20 21350 50 #0 QPSK 19.99 F Band7 20 21350 50 #Mid QPSK	PASS
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Band7 20 21100 50 #0 16QAM 19.57 F Band7 20 21100 50 #Mid 16QAM 19.58 F Band7 20 21100 50 #Max 16QAM 19.49 F Band7 20 21100 100 #0 16QAM 19.47 F Band7 20 21350 1 #0 QPSK 21.10 F Band7 20 21350 1 #Mid QPSK 21.19 F Band7 20 21350 1 #Max QPSK 21.29 F Band7 20 21350 50 #0 QPSK 19.99 F Band7 20 21350 50 #Mid QPSK 19.92 F	PASS
Band7 20 21100 50 #Mid 16QAM 19.58 F Band7 20 21100 50 #Max 16QAM 19.49 F Band7 20 21100 100 #0 16QAM 19.47 F Band7 20 21350 1 #0 QPSK 21.10 F Band7 20 21350 1 #Mid QPSK 21.19 F Band7 20 21350 1 #Max QPSK 21.29 F Band7 20 21350 50 #0 QPSK 19.99 F Band7 20 21350 50 #Mid QPSK 19.92 F	PASS
Band7 20 21100 50 #Max 16QAM 19.49 F Band7 20 21100 100 #0 16QAM 19.47 F Band7 20 21350 1 #0 QPSK 21.10 F Band7 20 21350 1 #Mid QPSK 21.19 F Band7 20 21350 1 #Max QPSK 21.29 F Band7 20 21350 50 #0 QPSK 19.99 F Band7 20 21350 50 #Mid QPSK 19.92 F	PASS
Band7 20 21100 100 #0 16QAM 19.47 F Band7 20 21350 1 #0 QPSK 21.10 F Band7 20 21350 1 #Mid QPSK 21.19 F Band7 20 21350 1 #Max QPSK 21.29 F Band7 20 21350 50 #0 QPSK 19.99 F Band7 20 21350 50 #Mid QPSK 19.92 F	PASS
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Band7 20 21350 1 #Mid QPSK 21.19 F Band7 20 21350 1 #Max QPSK 21.29 F Band7 20 21350 50 #0 QPSK 19.99 F Band7 20 21350 50 #Mid QPSK 19.92 F	PASS
Band7 20 21350 1 #Max QPSK 21.29 F Band7 20 21350 50 #0 QPSK 19.99 F Band7 20 21350 50 #Mid QPSK 19.92 F	PASS
Band7 20 21350 50 #0 QPSK 19.99 F Band7 20 21350 50 #Mid QPSK 19.92 F	PASS
Band7 20 21350 50 #Mid QPSK 19.92 F	PASS
	PASS
Band7 20 21350 50 #Max QPSK 20.18 F	PASS
	PASS

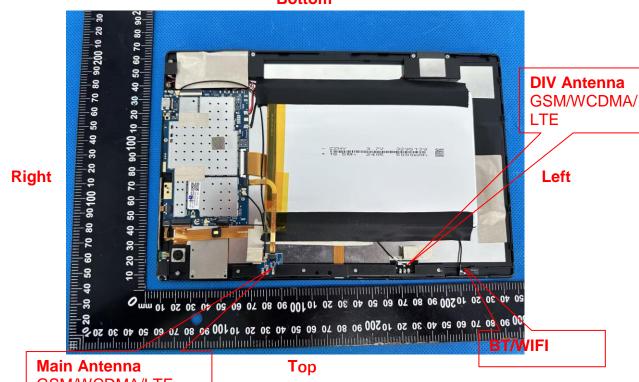
No.: BCTC/RF-EMC-005 Page 46 of 164 Edition: B.2



14.2 Transmit Antennas and SAR Measurement Position

EUT Antenna Location:





GSM/WCDMA/LTE

Antennas	Support Band
Main	GSM 850/1900 + WCDMA Band 2/5 + LTE Band 2/4/7 TX
DIV	GSM 850/1900 + WCDMA Band 2/5 + LTE Band 2/4/7 RX
BT/WIFI	Bluetooth + WIFI 2.4G

Distance of The Antenna to the EUT surface and edge (mm)								
Antennas	Front	Back	Top Side	Bottom Side	Left Side	Right Side		
Main	<25	<25	<25	154	49	124		
BT/WIFI	<25	<25	<25	154	202	26		

	Body mode: Positions for SAR tests											
Antennas	Antennas Front Back Top Side Bottom Side Left Side Right Side											
Main	Yes	Yes	Yes	No	No	No						
BT/WIFI	BT/WIFI Yes Yes No No No											

Note:

Edition: B.2 No.: BCTC/RF-EMC-005 Page 47 of 164

^{1.} Referring to KDB 616217 D04 v01r02, KDB 248227 D01 v02r02 and KDB 447498 D01 v06, this device is overall diagonal dimension (>20cm) tablet, tested in direct contact (no gap) with flat phantom.



14.3 Measured and Reported (Scaled) SAR Results

The calculated SAR is obtained by the following formula:

- 1. Reported SAR for WWAN=Measured SAR * Tune-up Scaling factor
- Reported SAR for WLAN and Bluetooth=Measured SAR * Tune-up Scaling factor * Duty Cycle Scaling factor
- 3. Duty Cycle Scaling factor=1/ Duty Cycle (%)

KDB 447498 D01 General RF Exposure Guidance:

Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

- ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- \bullet ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

KDB 648474 D04 Handset SAR v01r03:

- 1. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest *reported* SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.
- 2. when the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, using the same wireless mode test configuration for voice and data, such as UMTS, LTE and Wi-Fi, and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface)
- 3. For Smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

KDB 941225 D01 3G SAR Procedures:

When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4dB$ higher than the primary mode (RMC12.2kbps) or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

KDB 941225 D05 SAR for LTE Devices:

- 1. Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel.
- 2. When the reported SAR is > 0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.
- 3. Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are > 0.8 W/kg. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg.
- 4. SAR measurement is not required for the 16QAM and 64QAM. When the highest maximum output power for 16QAM and 64QAM is ≤ ½ dB higher than the QPSK or when the reported SAR for the QPSK configuration is ≤ 1.45 W/kg.
- 5. Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.

No.: BCTC/RF-EMC-005 Page 48 of 164 Edition: B.2



KDB 248227 D01 802.11 Wi-Fi SAR

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions. An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements.

For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions.

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.16 The initial test position procedure is described in the following:

- a) When the *reported* SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- b) When the *reported* SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the *reported* SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- c) For all positions/configurations tested using the initial test position and subsequent test positions, when the *reported* SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the *reported* SAR is ≤ 1.2 W/kg or all required channels are tested.

Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

When the specified maximum output power is the same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the reported SAR for UNII 2A is \leq 1.2 W/kg, SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.

When the specified maximum output power is different between UNII 1 and UNII 2A, begin SAR with the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is ≤ 1.2 W/kg, testing for the band with the lower specified output power is not required; otherwise test the remaining bands independently for SAR

No.: BCTC/RF-EMC-005 Page 49 of 164 Edition: B.2



	WIFI 2.4G											
RF		Test	011	rea · ·		Turn			(W/kg)	Plot		
Exposure Conditions	Mode	Position	CH.	(MHz)	Power (dBm)	up (dBm)	Scaling Factor	Meas.	Scaled	No.		
	b	Front Face	11	2462	16.77	17.0	1.054	0.166	0.175			
Body (0mm)		Back Face	11	2462	16.77	17.0	1.054	0.253	0.267	1		
		Top Side	11	2462	16.77	17.0	1.054	0.235	0.248			

	GSM 850											
RF		Test		Freq.	Output	Turn	Turn-up	SAR1g	(W/kg)	Plot		
Exposure Conditions	Mode	Position	CH.	(MHz)		up (dBm)	Scaling Factor	Meas.	Scaled	No.		
	GSM	Front Face	190	836.6	32.29	32.5	1.050	0.431	0.452			
		Back Face	190	836.6	32.29	32.5	1.050	0.240	0.252			
Body (0mm)	GPRS	Front Face	190	836.6	32.32	33.0	1.169	0.571	0.668			
(011111)		Back Face	190	836.6	32.32	33.0	1.169	0.401	0.469			
		Top Side	190	836.6	32.32	33.0	1.169	0.633	0.740	2		

	GSM1900											
RF		Test		Freq.	Output	Turn	Turn-up	SAR1g	(W/kg)	Plot		
Exposure Conditions	Mode	Position	CH.	(MHz)	Power (dBm)	up (dBm)	Scaling Factor	Meas.	Scaled	No.		
	GSM	Front Face	661	1880	30.65	31.0	1.084	0.318	0.345			
		Back Face	661	1880	30.65	31.0	1.084	0.266	0.288	:		
Body (0mm)	GPRS	Front Face	661	1880	30.59	31.0	1.099	0.507	0.557			
(0.1111)		Back Face	661	1880	30.59	31.0	1.099	0.432	0.475			
		Top Side	661	1880	30.59	31.0	1.099	0.606	0.666	3		

	WCDMA Band II											
RF		Test	011	Freq.	Output	Turn	Turn-up	SAR1g	(W/kg)	Plot		
Exposure Conditions	Mode	Position	CH.	(MHz)	Power (dBm)	up (dBm)	Scaling Factor	Meas.	Scaled	No.		
	RMC	Front Face	9400	1880	23.09	23.5	1.099	0.366	0.402			
Body (0mm)		Back Face	9400	1880	23.09	23.5	1.099	0.497	0.546			
` ,		Top Side	9400	1880	23.09	23.5	1.099	0.628	0.690	4		



	WCDMA Band V											
RF	Mada	Test	CII	Freq.	Output	Turn	Turn-up	SAR1g (W/kg)		Plot		
Exposure Conditions	Mode	Position	CH.	(MHz)	Power (dBm)	up (dBm)	Scaling Factor	Meas.	Scaled	No.		
	RMC	Front Face	4182	836.4	22.88	23.5	1.153	0.288	0.332			
Body (0mm)		Back Face	4182	836.4	22.88	23.5	1.153	0.437	0.504			
		Top Side	4182	836.4	22.88	23.5	1.153	0.528	0.609	5		

	LTE Band 2 (20MHz Bandwidth)											
RF		Test		Freq.	Output	Turn	Turn-up	SAR1g	(W/kg)	Plot		
Exposure Conditions	Mode	Position	CH.	(MHz)	Power (dBm)	up (dBm)	Scaling Factor	Meas.	Scaled	No.		
	QPSK 1RB	Front Face	18900	1880	23.18	23.5	1.076	0.245	0.264			
		Back Face	18900	1880	23.18	23.5	1.076	0.637	0.686			
Body		Top Side	18900	1880	23.18	23.5	1.076	0.776	0.835	6		
(0mm)		Front Face	18700	1860	22.1	22.5	1.096	0.213	0.234			
	QPSK 50%RB	Back Face	18700	1860	22.1	22.5	1.096	0.584	0.640			
		Top Side	18700	1860	22.1	22.5	1.096	0.704	0.772			





LTE Band 4 (20MHz Bandwidth)											
_ RF		Test		Freq.	Output	Turn	Turn-up	SAR1g	(W/kg)	Plot	
Exposure Conditions	Mode	Position	CH.	(MHz)	Power (dBm)	up (dBm)	Scaling Factor	Meas.	Scaled	No.	
	QPSK 1RB	Front Face	20300	1745	23.36	24.0	1.159	0.303	0.351		
		Back Face	20300	1745	23.36	24.0	1.159	0.497	0.576		
Body		Top Side	20300	1745	23.36	24.0	1.159	0.655	0.759	7	
(0mm)		Front Face	20300	1745	22.31	23.0	1.172	0.251	0.294		
	QPSK 50%RB	Back Face	20300	1745	22.31	23.0	1.172	0.432	0.506		
	00,0110	Top Side	20300	1745	22.31	23.0	1.172	0.618	0.724		

	LTE Band 7 (20MHz Bandwidth)												
_ RF		Test		Freq.	Output	Turn	Turn-up	SAR1g	(W/kg)	Plot			
Exposure Conditions	Mode	Position	CH.	(MHz)	(MHZ)	up (dBm)	Scaling Factor	Meas.	Scaled	No.			
	QPSK 1RB	Front Face	21100	2535	21.68	22.0	1.076	0.380	0.409				
		Back Face	21100	2535	21.68	22.0	1.076	0.617	0.664				
Body		Top Side	21100	2535	21.68	22.0	1.076	0.750	0.807	8			
(0mm)		Front Face	20850	2510	20.47	21.0	1.130	0.315	0.356				
	QPSK 50%RB	Back Face	20850	2510	20.47	21.0	1.130	0.532	0.601				
		Top Side	20850	2510	20.47	21.0	1.130	0.691	0.781				

No.: BCTC/RF-EMC-005 Page 52 of 164 Edition: B.2



14.4 SAR Measurement Variability

According to KDB865664, Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR value of the initial repeated measurement is < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. A second repeated measurement is required only if the measured result for the initial repeated measurement is within 10% of the SAR limit and vary by more than 20%, which are often related to device and measurement setup difficulties. The following procedures are applied to determine if repeated measurements are required. The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.19 The repeated measurement results must be clearly identified in the SAR report. All measured SAR, including the repeated results, must be considered to determine compliance and for reporting according to KDB 690783.Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 3) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20

- Fr	Frequency	RF	Toot	Repeated	Highest	First Repeated		
Test Mode	Band (MHz)	Exposure Configuration	Test Position	SAR (yes/no)	Measured SAR1-g (W/Kg)	Measured SAR1-g (W/Kg)	Largest to Smallest SAR Ratio	
/	/	/	/	/	/	1	/	

No.: BCTC/RF-EMC-005 Page 53 of 164 Edition: B.2



14.5 Simultaneous Transmission Evaluation

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmiting antenna.

Application Simultaneous Transmission information:

No.	Configurations	Body SAR
1	WWAN + WIFI	Yes
2	WWAN + Bluetooth	Yes
3	WIFI 2.4G + WIFI 5G	No
4	WIFI + Bluetooth	No

Remark:

- 1. Wi-Fi 2.4GHz and Wi-Fi 5GHz cannot transmit simultaneously.
- 2. WIFI2.4G and Bluetooth are the same antenna and cannot be sent at the same time.
- 3. According to the KDB 447498 D01 v06, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
- (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)/x}$] W/kg for test separation distances \leq 50 mm; where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
- 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm

	Estimated stand alone SAR										
Mode	Frequency (MHz)	Separation Distance (mm)	x	Estimated SAR1-g (W/kg)							
Bluetooth	2480	1.41	5	3.0	0.058						
Bluetooth	2480	1.41	10	7.5	0.029						

Note:

- 1. Maximum average power including tune-up tolerance;
- 2. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion
- 4. Per FCC KD B447498 D01, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the transmitting antenna in a specific a physical test configuration is ≤1.6 W/Kg. When the sum is greater than the SAR limit, SAR test exclusion is determined by the SAR to peak location separation ratio.

Ratio=
$$\frac{(SAR_1 + SAR_2)^{1.5}}{(peak location separation,mm)} < 0.04$$

No.: BCTC/RF-EMC-005 Page 54 of 164 Edition: B.2



5. Simultaneous transmission of maximum SAR sum calculation.

DE Evenous	Test	Standalone SAR (W/kg)			Summed SAR (W/kg)	
RF Exposure Conditions	Position	1	2	3	1+2	4.2
		WWAN	WIFI	Bluetooth	1+2	1+3
Body	Front	0.668	0.175	0.058	0.843	0.726
	Back	0.686	0.267	0.058	0.953	0.744
	Тор	0.835	0.248	0.058	1.083	0.893
	Bottom	/	/	0.058	/	0.058
	Left	/	/	0.058	/	0.058
	Right	/	/	0.058	/	0.058



No.: BCTC/RF-EMC-005 Page 55 of 164 Edition: B.2



15. Test Plots

15.1 System Performance Check

System check at 835 MHz Date of measurement: 2/7/2024

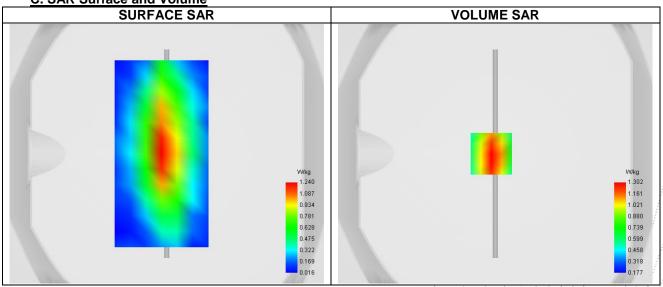
A. Experimental conditions.

7 ti Zizporimontai oonattorioi	
Probe	SN 26/23 EPGO420
ConvF	0.80
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW

B. Permitivity

Frequency (MHz)	835.000
Relative permitivity (real part)	40.165
Relative permitivity (imaginary part)	20.910
Conductivity (S/m)	0.937

C. SAR Surface and Volume



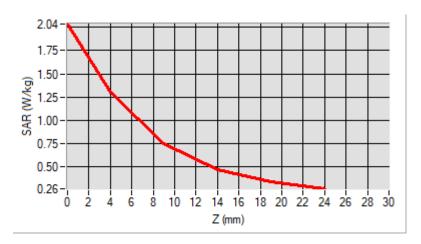
Maximum location: X=-3.00, Y=0.00; SAR Peak: 2.06 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	1:071
SAR 1g (W/Kg)	2.464
Variation (%)	-0.519
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

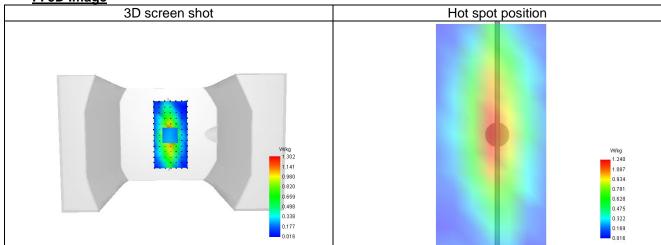
Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	2.036	1.302	0.747	0.462	0.331

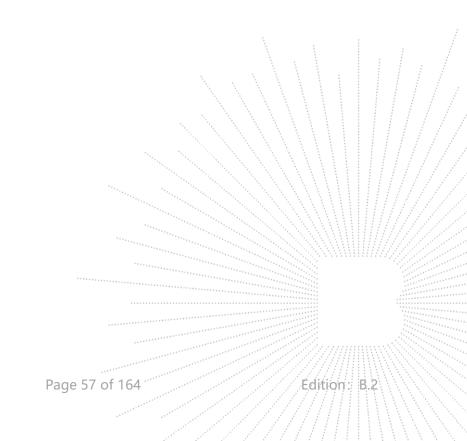






No.: BCTC/RF-EMC-005







<u>System check at 1800 MHz</u> Date of measurement: 2/7/2024 Report No: BCTC2407938097E

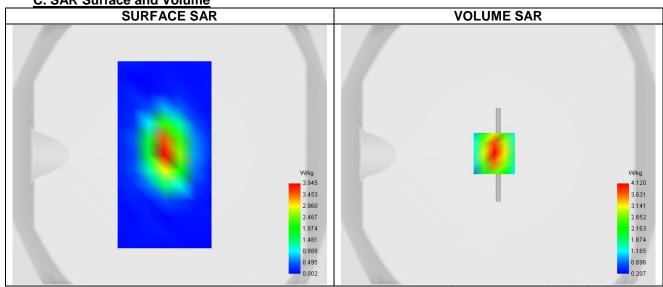
A. Experimental conditions.

- 11 = 11 por 111 por 11 por 1	
Probe	SN 26/23 EPGO420
ConvF	1.01
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW

B. Permitivity

Frequency (MHz)	1800.000
Relative permitivity (real part)	41.002
Relative permitivity (imaginary part)	15.200
Conductivity (S/m)	1.398

C. SAR Surface and Volume



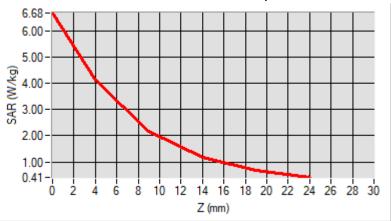
Maximum location: X=-3.00, Y=1.00; SAR Peak: 6.69 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	4.941
SAR 1g (W/Kg)	9.445\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Variation (%)	1.493 \ \ \ \ \ / /
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

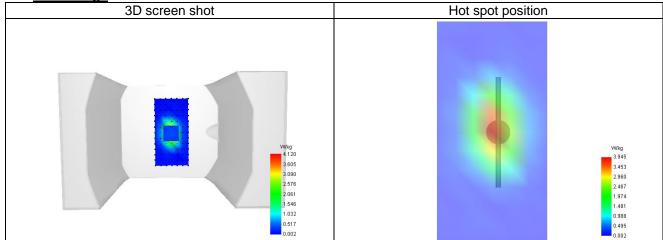
Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	6.684	4.120	2.184	1.177	0.685

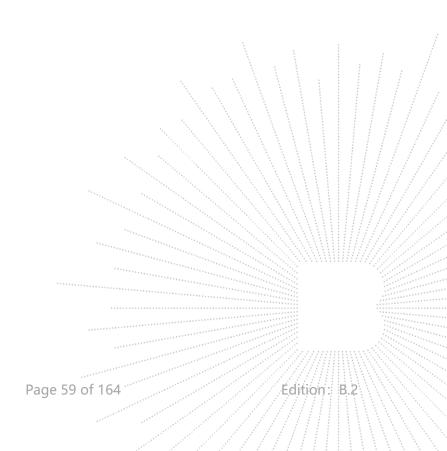






No.: BCTC/RF-EMC-005







<u>System check at 1900 MHz</u> Date of measurement: 3/7/2024 Report No: BCTC2407938097E

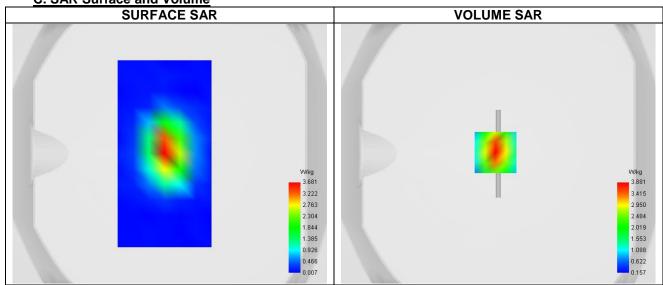
A. Experimental conditions.

SN 26/23 EPGO420
1.11
surf_sam_plan.txt
5x5x7,dx=8mm dy=8mm dz=5mm
Validation plane
Dipole
CW1900
Middle
CW

B. Permitivity

<u> </u>	
Frequency (MHz)	1900.000
Relative permitivity (real part)	38.778
Relative permitivity (imaginary part)	14.400
Conductivity (S/m)	1.397

C. SAR Surface and Volume



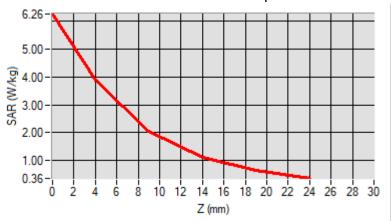
Maximum location: X=-2.00, Y=1.00; SAR Peak: 6.27 W/kg

D. SAR 1g & 10g

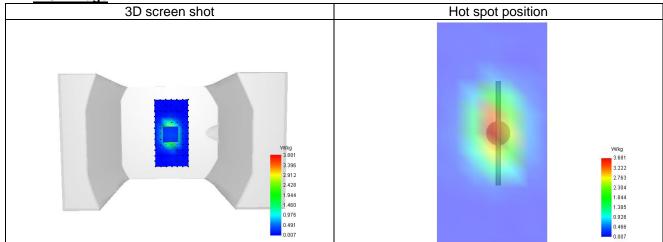
SAR 10g (W/Kg)	4.523
SAR 1g (W/Kg)	10.448
Variation (%)	-1:390 \ \ \ \ / /
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

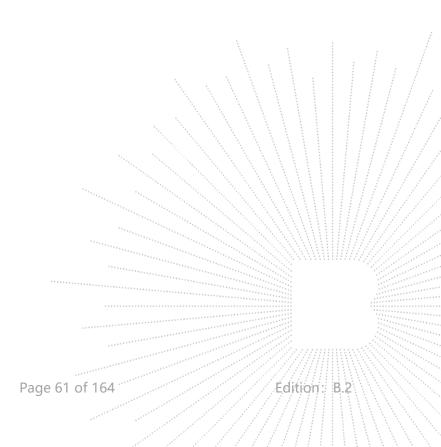
Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	6.259	3.881	2.069	1.111	0.634





F. 3D Image





No.: BCTC/RF-EMC-005



<u>System check at 2450MHz</u> Date of measurement: 16/7/2024

Report No: BCTC2407938097E

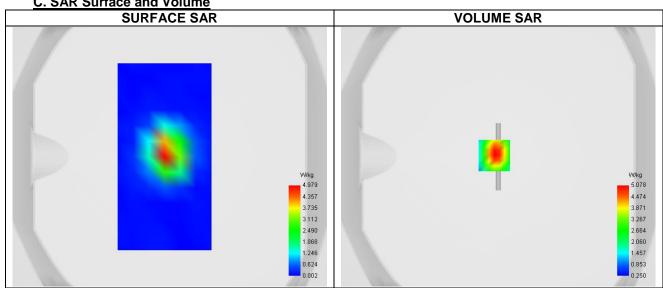
A. Experimental conditions.

Probe	SN 26/23 EPGO420
ConvF	1.32
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW

B. Permitivity

Frequency (MHz)	2450.000
Relative permitivity (real part)	38.675
Relative permitivity (imaginary part)	14.330
Conductivity (S/m)	1.803

C. SAR Surface and Volume



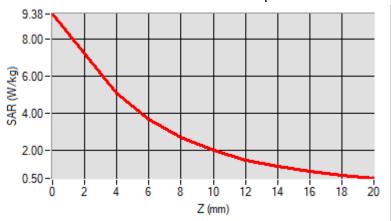
Maximum location: X=-3.00, Y=1.00; SAR Peak: 9.50 W/kg

D. SAR 1a & 10a

<u> </u>	
SAR 10g (W/Kg)	6,736
SAR 1g (W/Kg)	13.587
Variation (%)	
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

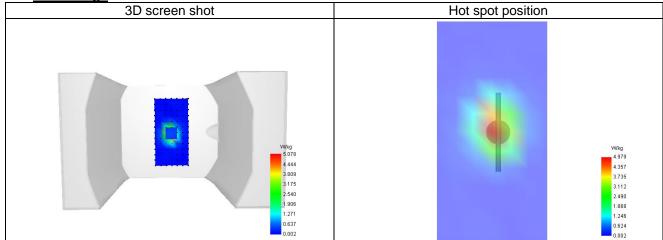
SAR (W/Kg) 9.380 5.078 3.712 2.709 2.001 1.499 4.138 0	Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
5 (SAR (W/Kg)	9.380	5.078	3.712	2.709	2.001	1.499	1.138	0.871	0.667

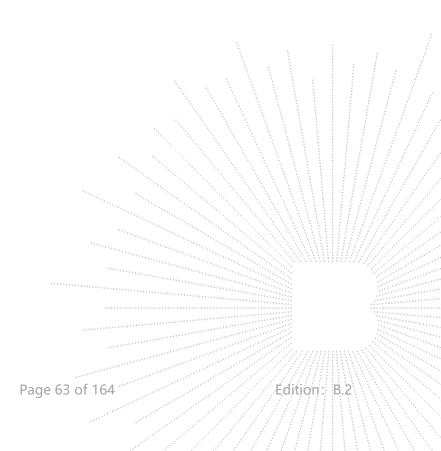




F. 3D Image

No.: BCTC/RF-EMC-005







<u>System check at 2600MHz</u> Date of measurement: 16/7/2024 Report No: BCTC2407938097E

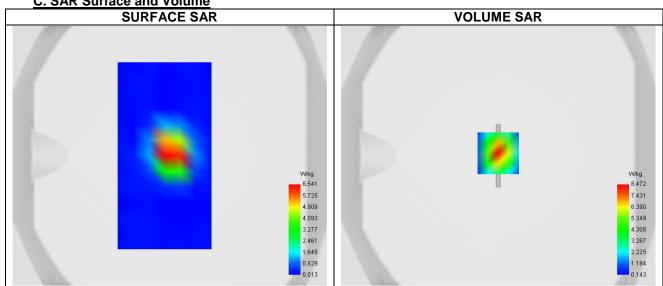
A. Experimental conditions.

- 11 = 21 0 0 1 1 1 1 0	
Probe	SN 26/23 EPGO420
ConvF	1.19
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW

B. Permitivity

Frequency (MHz)	2600.000
Relative permitivity (real part)	40.124
Relative permitivity (imaginary part)	14.889
Conductivity (S/m)	1.887

C. SAR Surface and Volume



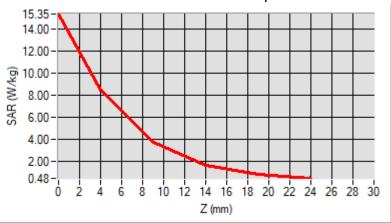
Maximum location: X=0.00, Y=2.00; SAR Peak: 15.35 W/kg

D. SAR 1g & 10g

<u> </u>	
SAR 10g (W/Kg)	6.048
SAR 1g (W/Kg)	13.424
Variation (%)	-0.545 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

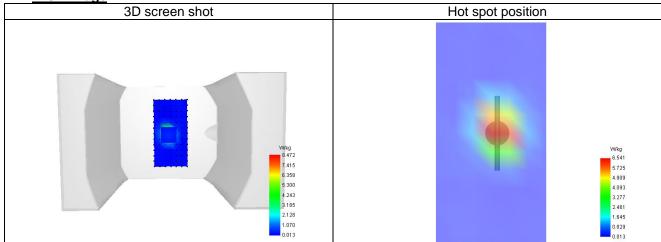
			1111		
Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	15.347	8.472	3.768	1.677	0.856

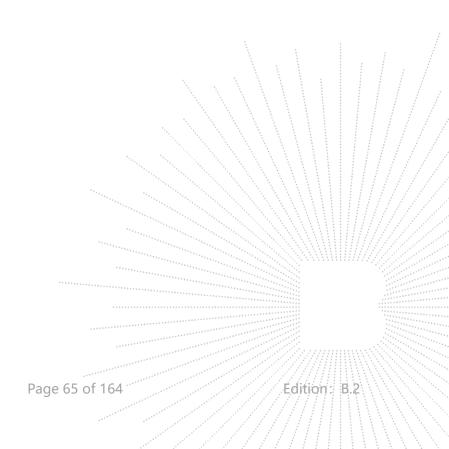






No.: BCTC/RF-EMC-005







15.2 SAR Test Graph Results

Plot 1

Date of measurement: 16/7/2024

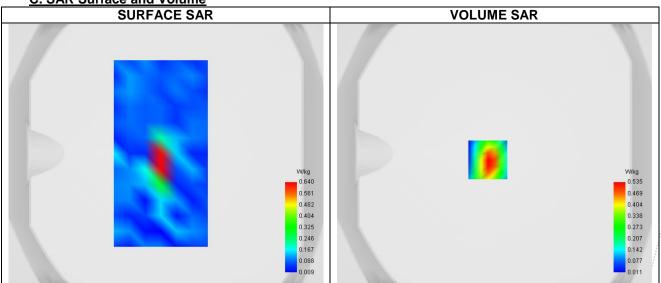
A. Experimental conditions.

Probe	SN 26/23 EPGO420
ConvF	1.11
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm
Phantom	Validation plane
Device Position	Body
Band	ISM
Channels	11
Signal	IEEE 802.11 b

B. Permitivity

<u> </u>	
Frequency (MHz)	2462.000
Relative permitivity (real part)	38.675
Relative permitivity (imaginary part)	13.212
Conductivity (S/m)	1.803

C. SAR Surface and Volume

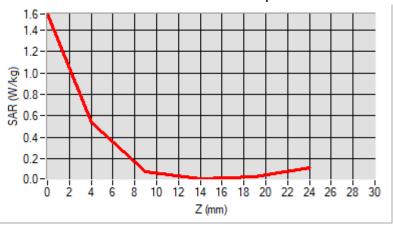


D. SAR 1a & 10a

<u> </u>	
SAR 10g (W/Kg)	0.219\\\\\\\
SAR 1g (W/Kg)	0.253
Variation (%)	-2.350
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

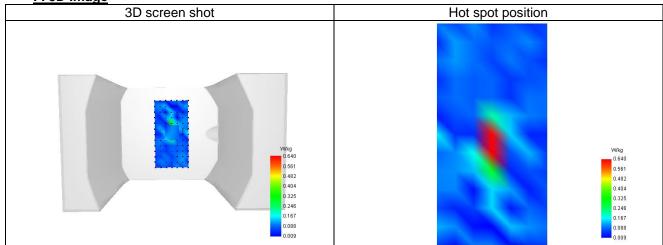
E. Z Axis Scan					
Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.551	0.535	0.082	0.013	0.028

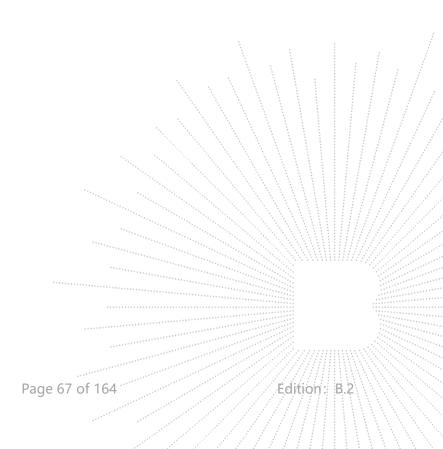






No.: BCTC/RF-EMC-005







Plot 2 Date of measurement: 2/7/2024

Report No: BCTC2407938097E

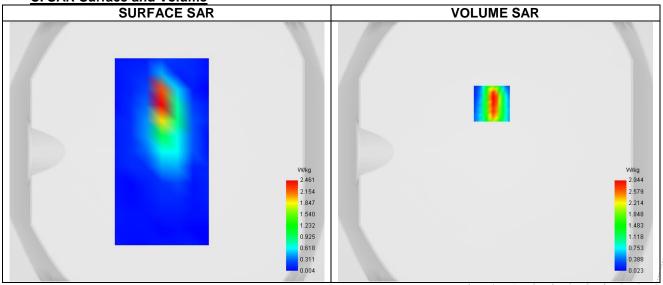
A. Experimental conditions.

A. Experimental Conditions.				
Probe	SN 26/23 EPGO420			
ConvF	0.81			
Area Scan	surf_sam_plan.txt			
Zoom Scan	12x12x7,dx=2mm dy=2mm dz=5.0mm			
Phantom	Validation plane			
Device Position	Body			
Band	GPRS850			
Channels	Middle (190)			
Signal	TDMA (GPRS)			
Modulation	GMSK (CS-1)			
TX-slots	4			

B. Permitivity

Frequency (MHz)	836.600		
Relative permitivity (real part)	40.165		
Relative permitivity (imaginary part)	19.400		
Conductivity (S/m)	0.937		

C. SAR Surface and Volume



D. SAR 1g & 10g

SAR 10g (W/Kg)	0.321
SAR 1g (W/Kg)	0.633 \ \ \ \ \ \
Variation (%)	-3.930\\\\\\\
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.816	2.944	1.115	0.561	0.309	0.186	0.119