

RF TEST REPORT

Product Name: 5G Smart phone

Model Name: TANK3, Titan P30000 Ultra 5G

FCC ID: 2BAVY-TANK3

Issued For : Shenzhen OBLUE Communication Technology Co., Ltd.

Room 702, Hepingdayou industrial and trade industrial park, No. 41, Yonghe Road, Heping Community, Fuhai Street, Baoan District,

Shenzhen City, China

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

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177,

Renmin West Road, Jinsha, Kengzi Street, Pingshan District,

Shenzhen, Guangdong, China

Report Number: LGT23I086RF08

Sample Received Date: Sep. 27, 2023

Date of Test: Sep. 27, 2023 – Nov. 07, 2023

Date of Issue: Nov. 07, 2023

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TEST REPORT CERTIFICATION

Applicant: Shenzhen OBLUE Communication Technology Co., Ltd.

Room 702, Hepingdayou industrial and trade industrial park, No.

Address: 41, Yonghe Road, Heping Community, Fuhai Street, Baoan District,

Shenzhen City, China

Manufacturer: Shenzhen OBLUE Communication Technology Co., Ltd.

Room 702, Hepingdayou industrial and trade industrial park, No.

Address: 41, Yonghe Road, Heping Community, Fuhai Street, Baoan District,

Shenzhen City, China

Product Name: 5G Smart phone

Trademark: 8849, Unihertz, iHunt

Model Name: TANK3, Titan P30000 Ultra 5G

Sample Status: Normal

APPLICABLE S	STANDARDS
STANDARD	TEST RESULTS
FCC Part 22, 24, 27, 90	PASS
KDB 971168 D01 v03r01, ANSI C63.26(2015)	

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Revision History

Rev.	Issue Date	Contents
00	Nov. 07, 2023	Initial Issue

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1. TEST FACTORY & MEASUREMENT UNCERTAINTY

1.1 TEST FACTORY

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

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Parameter	Uncertainty
Occupied Channel Bandwidth	±3.2 %
RF Output Power, Conducted	±0.87dB
Power Spectral Density, Conducted	±2.11 dB
Unwanted Emission, Conducted	±0.86dB
All Emissions, Radiated (Below 1GHz)	±3.54dB
All Emissions, Radiated (1GHz-18GHz)	±4.22dB
All Emissions, Radiated (18GHz-25GHz)	±4.81dB
Temperature	±0.5°C
Humidity	±2%

Note: The measurement uncertainty is not included in the test result.

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2. GENERAL INFORMATION

2.1 TECHNICAL SPECIFICATIONS AND REGULATIONS

2.1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Name:	5G Smart phone
Trademark:	8849,Unihertz, iHunt
Model Name:	TANK3
Series Model:	Titan P30000 Ultra 5G
Model Difference:	Different make and model.
Frequency Bands:	U.S. Bands: LTE FDD Band 2 LTE FDD Band 4 LTE FDD Band 5 LTE FDD Band 7 LTE FDD Band 12 LTE FDD Band 13 LTE FDD Band 17 LTE FDD Band 25 LTE FDD Band 26 LTE TDD Band 38 LTE TDD Band 41 LTE FDD Band 66
SIM Card:	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested.
Antenna:	FPC
Antenna gain:	Band 2: -2.8dBi, Band 4:-3.3dBi, Band 5:-2.1dBi, Band 7: -3.8dBi, Band 12:-2.5dBi, Band 13:-2.8dBi, Band 17:-2.5dBi, Band 25:-2.8dBi, Band 26:-2.1dBi, Band 38:-3.6dBi, Band 41: -3.6dBi, Band 66:-3.3dBi
Adapter:	Model: HJ-PD120W-US Input: 100-240V, 50/60Hz, 1.8A Output: 5V, 3A, OR 9V, 3A, OR 12V, 3A, OR 15V, 3A, OR 20V, 5A PPS: 3.6V-20V,6A 120W MAX
Battery:	Capacity: 23000mAh, 89Wh Rated Voltage: 3.87V
Extreme Vol. Limits:	3.0V to 4.45V (Nominal 3.87V)
Extreme Temp. Tolerance:	-0℃ to +40℃
Hardware Version:	G91_V2.0
Software Version:	TANK3_20231008

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

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2.1.2 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Prod	luct Specification Subjective To This Standard
	LTE Band 2:1850~1910MHz
	LTE Band 4:1710~1755MHz
	LTE Band 5: 824~849MHz
	LTE Band 7: 2500~2570MHz
	LTE Band 12: 699-716MHz
T., C.,	LTE Band 13: 777-787MHz
Tx Frequency	LTE Band 17: 704~716MHz
	LTE Band 25: 1850-1915MHz
	LTE Band 26: 814-824MHz/824-849MHz
	LTE Band 38: 2570-2620MHz
	LTE Band 41: 2496-2690MHz
	LTE Band 66: 1710-1780MHz
	LTE Band 2: 1930-1990MHz
	LTE Band 4: 2110-2155MHz
	LTE Band 5: 869-894MHz
	LTE Band 7: 2620-2690MHz
	LTE Band 12: 729-746MHz
	LTE Band 13: 746-756MHz
Rx Frequency	LTE Band 17: 734-746MHz
	LTE Band 25: 1930-1995MHz
	LTE Band 26: 859-849MHz
	869-894MHz
	LTE Band 38: 2570-2620MHz
	LTE Band 41: 2496-2690MHz
	LTE Band 66: 2110-2200MHz
	LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
	LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /20MHz
	LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz
	LTE Band 7: 5MHz / 10MHz / 15MHz /20MHz
	LTE Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz
Bandwidth	LTE Band 13: 5MHz / 10MHz
Bandwidth	LTE Band 17: 5MHz / 10MHz
	LTE Band 25: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /20MHz
	LTE Band 26: 1.4MHz / 3MHz / 5MHz / 10MHz/15MHz
	LTE Band 38: 5MHz / 10MHz / 15MHz /20MHz
	LTE Band 41: 5MHz / 10MHz / 15MHz /20MHz
	LTE Band 66: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /20MHz
Type of Modulation	QPSK /16QAM

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2.1.3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 v03r01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power. Radiated measurements are performed by rotating the EUT in three different orthogonal test planes tofind the maximum emission.

Remark:

- 1. The mark 'v'means that this configuration is chosen for testing
- 2. The mark '-'means that this bandwidth is not supported.
- 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated.

ITEMS	Band	ı	3an	dwic	dth (N	ИHz)	Modu	lation		RB#			Test hann	
	20.10	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	Н
	2	٧	٧	٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	٧
	4	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧
	5	٧	٧	٧	٧			٧	٧	٧	٧	٧	٧	٧	٧
	7			٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	٧
	12	٧	>	٧	>			٧	V	٧	٧	V	>	V	٧
Max. Output	13			٧	٧			٧	٧	٧	٧	٧		٧	
Power	17			٧	٧			٧	٧	٧	٧	٧	٧	٧	٧
	25	٧	>	٧	٧	٧	٧	٧	V	٧	٧	٧	>	٧	٧
	26	٧	>	٧	>	٧		٧	V	٧	٧	V	>	V	٧
	38			٧	>	٧	٧	٧	V	٧	٧	V	>	V	٧
	41			٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	٧
	66	٧	>	٧	>	٧	٧	٧	V	٧	٧	V	>	>	٧
	2						٧	٧	V	٧		V	>	>	٧
	4						٧	٧	V	٧		V	>	>	٧
	5				٧			٧	٧	٧		٧	٧	٧	٧
	7						V	٧	V	٧		٧	>	V	٧
	12				٧			٧	V	٧		٧	٧	٧	٧
Peak&Avera	13				>			٧	V	٧		V		V	
Ratio	17				٧			٧	٧	٧		٧	٧	٧	٧
	25						٧	٧	٧	٧		٧	٧	٧	٧
	26					٧		٧	V	٧		٧	٧	٧	٧
	38						٧	٧	V	٧		٧	٧	٧	٧
	41						٧	٧	V	٧		٧	٧	٧	٧
	66						٧	V	V	٧		٧	٧	٧	٧

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	2	V	V	٧	٧	V	٧	V	V			٧	V	V	V
	4	V	v	v	V	v	٧	V	V			V	V	v	v
	5	V	V	v	٧		•	V	V			V	٧	٧	V
	7			٧	٧	٧	٧	V	٧			٧	٧	٧	V
	12	٧	٧	٧	٧			V	٧			٧	٧	٧	V
	13			٧	٧			V	٧			٧		٧	
26dB&99% Bandwidth	17			٧	٧			V	٧			٧	٧	٧	V
Bandwidth	25	٧	٧	٧	٧	٧	٧	V	٧			٧	٧	٧	٧
	26	٧	٧	٧	٧	٧		V	٧			٧	٧	٧	٧
	38			٧	٧	٧	٧	V	٧	V	٧	٧	٧	٧	V
	41			٧	٧	٧	٧	V	٧			٧	V	٧	V
	66	٧	٧	٧	٧	٧	٧	V	٧			٧	٧	٧	٧
	2	٧	٧	٧	٧	٧	٧	V	٧	٧		٧	٧	٧	٧
	4	٧	٧	٧	٧	٧	٧	٧	٧	٧		٧	٧	٧	V
	5	٧	٧	٧	٧			V	٧	٧		٧	٧	٧	V
	7			٧	٧	٧	٧	V	٧	٧		٧	٧	٧	٧
	12	٧	٧	٧	٧			V	٧	٧		٧	٧	٧	٧
Conducted	13			٧	٧			V	٧	٧		٧		٧	
Band Edge	17			٧	٧			V	٧	٧		٧	٧	٧	V
	25	٧	٧	٧	٧	٧	٧	V	٧	٧		٧	٧	٧	٧
	26	٧	٧	٧	٧	٧		٧	٧	٧		٧	٧	٧	٧
	38			٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧
	41			٧	٧	٧	٧	V	٧	٧		٧	٧	٧	V
	66	٧	٧	٧	٧	٧	٧	V	٧	٧		٧	٧	٧	٧
	2	٧	٧	٧	٧	٧	٧	V	٧	٧			٧	٧	٧
	4	٧	٧	٧	٧	٧	٧	٧	٧	٧			٧	٧	٧
	5	٧	٧	٧	٧			V	٧	٧			٧	٧	V
	7			٧	٧	٧	٧	V	٧	٧			٧	٧	V
	12	٧	٧	٧	٧			V	٧	٧			٧	٧	٧
Conducted	13			٧	٧			V	٧	٧				٧	
Spurious Emission	17			٧	٧			V	٧	٧			٧	٧	٧
	25	٧	٧	٧	٧	٧	٧	V	٧	٧			٧	٧	٧
	26	٧	٧	٧	٧	٧		V	٧	٧			٧	٧	٧
	38			٧	٧	٧	٧	V	٧	٧	٧	٧	٧	٧	٧
	41			٧	٧	٧	٧	V	٧	٧			٧	٧	٧
	66	٧	٧	٧	٧	٧	٧	V	٧	٧			٧	٧	٧

Frequency Stability Stab	V
Frequency Stability Frequency Stability Frequency Stability 17	V
Frequency Stability 7	v
E.R.P.& E.R	V
E.R.P.& E.R.P.& E.R.P.& E.I.R.P. 13	V
E.R.P.& E.R	V
E.R.P.& E.R.P.& E.I.R.P. Stability	V
E.R.P.& E.I.R.P. 26	V
E.R.P.& E.R	V
E.R.P.& E.I.R.P. 41	V
E.R.P.& E.I.R.P. 66	
E.R.P.& E.I.R.P. 2	
E.R.P.& E.I.R.P. 4	
E.R.P.& E.I.R.P. 5	٧
E.R.P.& E.I.R.P. 7	V
E.R.P.& E.I.R.P. 12	V
E.R.P.& E.I.R.P. 13	٧
E.R.P.&	٧
E.I.R.P.	
25 V	٧
38	٧
41	٧
	V
66 V V V V V V V V V V V V V V V V V V	٧
	٧
2	٧
4	٧
5	٧
7 V V V V V V V V V V	٧
12	٧
Radiated 13 V V V V V	
Spurious 17 V V V V V V V	٧
25 V V V V V V V V V V V V V	٧
26 V V V V V V V V V V V V V V V V V V V	٧
38	V
41 v v v v v v v v v v	, v
66 V V V V V V V V V V V V V V V V V V	V

2.1.4 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for filing to comply with the 47 CFR Part 2, 22H, 24(E), 27, 90.

2.1.5 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with eut intended for fcc grant together.

2.1.6 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.1.7 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

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2.1.8 CONFIGURATION OF EUT SYSTEM

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

E-1 EUT

Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	Length	Note
N/A	1	1	1	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in ${}^{\mathbb{F}}$ Length ${}_{\mathbb{F}}$ column.
- (2) "YES" is means "with core"; "NO" is means "without core".

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2.1.9MEASUREMENT INSTRUMENTS

The radiated emission testing was performed according to the procedures of ANSI C63.26 2015 and FCC CFR 47 rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

Radiated Test equipment										
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until					
EMI Test Receiver	R&S	ESU8	100372	2023.04.13	2024.04.12					
Active loop Antenna	ETS	6502	00049544	2022.06.02	2025.06.01					
Spectrum Analyzer	Keysight	N9010B	MY60242508	2023.04.10	2024.04.09					
Bilog Antenna(30M-1G)	SCHWARZBECK	VULB 9168	2705	2022.06.05	2025.06.04					
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01					
Horn Antenna(18-40G)	A-INFO	LB-180400-KF	J211060273	2022.06.08	2025.06.07					
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2023.04.07	2024.04.06					
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2023.04.07	2024.04.06					
Pre-amplifier(18-40G)	com-mw	LNPA_18-40-01	18050003	2023.04.07	2024.04.06					
Wireless Communications Test Set	R&S	CMW 500	137737	2023.04.13	2024.04.12					
Temperature & Humidity	KTJ	TA218B	N.A	2023.04.24	2024.04.23					
Testing Software		EMC-I_V	1.4.0.3_SKET							

Conducted Test equipmen	nt				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9010B	MY60242508	2023.04.10	2024.04.09
Wireless Communications Test Set	R&S	CMW 500	137737	2023.04.13	2024.04.12
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2023.04.07	2024.04.06
Power Sensor	MW	MW100-RFCB	MW220324LG -33	2023.04.13	2024.04.12
Temperature & Humidity	KTJ	TA218B	N.A	2023.04.24	2024.04.23
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2023.05.10	2024.05.09
Attenuator	eastsheep	90db	N.A	2023.04.10	2024.04.09
Testing Software		MTS820	0_ V2.0.0.0_MW		

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3. CONDUCTED OUTPUT POWER

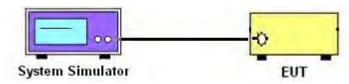
3.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

3.1.1 MEASUREMENT METHOD

A system simulator was used to establish communication with the eut. Its parameters were set to force the eut transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

Configuration follows KDB 971168 D01 v03r01.

3.1.2 TEST SETUP



3.1.3 TEST PROCEDURES

- 1. The transmitter output port was connected to system simulator.
- 2. Set EUT at maximum power through the system simulator.
- 3. Select lowest/middle/highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

3.1.4 TEST RESULTS

Note: Test chart See Appendix I

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4. PEAK-TO-AVERAGE RATIO

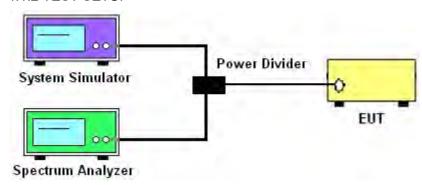
4.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

4.1.1 MEASUREMENT METHOD

Use one of the procedures presented in 4.1.3 to measure the total peak power and record as PPk. Use one of the applicable procedures presented 4.1.3 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

PAPR(dB) = PPk(dBm) - PAvg(dBm).

4.1.2 TEST SETUP



4.1.3 TEST PROCEDURES

- 1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7 and ANSI C63.26 2015 Section 5.2.6.
- 2. The EUT was connected to spectrum and system simulator via a power divider
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Set the test probe and measure the peak and average power of the spectrum analyzer
- 5. Record the deviation as Peak to Average Ratio.

		LTE									
LTE BW	1.4M	20M									
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz					
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz					
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz					
Detector	PK/AVG	PK/AVG	PK/AVG	PK/AVG	PK/AVG	PK/AVG					
Trace	Max	Max	Max	Max	Max	Max					
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto					

4.1.4 TEST RESULTS

Note: Test chart See Appendix I

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5. RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

5.1 DESCRIPTION OF THE ERP/EIRP MEASUREMENT

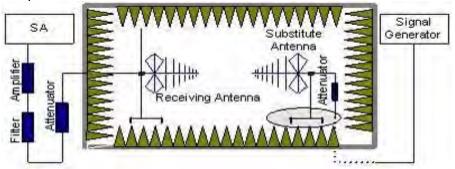
5.1.1 MEASUREMENT METHOD

Effective radiated power output measurements by substitution method according to ANSI C63.26 2015, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems. Mobile and portable (hand-held) stations operating are limited to average ERP, Equivalent isotropic radiated power output measurements by substitution method according to ANSI C63.26 2015, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas, Mobile and portable (hand-held) stations operating are limited to average EIRP.

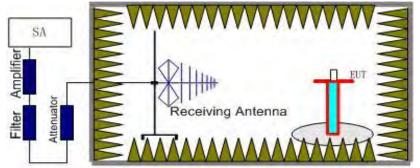
5.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, RSE=Rx (dBuV) +CL (dB) +SA (dB) +Gain (dBi) -107 (dBuV to dBm) The SA is calibrated using following setup.



b) EUT was placed on a 1.5m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth.



Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below: Power=PMea+ARpl

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5.1.3 TEST PROCEDURES

- 1. The testing follows FCC KDB 971168 D01v03r01 Section 5.6 and ANSI C63.26 2015 Section 5.2.
- 2. The EUT was placed on a non-conductive rotating platform 1.5 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with Peak detector.
- 3. During the measurement, the system simulator parameters were set to force the EUTtransmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 m in both horizontally and vertically polarized orientations.
- 4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to ANSI C63.26 2015. The EUT was replaced by dipole antenna (substitution antenna) at same location and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. EIRP=S.G Level+ Gain-Cable loss; ERP=S.G Level+ Gain-Cable loss-2.15.
- 5. RB Set greater than bandwidth, VB Set spectrum analyzer Maximum support.

5.1.4 TEST RESULTS

Note: Test is divided into three directions, X/Y/Z. X pattern for the worst.

Note: Test chart See Appendix I

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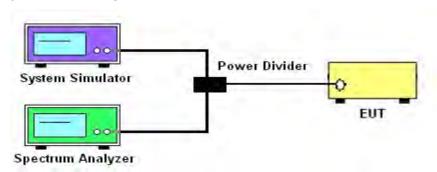
6. OCCUPIED BANDWIDTH

6.1 DESCRIPTION OF OCCUPIED BANDWIDTH MEASUREMENT

6.1.1 MEASUREMENT METHOD

- 1.The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.
- 2.The 26 db emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 db below the maximum in-band spectral density of the modulated signal. spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

6.1.2 TEST SETUP



6.1.3 TEST PROCEDURES

- 1. The testing follows FCC KDB 971168 D01 v03r01 Section 4.2 and 4.3.
- 2. The EUT was connected to spectrum and system simulator via a power divider.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Set the test probe and measure the Occupied Bandwidth of the spectrum analyzer.
- 5. Measure and record the Occupied Bandwidth from the Spectrum Analyzer.

		LTE									
LTE BW	1.4M	1.4M 3M 5M 10M 15M									
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz					
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz					
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz					
Detector	PK	PK	PK	PK	PK	PK					
Trace	Max	Max	Max	Max	Max	Max					
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto					

6.1.4 MEASUREMENT RESULT Note: Test chart See Appendix I

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7. CONDUCTED BAND EDGE

7.1 DESCRIPTION OF CONDUCTED BAND EDGE MEASUREMENT

7.1.1 MEASUREMENT METHOD

1. §22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

2. §24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed

3. §27.53 (c) (2)

On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB

4. §27.53 (h)

For operations in the 1710 - 1755 MHz, 1750 - 1780 MHz band, the FCC limit is $43 + 10 \log 10 (\text{P[Watts]})$ dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

5. §27.53(m)(4)

For operations in the 2500 MHz ~ 2570 MHz band this section, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHzand 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licenseesoperating on frequencies below 2495 MHz may also submit a documented interference complaintagainst BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

6. §27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

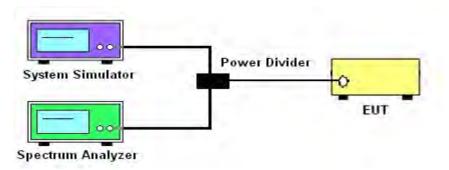
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7. §90.210 (h)

For transmitters that are not equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

- (1) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of 4 kHz or less: Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 4 kHz, but no more than 8.5 kHz: At least 107 log (fd/4) dB;
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 8.5 kHz, but no more than 15 kHz: At least 40.5 log (fd/1.16) dB;
- (4) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 15 kHz, but no more than 25 kHz: At least 116 log (fd/6.1) dB;
- (5) On any frequency removed from the center of the authorized bandwidth by more than 25 kHz: At least 43 + 10 log (P) dB.

7.1.2 TEST SETUP



7.1.3 TEST PROCEDURES

- 1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3. The band edges of low and high channels for the highest RF powers were measured. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- 4. Set spectrum analyzer with RMS/AVG detector.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frquency band.
- 6. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
- P(W)-[43 + 10log(P)] (dB)=[30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)=-13dBm.
- P(W)- [55 + 10log(P)] (dB)= [30 + 10log(P)] (dBm) [55 + 10log(P)] (dB)= -25dBm.

		LTE									
LTE BW	1.4M	3M	5M	10M	15M	20M					
Span	12MHz	13MHz	15MHz	20MHz	25MHz	30MHz					
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz					
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz					
Detector	RMS	RMS	RMS	RMS	RMS	RMS					
Trace	Max	Max	Max	Max	Max	Max					
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto					

7.1.4 MEASUREMENT RESULT Note: Test chart See Appendix I

8. CONDUCTED SPURIOUS EMISSION

8.1 DESCRIPTION OF CONDUCTED SPURIOUS EMISSION MEASUREMENT

8.1.1 MEASUREMENT METHOD

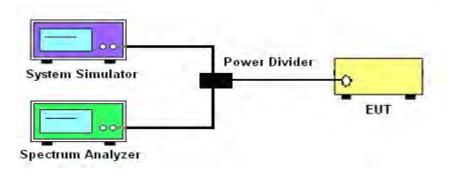
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 7:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

8.1.2 TEST SETUP



8.1.3 TEST PROCEDURES

- 1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement
- 4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frquency band.
- 6. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
- = P(W) [43 + 10log(P)] (dB) = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm

For Band 7: P(W)- [43 + 10log(P)] (dB) =-25dBm

		LTE									
LTE BW	1.4M	3M	5M	10M	15M	20M					
Span	Auto	Auto	Auto	Auto	Auto	Auto					
RBW	1000kHz	1000kHz	1000kHz	1000kHz	1000kHz	1000kHz					
VBW	3000kHz	3000kHz	3000kHz	3000kHz	3000kHz	3000kHz					
Detector	PK	PK	PK	PK	PK	PK					
Trace	Max	Max	Max	Max	Max	Max					

8.1.4 TEST RESULTS

Note: Test chart See Appendix I

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9. RADIATED SPURIOUS EMISSION

9.1 DESCRIPTION OF RADIATED SPURIOUS EMISSION

9.1.1 MEASUREMENT METHOD

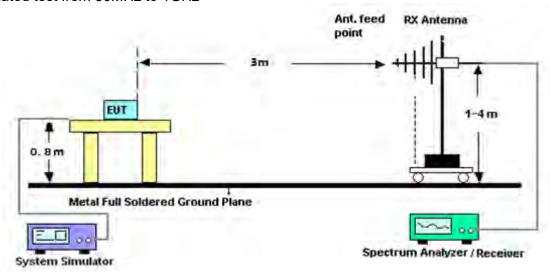
The radiated spurious emission was measured by substitution method according to ANSI C63.26 2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. For Band 7 The power of any emission outside of the authorized operating frequency ranges must attenuated below the transmitter power (P) by a factor of at least 55 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

9.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

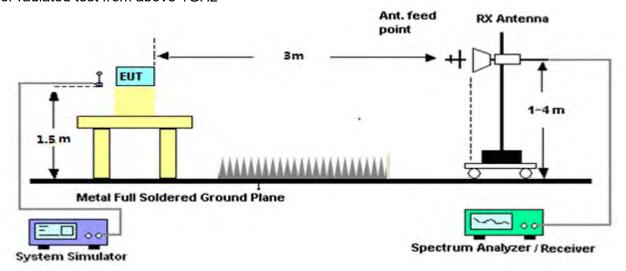
- a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, RSE=Rx(dBuV)+CL(dB)+SA(dB)+Gain(dBi)-107(dBuV to dBm)The SA is calibrated using following setup.
- b) EUT was placed on 1.5 m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth. Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below: Power=PMea+ARpl For radiated test from 30MHz to 1GHz



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For radiated test from above 1GHz



9.1.3 TEST PROCEDURES

- 1. The testing FCC KDB 971168 D01 Section 7 and ANSI C63.26 2015 Section 5.5.
- 2. The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

- = P(W)- [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm

For Band 7:

The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

- = [30 + 10log(P)] (dBm) [55 + 10log(P)] (dB)
- = -25dBm

PMea=S.G Level+ Ant-Cable loss; Margin=PMea-Limit.

9.1.4 TEST RESULTS

Note: Test chart See Appendix I

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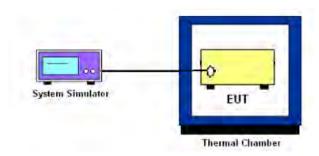
10. FREQUENCY STABILITY

10.1 DESCRIPTION OF FREQUENCY STABILITY MEASUREMENT

10.1.1 MEASUREMENT METHOD

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

10.1.2 TEST SETUP



10.1.3 TEST PROCEDURES FOR TEMPERATURE VARIATION

- 1. The EUT was set up in the thermal chamber and connected with the system simulator.
- 2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

10.1.4 TEST PROCEDURES FOR VOLTAGE VARIATION

- 1. The testing follows FCC KDB 971168 D01v01r03 Section 9.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simlator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

10.1.5 TEST RESULTS

Note: Test chart See Appendix I

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APPENDIX I-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

APPENDIX II-TEST DATA

Conducted output power

									EIRP	
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dB)	EIRP (dBm)	Limit (dBm)	Verdict
Band2	1.4	18607	1	#0	QPSK	23.16	-2.8	20.36	33.01	PASS
Band2	1.4	18607	1	#Mid	QPSK	23.20	-2.8	20.40	33.01	PASS
Band2	1.4	18607	1	#Max	QPSK	23.08	-2.8	20.28	33.01	PASS
Band2	1.4	18607	3	#0	QPSK	23.08	-2.8	20.28	33.01	PASS
Band2	1.4	18607	3	#Mid	QPSK	23.08	-2.8	20.28	33.01	PASS
Band2	1.4	18607	3	#Max	QPSK	23.04	-2.8	20.24	33.01	PASS
Band2	1.4	18607	6	#0	QPSK	23.08	-2.8	20.28	33.01	PASS
Band2	1.4	18607	1	#0	16QAM	23.02	-2.8	20.22	33.01	PASS
Band2	1.4	18607	1	#Mid	16QAM	23.02	-2.8	20.22	33.01	PASS
Band2	1.4	18607	1	#Max	16QAM	22.94	-2.8	20.14	33.01	PASS
Band2	1.4	18607	3	#0	16QAM	23.13	-2.8	20.33	33.01	PASS
Band2	1.4	18607	3	#Mid	16QAM	23.12	-2.8	20.32	33.01	PASS
Band2	1.4	18607	3	#Max	16QAM	23.05	-2.8	20.25	33.01	PASS
Band2	1.4	18607	6	#0	16QAM	22.73	-2.8	19.93	33.01	PASS
Band2	1.4	18900	1	#0	QPSK	22.96	-2.8	20.16	33.01	PASS
Band2	1.4	18900	1	#Mid	QPSK	23.05	-2.8	20.25	33.01	PASS
Band2	1.4	18900	1	#Max	QPSK	23.02	-2.8	20.22	33.01	PASS
Band2	1.4	18900	3	#0	QPSK	23.09	-2.8	20.29	33.01	PASS
Band2	1.4	18900	3	#Mid	QPSK	23.09	-2.8	20.29	33.01	PASS
Band2	1.4	18900	3	#Max	QPSK	23.10	-2.8	20.30	33.01	PASS
Band2	1.4	18900	6	#0	QPSK	23.06	-2.8	20.26	33.01	PASS
Band2	1.4	18900	1	#0	16QAM	23.01	-2.8	20.21	33.01	PASS
Band2	1.4	18900	1	#Mid	16QAM	23.04	-2.8	20.24	33.01	PASS
Band2	1.4	18900	1	#Max	16QAM	23.08	-2.8	20.28	33.01	PASS
Band2	1.4	18900	3	#0	16QAM	23.11	-2.8	20.31	33.01	PASS
Band2	1.4	18900	3	#Mid	16QAM	23.13	-2.8	20.33	33.01	PASS
Band2	1.4	18900	3	#Max	16QAM	23.14	-2.8	20.34	33.01	PASS
Band2	1.4	18900	6	#0	16QAM	22.81	-2.8	20.01	33.01	PASS
Band2	1.4	19193	1	#0	QPSK	23.59	-2.8	20.79	33.01	PASS
Band2	1.4	19193	1	#Mid	QPSK	23.55	-2.8	20.75	33.01	PASS
Band2	1.4	19193	1	#Max	QPSK	23.35	-2.8	20.55	33.01	PASS
Band2	1.4	19193	3	#0	QPSK	23.53	-2.8	20.73	33.01	PASS
Band2	1.4	19193	3	#Mid	QPSK	23.49	-2.8	20.69	33.01	PASS
Band2	1.4	19193	3	#Max	QPSK	23.36	-2.8	20.56	33.01	PASS
Band2	1.4	19193	6	#0	QPSK	23.45	-2.8	20.65	33.01	PASS
Band2	1.4	19193	1	#0	16QAM	23.20	-2.8	20.40	33.01	PASS
Band2	1.4	19193	1	#Mid	16QAM	23.18	-2.8	20.38	33.01	PASS
Band2	1.4	19193	1	#Max	16QAM	23.01	-2.8	20.21	33.01	PASS
Band2	1.4	19193	3	#0	16QAM	23.52	-2.8	20.72	33.01	PASS
Band2	1.4	19193	3	#Mid	16QAM	23.49	-2.8	20.69	33.01	PASS
Band2	1.4	19193	3	#Max	16QAM	23.40	-2.8	20.60	33.01	PASS
Band2	1.4	19193	6	#0	16QAM	22.82	-2.8	20.02	33.01	PASS
Band2	3	18615	1	#0	QPSK	23.12	-2.8	20.32	33.01	PASS
Band2	3	18615	1	#Mid	QPSK	22.85	-2.8	20.05	33.01	PASS
Band2	3	18615	1	#Max	QPSK	22.71	-2.8	19.91	33.01	PASS
Band2	3	18615	8	#0	QPSK	23.05	-2.8	20.25	33.01	PASS
Band2	3	18615	8	#Mid	QPSK	22.94	-2.8	20.14	33.01	PASS
Band2	3	18615	8	#Max	QPSK	22.85	-2.8	20.05	33.01	PASS
Band2	3	18615	15	#0	QPSK	22.95	-2.8	20.15	33.01	PASS
Band2	3	18615	1	#0	16QAM	23.28	-2.8	20.48	33.01	PASS
Band2	3	18615	1	#Mid	16QAM	23.05	-2.8	20.25	33.01	PASS
Band2	3	18615	1	#Max	16QAM	22.93	-2.8	20.13	33.01	PASS
Band2	3	18615	8	#0	16QAM	22.57	-2.8	19.77	33.01	PASS
Band2	3	18615	8	#Mid	16QAM	22.58	-2.8	19.78	33.01	PASS

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Band2	3	18615	8	#Max	16QAM	22.60	-2.8	19.80	33.01	PASS
Band2	3	18615	15	#0	16QAM	22.65	-2.8	19.85	33.01	PASS
Band2	3	18900	1	#0	QPSK	22.89	-2.8	20.09	33.01	PASS
Band2	3		1	#Mid	QPSK				33.01	PASS
		18900	-			22.93	-2.8	20.13		
Band2	3	18900	1	#Max	QPSK	23.07	-2.8	20.27	33.01	PASS
Band2	3	18900	8	#0	QPSK	22.97	-2.8	20.17	33.01	PASS
Band2	3	18900	8	#Mid	QPSK	23.00	-2.8	20.20	33.01	PASS
Band2	3	18900	8	#Max	QPSK	23.07	-2.8	20.27	33.01	PASS
Band2	3	18900	15	#0	QPSK	23.04	-2.8	20.24	33.01	PASS
Band2	3	18900	1	#0	16QAM	22.92	-2.8	20.12	33.01	PASS
Band2	3	18900	1	#Mid	16QAM	22.98	-2.8	20.12	33.01	PASS
Band2			1				-2.8			PASS
	3	18900	-	#Max	16QAM	23.13		20.33	33.01	
Band2	3	18900	8	#0	16QAM	22.71	-2.8	19.91	33.01	PASS
Band2	3	18900	8	#Mid	16QAM	22.74	-2.8	19.94	33.01	PASS
Band2	3	18900	8	#Max	16QAM	22.72	-2.8	19.92	33.01	PASS
Band2	3	18900	15	#0	16QAM	22.66	-2.8	19.86	33.01	PASS
Band2	3	19185	1	#0	QPSK	23.63	-2.8	20.83	33.01	PASS
Band2	3	19185	1	#Mid	QPSK	23.51	-2.8	20.71	33.01	PASS
Band2	3	19185	1	#Max	QPSK	23.30	-2.8	20.50	33.01	PASS
Band2	3	19185	8	#IVIAX #0	QPSK	23.57	-2.8	20.77	33.01	PASS
Band2	3	19185	8	#Mid	QPSK	23.48	-2.8	20.68	33.01	PASS
Band2	3	19185	8	#Max	QPSK	23.37	-2.8	20.57	33.01	PASS
Band2	3	19185	15	#0	QPSK	23.48	-2.8	20.68	33.01	PASS
Band2	3	19185	1	#0	16QAM	23.29	-2.8	20.49	33.01	PASS
Band2	3	19185	1	#Mid	16QAM	23.15	-2.8	20.35	33.01	PASS
Band2	3	19185	1	#Max	16QAM	22.91	-2.8	20.11	33.01	PASS
Band2	3	19185	8	#0	16QAM	22.66	-2.8	19.86	33.01	PASS
Band2	3	19185	8	#Mid	16QAM	22.67	-2.8	19.87	33.01	PASS
Band2	3	19185	8	#Max	16QAM	22.64	-2.8	19.84	33.01	PASS
Band2	3	19185	15	#0	16QAM	22.72	-2.8	19.92	33.01	PASS
Band2	5	18625	1	#0	QPSK	23.03	-2.8	20.23	33.01	PASS
Band2	5	18625	1	#Mid	QPSK	22.69	-2.8	19.89	33.01	PASS
Band2	5	18625	1	#Max	QPSK	22.33	-2.8	19.53	33.01	PASS
Band2	5	18625	12	#0	QPSK	22.88	-2.8	20.08	33.01	PASS
Band2	5	18625	12	#Mid	QPSK	22.69	-2.8	19.89	33.01	PASS
			12		QPSK					PASS
Band2	5	18625		#Max		22.46	-2.8	19.66	33.01	
Band2	5	18625	25	#0	QPSK	22.68	-2.8	19.88	33.01	PASS
Band2	5	18625	1	#0	16QAM	23.29	-2.8	20.49	33.01	PASS
Band2	5	18625	1	#Mid	16QAM	22.96	-2.8	20.16	33.01	PASS
Band2	5	18625	1	#Max	16QAM	22.62	-2.8	19.82	33.01	PASS
Band2	5	18625	12	#0	16QAM	22.62	-2.8	19.82	33.01	PASS
Band2	5	18625	12	#Mid	16QAM	22.58	-2.8	19.78	33.01	PASS
Band2	5	18625	12	#Max	16QAM	22.36	-2.8	19.56	33.01	PASS
Band2	5	18625	25	#1VIAX #0	16QAM	22.56	-2.8	19.76	33.01	PASS
Band2	5	18900	1	#0	QPSK	22.71	-2.8	19.91	33.01	PASS
Band2	5	18900	1	#Mid	QPSK	22.89	-2.8	20.09	33.01	PASS
Band2	5	18900	1	#Max	QPSK	23.02	-2.8	20.22	33.01	PASS
Band2	5	18900	12	#0	QPSK	22.80	-2.8	20.00	33.01	PASS
Band2	5	18900	12	#Mid	QPSK	22.88	-2.8	20.08	33.01	PASS
Band2	5	18900	12	#Max	QPSK	22.96	-2.8	20.16	33.01	PASS
Band2	5	18900	25	#0	QPSK	22.91	-2.8	20.11	33.01	PASS
Band2	5	18900	1	#0	16QAM	22.79	-2.8	19.99	33.01	PASS
Band2	<u>5</u>	18900	1	#Mid	16QAM	23.00	-2.8	20.20	33.01	PASS
			1				-2.8	20.20	33.01	PASS
Band2	5	18900		#Max	16QAM	23.14				
Band2	5	18900	12	#0	16QAM	22.66	-2.8	19.86	33.01	PASS
Band2	5	18900	12	#Mid	16QAM	22.70	-2.8	19.90	33.01	PASS
Band2	5	18900	12	#Max	16QAM	22.66	-2.8	19.86	33.01	PASS
Band2	5	18900	25	#0	16QAM	22.77	-2.8	19.97	33.01	PASS
Band2	5	19175	1	#0	QPSK	23.09	-2.8	20.29	33.01	PASS
Band2	5	19175	1	#Mid	QPSK	23.30	-2.8	20.50	33.01	PASS
		19175		#Max	QPSK	22.98		20.30	33.01	PASS
Band2	5		1				-2.8			
Band2	5	19175	12	#0	QPSK	23.31	-2.8	20.51	33.01	PASS
Band2	5	19175	12	#Mid	QPSK	23.36	-2.8	20.56	33.01	PASS
Band2	5	19175	12	#Max	QPSK	23.27	-2.8	20.47	33.01	PASS
Band2	5	19175	25	#0	QPSK	23.31	-2.8	20.51	33.01	PASS
Band2	5	19175	1	#0	16QAM	23.26	-2.8	20.46	33.01	PASS
Band2	5	19175	1	#Mid	16QAM	23.47	-2.8	20.67	33.01	PASS
Band2	5	19175	1	#Max	16QAM	23.15	-2.8	20.35	33.01	PASS
Danuz	J	19110	ı ı	#IVIAX	IUWAW	۷۵.۱۵	-2.0	۷۵.۵۵	JJ.U I	1 400

Band2 5											
Band2 5	Band2	5	19175	12	#0	16QAM	22.76	-2.8	19.96	33.01	PASS
Band2											
Band2											
Band2											
Band2											
Band2											
Band2 10											
Band2	Band2	10	18650				21.99	-2.8	19.19		
Band2 10	Band2	10	18650	25	#0	QPSK	22.84	-2.8	20.04	33.01	PASS
Band2 10	Band2	10	18650	25	#Mid	QPSK	22.66	-2.8	19.86	33.01	PASS
Band2											
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Band2 10 18650 25 #Max 16QAM 22.27 -2.8 19.72 33.01 PASS Band2 10 18900 1 #0 OPSK 22.50 -2.8 19.72 33.01 PASS Band2 10 18900 1 #0 OPSK 22.30 -2.8 19.60 33.01 PASS Band2 10 18900 1 #Max OPSK 22.67 -2.8 20.94 33.01 PASS Band2 10 18900 25 #Max OPSK 23.04 -2.8 20.94 33.01 PASS Band2 10 18900 25 #Max OPSK 23.42 -2.8 20.94 33.01 PASS Band2 10 18900 5 #Max OPSK 23.42 -2.8 20.29 33.01 PASS Band2 10 18900 1 #Max OPSK 23.42 -2.8 20.25 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
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Band2	Band2	10	18650	50	#0	16QAM	22.52	-2.8	19.72	33.01	PASS
Band2 10 18900 1 #Mid OPSK 23.06 -2.8 20.26 33.01 PASS Band2 10 18900 25 #O OPSK 23.74 -2.8 20.94 33.01 PASS Band2 10 18900 25 #Mod OPSK 22.67 -2.8 20.94 33.01 PASS Band2 10 18900 25 #Max OPSK 23.04 -2.8 20.62 33.01 PASS Band2 10 18900 50 #O OPSK 23.09 -2.8 20.02 33.01 PASS Band2 10 18900 1 #Mid 160AM 21.93 -2.8 19.76 33.01 PASS Band2 10 18900 1 #Mid 160AM 22.86 -2.8 19.07 33.01 PASS Band2 10 18900 25 #Mid 160AM 22.80 2.02 33.01	Band2	10	18900	1	#0	QPSK	22.30	-2.8	19.50	33.01	PASS
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Band2 10 19150 25 #0 16QAM 22.53 -2.8 19.73 33.01 PASS Band2 10 19150 25 #Mid 16QAM 22.80 -2.8 20.00 33.01 PASS Band2 10 19150 25 #Max 16QAM 22.83 -2.8 20.00 33.01 PASS Band2 10 19150 50 #0 16QAM 22.80 -2.8 20.00 33.01 PASS Band2 15 18675 1 #0 QPSK 22.88 -2.8 20.00 33.01 PASS Band2 15 18675 1 #Mid QPSK 22.22 -2.8 19.42 33.01 PASS Band2 15 18675 1 #Max QPSK 22.24 -2.8 19.42 33.01 PASS Band2 15 18675 36 #Mid QPSK 22.24 -2.8 19.44				·							
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Band2 15 18675 36 #0 QPSK 22.64 -2.8 19.84 33.01 PASS Band2 15 18675 36 #Mid QPSK 22.24 -2.8 19.44 33.01 PASS Band2 15 18675 36 #Max QPSK 21.85 -2.8 19.05 33.01 PASS Band2 15 18675 75 #0 QPSK 22.28 -2.8 19.48 33.01 PASS Band2 15 18675 1 #0 16QAM 23.08 -2.8 20.28 33.01 PASS Band2 15 18675 1 #Mid 16QAM 23.08 -2.8 19.63 33.01 PASS Band2 15 18675 1 #Max 16QAM 22.43 -2.8 19.63 33.01 PASS Band2 15 18675 36 #Max 16QAM 22.56 -2.8 19.63		15		1	#Max		21.43		18.63		
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Band2 15 18675 1 #Max 16QAM 21.64 -2.8 18.84 33.01 PASS Band2 15 18675 36 #0 16QAM 22.56 -2.8 19.76 33.01 PASS Band2 15 18675 36 #Mid 16QAM 22.17 -2.8 19.37 33.01 PASS Band2 15 18675 36 #Max 16QAM 21.78 -2.8 18.98 33.01 PASS Band2 15 18675 75 #0 16QAM 22.15 -2.8 19.35 33.01 PASS Band2 15 18900 1 #0 QPSK 21.82 -2.8 19.02 33.01 PASS Band2 15 18900 1 #Mid QPSK 22.91 -2.8 20.11 33.01 PASS Band2 15 18900 36 #0 QPSK 22.42 -2.8 19.62 <											
Band2 15 18675 36 #0 16QAM 22.56 -2.8 19.76 33.01 PASS Band2 15 18675 36 #Mid 16QAM 22.17 -2.8 19.37 33.01 PASS Band2 15 18675 36 #Max 16QAM 21.78 -2.8 18.98 33.01 PASS Band2 15 18675 75 #0 16QAM 22.15 -2.8 19.35 33.01 PASS Band2 15 18900 1 #0 QPSK 21.82 -2.8 19.02 33.01 PASS Band2 15 18900 1 #Mid QPSK 22.91 -2.8 20.11 33.01 PASS Band2 15 18900 1 #Max QPSK 23.77 -2.8 20.97 33.01 PASS Band2 15 18900 36 #Mid QPSK 22.42 -2.8 19.62											
Band2 15 18675 36 #Mid 16QAM 22.17 -2.8 19.37 33.01 PASS Band2 15 18675 36 #Max 16QAM 21.78 -2.8 18.98 33.01 PASS Band2 15 18675 75 #0 16QAM 22.15 -2.8 19.35 33.01 PASS Band2 15 18900 1 #0 QPSK 21.82 -2.8 19.02 33.01 PASS Band2 15 18900 1 #Mid QPSK 22.91 -2.8 20.11 33.01 PASS Band2 15 18900 1 #Max QPSK 23.77 -2.8 20.97 33.01 PASS Band2 15 18900 36 #0 QPSK 22.42 -2.8 19.62 33.01 PASS Band2 15 18900 36 #Mid QPSK 22.98 -2.8 20.18 <											
Band2 15 18675 36 #Max 16QAM 21.78 -2.8 18.98 33.01 PASS Band2 15 18675 75 #0 16QAM 22.15 -2.8 19.35 33.01 PASS Band2 15 18900 1 #0 QPSK 21.82 -2.8 19.02 33.01 PASS Band2 15 18900 1 #Mid QPSK 22.91 -2.8 20.11 33.01 PASS Band2 15 18900 1 #Max QPSK 23.77 -2.8 20.97 33.01 PASS Band2 15 18900 36 #0 QPSK 22.42 -2.8 19.62 33.01 PASS Band2 15 18900 36 #Mid QPSK 22.98 -2.8 20.18 33.01 PASS Band2 15 18900 36 #Max QPSK 23.54 -2.8 20.74 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Band2 15 18675 75 #0 16QAM 22.15 -2.8 19.35 33.01 PASS Band2 15 18900 1 #0 QPSK 21.82 -2.8 19.02 33.01 PASS Band2 15 18900 1 #Mid QPSK 22.91 -2.8 20.11 33.01 PASS Band2 15 18900 1 #Max QPSK 23.77 -2.8 20.97 33.01 PASS Band2 15 18900 36 #0 QPSK 22.42 -2.8 19.62 33.01 PASS Band2 15 18900 36 #Mid QPSK 22.98 -2.8 20.18 33.01 PASS Band2 15 18900 36 #Max QPSK 23.54 -2.8 20.74 33.01 PASS Band2 15 18900 75 #0 QPSK 23.03 -2.8 20.23 3	Band2	15	18675	36	#Mid	16QAM	22.17	-2.8	19.37	33.01	PASS
Band2 15 18675 75 #0 16QAM 22.15 -2.8 19.35 33.01 PASS Band2 15 18900 1 #0 QPSK 21.82 -2.8 19.02 33.01 PASS Band2 15 18900 1 #Mid QPSK 22.91 -2.8 20.11 33.01 PASS Band2 15 18900 1 #Max QPSK 23.77 -2.8 20.97 33.01 PASS Band2 15 18900 36 #0 QPSK 22.42 -2.8 19.62 33.01 PASS Band2 15 18900 36 #Mid QPSK 22.98 -2.8 20.18 33.01 PASS Band2 15 18900 36 #Max QPSK 23.54 -2.8 20.74 33.01 PASS Band2 15 18900 75 #0 QPSK 23.03 -2.8 20.23 3	Band2	15	18675	36	#Max	16QAM	21.78	-2.8	18.98	33.01	PASS
Band2 15 18900 1 #0 QPSK 21.82 -2.8 19.02 33.01 PASS Band2 15 18900 1 #Mid QPSK 22.91 -2.8 20.11 33.01 PASS Band2 15 18900 1 #Max QPSK 23.77 -2.8 20.97 33.01 PASS Band2 15 18900 36 #0 QPSK 22.42 -2.8 19.62 33.01 PASS Band2 15 18900 36 #Mid QPSK 22.98 -2.8 20.18 33.01 PASS Band2 15 18900 36 #Max QPSK 23.54 -2.8 20.74 33.01 PASS Band2 15 18900 75 #0 QPSK 23.03 -2.8 20.23 33.01 PASS											
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Band2 15 18900 36 #Max QPSK 23.54 -2.8 20.74 33.01 PASS Band2 15 18900 75 #0 QPSK 23.03 -2.8 20.23 33.01 PASS											
Band2 15 18900 75 #0 QPSK 23.03 -2.8 20.23 33.01 PASS											
	Band2			75	#0		23.03	-2.8	20.23		
	Band2	15	18900		#0	16QAM	21.84	-2.8	19.04	33.01	PASS

Band2	15	18900	1	#Mid	16QAM	22.96	-2.8	20.16	33.01	PASS
Band2	15	18900	1	#Max	16QAM	23.81	-2.8	21.01	33.01	PASS
Band2	15	18900	36	#0	16QAM	22.36	-2.8	19.56	33.01	PASS
Band2	15	18900	36	#Mid	16QAM	22.81	-2.8	20.01	33.01	PASS
Band2	15	18900	36	#Max	16QAM	22.86	-2.8	20.06	33.01	PASS
Band2	15	18900	75	#0	16QAM	22.69	-2.8	19.89	33.01	PASS
Band2	15	19125	1	#0	QPSK	22.81	-2.8	20.01	33.01	PASS
Band2	15	19125	1	#Mid	QPSK	22.47	-2.8	19.67	33.01	PASS
Band2	15	19125	1	#Max	QPSK	23.49	-2.8	20.69	33.01	PASS
Band2	15	19125	36	#0	QPSK	22.45	-2.8	19.65	33.01	PASS
Band2	15	19125	36	#Mid	QPSK	22.55	-2.8	19.75	33.01	PASS
Band2	15	19125	36	#Max	QPSK	23.22	-2.8	20.42	33.01	PASS
Band2	15	19125	75	#0	QPSK	22.83	-2.8	20.03	33.01	PASS
Band2	15	19125	1	#0	16QAM	22.73	-2.8	19.93	33.01	PASS
Band2	15	19125	1	#Mid	16QAM	22.41	-2.8	19.61	33.01	PASS
Band2	15	19125	1	#Max	16QAM	23.43	-2.8	20.63	33.01	PASS
Band2	15	19125	36	#0	16QAM	22.32	-2.8	19.52	33.01	PASS
Band2	15	19125	36	#Mid	16QAM	22.43	-2.8	19.63	33.01	PASS
Band2	15	19125	36	#Max	16QAM	22.77	-2.8	19.97	33.01	PASS
Band2	15	19125	75	#0	16QAM	22.76	-2.8	19.96	33.01	PASS
Band2	20	18700	1	#0 #N4: -l	QPSK	22.90	-2.8	20.10	33.01	PASS
Band2	20	18700	1	#Mid	QPSK	21.91	-2.8	19.11	33.01	PASS
Band2	20 20	18700 18700	1 50	#Max #0	QPSK QPSK	21.42 22.54	-2.8	18.62 19.74	33.01 33.01	PASS PASS
Band2 Band2	20	18700	50	#U #Mid	QPSK QPSK	22.54	-2.8 -2.8	19.74	33.01	PASS
Band2	20	18700	50	#Max	QPSK QPSK	21.59	-2.8	18.79	33.01	PASS
Band2	20	18700	100	#IVIAX #0	QPSK	22.06	-2.8	19.26	33.01	PASS
Band2	20	18700	1	#0	16QAM	22.77	-2.8	19.20	33.01	PASS
Band2	20	18700	1	#Mid	16QAM	21.80	-2.8	19.00	33.01	PASS
Band2	20	18700	1	#Max	16QAM	21.34	-2.8	18.54	33.01	PASS
Band2	20	18700	50	#0	16QAM	22.39	-2.8	19.59	33.01	PASS
Band2	20	18700	50	#Mid	16QAM	21.87	-2.8	19.07	33.01	PASS
Band2	20	18700	50	#Max	16QAM	21.45	-2.8	18.65	33.01	PASS
Band2	20	18700	100	#0	16QAM	21.93	-2.8	19.13	33.01	PASS
Band2	20	18900	1	#0	QPSK	21.40	-2.8	18.60	33.01	PASS
Band2	20	18900	1	#Mid	QPSK	22.94	-2.8	20.14	33.01	PASS
Band2	20	18900	1	#Max	QPSK	23.59	-2.8	20.79	33.01	PASS
Band2	20	18900	50	#0	QPSK	22.32	-2.8	19.52	33.01	PASS
Band2	20	18900	50	#Mid	QPSK	23.04	-2.8	20.24	33.01	PASS
Band2	20	18900	50	#Max	QPSK	23.58	-2.8	20.78	33.01	PASS
Band2	20	18900	100	#0	QPSK	22.98	-2.8	20.18	33.01	PASS
Band2	20	18900	1	#0	16QAM	21.45	-2.8	18.65	33.01	PASS
Band2	20	18900	1	#Mid	16QAM	23.00	-2.8	20.20	33.01	PASS
Band2	20	18900	1	#Max	16QAM	23.67	-2.8	20.87	33.01	PASS
Band2	20	18900	50	#0	16QAM	22.23	-2.8	19.43	33.01	PASS
Band2	20	18900	50	#Mid	16QAM	22.84	-2.8	20.04	33.01	PASS
Band2	20	18900	50	#Max	16QAM	22.90	-2.8	20.10	33.01	PASS
Band2	20	18900	100	#0	16QAM	22.77	-2.8	19.97	33.01	PASS
Band2	20	19100	1	#0 #N4id	QPSK	23.43	-2.8	20.63	33.01	PASS
Band2	20	19100	1	#Mid	QPSK	22.29	-2.8	19.49	33.01	PASS
Band2	20	19100	1	#Max	QPSK	23.31	-2.8	20.51	33.01	PASS
Band2	20	19100	50 50	#0 #Mid	QPSK	22.94	-2.8	20.14	33.01	PASS
Band2 Band2	20 20	19100 19100	50	#Max	QPSK QPSK	22.56 22.97	-2.8 -2.8	19.76 20.17	33.01 33.01	PASS PASS
Band2	20	19100	100	#IVIAX #0	QPSK QPSK	22.97	-2.8	20.17	33.01	PASS
Band2	20	19100	1	#0	16QAM	23.53	-2.8	20.12	33.01	PASS
Band2	20	19100	1	#Mid	16QAM	22.38	-2.8	19.58	33.01	PASS
Band2	20	19100	1	#Max	16QAM	23.42	-2.8	20.62	33.01	PASS
Band2	20	19100	50	#0	16QAM	22.85	-2.8	20.05	33.01	PASS
Band2	20	19100	50	#Mid	16QAM	22.48	-2.8	19.68	33.01	PASS
Band2	20	19100	50	#Max	16QAM	22.90	-2.8	20.10	33.01	PASS
Band2	20	19100	100	#0	16QAM	22.81	-2.8	20.01	33.01	PASS
				., 0				5.5.		

Bandd	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
Band4				-							
Bandd											
Bandd											
Band4											
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Band4 3 19965 8 #0 16QAM 21.72 -3.3 18.42 30 PASS Band4 3 19965 8 #Mid 16QAM 21.70 -3.3 18.40 30 PASS Band4 3 19965 8 #Max 16QAM 21.73 -3.3 18.43 30 PASS Band4 3 19965 15 #0 16QAM 21.65 -3.3 18.43 30 PASS Band4 3 20175 1 #0 QPSK 23.99 -3.3 20.69 30 PASS Band4 3 20175 1 #Mid QPSK 23.94 -3.3 20.64 30 PASS Band4 3 20175 1 #Max QPSK 24.04 -3.3 20.74 30 PASS Band4 3 20175 8 #Mid QPSK 23.35 -3.3 20.05 30 PASS											
Band4 3 19965 8 #Mid 16QAM 21.70 -3.3 18.40 30 PASS Band4 3 19965 8 #Max 16QAM 21.73 -3.3 18.43 30 PASS Band4 3 19965 15 #0 16QAM 21.65 -3.3 18.35 30 PASS Band4 3 20175 1 #0 QPSK 23.99 -3.3 20.69 30 PASS Band4 3 20175 1 #Mid QPSK 23.94 -3.3 20.69 30 PASS Band4 3 20175 1 #Max QPSK 24.04 -3.3 20.74 30 PASS Band4 3 20175 8 #0 QPSK 23.35 -3.3 20.05 30 PASS Band4 3 20175 8 #Mid QPSK 23.36 -3.3 20.06 30 PASS											
Band4 3 19965 8 #Max 16QAM 21.73 -3.3 18.43 30 PASS Band4 3 19965 15 #0 16QAM 21.65 -3.3 18.35 30 PASS Band4 3 20175 1 #0 QPSK 23.99 -3.3 20.69 30 PASS Band4 3 20175 1 #Mid QPSK 23.94 -3.3 20.64 30 PASS Band4 3 20175 1 #Max QPSK 24.04 -3.3 20.74 30 PASS Band4 3 20175 8 #0 QPSK 23.35 -3.3 20.05 30 PASS Band4 3 20175 8 #Mid QPSK 23.36 -3.3 20.06 30 PASS Band4 3 20175 8 #Max QPSK 23.39 -3.3 20.09 30 PASS											
Band4 3 19965 15 #0 16QAM 21.65 -3.3 18.35 30 PASS Band4 3 20175 1 #0 QPSK 23.99 -3.3 20.69 30 PASS Band4 3 20175 1 #Mid QPSK 23.94 -3.3 20.64 30 PASS Band4 3 20175 1 #Max QPSK 24.04 -3.3 20.74 30 PASS Band4 3 20175 8 #0 QPSK 23.35 -3.3 20.05 30 PASS Band4 3 20175 8 #Mid QPSK 23.36 -3.3 20.06 30 PASS Band4 3 20175 8 #Max QPSK 23.39 -3.3 20.06 30 PASS Band4 3 20175 15 #0 QPSK 23.38 -3.3 20.08 30 PASS											
Band4 3 20175 1 #0 QPSK 23.99 -3.3 20.69 30 PASS Band4 3 20175 1 #Mid QPSK 23.94 -3.3 20.64 30 PASS Band4 3 20175 1 #Max QPSK 24.04 -3.3 20.74 30 PASS Band4 3 20175 8 #0 QPSK 23.35 -3.3 20.05 30 PASS Band4 3 20175 8 #Mid QPSK 23.36 -3.3 20.06 30 PASS Band4 3 20175 8 #Max QPSK 23.39 -3.3 20.09 30 PASS Band4 3 20175 15 #0 QPSK 23.38 -3.3 20.08 30 PASS Band4 3 20175 1 #0 16QAM 23.25 -3.3 19.95 30 PASS											
Band4 3 20175 1 #Mid QPSK 23.94 -3.3 20.64 30 PASS Band4 3 20175 1 #Max QPSK 24.04 -3.3 20.74 30 PASS Band4 3 20175 8 #0 QPSK 23.35 -3.3 20.05 30 PASS Band4 3 20175 8 #Mid QPSK 23.36 -3.3 20.06 30 PASS Band4 3 20175 8 #Max QPSK 23.39 -3.3 20.09 30 PASS Band4 3 20175 15 #0 QPSK 23.38 -3.3 20.08 30 PASS Band4 3 20175 1 #0 16QAM 23.25 -3.3 19.95 30 PASS											
Band4 3 20175 1 #Max QPSK 24.04 -3.3 20.74 30 PASS Band4 3 20175 8 #0 QPSK 23.35 -3.3 20.05 30 PASS Band4 3 20175 8 #Mid QPSK 23.36 -3.3 20.06 30 PASS Band4 3 20175 8 #Max QPSK 23.39 -3.3 20.09 30 PASS Band4 3 20175 15 #0 QPSK 23.38 -3.3 20.08 30 PASS Band4 3 20175 1 #0 16QAM 23.25 -3.3 19.95 30 PASS											
Band4 3 20175 8 #0 QPSK 23.35 -3.3 20.05 30 PASS Band4 3 20175 8 #Mid QPSK 23.36 -3.3 20.06 30 PASS Band4 3 20175 8 #Max QPSK 23.39 -3.3 20.09 30 PASS Band4 3 20175 15 #0 QPSK 23.38 -3.3 20.08 30 PASS Band4 3 20175 1 #0 16QAM 23.25 -3.3 19.95 30 PASS											
Band4 3 20175 8 #Mid QPSK 23.36 -3.3 20.06 30 PASS Band4 3 20175 8 #Max QPSK 23.39 -3.3 20.09 30 PASS Band4 3 20175 15 #0 QPSK 23.38 -3.3 20.08 30 PASS Band4 3 20175 1 #0 16QAM 23.25 -3.3 19.95 30 PASS											
Band4 3 20175 8 #Max QPSK 23.39 -3.3 20.09 30 PASS Band4 3 20175 15 #0 QPSK 23.38 -3.3 20.08 30 PASS Band4 3 20175 1 #0 16QAM 23.25 -3.3 19.95 30 PASS	Band4	3									
Band4 3 20175 15 #0 QPSK 23.38 -3.3 20.08 30 PASS Band4 3 20175 1 #0 16QAM 23.25 -3.3 19.95 30 PASS		3	20175	8	#Max	QPSK	23.39				PASS
		3	20175		#0	QPSK	23.38	-3.3	20.08	30	PASS
Band4 3 20175 1 #Mid 16QAM 23.27 -3.3 19.97 30 PASS				1				-3.3			
	Band4	3	20175	1	#Mid	16QAM	23.27	-3.3	19.97	30	PASS

Band4 3 20175 Band4 3 20175 Band4 3 20175 Band4 3 20175 Band4 3 20385 Band4 3 20385	1 8 8 8 115 1 1 1 8 8 8 8 115 1 1 1 1 1	#Max #0 #Mid #Max #0 #0 #Mid #Max #0 #Mid #Max	16QAM 16QAM 16QAM 16QAM 16QAM QPSK QPSK QPSK QPSK QPSK QPSK	23.30 22.35 22.36 22.35 22.44 24.46 24.33 24.11	-3.3 -3.3 -3.3 -3.3 -3.3 -3.3	20.00 19.05 19.06 19.05 19.14 21.16	30 30 30 30 30 30	PASS PASS PASS PASS PASS
Band4 3 20175 Band4 3 20175 Band4 3 20175 Band4 3 20385	8 8 15 1 1 1 1 8 8 8 8 8 15 15	#Mid #Max #0 #0 #Mid #Max #0 #Mid #Max	16QAM 16QAM 16QAM QPSK QPSK QPSK QPSK	22.36 22.35 22.44 24.46 24.33	-3.3 -3.3 -3.3 -3.3 -3.3	19.06 19.05 19.14 21.16	30 30 30	PASS PASS PASS
Band4 3 20175 Band4 3 20175 1 Band4 3 20385 1	8 15 1 1 1 1 8 8 8 8	#Max #0 #0 #Mid #Max #0 #Mid #Max	16QAM 16QAM QPSK QPSK QPSK QPSK	22.35 22.44 24.46 24.33	-3.3 -3.3 -3.3	19.05 19.14 21.16	30 30	PASS PASS
Band4 3 20175 1 Band4 3 20385 1	15 1 1 1 8 8 8 8	#0 #0 #Mid #Max #0 #Mid #Max	16QAM QPSK QPSK QPSK QPSK	22.44 24.46 24.33	-3.3 -3.3 -3.3	19.14 21.16	30	PASS
Band4 3 20175 1 Band4 3 20385 1	15 1 1 1 8 8 8 8	#0 #0 #Mid #Max #0 #Mid #Max	16QAM QPSK QPSK QPSK QPSK	22.44 24.46 24.33	-3.3 -3.3 -3.3	19.14 21.16	30	PASS
Band4 3 20385	1 1 1 8 8 8 8	#0 #Mid #Max #0 #Mid #Max	QPSK QPSK QPSK QPSK	24.46 24.33	-3.3 -3.3	21.16		
Band4 3 20385	1 1 8 8 8 8	#Mid #Max #0 #Mid #Max	QPSK QPSK QPSK	24.33	-3.3			PASS
Band4 3 20385	1 8 8 8 8	#Max #0 #Mid #Max	QPSK QPSK			21.03	30	PASS
Band4 3 20385	8 8 8 15	#0 #Mid #Max	QPSK	21.11	-3.3	20.81	30	PASS
Band4 3 20385 Band4 3 20385 Band4 3 20385 1 3 20385	8 8 15	#Mid #Max		23.39	-3.3	20.09	30	PASS
Band4 3 20385 Band4 3 20385	8 15	#Max		23.40	-3.3	20.10	30	PASS
Band4 3 20385 1	15		QPSK	23.42	-3.3	20.10	30	PASS
		#0	QPSK	23.42	-3.3	20.12	30	PASS
Ranna 3 Juses	1							
	4	#0 #N4:-I	16QAM	23.78	-3.3	20.48	30	PASS
	1	#Mid	16QAM	23.87	-3.3	20.57	30	PASS
	1	#Max	16QAM	23.82	-3.3	20.52	30	PASS
	8	#0	16QAM	22.43	-3.3	19.13	30	PASS
	8	#Mid	16QAM	22.42	-3.3	19.12	30	PASS
	8	#Max	16QAM	22.41	-3.3	19.11	30	PASS
	15	#0	16QAM	22.46	-3.3	19.16	30	PASS
Band4 5 19975	1	#0	QPSK	23.70	-3.3	20.40	30	PASS
Band4 5 19975	1	#Mid	QPSK	23.76	-3.3	20.46	30	PASS
	1	#Max	QPSK	23.76	-3.3	20.46	30	PASS
	12	#0	QPSK	22.69	-3.3	19.39	30	PASS
	12	#Mid	QPSK	22.72	-3.3	19.42	30	PASS
	12	#Max	QPSK	22.76	-3.3	19.46	30	PASS
	25	#0	QPSK	22.69	-3.3	19.39	30	PASS
	1	#0	16QAM	23.02	-3.3	19.72	30	PASS
	1	#Mid	16QAM	23.06	-3.3	19.72	30	PASS
	-							
	1	#Max	16QAM	23.13	-3.3	19.83	30	PASS
	12	#0	16QAM	21.72	-3.3	18.42	30	PASS
	12	#Mid	16QAM	21.74	-3.3	18.44	30	PASS
	12	#Max	16QAM	21.76	-3.3	18.46	30	PASS
	25	#0	16QAM	21.67	-3.3	18.37	30	PASS
Band4 5 20175	1	#0	QPSK	23.82	-3.3	20.52	30	PASS
Band4 5 20175	1	#Mid	QPSK	23.77	-3.3	20.47	30	PASS
	1	#Max	QPSK	23.85	-3.3	20.55	30	PASS
Band4 5 20175 1	12	#0	QPSK	23.35	-3.3	20.05	30	PASS
Band4 5 20175 1	12	#Mid	QPSK	23.37	-3.3	20.07	30	PASS
	12	#Max	QPSK	23.43	-3.3	20.13	30	PASS
	25	#0	QPSK	23.39	-3.3	20.09	30	PASS
	1	#0	16QAM	23.72	-3.3	20.42	30	PASS
	1	#Mid	16QAM	23.82	-3.3	20.52	30	PASS
	1	#Max	16QAM	23.86	-3.3	20.56	30	PASS
	12	#0	16QAM	22.30	-3.3	19.00	30	PASS
	12	#Mid	16QAM	22.34	-3.3	19.04	30	PASS
	12	#Max	16QAM	22.40	-3.3	19.04	30	PASS
			16QAM	22.40	-3.3			PASS
	25	#0				19.06	30	
	1	#0	QPSK	24.51	-3.3	21.21	30	PASS
	1	#Mid	QPSK	24.41	-3.3	21.11	30	PASS
	1	#Max	QPSK	24.03	-3.3	20.73	30	PASS
	12	#0	QPSK	23.46	-3.3	20.16	30	PASS
	12	#Mid	QPSK	23.43	-3.3	20.13	30	PASS
	12	#Max	QPSK	23.40	-3.3	20.10	30	PASS
	25	#0	QPSK	23.46	-3.3	20.16	30	PASS
Band4 5 20375	1	#0	16QAM	23.90	-3.3	20.60	30	PASS
Band4 5 20375	1	#Mid	16QAM	23.87	-3.3	20.57	30	PASS
	1	#Max	16QAM	23.95	-3.3	20.65	30	PASS
	12	#0	16QAM	22.38	-3.3	19.08	30	PASS
	12	#Mid	16QAM	22.36	-3.3	19.06	30	PASS
	12	#Max	16QAM	22.30	-3.3	19.00	30	PASS
	25	#0	16QAM	22.48	-3.3	19.18	30	PASS
	1	#0	QPSK	23.78	-3.3	20.48	30	PASS
	1	#Mid	QPSK	23.89	-3.3	20.40	30	PASS
	1		QPSK QPSK		-3.3 -3.3			PASS
		#Max		23.98		20.68	30	
	25	#0	QPSK	22.72	-3.3	19.42	30	PASS
	25	#Mid	QPSK	22.79	-3.3	19.49	30	PASS
	25	#Max	QPSK	22.76	-3.3	19.46	30	PASS
Band4 10 20000 5	50	#0	QPSK	22.74	-3.3	19.44	30	PASS

Band4	10	20000	1	#0	16QAM	23.09	-3.3	19.79	30	PASS
Band4	10	20000	1	#Mid	16QAM	23.22	-3.3	19.92	30	PASS
Band4	10	20000	1	#Max	16QAM	23.30	-3.3	20.00	30	PASS
Band4	10	20000	25	#0	16QAM	21.69	-3.3	18.39	30	PASS
Band4	10	20000	25	#Mid	16QAM	21.82	-3.3	18.52	30	PASS
Band4	10	20000	25	#Max	16QAM	21.79	-3.3	18.49	30	PASS
Band4	10	20000	50	#0	16QAM	21.71	-3.3	18.41	30	PASS
Band4	10	20175	1	#0	QPSK	23.69	-3.3	20.39	30	PASS
Band4	10	20175	1	#Mid	QPSK	23.92	-3.3	20.62	30	PASS
	10	20175	1	#Max	QPSK		-3.3	21.10	30	PASS
Band4	10	20175	25	#IVIAX #0	QPSK	24.40 23.29	-3.3	19.99	30	PASS
Band4				#Mid						
Band4	10	20175	25		QPSK	23.39	-3.3	20.09	30	PASS
Band4	10	20175	25	#Max	QPSK	23.48	-3.3	20.18	30	PASS
Band4	10	20175	50	#0	QPSK	23.45	-3.3	20.15	30	PASS
Band4	10	20175	1	#0	16QAM	23.36	-3.3	20.06	30	PASS
Band4	10	20175	1	#Mid	16QAM	23.56	-3.3	20.26	30	PASS
Band4	10	20175	1	#Max	16QAM	23.61	-3.3	20.31	30	PASS
Band4	10	20175	25	#0	16QAM	22.34	-3.3	19.04	30	PASS
Band4	10	20175	25	#Mid	16QAM	22.43	-3.3	19.13	30	PASS
Band4	10	20175	25	#Max	16QAM	22.56	-3.3	19.26	30	PASS
Band4	10	20175	50	#0	16QAM	22.45	-3.3	19.15	30	PASS
Band4	10	20350	1	#0	QPSK	24.41	-3.3	21.11	30	PASS
Band4	10	20350	1	#Mid	QPSK	24.42	-3.3	21.12	30	PASS
Band4	10	20350	1	#Max	QPSK	24.40	-3.3	21.10	30	PASS
Band4	10	20350	25	#0	QPSK	23.42	-3.3	20.12	30	PASS
Band4	10	20350	25	#Mid	QPSK	23.42	-3.3	20.12	30	PASS
Band4	10	20350	25	#Max	QPSK	23.35	-3.3	20.05	30	PASS
Band4	10	20350	50	#0	QPSK	23.42	-3.3	20.12	30	PASS
Band4	10	20350	1	#0	16QAM	23.30	-3.3	20.00	30	PASS
Band4	10	20350	1	#Mid	16QAM	23.31	-3.3	20.01	30	PASS
Band4	10	20350	1	#Max	16QAM	23.36	-3.3	20.01	30	PASS
Band4	10	20350	25	#IVIAX #0	16QAM	22.40	-3.3	19.10	30	PASS
	10	20350	25	#Mid	16QAM	22.40		19.10	30	PASS
Band4							-3.3			
Band4	10	20350	25	#Max	16QAM	22.35	-3.3	19.05	30	PASS
Band4	10	20350	50	#0	16QAM	22.38	-3.3	19.08	30	PASS
Band4	15	20025	1	#0	QPSK	23.69	-3.3	20.39	30	PASS
Band4	15	20025	1	#Mid	QPSK	23.88	-3.3	20.58	30	PASS
Band4	15	20025	1	#Max	QPSK	23.94	-3.3	20.64	30	PASS
Band4	15	20025	36	#0	QPSK	22.69	-3.3	19.39	30	PASS
Band4	15	20025	36	#Mid	QPSK	22.77	-3.3	19.47	30	PASS
Band4	15	20025	36	#Max	QPSK	22.86	-3.3	19.56	30	PASS
Band4	15	20025	75	#0	QPSK	22.82	-3.3	19.52	30	PASS
Band4	15	20025	1	#0	16QAM	23.06	-3.3	19.76	30	PASS
Band4	15	20025	1	#Mid	16QAM	23.24	-3.3	19.94	30	PASS
Band4	15	20025	1	#Max	16QAM	23.43	-3.3	20.13	30	PASS
Band4	15	20025	36	#0	16QAM	21.76	-3.3	18.46	30	PASS
Band4	15	20025	36	#Mid	16QAM	21.83	-3.3	18.53	30	PASS
Band4	15	20025	36	#Max	16QAM	21.89	-3.3	18.59	30	PASS
Band4	15	20025	75	#0	16QAM	21.82	-3.3	18.52	30	PASS
Band4	15	20175	1	#0	QPSK	23.71	-3.3	20.41	30	PASS
Band4	15	20175	1	#Mid	QPSK	23.89	-3.3	20.59	30	PASS
Band4	15	20175	1	#Max	QPSK	24.32	-3.3	21.02	30	PASS
	15	20175	36	#IVIAX #0	QPSK	23.17				
Band4							-3.3	19.87	30	PASS
Band4	15	20175	36	#Mid	QPSK	23.35	-3.3	20.05	30	PASS
Band4	15	20175	36	#Max	QPSK	23.46	-3.3	20.16	30	PASS
Band4	15	20175	75	#0	QPSK	23.41	-3.3	20.11	30	PASS
Band4	15	20175	1	#0	16QAM	23.25	-3.3	19.95	30	PASS
Band4	15	20175	1	#Mid	16QAM	23.60	-3.3	20.30	30	PASS
Band4	15	20175	1	#Max	16QAM	23.61	-3.3	20.31	30	PASS
Band4	15	20175	36	#0	16QAM	22.31	-3.3	19.01	30	PASS
Band4	15	20175	36	#Mid	16QAM	22.43	-3.3	19.13	30	PASS
Band4	15	20175	36	#Max	16QAM	22.57	-3.3	19.27	30	PASS
Band4	15	20175	75	#0	16QAM	22.33	-3.3	19.03	30	PASS
Band4	15	20325	1	#0	QPSK	24.47	-3.3	21.17	30	PASS
Band4	15	20325	1	#Mid	QPSK	24.51	-3.3	21.21	30	PASS
Band4	15	20325	1	#Max	QPSK	24.50	-3.3	21.20	30	PASS
Band4	15	20325	36	#0	QPSK	23.33	-3.3	20.03	30	PASS
Band4	15	20325	36	#Mid	QPSK	23.38	-3.3	20.08	30	PASS
Danut	10	20020		πivilu	Qi Ui\	20.00	0.0	20.00		17.00

Band4	15	20325	36	#Max	QPSK	23.30	-3.3	20.00	30	PASS
Band4	15	20325	75	#IVIAX #0	QPSK	23.41	-3.3	20.00	30	PASS
Band4	15	20325	1	#0	16QAM	23.55	-3.3	20.11	30	PASS
Band4	15	20325	1	#Mid	16QAM	23.62	-3.3	20.23	30	PASS
Band4	15	20325	1	#Max	16QAM	23.59	-3.3	20.32	30	PASS
	15		36	#IVIAX #0		22.33		19.03		PASS
Band4	15	20325 20325	36	#Mid	16QAM	22.33	-3.3 -3.3		30	PASS
Band4			36		16QAM			19.06	30	
Band4	15	20325		#Max	16QAM	22.32	-3.3	19.02	30	PASS
Band4	15	20325	75	#0	16QAM	22.37	-3.3	19.07	30	PASS
Band4	20	20050	1	#0 #NA:-1	QPSK	23.47	-3.3	20.17	30	PASS
Band4	20	20050	1	#Mid	QPSK	23.83	-3.3	20.53	30	PASS
Band4	20	20050	1	#Max	QPSK	23.60	-3.3	20.30	30	PASS
Band4	20	20050	50	#0	QPSK	22.85	-3.3	19.55	30	PASS
Band4	20	20050	50	#Mid	QPSK	22.96	-3.3	19.66	30	PASS
Band4	20	20050	50	#Max	QPSK	23.04	-3.3	19.74	30	PASS
Band4	20	20050	100	#0	QPSK	22.90	-3.3	19.60	30	PASS
Band4	20	20050	1	#0	16QAM	22.88	-3.3	19.58	30	PASS
Band4	20	20050	1	#Mid	16QAM	23.22	-3.3	19.92	30	PASS
Band4	20	20050	11	#Max	16QAM	23.52	-3.3	20.22	30	PASS
Band4	20	20050	50	#0	16QAM	21.86	-3.3	18.56	30	PASS
Band4	20	20050	50	#Mid	16QAM	21.98	-3.3	18.68	30	PASS
Band4	20	20050	50	#Max	16QAM	22.07	-3.3	18.77	30	PASS
Band4	20	20050	100	#0	16QAM	21.89	-3.3	18.59	30	PASS
Band4	20	20175	1	#0	QPSK	23.68	-3.3	20.38	30	PASS
Band4	20	20175	1	#Mid	QPSK	23.84	-3.3	20.54	30	PASS
Band4	20	20175	1	#Max	QPSK	24.57	-3.3	21.27	30	PASS
Band4	20	20175	50	#0	QPSK	23.28	-3.3	19.98	30	PASS
Band4	20	20175	50	#Mid	QPSK	23.46	-3.3	20.16	30	PASS
Band4	20	20175	50	#Max	QPSK	23.63	-3.3	20.33	30	PASS
Band4	20	20175	100	#0	QPSK	23.42	-3.3	20.12	30	PASS
Band4	20	20175	1	#0	16QAM	23.39	-3.3	20.09	30	PASS
Band4	20	20175	1	#Mid	16QAM	23.88	-3.3	20.58	30	PASS
Band4	20	20175	1	#Max	16QAM	23.89	-3.3	20.59	30	PASS
Band4	20	20175	50	#0	16QAM	22.28	-3.3	18.98	30	PASS
Band4	20	20175	50	#Mid	16QAM	22.47	-3.3	19.17	30	PASS
Band4	20	20175	50	#Max	16QAM	22.66	-3.3	19.36	30	PASS
Band4	20	20175	100	#0	16QAM	22.43	-3.3	19.13	30	PASS
Band4	20	20300	1	#0	QPSK	24.22	-3.3	20.92	30	PASS
Band4	20	20300	1	#Mid	QPSK	24.48	-3.3	21.18	30	PASS
Band4	20	20300	1	#Max	QPSK	24.30	-3.3	21.00	30	PASS
Band4	20	20300	50	#0	QPSK	23.38	-3.3	20.08	30	PASS
Band4	20	20300	50	#Mid	QPSK	23.51	-3.3	20.21	30	PASS
Band4	20	20300	50	#Max	QPSK	23.36	-3.3	20.06	30	PASS
Band4	20	20300	100	#0	QPSK	23.31	-3.3	20.01	30	PASS
Band4	20	20300	1	#0	16QAM	23.47	-3.3	20.17	30	PASS
Band4	20	20300	1	#Mid	16QAM	23.69	-3.3	20.39	30	PASS
Band4	20	20300	1	#Max	16QAM	23.59	-3.3	20.29	30	PASS
Band4	20	20300	50	#0	16QAM	22.33	-3.3	19.03	30	PASS
Band4	20	20300	50	#Mid	16QAM	22.42	-3.3	19.12	30	PASS
Band4	20	20300	50	#Max	16QAM	22.34	-3.3	19.12	30	PASS
Band4	20	20300	100	#10	16QAM	22.30	-3.3	19.04	30	PASS
Dallu 4	20	20300	100	#0	IUQAW	22.30	-3.3	19.00	30	FAGG