

FCC RF TEST REPORT

Applicant:	Unplugged Technologies Ltd.
Address:	3 Hakidma St., Yokneam 2066731, Israel

Manufacturer or Supplier:	Unplugged Technologies Ltd.
Address:	3 Hakidma St., Yokneam 2066731, Israel
Product:	UP Phone 1
Brand Name:	UP Phone
Model Name:	UP01
FCC ID:	2BBBCUP01
Date of tests:	Jul. 03, 2023 ~ Sep. 28, 2023

The tests have been carried out according to the requirements of the following standard:

☒ **FCC PART 22, Subpart H** ☒ **FCC PART 24, Subpart E** ☒ **FCC Part 27, Subpart C, M** ☒
ANSI/TIA/EIA-603-D
☒ **FCC Part 2** ☒ **ANSI/TIA/EIA-603-E** ☒ **ANSI C63.26-2015**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Chao Wu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
 Date: Sep. 28, 2023	 Date: Sep. 28, 2023

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-QSU2306120115RF10	Original release	Sep. 28, 2023

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 22/24/27 & PART 2			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	TEST LAB*
§2.1046	Conducted Output Power	Compliance	A
§24.232(c) §27.50(h)(2) §27.50(d)(4) §27.50(j)(3) §27.50(k)(3)	Equivalent Isotropically Radiated Power (5G NR n2, n7,n25 ,n38,n41,n66,n77,n78)	Compliance	A
§22.913 (a) §27.50(c)(10)	Equivalent Radiated Power (5G NR n5,n12,n71)	Compliance	A
§2.1055 §22.355 §24.235 §27.54	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6) §27.53(n)(2)	Band Edge Measurements	Compliance	A



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§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6) §27.53(n)(2)	Conducted Spurious Emissions	Compliance	A
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6) §27.53(n)(2)	Radiated Spurious Emissions	Compliance	A/B
§27.50(j)(4) §22.913(d) n5 §24.232(d) n2 §27.50(d)(5) §27.50(k)(4)	Peak-to-Average Ratio	Compliance	A

***Test Lab Information Reference**

Lab A:

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

Lab Address:

No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Accredited Test Lab Cert 3939.01

FCC Site Registration No. : 525120; Designation No. : CN1171;

Lab B:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Frequency Stability	$\pm 76.97\text{Hz}$
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions & Radiated Power (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions & Radiated Power (1GHz ~6GHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GHz ~18GHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GHz ~40GHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Conducted Output power	$\pm 2.06\text{dB}$
Band Edge Measurements	$\pm 4.70\text{dB}$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 17,23	Feb. 16,24
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.14,23	May.13,24
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.04,22	Sep.03,23
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,23	Sep.02,24
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Mar. 05,23	Mar. 04,24
Horn Antenna	ETS-LINDGRE N	3117	00168692	Mar. 05,23	Mar. 04,24
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Aug. 24, 22	Aug. 23, 23
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Aug. 23, 23	Aug. 22, 24
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,23	Feb. 13,24
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.11,23	May.10,24
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.11,23	May.10,24
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 20,23	Feb.19,24
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	Euroshieldpn- CT0001143-121 6	May. 18,23	May. 17,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	May. 06,23	May. 05,24
Power Meter	Anritsu	ML2495A	1506002	Feb. 21,23	Feb. 20,24
Power Sensor	Anritsu	MA2411B	1339352	May. 06,23	May. 05,24
Temperature Chamber	ESPEC	SH-242	93000855	May. 11,23	May. 10,24
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 17,23	Feb. 16,24
Base station R&S CMW500	Rohde&Schwa rz	CMW500	153085	May.11,23	May.10,24
Radio Communication Analyzer	Starpoint	SP9500-CTS	20460	Oct. 13,22	Oct. 12,23

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,22	Aug.29,24
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
Vector Signal Generator	R&S	SMBV100B	102176	Feb.16,22	Feb.15,24
Signal Generator	R&S	SMB100A	182185	Feb.16,22	Feb.15,24
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESR26	101734	Feb.25,22	Feb.24,24
EMI TEST Receiver	R&S	ESW44	101973	Feb.25,22	Feb.24,24
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.28,22	Feb.27,24
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.23,22	Feb.22,24
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,22	Aug.21,24
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,22	Feb.22,24
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.27,22	Jun.26,24
Test Software	EMC32	EMC32	N/A	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	Oct.01,22	Sep.30,24
DC Source	HYELEC	HY3010B	551016	Aug.31,22	Aug.30,24
Hygrothermograph	DELI	20210528	SZ014	Sep.06,22	Sep.05,24
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Oct.31,22	Apr.29,23
CABLE	R&S	W12.14	N/A	Oct.31,22	Apr.29,23
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Oct.31,22	Apr.29,23
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Oct.31,22	Apr.29,23
Temperature Chamber	votsch	VT4002	58566078100050	May.31,22	May.30,24

- NOTE:** 1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 434559; The Designation No. is CN1325.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	UP Phone 1	
BRAND NAME*	UP Phone	
MODEL NAME*	UP01	
NOMINAL VOLTAGE*	3.87 Vdc (Battery)	
MODULATION TECHNOLOGY	5G NR	DFT-s-OFDM(Pi/2BPSK,QPSK,16QAM,64QAM,256QAM); CP-OFDM(QPSK,16QAM,64QAM,256QAM);
LTE ANCHOR BAND FOR NR BAND	NR Band n2	LTE Band 5/7/12/13/14/66/71
	NR Band n5	LTE Band 2/7/48/66
	NR Band n7	LTE Band 2/5/12/13/66/71
	NR Band n12	LTE Band 2/7/66
	NR Band n25	LTE Band 12/48/66
	NR Band n38	LTE Band 2/4/5/12/66/71
	NR Band n41/n41(HPUE)	LTE Band 2/4/5/12/25/66/71
	NR Band n66	LTE Band 2/5/7/12/13/14/48/71
	NR Band n71	LTE Band 2/7/66
	NR Band n77(Part27Q)/(HPUE)	LTE Band 2/5/7/12/13/14/41/66
	NR Band n77(Part27O)/(HPUE)	LTE Band 2/5/7/12/13/14/41/66
	NR Band n78(Part27Q)/(HPUE)	LTE Band 2/4/5/12/13/26/38/41/66/71
	NR Band n78(Part27O)/(HPUE)	LTE Band 2/4/5/12/41/66/71
FREQUENCY RANGE	NR Band n2	1852.5MHz ~ 1907.5MHz
	NR Band n5	826.5MHz ~ 846.5MHz
	NR Band n7	2502.5MHz ~ 2567.5MHz
	NR Band n12	701.5MHz ~ 713.5MHz
	NR Band n25	1852.5MHz ~ 1912.5MHz
	NR Band n38	2575MHz ~ 2615MHz
	NR Band n41	2501.01MHz ~ 2685MHz

	NR Band n66	1712.5MHz ~ 1777.5MHz
	NR Band n71	665.5MHz ~ 695.5MHz
	NR Band n77(Part27Q)	3455.01MHz ~ 3544.98MHz
	NR Band n77(Part27O)	3705MHz ~ 3974.97MHz
	NR Band n78(Part27Q)	3455.01MHz ~ 3544.98MHz
	NR Band n78(Part27O)	3705MHz ~ 3794.97MHz
	NR CA	N2+N48,N2+N77,N5+N48,N5+N66,N5+N77, N48+N66,N66+N71(See note6)
	NR ENDC	b2+n5,b2+n41,b2+n66,b2+n71,b2+n77, b13+n2, b13+n66, n2+b66,b66+n5,n25+b66, b41+n41,b66+n41,b66+n71 (See note6)

EMISSION DESIGNATOR	NR Band n5 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M49W7D 64QAM: 4M49W7D 256QAM: 4M47W7D Pi/2BPSK: 4M47G7D
	NR Band n5 Channel Bandwidth: 10MHz	QPSK: 9M00G7D 16QAM: 9M00W7D 64QAM: 9M00W7D 256QAM: 9M03G7D Pi/2BPSK: 8M98G7D
	NR Band n5 Channel Bandwidth: 15MHz	QPSK: 13M4G7D 16QAM: 13M4W7D 64QAM: 13M5W7D 256QAM: 13M5W7D Pi/2BPSK: 13M4G7D
	NR Band n5 Channel Bandwidth: 20MHz	QPSK: 17M9G7D 16QAM: 17M9W7D 64QAM: 17M9W7D 256QAM: 18M0G7D Pi/2BPSK: 17M9G7D
	NR Band n7 Channel Bandwidth: 5MHz	QPSK: 8M98G7D 16QAM: 8M98W7D 64QAM: 8M97W7D 256QAM: 8M98W7D Pi/2BPSK: 8M97G7D
	NR Band n7 Channel Bandwidth: 10MHz	QPSK: 8M98G7D 16QAM: 8M98W7D 64QAM: 8M97W7D 256QAM: 8M97W7D Pi/2BPSK: 8M98G7D
	NR Band n7 Channel Bandwidth: 15MHz	QPSK: 13M4G7D 16QAM: 13M5W7D 64QAM: 13M5W7D 256QAM: 13M5W7D Pi/2BPSK: 13M5G7D
	NR Band n7 Channel Bandwidth: 20MHz	QPSK: 17M9G7D 16QAM: 17M9W7D 64QAM: 17M9W7D 256QAM: 18M0G7D Pi/2BPSK: 17M9G7D

EMISSION DESIGNATOR	NR Band n12 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M49W7D 64QAM: 4M49W7D 256QAM: 4M47W7D Pi/2BPSK: 4M47G7D
	NR Band n12 Channel Bandwidth: 10MHz	QPSK: 8M99G7D 16QAM: 9M00W7D 64QAM: 8M99W7D 256QAM: 9M03G7D Pi/2BPSK: 8M98G7D
	NR Band n12 Channel Bandwidth: 15MHz	QPSK: 13M4G7D 16QAM: 13M4W7D 64QAM: 13M5W7D 256QAM: 13M5W7D Pi/2BPSK: 13M4G7D
	NR Band n25 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M49W7D 64QAM: 4M49W7D 256QAM: 4M47W7D Pi/2BPSK: 4M47G7D
	NR Band n25 Channel Bandwidth: 10MHz	QPSK: 8M99G7D 16QAM: 9M00W7D 64QAM: 9M00W7D 256QAM: 9M04G7D Pi/2BPSK: 8M98G7D
	NR Band n25 Channel Bandwidth: 15MHz	QPSK: 13M5G7D 16QAM: 13M5W7D 64QAM: 13M4W7D 256QAM: 13M5W7D Pi/2BPSK: 13M4G7D
	NR Band n25 Channel Bandwidth: 20MHz	QPSK: 18M0G7D 16QAM: 18M0W7D 64QAM: 17M9W7D 256QAM: 18M0W7D Pi/2BPSK: 18M0G7D

EMISSION DESIGNATOR	NR Band n41 Channel Bandwidth: 10MHz	QPSK: 8M80G7D 16QAM: 8M77W7D 64QAM: 8M76W7D 256QAM: 8M76W7D Pi/2BPSK: 8M75G7D
	NR Band n41 Channel Bandwidth: 15MHz	QPSK: 13M0G7D 16QAM: 13M0W7D 64QAM: 12M9W7D 256QAM: 13M0W7D Pi/2BPSK: 13M0G7D
	NR Band n41 Channel Bandwidth: 20MHz	QPSK: 17M9G7D 16QAM: 17M9W7D 64QAM: 17M9W7D 256QAM: 17M9W7D Pi/2BPSK: 17M9G7D
	NR Band n41 Channel Bandwidth: 40MHz	QPSK: 35M7G7D 16QAM: 35M7W7D 64QAM: 35M7W7D 256QAM: 35M7W7D Pi/2BPSK: 35M7G7D
	NR Band n41 Channel Bandwidth: 50MHz	QPSK: 45M7G7D 16QAM: 45M7W7D 64QAM: 45M8W7D 256QAM: 45M7W7D Pi/2BPSK: 45M7G7D
	NR Band n41 Channel Bandwidth: 60MHz	QPSK: 57M8G7D 16QAM: 57M9W7D 64QAM: 57M8W7D 256QAM: 57M9W7D Pi/2BPSK: 57M8G7D
	NR Band n41 Channel Bandwidth: 80MHz	QPSK: 77M3G7D 16QAM: 77M2W7D 64QAM: 77M2W7D 256QAM: 77M1W7D Pi/2BPSK: 77M2G7D
	NR Band n41 Channel Bandwidth: 90MHz	QPSK: 85M7G7D 16QAM: 85M8W7D 64QAM: 85M7W7D 256QAM: 85M8W7D Pi/2BPSK: 85M8G7D
	NR Band n41 Channel Bandwidth: 100MHz	QPSK: 96M3G7D 16QAM: 96M3W7D 64QAM: 96M2W7D 256QAM: 96M4W7D Pi/2BPSK: 96M3G7D

EMISSION DESIGNATOR	NR Band n66 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M49W7D 64QAM: 4M49W7D 256QAM: 4M47W7D Pi/2BPSK: 4M47G7D
	NR Band n66 Channel Bandwidth: 10MHz	QPSK: 9M00G7D 16QAM: 9M01W7D 64QAM: 9M01W7D 256QAM: 9M04W7D Pi/2BPSK: 8M98G7D
	NR Band n66 Channel Bandwidth: 15MHz	QPSK: 13M5G7D 16QAM: 13M5W7D 64QAM: 13M5W7D 256QAM: 13M5W7D Pi/2BPSK: 13M4G7D
	NR Band n66 Channel Bandwidth: 20MHz	QPSK: 18M0G7D 16QAM: 18M0W7D 64QAM: 17M9W7D 256QAM: 18M0W7D Pi/2BPSK: 18M0G7D
	NR Band n66 Channel Bandwidth: 40MHz	QPSK: 38M6G7D 16QAM: 38M6W7D 64QAM: 38M6W7D 256QAM: 38M5G7D Pi/2BPSK: 38M7G7D
	NR Band n71 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M49W7D 64QAM: 4M49W7D 256QAM: 4M47W7D Pi/2BPSK: 4M47G7D
	NR Band n71 Channel Bandwidth: 10MHz	QPSK: 9M00G7D 16QAM: 9M01W7D 64QAM: 9M00W7D 256QAM: 9M04G7D Pi/2BPSK: 8M99G7D
	NR Band n71 Channel Bandwidth: 15MHz	QPSK: 13M4G7D 16QAM: 13M4W7D 64QAM: 13M5W7D 256QAM: 13M5W7D Pi/2BPSK: 13M4G7D
	NR Band n71 Channel Bandwidth: 20MHz	QPSK: 18M0G7D 16QAM: 17M9W7D 64QAM: 17M9W7D 256QAM: 18M0W7D Pi/2BPSK: 18M0G7D

EMISSION DESIGNATOR	NR Band 77(Part27Q) Channel Bandwidth: 10MHz	QPSK: 8M82G7D 16QAM: 8M87W7D 64QAM: 8M78W7D 256QAM: 8M79W7D Pi/2BPSK: 8M76G7D
	NR Band 77(Part27Q) Channel Bandwidth: 15MHz	QPSK: 13M0G7D 16QAM: 13M0W7D 64QAM: 13M0W7D 256QAM: 13M0W7D Pi/2BPSK: 13M0G7D
	NR Band 77(Part27Q) Channel Bandwidth: 20MHz	QPSK: 18M0G7D 16QAM: 18M0W7D 64QAM: 18M0W7D 256QAM: 18M0W7D Pi/2BPSK: 18M0G7D
	NR Band 77(Part27Q) Channel Bandwidth: 40MHz	QPSK: 35M8G7D 16QAM: 35M8W7D 64QAM: 35M7W7D 256QAM: 35M8W7D Pi/2BPSK: 35M8G7D
	NR Band 77(Part27Q) Channel Bandwidth: 50MHz	QPSK: 45M7G7D 16QAM: 45M8W7D 64QAM: 45M8W7D 256QAM: 45M7W7D Pi/2BPSK: 45M8G7D
	NR Band 77(Part27Q) Channel Bandwidth: 60MHz	QPSK: 58M0G7D 16QAM: 58M1W7D 64QAM: 58M0W7D 256QAM: 58M1W7D Pi/2BPSK: 57M9G7D
	NR Band 77(Part27Q) Channel Bandwidth: 80MHz	QPSK: 77M3G7D 16QAM: 77M2W7D 64QAM: 77M1W7D 256QAM: 77M0W7D Pi/2BPSK: 77M4G7D
	NR Band 77(Part27Q) Channel Bandwidth: 90MHz	QPSK: 85M5G7D 16QAM: 85M7W7D 64QAM: 85M7W7D 256QAM: 85M8W7D Pi/2BPSK: 85M9G7D

	NR Band 77(Part27Q) Channel Bandwidth: 100MHz	QPSK: 96M2G7D 16QAM: 96M4W7D 64QAM: 96M2W7D 256QAM: 96M0W7D Pi/2BPSK: 96M3G7D
EMISSION DESIGNATOR	NR Band 77(Part27O) Channel Bandwidth: 10MHz	QPSK: 8M82G7D 16QAM: 8M87W7D 64QAM: 8M79W7D 256QAM: 8M80W7D Pi/2BPSK: 8M76G7D
	NR Band 77(Part27O) Channel Bandwidth: 15MHz	QPSK: 13M0G7D 16QAM: 13M0W7D 64QAM: 12M5W7D 256QAM: 13M0W7D Pi/2BPSK: 13M0G7D
	NR Band 77(Part27O) Channel Bandwidth: 20MHz	QPSK: 17M9G7D 16QAM: 17M9W7D 64QAM: 17M9W7D 256QAM: 17M9W7D Pi/2BPSK: 17M9G7D
	NR Band 77(Part27O) Channel Bandwidth: 40MHz	QPSK: 35M8G7D 16QAM: 35M8W7D 64QAM: 35M7W7D 256QAM: 35M8W7D Pi/2BPSK: 35M8G7D
	NR Band 77(Part27O) Channel Bandwidth: 50MHz	QPSK: 45M7G7D 16QAM: 45M8W7D 64QAM: 45M9W7D 256QAM: 45M8W7D Pi/2BPSK: 45M8G7D
	NR Band 77(Part27O) Channel Bandwidth: 60MHz	QPSK: 58M0G7D 16QAM: 58M1W7D 64QAM: 58M1W7D 256QAM: 58M1W7D Pi/2BPSK: 58M0G7D

EMISSION DESIGNATOR	NR Band 77(Part27O) Channel Bandwidth: 80MHz	QPSK: 77M3G7D 16QAM: 77M2W7D 64QAM: 77M2W7D 256QAM: 77M1W7D Pi/2BPSK: 77M5G7D
	NR Band 77(Part27O) Channel Bandwidth: 90MHz	QPSK: 85M6G7D 16QAM: 85M8W7D 64QAM: 85M7W7D 256QAM: 85M8W7D Pi/2BPSK: 85M9G7D
	NR Band 77(Part27O) Channel Bandwidth: 100MHz	QPSK: 96M2G7D 16QAM: 96M4W7D 64QAM: 96M3W7D 256QAM: 96M1W7D Pi/2BPSK: 96M3G7D
5G SA MAX. EIRP POWER	NR Band n2 Channel Bandwidth: 5MHz	207.97mW
	NR Band n2 Channel Bandwidth: 10MHz	203.7mW
	NR Band n2 Channel Bandwidth: 15MHz	202.77mW
	NR Band n2 Channel Bandwidth: 20MHz	214.78mW
	NR Band n5 Channel Bandwidth: 5MHz	100mW
	NR Band n5 Channel Bandwidth: 10MHz	98.63 mW
	NR Band n5 Channel Bandwidth: 15MHz	98.63 mW
	NR Band n5 Channel Bandwidth: 20MHz	102.09mW

5G SA MAX. EIRP POWER	NR Band n7 Channel Bandwidth: 5MHz	293.76mW
	NR Band n7 Channel Bandwidth: 10MHz	291.07mW
	NR Band n7 Channel Bandwidth: 15MHz	283.14mW
	NR Band n7 Channel Bandwidth: 20MHz	328.1mW
	NR Band n12 Channel Bandwidth: 5MHz	150.31mW
	NR Band n12 Channel Bandwidth: 10MHz	145.55mW
	NR Band n12 Channel Bandwidth: 15MHz	152.05mW
	NR Band n25 Channel Bandwidth: 5MHz	199.07mW
	NR Band n25 Channel Bandwidth: 10MHz	199.07mW
	NR Band n25 Channel Bandwidth: 15MHz	195.88mW
	NR Band n25 Channel Bandwidth: 20MHz	211.84mW
	NR Band n38 Channel Bandwidth: 10MHz	287.08mW
	NR Band n38 Channel Bandwidth: 15MHz	285.76mW

5G SA MAX. EIRP POWER	NR Band n38 Channel Bandwidth: 20MHz	299.92mW
	NR Band n41 Channel Bandwidth: 10MHz	118.58mW
	NR Band n41 Channel Bandwidth: 15MHz	116.68mW
	NR Band n41 Channel Bandwidth: 20MHz	116.68mW
	NR Band n41 Channel Bandwidth: 40MHz	114.02mW
	NR Band n41 Channel Bandwidth: 50MHz	113.24mW
	NR Band n41 Channel Bandwidth: 60MHz	113.5mW
	NR Band n41 Channel Bandwidth: 80MHz	116.95mW
	NR Band n41 Channel Bandwidth: 90MHz	118.03mW
	NR Band n41 Channel Bandwidth: 100MHz	122.74mW
	NR Band n41(HPUE) Channel Bandwidth: 10MHz	177.83mW
	NR Band n41(HPUE) Channel Bandwidth: 15MHz	180.72mW
	NR Band n41(HPUE) Channel Bandwidth: 20MHz	190.99mW

5G SA MAX. EIRP POWER	NR Band n41(HPUE) Channel Bandwidth: 40MHz	188.36mW
	NR Band n41(HPUE) Channel Bandwidth: 50MHz	188.8mW
	NR Band n41(HPUE) Channel Bandwidth: 60MHz	191.87mW
	NR Band n41(HPUE) Channel Bandwidth: 80MHz	189.67mW
	NR Band n41(HPUE) Channel Bandwidth: 90MHz	192.75mW
	NR Band n41(HPUE) Channel Bandwidth: 100MHz	194.54mW
	NR Band n66 Channel Bandwidth: 5MHz	198.61mW
	NR Band n66 Channel Bandwidth: 10MHz	200.91mW
	NR Band n66 Channel Bandwidth: 15MHz	199.07mW
	NR Band n66 Channel Bandwidth: 20MHz	199.99mW
	NR Band n66 Channel Bandwidth: 40MHz	203.7mW
	NR Band n71 Channel Bandwidth: 5MHz	148.59mW
	NR Band n71 Channel Bandwidth: 10MHz	145.55mW
	NR Band n71 Channel Bandwidth: 15MHz	145.21mW

5G SA MAX. EIRP POWER	NR Band n71 Channel Bandwidth: 20MHz	149.28mW
	NR Band 77(Part27Q) Channel Bandwidth: 10MHz	179.89mW
	NR Band 77(Part27Q) Channel Bandwidth: 15MHz	178.65mW
	NR Band 77(Part27Q) Channel Bandwidth: 20MHz	169.04mW
	NR Band 77(Part27Q) Channel Bandwidth: 40MHz	171.4mW
	NR Band 77(Part27Q) Channel Bandwidth: 50MHz	169.04mW
	NR Band 77(Part27Q) Channel Bandwidth: 60MHz	167.49mW
	NR Band 77(Part27Q) Channel Bandwidth: 80MHz	164.06mW
	NR Band 77(Part27Q) Channel Bandwidth: 90MHz	164.82mW
	NR Band 77(Part27Q) Channel Bandwidth: 100MHz	181.55mW
	NR Band 77(Part27O) Channel Bandwidth: 10MHz	155.96mW
	NR Band 77(Part27O) Channel Bandwidth: 15MHz	155.24mW
	NR Band 77(Part27O) Channel Bandwidth: 20MHz	153.11mW
	NR Band 77(Part27O) Channel Bandwidth: 40MHz	153.11mW

5G SA MAX. EIRP POWER	NR Band 77(Part27O) Channel Bandwidth: 50MHz	154.53mW
	NR Band 77(Part27O) Channel Bandwidth: 60MHz	152.76mW
	NR Band 77(Part27O) Channel Bandwidth: 80MHz	157.4mW
	NR Band 77(Part27O) Channel Bandwidth: 90MHz	154.17mW
	NR Band 77(Part27Q) Channel Bandwidth: 100MHz	161.81mW
	NR Band 78(Part27Q) Channel Bandwidth: 10MHz	185.35mW
	NR Band 78(Part27Q) Channel Bandwidth: 15MHz	184.5mW
	NR Band 78(Part27Q) Channel Bandwidth: 20MHz	184.08mW
	NR Band 78(Part27Q) Channel Bandwidth: 40MHz	184.08mW
	NR Band 78(Part27Q) Channel Bandwidth: 50MHz	184.93mW
	NR Band 78(Part27Q) Channel Bandwidth: 60MHz	184.5mW
	NR Band 78(Part27Q) Channel Bandwidth: 80MHz	179.47mW
	NR Band 78(Part27Q) Channel Bandwidth: 90MHz	179.06mW
	NR Band 78(Part27Q) Channel Bandwidth: 100MHz	185.78mW
	NR Band 78(Part27O) Channel Bandwidth: 10MHz	161.44mW
	NR Band 78(Part27O) Channel Bandwidth: 15MHz	163.68mW

5G SA MAX. EIRP POWER	NR Band 78(Part27O) Channel Bandwidth: 20MHz	162.18mW
	NR Band 78(Part27O) Channel Bandwidth: 40MHz	162.55mW
	NR Band 78(Part27O) Channel Bandwidth: 50MHz	149.28mW
	NR Band 78(Part27O) Channel Bandwidth: 60MHz	156.68mW
	NR Band 78(Part27O) Channel Bandwidth: 80MHz	153.82mW
	NR Band 78(Part27O) Channel Bandwidth: 90MHz	149.97mW
	NR Band 78(Part27O) Channel Bandwidth: 100MHz	165.58mW
	NR Band 77(Part27Q)(HPUE) Channel Bandwidth: 10MHz	177.83 mW
	NR Band 77(Part27Q) (HPUE) Channel Bandwidth: 15MHz	180.72 mW
	NR Band 77(Part27Q) (HPUE) Channel Bandwidth: 20MHz	194.54 mW
	NR Band 77(Part27Q) (HPUE) Channel Bandwidth: 40MHz	188.36 mW
	NR Band 77(Part27Q) (HPUE) Channel Bandwidth: 50MHz	197.7 mW
	NR Band 77(Part27Q) (HPUE) Channel Bandwidth: 60MHz	191.87 mW
	NR Band 77(Part27Q) (HPUE) Channel Bandwidth: 80MHz	197.7 mW

5G SA MAX. EIRP POWER	NR Band 77(Part27Q) (HPUE) Channel Bandwidth: 90MHz	192.75 mW
	NR Band 77(Part27Q) (HPUE) Channel Bandwidth: 100MHz	194.54 mW
	NR Band 77(Part27O) (HPUE) Channel Bandwidth: 10MHz	321.37 mW
	NR Band 77(Part27O) (HPUE) Channel Bandwidth: 15MHz	306.9 mW
	NR Band 77(Part27O) (HPUE) Channel Bandwidth: 20MHz	318.42 mW
	NR Band 77(Part27O) (HPUE) Channel Bandwidth: 40MHz	309.74 mW
	NR Band 77(Part27O) (HPUE) Channel Bandwidth: 50MHz	316.23 mW
	NR Band 77(Part27O) (HPUE) Channel Bandwidth: 60MHz	309.74 mW
	NR Band 77(Part27O) (HPUE) Channel Bandwidth: 80MHz	314.77 mW
	NR Band 77(Part27O) (HPUE) Channel Bandwidth: 90MHz	309.74 mW
	NR Band 77(Part27Q) (HPUE) Channel Bandwidth: 100MHz	335.74 mW
	NR Band 78(Part27Q) (HPUE) Channel Bandwidth: 10MHz	322.85 mW
	NR Band 78(Part27Q) (HPUE) Channel Bandwidth: 15MHz	323.59 mW

5G SA MAX. EIRP POWER	NR Band 78(Part27Q) (HPUE) Channel Bandwidth: 20MHz	321.37 mW
	NR Band 78(Part27Q) (HPUE) Channel Bandwidth: 40MHz	317.69 mW
	NR Band 78(Part27Q) (HPUE) Channel Bandwidth: 50MHz	314.77 mW
	NR Band 78(Part27Q) (HPUE) Channel Bandwidth: 60MHz	322.11 mW
	NR Band 78(Part27Q) (HPUE) Channel Bandwidth: 80MHz	319.89 mW
	NR Band 78(Part27Q) (HPUE) Channel Bandwidth: 90MHz	316.96 mW
	NR Band 78(Part27Q) (HPUE) Channel Bandwidth: 100MHz	327.34 mW
	NR Band 78(Part27Q) (HPUE) Channel Bandwidth: 10MHz	257.63 mW
	NR Band 78(Part27Q) (HPUE) Channel Bandwidth: 15MHz	256.45 mW
	NR Band 78(Part27Q) (HPUE) Channel Bandwidth: 20MHz	255.86 mW
	NR Band 78(Part27Q) (HPUE) Channel Bandwidth: 40MHz	254.68 mW
	NR Band 78(Part27Q) (HPUE) Channel Bandwidth: 50MHz	258.23 mW
	NR Band 78(Part27Q) (HPUE) Channel Bandwidth: 60MHz	254.1 mW

5G SA MAX. EIRP POWER	NR Band 78(Part27O) (HPUE) Channel Bandwidth: 80MHz	252.35 mW
	NR Band 78(Part27O) (HPUE) Channel Bandwidth: 90MHz	252.93 mW
	NR Band 78(Part27O) (HPUE) Channel Bandwidth: 100MHz	261.22 mW
ANTENNA TYPE*	5G SA LOOP Antenna with -1.5 dBi gain for NR Band n5 PIFA Antenna with 0.5 dBi gain for NR Band n7 LOOP Antenna with -2 dBi gain for NR Band n12 LOOP Antenna with -2 dBi gain for NR Band n71 PIFA Antenna with -1 dBi gain for NR Band n2 PIFA Antenna with -1dBi gain for NR Band n25 PIFA Antenna with 0.5dBi gain for NR Band n38 PIFA Antenna with 0.5dBi gain for NR Band n41 PIFA Antenna with -1dBi gain for NR Band n66 PIFA Antenna with 0.5 dBi gain for NR Band n77 PIFA Antenna with 0.5 dBi gain for NR Band n78	
HW VERSION*	M156-MUB-V2	
SW VERSION*	NR_D011.13_N_UP01_1.000.01	
I/O PORTS*	Refer to user's manual	
CABLE SUPPLIED*	N/A	
EXTREME TEMPERATURE*	0 ~55 °C	
EXTREME VOLTAGE*	3.6V – 4.45V	

NOTE:

- *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and four receivers.

MODULATION MODE	TX FUNCTION
5G NR	1TX/4RX

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown

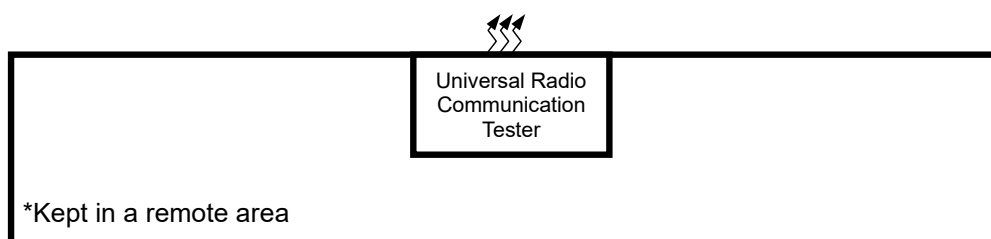
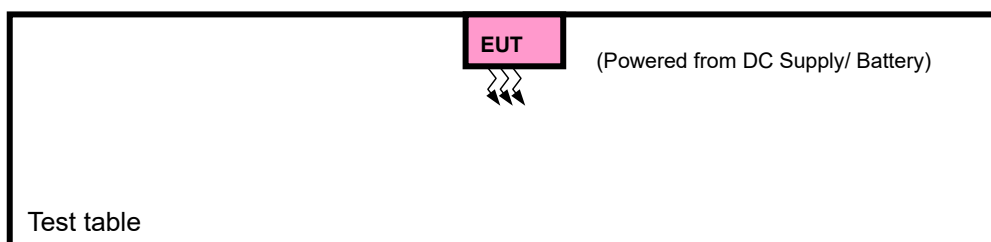
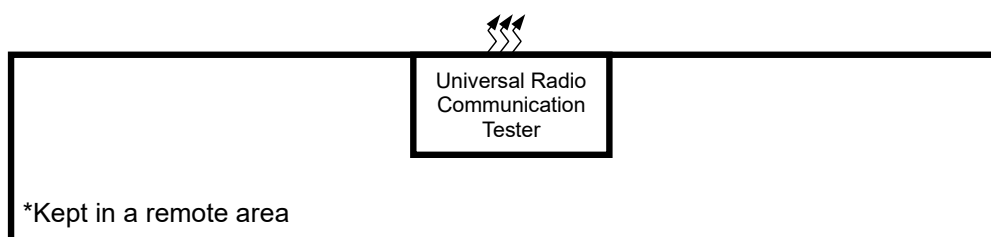
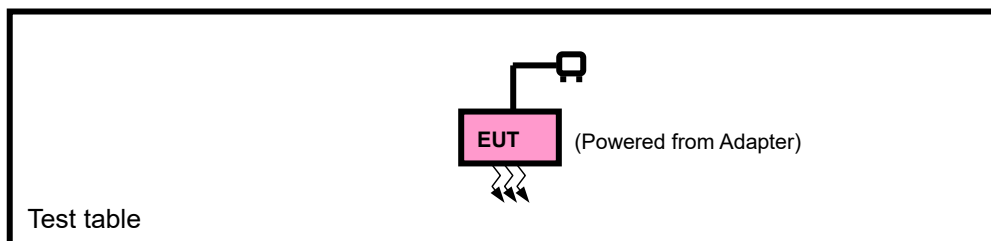
in test report.

5. Max ERP/EIRP is according to Max conducted power calculate for SA.
6. The power of single LTE/NR band is larger than that in ENDC/CA, so single LTE/NR band data can cover the RSE risk of ENDC/CA part

List of Accessory:

ACCESSORIES	Brand	MODEL / SPECIFICATION
CPU	MediaTek	MT6893
eMMC 1 (=ROM 1)	Sandisk	SDINFDK4-256G
eMMC 2 (=ROM 2)	Samsung	KLUEG4RHGB-B0E1
eMMC 3 (=ROM 3)	Samsung	KLUEG4RHGB-B0E1
eMMC 4 (=ROM 4)	Samsung	KLUEG4RHGB-B0E1
RAM 1	Hynix	H9HKNNNFBMAVAR-NEH
RAM 2	Samsung	K3UH7H70BM-AGCL
BT/WLAN Module	MediaTek	/
NFC chipset	ST	/
Battery	/	Power Rating: 16.98Wh

2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION TEST



2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Laptop	Lenovo	ThinkPad E14	HRSW00024	N/A
2	Adapter	N/A	N/A	N/A	N/A
3	DC Source	HYELEC	HY3010B	551016	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.8m
2	USB Cable: Unshielded, Detachable, 1.0m;

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter + USB Cable with 5G NR link
B	EUT + DC Supply with 5G NR link

5G NR n2 MODE (SA_{n2}/N2+N48 / N2+N77)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	370500 to 381500	370500 to 381500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		371000 to 381000	371000 to 381000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		371500 to 380500	371500 to 380500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		372000 to 513500	372000 to 513500	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The EIRP calculate presented in the report from worst SA n2.

3. SA n2 are covered by SA n25, Because it is a subset of SA n25 with the same output power and supported bandwidths, So the conducted test data please refer to SA n25.

5G NR n5 MODE (SA_{n5}/N5+N48 / N5+N66 / N5+N77)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	165300 to 169300	165300 to 169300	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		165800 to 168800	165800 to 168800	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		166300 to 168300	166300 to 168300	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		166800 to 167800	166800 to 167800	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	166800 to 167800	166800 to 167800	Middle	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	166800 to 167800	166800 to 167800	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	165300 to 169300	165300 to 169300	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		165800 to 168800	165800 to 168800	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		166300 to 168300	166300 to 168300	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		166800 to 167800	166800 to 167800	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	165300 to 169300	165300 to 169300	Low	5MHz	QPSK	1RB/ 0RB Offset
				High	5MHz	QPSK	Outer_ Full
							1RB/ 24RB Offset

		165800 to 168800	165800 to 168800	Low	10MHz	QPSK	Outer_Full
				High	10MHz	QPSK	1RB/ 0RB Offset
		166800 to 167800	166800 to 167800	Low	20MHz	QPSK	Outer_Full
							1RB/ 51RB Offset
				High	20MHz	QPSK	Outer_Full
							1RB/ 105RB Offset
A	CONDUCTED EMISSION	165300 to 169300	165300 to 169300	Low, Middle, High	5MHz	QPSK	Outer_Full
		165800 to 168800	165800 to 168800	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		166800 to 167800	166800 to 167800	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	165300 to 169300	165300 to 169300	Middle,	5MHz	QPSK	1RB/ 0RB Offset
		165800 to 168800	165800 to 168800	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		166300 to 168300	166300 to 168300	Middle,	15MHz	QPSK	1RB/ 0RB Offset
		166800 to 167800	166800 to 167800	Middle,	20MHz	QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n5.

5G NR n7 MODE (SA_n7)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	500500 to 513500	500500 to 513500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		51000 to 513000	51000 to 513000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		501500 to 512500	501500 to 512500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		502000 to 512000	502000 to 512000	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	502000 to 512000	502000 to 512000	Middle	20MHz	QPSK	Outer_Full

A	PEAK TO AVERAGE RATIO	502000 to 512000	502000 to 512000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
							Outer_Full
A	OCCUPIED BANDWIDTH	500500 to 513500	500500 to 513500	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_Full
		51000 to 513000	51000 to 513000	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_Full
		501500 to 512500	501500 to 512500	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_Full
		502000 to 512000	502000 to 512000	Middle	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_Full
A	BAND EDGE	500500 to 513500	500500 to 513500	Low	5MHz	QPSK	1RB/ 0RB Offset
							Outer_Full
				High	5MHz	QPSK	1RB/ 24RB Offset
							Outer_Full
		51000 to 513000	51000 to 513000	Low	10MHz	QPSK	1RB/ 0RB Offset
							Outer_Full
				High	10MHz	QPSK	1RB/ 51RB Offset
							Outer_Full
		502000 to 512000	502000 to 512000	Low	20MHz	QPSK	1RB/ 0RB Offset
							Outer_Full
				High	20MHz	QPSK	1RB/ 105RB Offset
							Outer_Full
A	CONDUCTED EMISSION	500500 to 513500	500500 to 513500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		51000 to 513000	51000 to 513000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		502000 to 512000	502000 to 512000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	500500 to 513500	500500 to 513500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		51000 to 513000	51000 to 513000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		501500 to 512500	501500 to 512500	Middle	15MHz	QPSK	1RB/ 0RB Offset
		502000 to 512000	502000 to 512000	Middle	20MHz	QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n7.

5G NR n12 MODE (SA_n12)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	140300 to 142700	140300 to 142700	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		140800 to 142200	140800 to 142200	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		141300 to 141700	141300 to 141700	Low, Middle, High	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	141300 to 141700	141300 to 141700	Middle	15MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	141300 to 141700	141300 to 141700	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	140300 to 142700	140300 to 142700	Middle	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		140800 to 142200	140800 to 142200	Middle	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		141300 to 141700	141300 to 141700	Middle	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	140300 to 142700	140300 to 142700	Low	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
		140800 to 142200	140800 to 142200	High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 24RB Offset
							Outer_ Full
		140800 to 142200	140800 to 142200	Low	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
		141300 to 141700	141300 to 141700	High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 51RB Offset
							Outer_ Full
		141300 to 141700	141300 to 141700	Low	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
		141300 to 141700	141300 to 141700	High	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 78RB Offset
							Outer_ Full
A	CONDUCTED EMISSION	140300 to 142700	140300 to 142700	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		140800 to 142200	140800 to 142200	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		141300 to 141700	141300 to 141700	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	140300 to 142700	140300 to 142700	Middle	5MHz	QPSK	1RB/ 0RB Offset

		140800 to 142200	140800 to 142200	Middle	10MHz	QPSK	1RB/ 0RB Offset
		141300 to 141700	141300 to 141700	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n12.

5G NR n25 MODE(SA_n25)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	370500 to 382500	370500 to 382500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		371000 to 382000	371000 to 382000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		371500 to 381500	371500 to 381500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		372000 to 381000	372000 to 381000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		372500 to 380500	372500 to 380500	Low, Middle, High	25MHz	QPSK	1RB/ 0RB Offset
		373000 to 380000	373000 to 380000	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		374000 to 379000	374000 to 379000	Low, Middle, High	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	374000 to 379000	374000 to 379000	Middle	40MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	374000 to 379000	374000 to 379000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	370500 to 382500	370500 to 382500	Middle	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		371000 to 382000	371000 to 382000	Middle	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		371500 to 381500	371500 to 381500	Middle	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		372000 to 381000	372000 to 381000	Middle	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		372500 to 380500	372500 to 380500	Low, Middle, High	25MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		373000 to 380000	373000 to 380000	Low, Middle, High	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		374000 to 379000	374000 to 379000	Low, Middle, High	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	370500 to 382500	370500 to 382500	Low	5MHz	QPSK	1RB/ 0RB Offset
				High	5MHz	QPSK	Outer_ Full
							1RB/ 24 RB Offset
		372000 to 381000	372000 to 381000	Low	20MHz	QPSK	Outer_ Full
				High	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	20MHz	QPSK	1RB/ 105 RB Offset

		374000 to 379000	374000 to 379000	Low	40MHz	QPSK	Outer_Full 1RB/ 0RB Offset
				High	40MHz	QPSK	Outer_Full
							1RB/ 215 RB Offset
							Outer_Full
A	CONDUCTED EMISSION	370500 to 382500	370500 to 382500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		372000 to 381000	372000 to 381000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		374000 to 379000	374000 to 379000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	370500 to 382500	370500 to 382500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		371000 to 382000	371000 to 382000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		371500 to 381500	371500 to 381500	Middle	15MHz	QPSK	1RB/ 0RB Offset
		372000 to 381000	372000 to 381000	Middle	20MHz	QPSK	1RB/ 0RB Offset
		372500 to 380500	372500 to 380500	Middle	25MHz	QPSK	1RB/ 0RB Offset
		373000 to 380000	373000 to 380000	Middle	30MHz	QPSK	1RB/ 0RB Offset
		374000 to 379000	374000 to 379000	Middle	40MHz	QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n25

5G NR n38 MODE (SA_n38)

EUT CONFIGURE MODE	TEST ITEM	AVAILAB LE CP-OFDM CHANNE L	AVAILABL E DFT-S-OFD M CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S- OFDM) (INCLUDE CP-OFDM)
A	ERP	515000 to 523000	515000 to 523000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		515500 to 522500	515500 to 522500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		516000 to 522000	516000 to 522000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The EIRP calculate presented in the report from worst SA n38.

3. SA n38 are covered by SA n41, Because it is a subset of SA n41 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to SA n41.

5G NR n41 MODE (SA_n41)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	500202 to 537000	500202 to 537000	Low, Middle, High	10MHz	QPSK,	1RB/ 0RB Offset
		500700 to 536496	500700 to 536496	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	QPSK,	1RB/ 0RB Offset
		503202 to 534000	503202 to 534000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		504200 to 532998	504200 to 532998	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		507204 to 529998	507204 to 529998	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		508200 to 528996	508200 to 528996	Low, Middle, High	90MHz	QPSK	1RB/ 0RB Offset
		509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENCY STABILITY	509202 to 528000	509202 to 528000	Middle	100MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	509202 to 528000	509202 to 528000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	500202 to 537000	500202 to 537000	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		500700 to 536496	500700 to 536496	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		501204 to 535998	501204 to 535998	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		503202 to 534000	503202 to 534000	Middle	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		504200 to 532998	504200 to 532998	Middle	50MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		505200 to 531996	505200 to 531996	Middle	60MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		507204 to 529998	507204 to 529998	Middle	80MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		508200 to 528996	508200 to 528996	Middle	90MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		509202 to 528000	509202 to 528000	Middle	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	500202 to 537000	500202 to 537000	Low	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	10MHz	QPSK	1RB/ 50RB Offset
		500700 to 536496	500700 to 536496	Low	15MHz	QPSK	1RB/ 0RB Offset
				High	15MHz	QPSK	1RB/ 50RB Offset

							Outer_Full 1RB/ 0RB Offset		
		501204 to 535998	501204 to 535998	Low	20MHz	QPSK	Outer_Full 1RB/ 50RB Offset		
				High	20MHz	QPSK	Outer_Full 1RB/ 0RB Offset		
		503202 to 534000	503202 to 534000	Low	40MHz	QPSK	Outer_Full 1RB/ 50RB Offset		
				High	40MHz	QPSK	Outer_Full 1RB/ 0RB Offset		
		503202 to 534000	503202 to 534000	Low	40MHz	QPSK	Outer_Full 1RB/ 50RB Offset		
				High	40MHz	QPSK	Outer_Full 1RB/ 0RB Offset		
		505200 to 531996	505200 to 531996	Low	60MHz	QPSK	Outer_Full 1RB/ 161RB Offset		
				High	60MHz	QPSK	Outer_Full 1RB/ 0RB Offset		
		509202 to 528000	509202 to 528000	Low	100MHz	QPSK	Outer_Full 1RB/ 272RB Offset		
				High	100MHz	QPSK	Outer_Full		
		A	CONDUCTED EMISSION	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
				505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
				509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	QPSK	1RB/ 0RB Offset
		A	RADIATED EMISSION	500202 to 537000	500202 to 537000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
				500700 to 536496	500700 to 536496	Middle	15MHz	QPSK	1RB/ 0RB Offset
501204 to 535998	501204 to 535998			Middle	20MHz	QPSK	1RB/ 0RB Offset		
503202 to 534000	503202 to 534000			Middle	40MHz	QPSK	1RB/ 0RB Offset		
504200 to 532998	504200 to 532998			Middle	50MHz	QPSK	1RB/ 0RB Offset		
505200 to 531996	505200 to 531996			Middle	60MHz	QPSK	1RB/ 0RB Offset		
507204 to 529998	507204 to 529998			Middle	80MHz	QPSK	1RB/ 0RB Offset		
508200 to 528996	508200 to 528996			Middle	90MHz	QPSK	1RB/ 0RB Offset		
509202 to 528000	509202 to 528000			Middle	100MHz	QPSK	1RB/ 0RB Offset		

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst

case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n41.

5G NR n66 MODE (SA_n66/N66+N71)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		343500 to 354500	343500 to 354500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		344000 to 354000	344000 to 354000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		346000 to 352000	346000 to 352000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENCY STABILITY	346000 to 352000	346000 to 352000	Middle	40MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	346000 to 352000	346000 to 352000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	342500 to 355500	342500 to 355500	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		343000 to 355000	343000 to 355000	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		343500 to 354500	343500 to 354500	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		344000 to 354000	344000 to 354000	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		346000 to 352000	346000 to 352000	Middle	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	502008 to 535998	502008 to 535998	Low	5MHz	QPSK	1RB/ 0RB Offset
				High	5MHz	QPSK	Outer_ Full
							1RB/ 24RB Offset
		505008 to 532998	505008 to 532998	Low	20MHz	QPSK	Outer_ Full
				High	20MHz	QPSK	1RB/ 105RB Offset
							Outer_ Full
		508002 to 529998	508002 to 529998	Low	40MHz	QPSK	Outer_ Full
				High	40MHz	QPSK	1RB/ 215RB Offset
							Outer_ Full

A	CONDUCTED EMISSION	342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		344000 to 354000	344000 to 354000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		346000 to 352000	346000 to 352000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	342500 to 355500	342500 to 355500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Middle	10MHz	QPSK	1RB/ 0RB Offset
		343500 to 354500	343500 to 354500	Middle	15MHz	QPSK	1RB/ 0RB Offset
		344000 to 354000	344000 to 354000	Middle	20MHz	QPSK	1RB/ 0RB Offset
		346000 to 352000	346000 to 352000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n66.

5G NR n71 MODE (SA_n71)

EUT CONFIGU RE MODE	TESWT ITEM	AVAILAB LE CP-OFDM CHANNE L	AVAILABL E DFT-S-OFD M CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S- OFDM) (INCLUDE CP-OFDM)
A	ERP	133100 to 139100	133100 to 139100	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		133600 to 138600	133600 to 138600	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		134100 to 138100	134100 to 138100	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENCY STABILITY	134100 to 138100	134100 to 138100	Middle	15MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	134100 to 138100	134100 to 138100	Low, Middle, High	15MHz	QPSK	Outer_ Full
A	OCCUPIED BANDWIDTH	133100 to 139100	133100 to 139100	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		133600 to 138600	133600 to 138600	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		134100 to 138100	134100 to 138100	Middle	15MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	133100 to 139100	133100 to 139100	Low	5MHz	QPSK	1RB/ 0RB Offset
							1RB/ 24RB Offset
							Outer_ Full

				High	5MHz	QPSK	1RB/ 0RB Offset
				1RB/ 24RB Offset			
				Outer_Full			
		133600 to 138600	133600 to 138600	Low	10MHz	QPSK	1RB/ 0RB Offset
				1RB/ 51RB Offset			
				Outer_Full			
				High	10MHz	QPSK	1RB/ 0RB Offset
				1RB/ 51RB Offset			
				Outer_Full			
		134100 to 138100	134100 to 138100	Low	15MHz	QPSK	1RB/ 0RB Offset
				1RB/ 78RB Offset			
				Outer_Full			
				High	15MHz	QPSK	1RB/ 0RB Offset
				1RB/ 78RB Offset			
				Outer_Full			
134600 to 137600	134600 to 137600	Low	20MHz	QPSK	1RB/ 0RB Offset		
		1RB/ 78RB Offset					
		Outer_Full					
		High	20MHz	QPSK	1RB/ 0RB Offset		
		1RB/ 78RB Offset					
		Outer_Full					
A	CONDUCTED EMISSION	133100 to 139100	133100 to 139100	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		133600 to 138600	133600 to 138600	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		134100 to 138100	134100 to 138100	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	133100 to 139100	133100 to 139100	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		133600 to 138600	133600 to 138600	Middle	10MHz	QPSK	1RB/ 0RB Offset
		134100 to 138100	134100 to 138100	Middle	15MHz	QPSK	1RB/ 0RB Offset
		134600 to 137600	134600 to 137600	Middle	20MHz	QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst

case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n71.

5G NR n77(Part27Q) (SA_n77)(SA_n77)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	630334 to 636332	630334 to 636332	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		630500 to 636166	630500 to 636166	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		631002 to 635664	631002 to 635664	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		631334 to 635332	631334 to 635332	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		631668 to 634998	631668 to 634998	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		632000 to 634666	632000 to 634666	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		632668 to 634000	632668 to 634000	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		633334	633334	Middle	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The EIRP calculate presented in the report from worst SA n77(Part27Q).

3.SA n77(Part27Q) are covered by SA n78(Part27Q), Because it is a subset of SA n78(Part27Q) with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to SA n78(Part27Q).

5G NR n77(Part27Q) MODE (SA_N78)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	647000 to 664998	647000 to 664998	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		647166 to 664832	647166 to 664832	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		647670 to 664332	647670 to 664332	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		648336 to 663666	648336 to 663666	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		649334 to 662666	649334 to 662666	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENCY STABILITY	650000 to 662000	650000 to 662000	Middle	100MHz	QPSK	Outer_ Full

A	PEAK TO AVERAGE RATIO	650000 to 662000	650000 to 662000	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	OCCUPIED BANDWIDTH	647334 to 664666	647334 to 664666	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		647670 to 664332	647670 to 664332	Middle	30MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		648000 to 664000	648000 to 664000	Middle	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		648336 to 663666	648336 to 663666	Middle	50MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		648668 to 663332	648668 to 663332	Middle	60MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		649334 to 662666	649334 to 662666	Middle	80MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	647334 to 664666	647334 to 664666	Low	20MHz	QPSK	1RB/ 0RB Offset Outer_ Full
				High	20MHz	QPSK	1RB/ 50RB Offset Outer_ Full
		648668 to 663332	648668 to 663332	Low	60MHz	QPSK	1RB/ 0RB Offset Outer_ Full
				High	60MHz	QPSK	1RB/ 161RB Offset Outer_ Full
		650000 to 662000	650000 to 662000	Low	100MHz	QPSK	1RB/ 0RB Offset Outer_ Full
				High	100MHz	QPSK	1RB/ 272RB Offset Outer_ Full
A	CONDUCTED EMISSION	647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	647334 to 664666	647334 to 664666	Middle	20MHz	QPSK	1RB/ 0RB Offset
		647670 to 664332	647670 to 664332	Middle	30MHz	QPSK	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Middle	40MHz	QPSK	1RB/ 0RB Offset
		648336 to 663666	648336 to 663666	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Middle	60MHz	QPSK	1RB/ 0RB Offset
		649334 to 662666	649334 to 662666	Middle	80MHz	QPSK	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Middle	100MHz	QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst

case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n77(Part 27O).

5G NR Band n78(Part27Q) (SA_n78)

EUT CONFIGUR E MODE	TEST ITEM	AVAILAB LE CP-OFDM CHANNE L	AVAILABL E DFT-S-OFD M CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S- OFDM) (INCLUDE CP-OFDM)
A	EIRP	630334 to 636332	630334 to 636332	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		630500 to 636166	630500 to 636166	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		631002 to 635664	631002 to 635664	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		631334 to 635332	631334 to 635332	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		631668 to 634998	631668 to 634998	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		632000 to 634666	632000 to 634666	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		632668 to 634000	632668 to 634000	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		633000 to 633666	633000 to 633666	Low, Middle, High	90MHz	QPSK	1RB/ 0RB Offset
		633334	633334	Middle,	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		631002 to 635664	631002 to 635664	Middle	30MHz	QPSK	1RB/ 0RB Offset
		631334 to 635332	631334 to 635332	Middle	40MHz	QPSK	1RB/ 0RB Offset
		631668 to 634998	631668 to 634998	Middle	50MHz	QPSK	1RB/ 0RB Offset
		632000 to 634666	632000 to 634666	Middle	60MHz	QPSK	1RB/ 0RB Offset
		632668 to 634000	632668 to 634000	Middle	80MHz	QPSK	1RB/ 0RB Offset
		633000 to 633666	633000 to 633666	Middle	90MHz	QPSK	1RB/ 0RB Offset
		633334	633334	Middle	100MHz	QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

5G NR Band n78(Part270) (SA_n78)

EUT CONFIGUR E MODE	TEST ITEM	AVAILAB LE CP-OFDM CHANNE L	AVAILABL E DFT-S-OFD M CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S- OFDM) (INCLUDE CP-OFDM)
A	EIRP	647000 to 652998	647000 to 652998	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		647166 to 652832	647166 to 652832	Low, Middle, High	15 MHz	QPSK	1RB/ 0RB Offset
		647334 to 652666	647334 to 652666	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		647670 to 652666	647670 to 652666	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		648000 to 652000	648000 to 652000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		648334 to 651666	648334 to 651666	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		648668 to 651332	648668 to 651332	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		649334 to 650666	649334 to 650666	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		649668 to 650332	649668 to 650332	Low, Middle, High	90MHz	QPSK	1RB/ 0RB Offset
		650000	650000	Middle,	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	647000 to 652998	647000 to 652998	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		647166 to 652832	647166 to 652832	Low, Middle, High	15 MHz	QPSK	1RB/ 0RB Offset
		647334 to 652666	647334 to 652666	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		647670 to 652666	647670 to 652666	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		648000 to 652000	648000 to 652000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		648334 to 651666	648334 to 651666	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		648668 to 651332	648668 to 651332	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		649334 to 650666	649334 to 650666	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		649668 to 650332	649668 to 650332	Low, Middle, High	90MHz	QPSK	1RB/ 0RB Offset
		650000	650000	Middle,	100MHz	QPSK	1RB/ 0RB Offset



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		647000 to 652998	647000 to 652998	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		647166 to 652832	647166 to 652832	Low, Middle, High	15 MHz	QPSK	1RB/ 0RB Offset
		647334 to 652666	647334 to 652666	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		647670 to 652666	647670 to 652666	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.



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TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	DC 3.87V By Battery	Chao Wu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.6V/ 3.87V/ 4.45V By host rquipment	Chao Wu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 3.87V By Battery	Chao Wu
BAND EDGE	23deg. C, 70%RH	DC 3.87V By Battery	Chao Wu
CONDCUDED EMISSION	23deg. C, 70%RH	DC 3.87V By Battery	Chao Wu
RADIATED EMISSION	23deg. C, 70%RH	DC 3.87V By Battery	Chao Wu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 3.87V By Battery	Chao Wu



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2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 22/24/27

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile / Portable station are limited to 7 watts e.r.p. (n5)

Mobile and portable stations are limited to 2 watts EIRP. (n2/n25)

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “User stations are limited to 2 watts” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.(n7/n38/n41)”

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP(n66)

According to the specific rule Part 27.50(b)(10) and 27.50(c)(10) Fixed, mobile, and Portable stations (hand-held devices) transmitting in the 698-746 MHz, 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP(n12/n71)

According to the specific rule Part 27.50(j)(4) and Part 27.50(k)(3) ,Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.(n77/n78)

3.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , typically dBW or dBm);

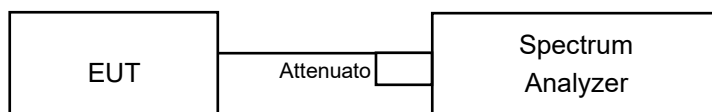
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_{T} = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_{C} = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

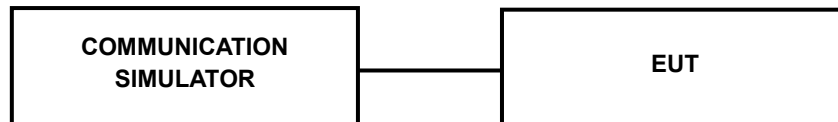
CONDUCTED POWER MEASUREMENT:

- The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



1. Connect the DUT transmitter output to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
2. Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW).
3. Set the span to twice the nominal EBW (span = 2 x EBW).
4. Set the resolution bandwidth (RBW) to approximately 1% of EBW.
5. Set the video bandwidth (VBW) to $\geq 3 \times \text{RBW}$
6. Select the average power (RMS) display detector.
7. Set the number of measurement points to ≥ 1001 .
8. Use auto-coupled sweep time.
9. Perform measurement over an interval of time when the transmission is continuous and at its maximum power level.
10. Utilize trace averaging over 100 traces in the power averaging mode.
11. Use the Band/Channel Power function to determine the integrated power over the full EBW.
12. Record the band power level.
13. Adjust the recorded level by applying appropriate correction factors for the measurement set-up.
14. Determine the EIRP by adding the effective antenna gain to the adjusted power level.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

5G SA

N2

BW	MCS Index	RB Size	RB Offset	Low CH 370500	Mid CH 376000	High CH 381500
				Frequency 1852.5MHz	Frequency 1880MHz	Frequency 1907.5MHz
5M	CP-OFDM QPSK	1	1	22.80	22.94	22.87

BW	MCS Index	RB Size	RB Offset	Low CH 371000	Mid CH 376000	High CH 381000
				Frequency 1855MHz	Frequency 1880MHz	Frequency 1905MHz
10M	CP-OFDM QPSK	1	1	22.49	22.56	22.58

BW	MCS Index	RB Size	RB Offset	Low CH 371500	Mid CH 376000	High CH 380500
				Frequency 1857.5MHz	Frequency 1880MHz	Frequency 1902.5MHz
15M	CP-OFDM QPSK	1	1	22.74	22.67	22.63

BW	MCS Index	RB Size	RB Offset	Low CH 372000	Mid CH 376000	High CH 380000
				Frequency 1860MHz	Frequency 1880MHz	Frequency 1900MHz
20M	CP-OFDM QPSK	1	1	22.78	22.92	22.90

BW	MCS Index	RB Size	RB Offset	Low CH 370500	Mid CH 376000	High CH 381500
				Frequency 1852.5MHz	Frequency 1880MHz	Frequency 1907.5MHz
5M	DFT-s-OFDM QPSK	1	1	24.07	24.12	24.18

BW	MCS Index	RB Size	RB Offset	Low CH 371000	Mid CH 376000	High CH 381000
				Frequency 1855MHz	Frequency 1880MHz	Frequency 1905MHz
10M	DFT-s-OFDM QPSK	1	1	23.05	24.09	23.12

BW	MCS Index	RB Size	RB Offset	Low CH 371500	Mid CH 376000	High CH 380500
				Frequency 1857.5MHz	Frequency 1880MHz	Frequency 1902.5MHz
15M	DFT-s-OFDM QPSK	1	1	23.85	24.07	23.89

BW	MCS Index	RB Size	RB Offset	Low CH 372000	Mid CH 376000	High CH 380000
				Frequency 1860MHz	Frequency 1880MHz	Frequency 1900MHz
20M	DFT-s-OFDM Pi/2 BPSK	1	1	24.06	24.05	24.07
		1	53	23.94	23.98	24.01
		1	104	24.15	24.17	24.25
		50	0	23.57	23.67	23.64
		50	28	24.14	24.16	24.25
		50	56	23.58	23.74	23.63
		100	0	23.58	23.69	23.75
	DFT-s-OFDM QPSK	1	1	24.21	24.24	24.32
		1	53	24.02	24.16	24.15
		1	104	24.01	24.02	24.25
		50	0	23.05	23.09	23.13
		50	28	24.10	24.17	24.26
		50	56	23.07	23.19	23.17
		100	0	23.10	23.12	23.22
	DFT-s-OFDM 16QAM	1	1	22.67	22.71	22.94
	DFT-s-OFDM 64QAM	1	1	21.32	21.27	21.74
	DFT-s-OFDM 256QAM	1	1	20.01	20.04	19.98

N5

BW	MCS Index	RB Size	RB Offset	Low CH 165300	Mid CH 167300	High CH 169300
				Frequency 826.5MHz	Frequency 836.5MHz	Frequency 846.5MHz
5M	CP-OFDM QPSK	1	1	22.19	22.33	22.22

BW	MCS Index	RB Size	RB Offset	Low CH 165800	Mid CH 167300	High CH 168800
				Frequency 829MHz	Frequency 836.5MHz	Frequency 844MHz
10M	CP-OFDM QPSK	1	1	22.24	22.20	22.19

BW	MCS Index	RB Size	RB Offset	Low CH 166300	Mid CH 167300	High CH 168300
				Frequency 831.5MHz	Frequency 836.5MHz	Frequency 841.5MHz
15M	CP-OFDM QPSK	1	1	22.11	22.13	22.10

BW	MCS Index	RB Size	RB Offset	Low CH 166800	Mid CH 167300	High CH 167800
				Frequency 834MHz	Frequency 836.5MHz	Frequency 839MHz
20M	CP-OFDM QPSK	1	1	22.18	22.31	22.13

BW	MCS Index	RB Size	RB Offset	Low CH 165300	Mid CH 167300	High CH 169300
				Frequency 826.5MHz	Frequency 836.5MHz	Frequency 846.5MHz
5M	DFT-s-OFDM QPSK	1	1	23.61	22.67	23.65

BW	MCS Index	RB Size	RB Offset	Low CH 165800	Mid CH 167300	High CH 168800
				Frequency 829MHz	Frequency 836.5MHz	Frequency 844MHz
10M	DFT-s-OFDM QPSK	1	1	23.48	23.59	23.57

BW	MCS Index	RB Size	RB Offset	Low CH 166300	Mid CH 167300	High CH 168300
				Frequency 831.5MHz	Frequency 836.5MHz	Frequency 841.5MHz
15M	DFT-s-OFDM QPSK	1	1	23.31	23.59	23.56

BW	MCS Index	RB Size	RB Offset	Low CH 166800	Mid CH 167300	High CH 167800
				Frequency 834MHz	Frequency 836.5MHz	Frequency 839MHz
20M	DFT-s-OFDM Pi/2 BPSK	1	1	23.58	23.68	23.54
		1	53	23.62	23.72	23.71
		1	104	23.63	23.65	23.69
		50	0	23.17	23.22	23.24
		50	28	23.67	23.71	23.69
		50	56	23.14	23.12	23.10
		100	0	23.19	23.20	23.17
	DFT-s-OFDM QPSK	1	1	23.65	23.74	23.72
		1	53	23.60	22.65	23.69
		1	104	23.57	23.68	23.64
		50	0	22.62	22.73	22.65
		50	28	23.64	23.72	23.70
		50	56	22.61	22.66	22.69
		100	0	22.70	22.76	22.68
	DFT-s-OFDM 16QAM	1	1	21.63	21.62	21.94
	DFT-s-OFDM 64QAM	1	1	21.14	21.16	21.32
	DFT-s-OFDM 256QAM	1	1	19.13	19.17	19.23

N7

BW	MCS Index	RB Size	RB Offset	Low CH 500500	Mid CH 507000	High CH 513500
				Frequency 2502.5MHz	Frequency 2535MHz	Frequency 2567.5MHz
5M	CP-OFDM QPSK	1	1	22.67	22.59	22.70

BW	MCS Index	RB Size	RB Offset	Low CH 501000	Mid CH 507000	High CH 513000
				Frequency 2505MHz	Frequency 2535MHz	Frequency 2565MHz
10M	CP-OFDM QPSK	1	1	22.47	22.54	22.58

BW	MCS Index	RB Size	RB Offset	Low CH 501500	Mid CH 507000	High CH 512500
				Frequency 2507.5MHz	Frequency 2535MHz	Frequency 2562.5MHz
15M	CP-OFDM QPSK	1	1	22.39	22.45	22.48

BW	MCS Index	RB Size	RB Offset	Low CH 502000	Mid CH 507000	High CH 512000
				Frequency 2510MHz	Frequency 2535MHz	Frequency 2560MHz
20M	CP-OFDM QPSK	1	1	22.43	22.77	22.35

BW	MCS Index	RB Size	RB Offset	Low CH 500500	Mid CH 507000	High CH 513500
				Frequency 2502.5MHz	Frequency 2535MHz	Frequency 2567.5MHz
5M	DFT-s-OFDM QPSK	1	1	24.18	24.11	24.15

BW	MCS Index	RB Size	RB Offset	Low CH 501000	Mid CH 507000	High CH 513000
				Frequency 2505MHz	Frequency 2535MHz	Frequency 2565MHz
10M	DFT-s-OFDM QPSK	1	1	24.14	24.05	24.11

BW	MCS Index	RB Size	RB Offset	Low CH 501500	Mid CH 507000	High CH 512500
				Frequency 2507.5MHz	Frequency 2535MHz	Frequency 2562.5MHz
15M	DFT-s-OFDM QPSK	1	1	23.98	23.97	24.02

BW	MCS Index	RB Size	RB Offset	Low CH 502000	Mid CH 507000	High CH 512000
				Frequency 2510MHz	Frequency 2535MHz	Frequency 2560MHz
20M	DFT-s-OFDM Pi/2 BPSK	1	1	24.21	23.63	24.17
		1	53	24.31	24.07	24.13
		1	104	24.32	24.22	24.15
		50	0	23.54	23.58	23.72
		50	28	24.21	24.13	24.08
		50	56	23.67	23.58	23.61
		100	0	23.62	23.60	23.67
	DFT-s-OFDM QPSK	1	1	24.09	24.66	24.19
		1	53	24.14	24.17	24.10
		1	104	23.99	24.08	24.11
		50	0	23.09	23.07	23.14
		50	28	24.07	24.45	24.12
		50	56	23.04	23.10	23.05
		100	0	23.03	23.36	23.09
	DFT-s-OFDM 16QAM	1	1	22.64	22.57	22.63
	DFT-s-OFDM 64QAM	1	1	21.26	21.17	21.07
	DFT-s-OFDM 256QAM	1	1	19.87	19.98	19.73

N12

BW	MCS Index	RB Size	RB Offset	Low CH 140300	Mid CH 141500	High CH 142700
				Frequency 701.5MHz	Frequency 707.5MHz	Frequency 713.5MHz
5M	CP-OFDM QPSK	1	1	22.27	22.22	22.17

BW	MCS Index	RB Size	RB Offset	Low CH 140800	Mid CH 141500	High CH 142200
				Frequency 704MHz	Frequency 707.5MHz	Frequency 711MHz
10M	CP-OFDM QPSK	1	1	22.19	22.24	22.31

BW	MCS Index	RB Size	RB Offset	Low CH 141300	Mid CH 141500	High CH 141700
				Frequency 706.5MHz	Frequency 707.5MHz	Frequency 708.5MHz
15M	CP-OFDM QPSK	1	1	22.34	22.37	22.29

BW	MCS Index	RB Size	RB Offset	Low CH 140300	Mid CH 141500	High CH 142700
				Frequency 701.5MHz	Frequency 707.5MHz	Frequency 713.5MHz
5M	DFT-s-OFDM QPSK	1	1	23.67	23.77	23.74

BW	MCS Index	RB Size	RB Offset	Low CH 140800	Mid CH 141500	High CH 142200
				Frequency 704MHz	Frequency 707.5MHz	Frequency 711MHz
10M	DFT-s-OFDM QPSK	1	1	23.57	23.63	23.61

BW	MCS Index	RB Size	RB Offset	Low CH 141300	Mid CH 141500	High CH 141700
				Frequency 706.5MHz	Frequency 707.5MHz	Frequency 708.5MHz
15M	DFT-s-OFDM Pi/2 BPSK	1	1	23.73	23.62	23.64
		1	39	23.64	23.69	23.72
		1	77	23.57	23.64	23.65
		36	0	23.27	23.26	23.24
		36	19	23.56	23.52	23.67
		36	39	23.22	23.18	23.17
		75	0	23.24	23.22	23.20
	DFT-s-OFDM QPSK	1	1	23.82	23.78	23.75
		1	39	23.71	23.72	23.74
		1	77	23.47	23.44	23.48
		36	0	22.77	22.73	22.72
		36	19	23.75	23.72	23.70
		36	39	22.65	22.67	22.64
		75	0	22.72	22.69	22.68
	DFT-s-OFDM 16QAM	1	1	22.45	22.42	22.50
	DFT-s-OFDM 64QAM	1	1	21.36	21.38	21.48
	DFT-s-OFDM 256QAM	1	1	19.76	19.80	19.73

N25

BW	MCS Index	RB Size	RB Offset	Low CH 370500	Mid CH 376500	High CH 382500
				Frequency 1852.5MHz	Frequency 1882.5MHz	Frequency 1912.5MHz
5M	CP-OFDM QPSK	1	1	22.34	22.49	22.57

BW	MCS Index	RB Size	RB Offset	Low CH 371000	Mid CH 376500	High CH 382000
				Frequency 1855MHz	Frequency 1882.5MHz	Frequency 1910MHz
10M	CP-OFDM QPSK	1	1	22.38	22.43	22.25

BW	MCS Index	RB Size	RB Offset	Low CH 371500	Mid CH 376500	High CH 381500
				Frequency 1857.5MHz	Frequency 1882.5MHz	Frequency 1907.5MHz
15M	CP-OFDM QPSK	1	1	22.45	22.43	22.44

BW	MCS Index	RB Size	RB Offset	Low CH 372000	Mid CH 376500	High CH 381000
				Frequency 1860MHz	Frequency 1882.5MHz	Frequency 1905MHz
20M	CP-OFDM QPSK	1	1	22.55	22.53	22.57

BW	MCS Index	RB Size	RB Offset	Low CH 370500	Mid CH 376500	High CH 382500
				Frequency 1852.5MHz	Frequency 1882.5MHz	Frequency 1912.5MHz
5M	DFT-s-OFDM QPSK	1	1	23.97	23.94	23.99

BW	MCS Index	RB Size	RB Offset	Low CH 371000	Mid CH 376500	High CH 382000
				Frequency 1855MHz	Frequency 1882.5MHz	Frequency 1910MHz
10M	DFT-s-OFDM QPSK	1	1	23.96	23.97	23.99

BW	MCS Index	RB Size	RB Offset	Low CH 371500	Mid CH 376500	High CH 381500
				Frequency 1857.5MHz	Frequency 1882.5MHz	Frequency 1907.5MHz
15M	DFT-s-OFDM QPSK	1	1	23.78	23.87	23.92

BW	MCS Index	RB Size	RB Offset	Low CH 372000	Mid CH 376500	High CH 381000
				Frequency 1860MHz	Frequency 1882.5MHz	Frequency 1905MHz
20M	DFT-s-OFDM QPSK					

BW	MCS Index	RB Size	RB Offset	Low CH 372000	Mid CH 376500	High CH 381000
				Frequency 1860MHz	Frequency 1882.5MHz	Frequency 1905MHz
20M	DFT-s-OFDM Pi/2 BPSK	1	1	24.02	24.04	24.07
		1	53	24.13	24.21	24.22
		1	104	24.11	24.18	24.14
		50	0	23.57	23.59	23.69
		50	28	24.12	24.17	24.21
		50	56	23.59	23.58	23.48
		100	0	23.32	23.39	23.36
	DFT-s-OFDM QPSK	1	1	24.25	24.26	24.24
		1	53	23.96	23.99	24.03
		1	104	24.04	24.07	24.11
		50	0	23.04	23.05	23.16
		50	28	24.15	24.23	24.21
		50	56	23.02	23.13	22.91
		100	0	23.44	23.47	23.43
	DFT-s-OFDM 16QAM	1	1	22.65	22.67	22.78
	DFT-s-OFDM 64QAM	1	1	21.16	21.19	21.24
	DFT-s-OFDM 256QAM	1	1	19.87	19.91	19.97

N38

BW	MCS Index	RB Size	RB Offset	Low CH 515000	Mid CH 519000	High CH 523000
				Frequency 2575MHz	Frequency 2595MHz	Frequency 2615MHz
10M	CP-OFDM QPSK	1	1	22.83	22.81	22.79

BW	MCS Index	RB Size	RB Offset	Low CH 515500	Mid CH 519000	High CH 522500
				Frequency 2577.5MHz	Frequency 2595MHz	Frequency 2612.5MHz
15M	CP-OFDM QPSK	1	1	22.75	22.73	22.69

BW	MCS Index	RB Size	RB Offset	Low CH 516000	Mid CH 519000	High CH 522000
				Frequency 2580MHz	Frequency 2595MHz	Frequency 2610MHz
20M	CP-OFDM QPSK	1	1	22.67	22.77	22.73

BW	MCS Index	RB Size	RB Offset	Low CH 515000	Mid CH 519000	High CH 523000
				Frequency 2575MHz	Frequency 2595MHz	Frequency 2615MHz
10M	DFT-s-OFDM QPSK	1	1	24.08	24.06	24.05

BW	MCS Index	RB Size	RB Offset	Low CH 515500	Mid CH 519000	High CH 522500
				Frequency 2577.5MHz	Frequency 2595MHz	Frequency 2612.5MHz
15M	DFT-s-OFDM QPSK	1	1	24.06	24.03	24.01

BW	MCS Index	RB Size	RB Offset	Low CH 516000	Mid CH 519000	High CH 522000
				Frequency 2580MHz	Frequency 2595MHz	Frequency 2610MHz
20M	DFT-s-OFDM Pi/2 BPSK	1	1	24.10	24.07	24.05
		1	26	24.11	24.26	24.17
		1	49	24.13	24.10	24.12
		25	0	23.64	23.61	23.62
		25	13	24.12	24.19	24.11
		25	26	23.68	23.58	23.61
		50	0	22.69	23.46	23.62
	DFT-s-OFDM QPSK	1	1	24.15	24.27	24.19
		1	26	23.98	24.03	23.98
		1	49	23.69	24.13	24.00
		25	0	23.15	23.17	23.10
		25	13	24.17	24.21	24.11
		25	26	23.10	23.13	23.08
		50	0	23.20	23.53	23.04
	DFT-s-OFDM 16QAM	1	1	22.71	22.73	22.65
	DFT-s-OFDM 64QAM	1	1	21.37	21.49	21.43
	DFT-s-OFDM 256QAM	1	1	20.02	20.15	20.01

N41

BW	MCS Index	RB Size	RB Offset	Low CH 500202	Mid CH 518598	High CH 537000
				Frequency 2501.01MHz	Frequency 2592.99MHz	Frequency 2685MHz
10M	CP-OFDM QPSK	1	12	22.79	22.81	22.41

BW	MCS Index	RB Size	RB Offset	Low CH 500700	Mid CH 518598	High CH 536496
				Frequency 2503.5MHz	Frequency 2592.99MHz	Frequency 2682.48MHz
15M	CP-OFDM QPSK	1	19	22.81	22.77	22.45

BW	MCS Index	RB Size	RB Offset	Low CH 501204	Mid CH 518598	High CH 535998
				Frequency 2506.02MHz	Frequency 2592.99MHz	Frequency 2679.99MHz
20M	CP-OFDM QPSK	1	26	22.85	22.87	22.38

BW	MCS Index	RB Size	RB Offset	Low CH 503202	Mid CH 518598	High CH 534000
				Frequency 2516.01MHz	Frequency 2592.99MHz	Frequency 2670MHz
40M	CP-OFDM QPSK	1	53	22.67	22.72	22.28

BW	MCS Index	RB Size	RB Offset	Low CH 504204	Mid CH 518598	High CH 532998
				Frequency 2521.02MHz	Frequency 2592.99MHz	Frequency 2664.99MHz
50M	CP-OFDM QPSK	1	67	22.61	22.63	22.31

BW	MCS Index	RB Size	RB Offset	Low CH 505200	Mid CH 518598	High CH 531996
				Frequency 2526MHz	Frequency 2592.99MHz	Frequency 2659.98MHz
60M	CP-OFDM QPSK	1	81	22.59	22.54	22.34

BW	MCS Index	RB Size	RB Offset	Low CH 507204	Mid CH 518598	High CH 529998
				Frequency 2536.02MHz	Frequency 2592.99MHz	Frequency 2649.99MHz
80M	CP-OFDM QPSK	1	109	22.61	22.62	22.38

BW	MCS Index	RB Size	RB Offset	Low CH 508200	Mid CH 518598	High CH 528996
				Frequency 2541MHz	Frequency 2592.99MHz	Frequency 2644.98MHz
90M	CP-OFDM QPSK	1	123	22.69	22.39	22.53

BW	MCS Index	RB Size	RB Offset	Low CH 509202	Mid CH 518598	High CH 528000
				Frequency 2546.01MHz	Frequency 2592.99MHz	Frequency 2640MHz
100M	CP-OFDM QPSK	1	137	22.83	22.81	22.46

BW	MCS Index	RB Size	RB Offset	Low CH 500202	Mid CH 518598	High CH 537000
				Frequency 2501.01MHz	Frequency 2592.99MHz	Frequency 2685MHz
10M	DFT-s-OFDM QPSK	1	12	22.73	22.74	22.35

BW	MCS Index	RB Size	RB Offset	Low CH 500700	Mid CH 518598	High CH 536496
				Frequency 2503.5MHz	Frequency 2592.99MHz	Frequency 2682.48MHz
15M	DFT-s-OFDM QPSK	1	19	22.67	22.65	22.39

BW	MCS Index	RB Size	RB Offset	Low CH 501204	Mid CH 518598	High CH 535998
				Frequency 2506.02MHz	Frequency 2592.99MHz	Frequency 2679.99MHz
20M	DFT-s-OFDM QPSK	1	26	22.63	22.67	22.27

BW	MCS Index	RB Size	RB Offset	Low CH 503202	Mid CH 518598	High CH 534000
				Frequency 2516.01MHz	Frequency 2592.99MHz	Frequency 2670MHz
40M	DFT-s-OFDM QPSK	1	53	22.57	22.54	22.14

BW	MCS Index	RB Size	RB Offset	Low CH 504204	Mid CH 518598	High CH 532998
				Frequency 2521.02MHz	Frequency 2592.99MHz	Frequency 2664.99MHz
50M	DFT-s-OFDM QPSK	1	67	22.54	22.51	22.21

BW	MCS Index	RB Size	RB Offset	Low CH 505200	Mid CH 518598	High CH 531996
				Frequency 2526MHz	Frequency 2592.99MHz	Frequency 2659.98MHz
60M	DFT-s-OFDM QPSK	1	81	22.52	22.55	22.18

BW	MCS Index	RB Size	RB Offset	Low CH 507204	Mid CH 518598	High CH 529998
				Frequency 2536.02MHz	Frequency 2592.99MHz	Frequency 2649.99MHz
80M	DFT-s-OFDM QPSK	1	109	22.62	22.68	22.37



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BW	MCS Index	RB Size	RB Offset	Low CH 508200	Mid CH 518598	High CH 528996
				Frequency 2541MHz	Frequency 2592.99MHz	Frequency 2644.98MHz
90M	DFT-s-OFDM QPSK	1	123	22.72	22.58	22.34

BW	MCS Index	RB Size	RB Offset	Low CH 509202	Mid CH 518598	High CH 528000
				Frequency 2546.01MHz	Frequency 2592.99MHz	Frequency 2640MHz
100M	DFT-s-OFDM Pi/2 BPSK	1	1	22.07	22.06	22.04
		1	137	22.86	22.76	22.57
		1	271	22.18	21.77	21.63
		135	0	22.72	22.78	22.49
		135	69	22.83	22.81	22.66
		135	138	22.81	22.62	22.52
		270	0	22.79	22.67	22.50
	DFT-s-OFDM QPSK	1	1	21.94	21.97	21.99
		1	137	22.89	22.83	22.72
		1	271	22.19	21.78	21.75
		135	0	22.78	22.81	22.60
		135	69	22.84	22.83	22.67
		135	138	22.80	22.58	22.47
		270	0	22.77	22.65	22.49
	DFT-s-OFDM 16QAM	1	137	22.39	21.97	22.13
	DFT-s-OFDM 64QAM	1	137	22.28	22.10	22.26
	DFT-s-OFDM 256QAM	1	137	21.63	21.51	21.33

N66

BW	MCS Index	RB Size	RB Offset	Low CH 342500	Mid CH 349000	High CH 355500
				Frequency 1712.5MHz	Frequency 1745MHz	Frequency 1777.5MHz
5M	CP-OFDM QPSK	1	13	22.36	22.48	22.57

BW	MCS Index	RB Size	RB Offset	Low CH 343000	Mid CH 349000	High CH 355000
				Frequency 1715MHz	Frequency 1745MHz	Frequency 1775MHz
10M	CP-OFDM QPSK	1	26	22.59	22.60	22.51

BW	MCS Index	RB Size	RB Offset	Low CH 343500	Mid CH 349000	High CH 354500
				Frequency 1717.5MHz	Frequency 1745MHz	Frequency 1772.5MHz
15M	CP-OFDM QPSK	1	39	22.51	22.49	22.54

BW	MCS Index	RB Size	RB Offset	Low CH 344000	Mid CH 349000	High CH 354000
				Frequency 1720MHz	Frequency 1745MHz	Frequency 1770MHz
20M	CP-OFDM QPSK	1	53	22.57	22.63	22.57

BW	MCS Index	RB Size	RB Offset	Low CH 346000	Mid CH 349000	High CH 352000
				Frequency 1730MHz	Frequency 1745MHz	Frequency 1760MHz
40M	CP-OFDM QPSK	1	108	22.52	22.53	22.43

BW	MCS Index	RB Size	RB Offset	Low CH 342500	Mid CH 349000	High CH 355500
				Frequency 1712.5MHz	Frequency 1745MHz	Frequency 1777.5MHz
5M	DFT-s-OFDM QPSK	1	13	23.87	23.86	23.98

BW	MCS Index	RB Size	RB Offset	Low CH 343000	Mid CH 349000	High CH 355000
				Frequency 1715MHz	Frequency 1745MHz	Frequency 1775MHz
10M	DFT-s-OFDM QPSK	1	26	23.82	23.84	24.03

BW	MCS Index	RB Size	RB Offset	Low CH 343500	Mid CH 349000	High CH 354500
				Frequency 1717.5MHz	Frequency 1745MHz	Frequency 1772.5MHz
15M	DFT-s-OFDM QPSK	1	39	23.92	23.95	23.99

BW	MCS Index	RB Size	RB Offset	Low CH 344000	Mid CH 349000	High CH 354000
				Frequency 1720MHz	Frequency 1745MHz	Frequency 1770MHz
20M	DFT-s-OFDM QPSK	1	53	23.88	23.83	24.01

BW	MCS Index	RB Size	RB Offset	Low CH 346000	Mid CH 349000	High CH 352000
				Frequency 1730MHz	Frequency 1745MHz	Frequency 1760MHz
40M	DFT-s-OFDM Pi/2 BPSK	1	1	23.54	23.49	23.57
		1	108	23.91	23.93	23.98
		1	214	23.44	23.60	23.59
		108	0	23.25	23.51	23.24
		108	54	24.00	24.04	24.02
		108	108	23.53	23.60	23.56
		216	0	23.40	23.64	23.44
	DFT-s-OFDM QPSK	1	1	23.56	23.53	23.64
		1	108	24.09	24.08	24.06
		1	214	23.59	23.62	23.57
		108	0	23.02	23.11	23.09
		108	54	24.07	24.03	24.01
		108	108	23.03	23.08	23.05
		216	0	23.11	23.09	23.06
	DFT-s-OFDM 16QAM	1	108	22.67	22.75	22.69
	DFT-s-OFDM 64QAM	1	108	21.42	21.21	21.26
	DFT-s-OFDM 256QAM	1	108	19.95	19.98	19.96

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BW	MCS Index	RB Size	RB Offset	Low CH 133100	Mid CH 136100	High CH 139100
				Frequency 665.5 MHz	Frequency 680.5 MHz	Frequency 695.5 MHz
5M	CP-OFDM QPSK	1	1	22.26	22.15	22.08

BW	MCS Index	RB Size	RB Offset	Low CH 133600	Mid CH 136100	High CH 138600
				Frequency 668 MHz	Frequency 680.5 MHz	Frequency 693 MHz
10M	CP-OFDM QPSK	1	1	22.14	22.17	22.12

BW	MCS Index	RB Size	RB Offset	Low CH 134100	Mid CH 136100	High CH 138100
				Frequency 670.5 MHz	Frequency 680.5 MHz	Frequency 690.5 MHz
15M	CP-OFDM QPSK	1	1	22.16	21.96	22.03

BW	MCS Index	RB Size	RB Offset	Low CH 134600	Mid CH 136100	High CH 137600
				Frequency 673 MHz	Frequency 680.5 MHz	Frequency 688MHz
20M	CP-OFDM QPSK	1	1	22.07	22.10	22.16

BW	MCS Index	RB Size	RB Offset	Low CH 133100	Mid CH 136100	High CH 139100
				Frequency 665.5 MHz	Frequency 680.5 MHz	Frequency 695.5 MHz
5M	DFT-s-OFDM QPSK	1	1	23.72	23.71	23.68

BW	MCS Index	RB Size	RB Offset	Low CH 133600	Mid CH 136100	High CH 138600
				Frequency 668 MHz	Frequency 680.5 MHz	Frequency 693 MHz
10M	DFT-s-OFDM QPSK	1	1	23.58	23.63	23.56

BW	MCS Index	RB Size	RB Offset	Low CH 134100	Mid CH 136100	High CH 138100
				Frequency 670.5 MHz	Frequency 680.5 MHz	Frequency 690.5 MHz
15M	DFT-s-OFDM QPSK	1	1	23.62	23.58	23.44

BW	MCS Index	RB Size	RB Offset	Low CH 134600	Mid CH 136100	High CH 137600
				Frequency 673 MHz	Frequency 680.5 MHz	Frequency 688MHz
20M	DFT-s-OFDM Pi/2 BPSK	1	1	23.67	23.61	23.62
		1	53	23.64	23.66	23.61
		1	104	23.60	23.58	23.64
		50	0	23.18	23.13	23.19
		50	28	23.69	23.46	23.48
		50	56	23.12	23.07	23.11
		100	0	23.14	23.11	23.21
	DFT-s-OFDM QPSK	1	1	23.73	23.68	23.70
		1	53	23.52	23.62	23.66
		1	104	23.54	23.55	23.63
		50	0	22.71	22.62	22.65
		50	28	23.74	23.65	23.72
		50	56	22.60	22.56	22.59
		100	0	22.72	22.68	22.70
	DFT-s-OFDM 16QAM	1	1	22.41	22.22	21.98
	DFT-s-OFDM 64QAM	1	1	20.87	20.96	20.91
	DFT-s-OFDM 256QAM	1	1	19.57	19.23	19.15



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N77(Part 27Q)

BW	MCS Index	RB Size	RB Offset	Low CH 630334	Mid CH 633334	High CH 636332
				Frequency 3455.01 MHz	Frequency 3500.01MHz	Frequency 3544.98 MHz
10M	CP-OFDM QPSK	1	12	21.25	21.24	21.19

BW	MCS Index	RB Size	RB Offset	Low CH 630500	Mid CH 633334	High CH 636166
				Frequency 3457.5 MHz	Frequency 3500.01MHz	Frequency 3542.49 MHz
15M	CP-OFDM QPSK	1	19	21.09	21.19	20.67

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	CP-OFDM QPSK	1	26	21.05	20.83	20.23

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	CP-OFDM QPSK	1	53	21.15	20.87	20.44

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	CP-OFDM QPSK	1	67	20.98	20.81	20.44

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	CP-OFDM QPSK	1	81	20.85	20.79	20.88

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	CP-OFDM QPSK	1	109	20.76	20.58	20.54

BW	MCS Index	RB Size	RB Offset	Low CH 633000	Mid CH 633334	High CH 633666
				Frequency 3495 MHz	Frequency 3500.01MHz	Frequency 3504.99 MHz
90M	CP-OFDM QPSK	1	123	20.72	20.86	20.58

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	CP-OFDM QPSK	1	137	/	21.31	/

BW	MCS Index	RB Size	RB Offset	Low CH 630334	Mid CH 633334	High CH 636332
				Frequency 3455.01MHz	Frequency 3500.01MHz	Frequency 3544.98MHz
10M	DFT-s-OFDM QPSK	1	12	21.97	21.73	22.05

BW	MCS Index	RB Size	RB Offset	Low CH 630500	Mid CH 633334	High CH 636166
				Frequency 3457.5MHz	Frequency 3500.01MHz	Frequency 3542.49MHz
15M	DFT-s-OFDM QPSK	1	19	21.83	22.02	21.46

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	DFT-s-OFDM QPSK	1	26	21.78	21.55	21.68

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	DFT-s-OFDM QPSK	1	53	21.84	21.61	21.17

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	DFT-s-OFDM QPSK	1	67	21.78	21.60	21.22

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	DFT-s-OFDM QPSK	1	81	21.72	21.67	21.74

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	DFT-s-OFDM QPSK	1	109	21.65	21.64	21.31



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BW	MCS Index	RB Size	RB Offset	Low CH 633000	Mid CH 633334	High CH 633666
				Frequency 3495MHz	Frequency 3500.01MHz	Frequency 3504.99MHz
90M	DFT-s-OFDM QPSK	1	123	21.67	21.56	21.55

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	DFT-s-OFDM Pi/2 BPSK	1	1	/	21.40	/
		1	137	/	22.02	/
		1	271	/	21.16	/
		135	0	/	21.98	/
		135	69	/	22.00	/
		135	138	/	21.57	/
		270	0	/	21.80	/
	DFT-s-OFDM QPSK	1	1	/	21.46	/
		1	137	/	22.09	/
		1	271	/	21.56	/
		135	0	/	22.03	/
		135	69	/	22.04	/
		135	138	/	21.60	/
		270	0	/	21.84	/
	DFT-s-OFDM 16QAM	1	137	/	21.58	/
	DFT-s-OFDM 64QAM	1	137	/	21.74	/
	DFT-s-OFDM 256QAM	1	137	/	20.83	/



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BW	MCS Index	RB Size	RB Offset	Low CH 647000	Mid CH 656000	High CH 664998
				Frequency 3705MHz	Frequency 3840MHz	Frequency 3974.97MHz
10M	CP-OFDM QPSK	1	12	20.91	20.92	20.55

BW	MCS Index	RB Size	RB Offset	Low CH 647166	Mid CH 656000	High CH 664832
				Frequency 3707.49MHz	Frequency 3840MHz	Frequency 3972.48MHz
15M	CP-OFDM QPSK	1	19	20.57	20.67	20.63

BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 656000	High CH 664666
				Frequency 3710.01MHz	Frequency 3840MHz	Frequency 3969.99MHz
20M	CP-OFDM QPSK	1	26	20.58	20.62	20.64

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 656000	High CH 664000
				Frequency 3720MHz	Frequency 3840MHz	Frequency 3960MHz
40M	CP-OFDM QPSK	1	53	20.62	20.65	20.61

BW	MCS Index	RB Size	RB Offset	Low CH 648336	Mid CH 656000	High CH 663666
				Frequency 3725.04MHz	Frequency 3840MHz	Frequency 3954.99MHz
50M	CP-OFDM QPSK	1	67	20.63	20.69	20.69

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 656000	High CH 663332
				Frequency 3730.02MHz	Frequency 3840MHz	Frequency 3949.98MHz
60M	CP-OFDM QPSK	1	81	20.60	20.72	20.69

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 656000	High CH 662666
				Frequency 3740.01MHz	Frequency 3840MHz	Frequency 3939.99MHz
80M	CP-OFDM QPSK	1	109	20.68	20.76	20.74

BW	MCS Index	RB Size	RB Offset	Low CH 649668	Mid CH 656000	High CH 662328
				Frequency 3745.02MHz	Frequency 3840MHz	Frequency 3934.92MHz
90M	CP-OFDM QPSK	1	123	20.94	20.79	20.72

BW	MCS Index	RB Size	RB Offset	Low CH 650000	Mid CH 656000	High CH 662000
				Frequency 3750MHz	Frequency 3840MHz	Frequency 3930MHz
100M	CP-OFDM QPSK	1	137	20.90	20.86	20.80

BW	MCS Index	RB Size	RB Offset	Low CH 647000	Mid CH 656000	High CH 664998
				Frequency 3705MHz	Frequency 3840MHz	Frequency 3974.97MHz
10M	DFT-s-OFDM QPSK	1	12	21.43	21.29	21.07

BW	MCS Index	RB Size	RB Offset	Low CH 647166	Mid CH 656000	High CH 664832
				Frequency 3707.49MHz	Frequency 3840MHz	Frequency 3972.48MHz
15M	DFT-s-OFDM QPSK	1	19	21.41	21.28	21.03

BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 656000	High CH 664666
				Frequency 3710.01MHz	Frequency 3840MHz	Frequency 3969.99MHz
20M	DFT-s-OFDM QPSK	1	26	21.35	21.25	21.02

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 656000	High CH 664000
				Frequency 3720MHz	Frequency 3840MHz	Frequency 3960MHz
40M	DFT-s-OFDM QPSK	1	53	21.35	21.16	21.00

BW	MCS Index	RB Size	RB Offset	Low CH 648336	Mid CH 656000	High CH 663666
				Frequency 3725.04MHz	Frequency 3840MHz	Frequency 3954.99MHz
50M	DFT-s-OFDM QPSK	1	67	21.39	21.19	20.97

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 656000	High CH 663332
				Frequency 3730.02MHz	Frequency 3840MHz	Frequency 3949.98MHz
60M	DFT-s-OFDM QPSK	1	81	21.34	21.21	20.99

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 656000	High CH 662666
				Frequency 3740.01MHz	Frequency 3840MHz	Frequency 3939.99MHz
80M	DFT-s-OFDM QPSK	1	109	21.47	21.34	21.23



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BW	MCS Index	RB Size	RB Offset	Low CH 649668	Mid CH 656000	High CH 662328
				Frequency 3745.02MHz	Frequency 3840MHz	Frequency 3934.92MHz
90M	DFT-s-OFDM QPSK	1	123	21.38	21.20	21.26

BW	MCS Index	RB Size	RB Offset	Low CH 650000	Mid CH 656000	High CH 662000
				Frequency 3750MHz	Frequency 3840MHz	Frequency 3930MHz
100M	DFT-s-OFDM Pi/2 BPSK	1	1	21.11	21.18	21.32
		1	137	21.32	21.33	21.28
		1	271	21.56	21.38	21.13
		135	0	21.27	21.48	21.27
		135	69	21.30	21.37	21.28
		135	138	21.38	21.02	21.33
		270	0	21.15	21.31	21.13
	DFT-s-OFDM QPSK	1	1	21.09	21.14	21.13
		1	137	21.28	21.59	21.16
		1	271	21.42	21.33	21.19
		135	0	20.92	21.42	21.26
		135	69	21.33	21.51	21.26
		135	138	21.42	21.06	20.83
		270	0	21.14	21.33	21.11
	DFT-s-OFDM 16QAM	1	137	21.07	21.08	21.11
	DFT-s-OFDM 64QAM	1	137	21.18	21.11	21.17
	DFT-s-OFDM 256QAM	1	137	20.15	20.21	20.08



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BW	MCS Index	RB Size	RB Offset	Low CH 630334	Mid CH 633334	High CH 636332
				Frequency 3455.01MHz	Frequency 3500.01MHz	Frequency 3544.98MHz
10M	CP-OFDM QPSK	1	12	21.12	20.78	20.84

BW	MCS Index	RB Size	RB Offset	Low CH 630500	Mid CH 633334	High CH 636166
				Frequency 3457.5MHz	Frequency 3500.01MHz	Frequency 3542.49MHz
15M	CP-OFDM QPSK	1	19	21.19	21.09	20.78

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	CP-OFDM QPSK	1	26	21.13	21.08	20.74

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	CP-OFDM QPSK	1	53	21.18	21.13	20.84

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	CP-OFDM QPSK	1	67	21.19	21.02	20.79

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	CP-OFDM QPSK	1	81	21.11	20.92	20.87

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	CP-OFDM QPSK	1	109	21.08	20.90	20.75

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
90M	CP-OFDM QPSK	1	123	21.10	20.99	20.93

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	CP-OFDM QPSK	1	137	/	21.02	/

BW	MCS Index	RB Size	RB Offset	Low CH 630334	Mid CH 633334	High CH 636332
				Frequency 3455.01MHz	Frequency 3500.01MHz	Frequency 3544.98MHz
10M	DFT-s-OFDM QPSK	1	12	22.18	21.98	21.78

BW	MCS Index	RB Size	RB Offset	Low CH 630500	Mid CH 633334	High CH 636166
				Frequency 3457.5MHz	Frequency 3500.01MHz	Frequency 3542.49MHz
15M	DFT-s-OFDM QPSK	1	19	22.16	21.93	21.76

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	DFT-s-OFDM QPSK	1	26	22.15	21.99	21.69

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	DFT-s-OFDM QPSK	1	53	22.15	21.94	21.78

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	DFT-s-OFDM QPSK	1	67	22.17	21.93	21.73

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	DFT-s-OFDM QPSK	1	81	22.16	21.91	21.74

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	DFT-s-OFDM QPSK	1	109	22.04	22.02	21.93



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BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
90M	DFT-s-OFDM QPSK	1	123	21.98	22.03	21.89

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	DFT-s-OFDM Pi/2 BPSK	1	1	/	21.62	/
		1	137	/	21.93	/
		1	271	/	21.49	/
		135	0	/	21.99	/
		135	69	/	22.00	/
		135	138	/	21.56	/
		270	0	/	21.86	/
	DFT-s-OFDM QPSK	1	1	/	21.67	/
		1	137	/	22.19	/
		1	271	/	21.74	/
		135	0	/	21.99	/
		135	69	/	22.06	/
		135	138	/	21.60	/
		270	0	/	21.94	/
	DFT-s-OFDM 16QAM	1	137	/	21.78	/
	DFT-s-OFDM 64QAM	1	137	/	21.89	/
	DFT-s-OFDM 256QAM	1	137	/	20.89	/



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BW	MCS Index	RB Size	RB Offset	Low CH 647000	Mid CH 650000	High CH 652998
				Frequency 3705MHz	Frequency 3750MHz	Frequency 3794.97MHz
10M	CP-OFDM QPSK	1	12	20.92	20.73	20.42

BW	MCS Index	RB Size	RB Offset	Low CH 647166	Mid CH 650000	High CH 652832
				Frequency 3707.49MHz	Frequency 3750MHz	Frequency 3792.48MHz
15M	CP-OFDM QPSK	1	19	20.99	20.71	20.56

BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 650000	High CH 652666
				Frequency 3710.01MHz	Frequency 3750MHz	Frequency 3789.99MHz
20M	CP-OFDM QPSK	1	26	20.94	20.73	20.58

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 650000	High CH 652000
				Frequency 3720MHz	Frequency 3750MHz	Frequency 3960MHz
40M	CP-OFDM QPSK	1	53	20.97	20.77	20.63

BW	MCS Index	RB Size	RB Offset	Low CH 648334	Mid CH 650000	High CH 651666
				Frequency 3725.01MHz	Frequency 3750MHz	Frequency 3774.99MHz
50M	CP-OFDM QPSK	1	67	20.97	20.70	20.57

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 650000	High CH 650666
				Frequency 3730.02MHz	Frequency 3750MHz	Frequency 3774.99MHz
60M	CP-OFDM QPSK	1	81	20.87	20.73	20.45

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 650000	High CH 650666
				Frequency 3740.01MHz	Frequency 3750MHz	Frequency 3939.99MHz
80M	CP-OFDM QPSK	1	109	20.85	20.68	20.60

BW	MCS Index	RB Size	RB Offset	Low CH 649668	Mid CH 650000	High CH 650332
				Frequency 3745.02MHz	Frequency 3750MHz	Frequency 3754.98MHz
90M	CP-OFDM QPSK	1	123	20.92	20.43	20.70

BW	MCS Index	RB Size	RB Offset	/	Mid CH 650000	/
				/	Frequency 3750MHz	/
100M	CP-OFDM QPSK	1	137	/	20.95	/

BW	MCS Index	RB Size	RB Offset	Low CH 647000	Mid CH 650000	High CH 652998
				Frequency 3705MHz	Frequency 3750MHz	Frequency 3794.97MHz
10M	DFT-s-OFDM QPSK	1	12	21.58	21.22	21.07

BW	MCS Index	RB Size	RB Offset	Low CH 647166	Mid CH 650000	High CH 652832
				Frequency 3707.49MHz	Frequency 3750MHz	Frequency 3792.48MHz
15M	DFT-s-OFDM QPSK	1	19	21.64	21.31	21.13

BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 650000	High CH 652666
				Frequency 3710.01MHz	Frequency 3750MHz	Frequency 3789.99MHz
20M	DFT-s-OFDM QPSK	1	26	21.60	21.24	21.02

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 650000	High CH 652000
				Frequency 3720MHz	Frequency 3750MHz	Frequency 3960MHz
40M	DFT-s-OFDM QPSK	1	53	21.61	21.26	21.15

BW	MCS Index	RB Size	RB Offset	Low CH 648334	Mid CH 650000	High CH 651666
				Frequency 3725.01MHz	Frequency 3750MHz	Frequency 3774.99MHz
50M	DFT-s-OFDM QPSK	1	67	21.00	21.24	20.58

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 650000	High CH 650666
				Frequency 3730.02MHz	Frequency 3750MHz	Frequency 3774.99MHz
60M	DFT-s-OFDM QPSK	1	81	21.45	21.19	21.03

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 650000	High CH 650666
				Frequency 3740.01MHz	Frequency 3750MHz	Frequency 3939.99MHz
80M	DFT-s-OFDM QPSK	1	109	21.34	21.37	21.05

BW	MCS Index	RB Size	RB Offset	Low CH 649668	Mid CH 650000	High CH 650332
				Frequency 3745.02MHz	Frequency 3750MHz	Frequency 3754.98MHz
90M	DFT-s-OFDM QPSK	1	123	21.26	21.25	21.21

BW	MCS Index	RB Size	RB Offset	/	Mid CH 650000	/
				/	Frequency 3750MHz	/
100M	DFT-s-OFDM Pi/2 BPSK	1	1	/	21.12	/
		1	137	/	21.33	/
		1	271	/	20.89	/
		135	0	/	21.46	/
		135	69	/	21.28	/
		135	138	/	20.85	/
		270	0	/	21.19	/
	DFT-s-OFDM QPSK	1	1	/	21.08	/
		1	137	/	21.69	/
		1	271	/	20.92	/
		135	0	/	21.38	/
		135	69	/	21.49	/
		135	138	/	21.02	/
		270	0	/	21.22	/
	DFT-s-OFDM 16QAM	135	0	/	21.49	/
	DFT-s-OFDM 64QAM	135	0	/	21.41	/
	DFT-s-OFDM 256QAM	135	0	/	20.01	/

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BW	MCS Index	RB Size	RB Offset	Low CH 500202	Mid CH 518598	High CH 537000
				Frequency 2501.01MHz	Frequency 2592.99MHz	Frequency 2685MHz
10M	CP-OFDM QPSK	1	12	23.87	23.91	23.53

BW	MCS Index	RB Size	RB Offset	Low CH 500700	Mid CH 518598	High CH 536496
				Frequency 2503.5MHz	Frequency 2592.99MHz	Frequency 2682.48MHz
15M	CP-OFDM QPSK	1	19	23.97	23.86	23.51

BW	MCS Index	RB Size	RB Offset	Low CH 501204	Mid CH 518598	High CH 535998
				Frequency 2506.02MHz	Frequency 2592.99MHz	Frequency 2679.99MHz
20M	CP-OFDM QPSK	1	26	24.17	24.13	23.99

BW	MCS Index	RB Size	RB Offset	Low CH 503202	Mid CH 518598	High CH 534000
				Frequency 2516.01MHz	Frequency 2592.99MHz	Frequency 2670MHz
40M	CP-OFDM QPSK	1	53	23.86	23.81	23.69

BW	MCS Index	RB Size	RB Offset	Low CH 504204	Mid CH 518598	High CH 532998
				Frequency 2521.02MHz	Frequency 2592.99MHz	Frequency 2664.99MHz
50M	CP-OFDM QPSK	1	67	24.09	24.13	24.02

BW	MCS Index	RB Size	RB Offset	Low CH 505200	Mid CH 518598	High CH 531996
				Frequency 2526MHz	Frequency 2592.99MHz	Frequency 2659.98MHz
60M	CP-OFDM QPSK	1	81	23.79	23.93	23.84

BW	MCS Index	RB Size	RB Offset	Low CH 507204	Mid CH 518598	High CH 529998
				Frequency 2536.02MHz	Frequency 2592.99MHz	Frequency 2649.99MHz
80M	CP-OFDM QPSK	1	109	23.36	23.51	23.53

BW	MCS Index	RB Size	RB Offset	Low CH 508200	Mid CH 518598	High CH 528996
				Frequency 2541MHz	Frequency 2592.99MHz	Frequency 2644.98MHz
90M	CP-OFDM QPSK	1	123	23.47	23.64	23.55

BW	MCS Index	RB Size	RB Offset	Low CH 509202	Mid CH 518598	High CH 528000
				Frequency 2546.01MHz	Frequency 2592.99MHz	Frequency 2640MHz
100M	CP-OFDM QPSK	1	137	23.26	23.31	23.42

BW	MCS Index	RB Size	RB Offset	Low CH 500202	Mid CH 518598	High CH 537000
				Frequency 2501.01MHz	Frequency 2592.99MHz	Frequency 2685MHz
10M	DFT-s-OFDM QPSK	1	12	24.31	24.07	24.50

BW	MCS Index	RB Size	RB Offset	Low CH 500700	Mid CH 518598	High CH 536496
				Frequency 2503.5MHz	Frequency 2592.99MHz	Frequency 2682.48MHz
15M	DFT-s-OFDM QPSK	1	19	24.46	24.41	24.57

BW	MCS Index	RB Size	RB Offset	Low CH 501204	Mid CH 518598	High CH 535998
				Frequency 2506.02MHz	Frequency 2592.99MHz	Frequency 2679.99MHz
20M	DFT-s-OFDM QPSK	1	26	24.79	24.81	24.63

BW	MCS Index	RB Size	RB Offset	Low CH 503202	Mid CH 518598	High CH 534000
				Frequency 2516.01MHz	Frequency 2592.99MHz	Frequency 2670MHz
40M	DFT-s-OFDM QPSK	1	53	24.75	24.59	24.48

BW	MCS Index	RB Size	RB Offset	Low CH 504204	Mid CH 518598	High CH 532998
				Frequency 2521.02MHz	Frequency 2592.99MHz	Frequency 2664.99MHz
50M	DFT-s-OFDM QPSK	1	67	24.76	24.73	23.85

BW	MCS Index	RB Size	RB Offset	Low CH 505200	Mid CH 518598	High CH 531996
				Frequency 2526MHz	Frequency 2592.99MHz	Frequency 2659.98MHz
60M	DFT-s-OFDM QPSK	1	81	24.83	24.41	23.74

BW	MCS Index	RB Size	RB Offset	Low CH 507204	Mid CH 518598	High CH 529998
				Frequency 2536.02MHz	Frequency 2592.99MHz	Frequency 2649.99MHz
80M	DFT-s-OFDM QPSK	1	109	24.76	24.78	24.64



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BW	MCS Index	RB Size	RB Offset	Low CH 508200	Mid CH 518598	High CH 528996
				Frequency 2541MHz	Frequency 2592.99MHz	Frequency 2644.98MHz
90M	DFT-s-OFDM QPSK	1	123	24.85	24.57	23.95

BW	MCS Index	RB Size	RB Offset	Low CH 509202	Mid CH 518598	High CH 528000
				Frequency 2546.01MHz	Frequency 2592.99MHz	Frequency 2640MHz
100M	DFT-s-OFDM Pi/2 BPSK	1	1	24.34	24.18	23.14
		1	137	24.54	24.05	24.30
		1	271	23.77	24.12	24.20
		135	0	24.18	24.05	23.18
		135	69	24.65	24.01	24.24
		135	138	24.28	24.25	24.70
		270	0	24.64	24.15	24.27
	DFT-s-OFDM QPSK	1	1	24.21	24.05	23.77
		1	137	24.89	24.71	24.37
		1	271	23.84	24.17	24.16
		135	0	24.76	24.18	23.98
		135	69	24.79	24.33	24.37
		135	138	24.43	24.21	24.47
		270	0	24.61	24.25	24.37
	DFT-s-OFDM 16QAM	1	137	23.39	23.26	23.37
	DFT-s-OFDM 64QAM	1	137	22.08	21.85	22.07
	DFT-s-OFDM 256QAM	1	137	21.33	21.19	20.88



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BW	MCS Index	RB Size	RB Offset	Low CH 630334	Mid CH 633334	High CH 636332
				Frequency 3455.01 MHz	Frequency 3500.01MHz	Frequency 3544.98 MHz
10M	CP-OFDM QPSK	1	12	23.51	23.64	23.17

BW	MCS Index	RB Size	RB Offset	Low CH 630500	Mid CH 633334	High CH 636166
				Frequency 3457.5 MHz	Frequency 3500.01MHz	Frequency 3542.49 MHz
15M	CP-OFDM QPSK	1	19	23.45	23.59	23.16

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	CP-OFDM QPSK	1	26	23.73	23.98	23.91

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	CP-OFDM QPSK	1	53	23.50	23.60	23.09

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	CP-OFDM QPSK	1	67	23.38	23.36	23.11

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	CP-OFDM QPSK	1	81	23.39	23.42	23.07

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	CP-OFDM QPSK	1	109	23.35	23.52	23.08

BW	MCS Index	RB Size	RB Offset	Low CH 633000	Mid CH 633334	High CH 633666
				Frequency 3495 MHz	Frequency 3500.01MHz	Frequency 3504.99 MHz
90M	CP-OFDM QPSK	1	123	23.47	23.48	23.15

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	CP-OFDM QPSK	1	137	/	23.66	/

BW	MCS Index	RB Size	RB Offset	Low CH 630334	Mid CH 633334	High CH 636332
				Frequency 3455.01MHz	Frequency 3500.01MHz	Frequency 3544.98MHz
10M	DFT-s-OFDM QPSK	1	12	24.55	24.57	24.39

BW	MCS Index	RB Size	RB Offset	Low CH 630500	Mid CH 633334	High CH 636166
				Frequency 3457.5MHz	Frequency 3500.01MHz	Frequency 3542.49MHz
15M	DFT-s-OFDM QPSK	1	19	24.35	24.37	24.27

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	DFT-s-OFDM QPSK	1	26	24.43	24.53	24.33

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	DFT-s-OFDM QPSK	1	53	24.29	24.41	24.27

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	DFT-s-OFDM QPSK	1	67	24.37	24.50	24.18

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	DFT-s-OFDM QPSK	1	81	24.30	24.41	24.21

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	DFT-s-OFDM QPSK	1	109	24.48	24.42	24.18

BW	MCS Index	RB Size	RB Offset	Low CH 633000	Mid CH 633334	High CH 633666
				Frequency 3495MHz	Frequency 3500.01MHz	Frequency 3504.99MHz
90M	DFT-s-OFDM QPSK	1	123	24.41	24.41	24.30

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	DFT-s-OFDM Pi/2 BPSK	1	1	/	24.45	/
		1	137	/	24.74	/
		1	271	/	24.32	/
		135	0	/	24.66	/
		135	69	/	24.73	/
		135	138	/	24.15	/
		270	0	/	24.41	/
	DFT-s-OFDM QPSK	1	1	/	24.16	/
		1	137	/	24.76	/
		1	271	/	24.29	/
		135	0	/	24.08	/
		135	69	/	24.55	/
		135	138	/	23.68	/
		270	0	/	24.18	/
	DFT-s-OFDM 16QAM	1	137	/	23.76	/
	DFT-s-OFDM 64QAM	1	137	/	22.29	/
	DFT-s-OFDM 256QAM	1	137	/	20.83	/



**BUREAU
VERITAS**

Test Report No.: PSU-QSU2306120115RF10

N77(Part 270)

BW	MCS Index	RB Size	RB Offset	Low CH 647000	Mid CH 656000	High CH 664998
				Frequency 3705MHz	Frequency 3840MHz	Frequency 3974.97MHz
10M	CP-OFDM QPSK	1	12	23.58	22.93	22.54

BW	MCS Index	RB Size	RB Offset	Low CH 647166	Mid CH 656000	High CH 664832
				Frequency 3707.49MHz	Frequency 3840MHz	Frequency 3972.48MHz
15M	CP-OFDM QPSK	1	19	23.52	22.91	22.51

BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 656000	High CH 664666
				Frequency 3710.01MHz	Frequency 3840MHz	Frequency 3969.99MHz
20M	CP-OFDM QPSK	1	26	23.50	22.92	22.52

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 656000	High CH 664000
				Frequency 3720MHz	Frequency 3840MHz	Frequency 3960MHz
40M	CP-OFDM QPSK	1	53	23.52	22.91	22.48

BW	MCS Index	RB Size	RB Offset	Low CH 648336	Mid CH 656000	High CH 663666
				Frequency 3725.04MHz	Frequency 3840MHz	Frequency 3954.99MHz
50M	CP-OFDM QPSK	1	67	23.54	22.88	22.49

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 656000	High CH 663332
				Frequency 3730.02MHz	Frequency 3840MHz	Frequency 3949.98MHz
60M	CP-OFDM QPSK	1	81	23.53	22.85	22.53

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 656000	High CH 662666
				Frequency 3740.01MHz	Frequency 3840MHz	Frequency 3939.99MHz
80M	CP-OFDM QPSK	1	109	23.13	22.66	22.23



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Test Report No.: PSU-QSU2306120115RF10

BW	MCS Index	RB Size	RB Offset	Low CH 649668	Mid CH 656000	High CH 662328
				Frequency 3745.02MHz	Frequency 3840MHz	Frequency 3934.92MHz
90M	CP-OFDM QPSK	1	123	22.97	22.55	22.56

BW	MCS Index	RB Size	RB Offset	Low CH 650000	Mid CH 656000	High CH 662000
				Frequency 3750MHz	Frequency 3840MHz	Frequency 3930MHz
100M	CP-OFDM QPSK	1	137	22.87	22.74	22.82

BW	MCS Index	RB Size	RB Offset	Low CH 647000	Mid CH 656000	High CH 664998
				Frequency 3705MHz	Frequency 3840MHz	Frequency 3974.97MHz
10M	DFT-s-OFDM QPSK	1	12	24.18	24.15	23.49

BW	MCS Index	RB Size	RB Offset	Low CH 647166	Mid CH 656000	High CH 664832
				Frequency 3707.49MHz	Frequency 3840MHz	Frequency 3972.48MHz
15M	DFT-s-OFDM QPSK	1	19	24.11	24.13	23.78

BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 656000	High CH 664666
				Frequency 3710.01MHz	Frequency 3840MHz	Frequency 3969.99MHz
20M	DFT-s-OFDM QPSK	1	26	23.91	23.99	23.44

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 656000	High CH 664000
				Frequency 3720MHz	Frequency 3840MHz	Frequency 3960MHz
40M	DFT-s-OFDM QPSK	1	53	24.02	24.07	23.88

BW	MCS Index	RB Size	RB Offset	Low CH 648336	Mid CH 656000	High CH 663666
				Frequency 3725.04MHz	Frequency 3840MHz	Frequency 3954.99MHz
50M	DFT-s-OFDM QPSK	1	67	23.98	24.11	23.45

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 656000	High CH 663332
				Frequency 3730.02MHz	Frequency 3840MHz	Frequency 3949.98MHz
60M	DFT-s-OFDM QPSK	1	81	23.76	23.95	23.65

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 656000	High CH 662666
				Frequency 3740.01MHz	Frequency 3840MHz	Frequency 3939.99MHz
80M	DFT-s-OFDM QPSK	1	109	24.08	24.15	23.84



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Test Report No.: PSU-QSU2306120115RF10

BW	MCS Index	RB Size	RB Offset	Low CH 649668	Mid CH 656000	High CH 662328
				Frequency 3745.02MHz	Frequency 3840MHz	Frequency 3934.92MHz
90M	DFT-s-OFDM QPSK	1	123	24.13	24.22	23.76

BW	MCS Index	RB Size	RB Offset	Low CH 650000	Mid CH 656000	High CH 662000
				Frequency 3750MHz	Frequency 3840MHz	Frequency 3930MHz
100M	DFT-s-OFDM Pi/2 BPSK	1	1	23.97	24.31	23.19
		1	137	24.31	24.42	23.32
		1	271	23.46	23.32	23.34
		135	0	23.61	24.14	23.75
		135	69	23.74	23.94	23.31
		135	138	24.03	23.68	23.46
		270	0	23.77	23.96	23.20
	DFT-s-OFDM QPSK	1	1	23.58	23.80	23.11
		1	137	24.13	24.43	23.98
		1	271	23.75	23.38	23.92
		135	0	23.64	23.72	23.33
		135	69	24.13	24.22	23.15
		135	138	23.48	23.14	22.97
		270	0	23.29	23.44	23.23
	DFT-s-OFDM 16QAM	1	137	23.03	23.29	23.22
	DFT-s-OFDM 64QAM	1	137	21.70	21.42	21.55
	DFT-s-OFDM 256QAM	1	137	20.68	20.77	20.59



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VERITAS**

Test Report No.: PSU-QSU2306120115RF10

N78(Part 27Q)

BW	MCS Index	RB Size	RB Offset	Low CH 630334	Mid CH 633334	High CH 636332
				Frequency 3455.01MHz	Frequency 3500.01MHz	Frequency 3544.98MHz
10M	CP-OFDM QPSK	1	12	23.33	23.22	22.90

BW	MCS Index	RB Size	RB Offset	Low CH 630500	Mid CH 633334	High CH 636166
				Frequency 3457.5MHz	Frequency 3500.01MHz	Frequency 3542.49MHz
15M	CP-OFDM QPSK	1	19	23.31	23.23	22.95

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	CP-OFDM QPSK	1	26	23.25	23.16	22.82

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	CP-OFDM QPSK	1	53	23.26	23.17	22.88

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	CP-OFDM QPSK	1	67	23.35	22.92	22.71

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	CP-OFDM QPSK	1	81	23.29	23.17	22.85

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	CP-OFDM QPSK	1	109	23.43	23.08	22.76

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
90M	CP-OFDM QPSK	1	123	23.27	23.20	22.85

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	CP-OFDM QPSK	1	137	/	23.68	/

BW	MCS Index	RB Size	RB Offset	Low CH 630334	Mid CH 633334	High CH 636332
				Frequency 3455.01MHz	Frequency 3500.01MHz	Frequency 3544.98MHz
10M	DFT-s-OFDM QPSK	1	12	24.59	24.29	24.22

BW	MCS Index	RB Size	RB Offset	Low CH 630500	Mid CH 633334	High CH 636166
				Frequency 3457.5MHz	Frequency 3500.01MHz	Frequency 3542.49MHz
15M	DFT-s-OFDM QPSK	1	19	24.60	24.30	24.15

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	DFT-s-OFDM QPSK	1	26	24.57	24.28	24.18

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	DFT-s-OFDM QPSK	1	53	24.52	24.21	24.16

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	DFT-s-OFDM QPSK	1	67	24.48	24.18	24.05

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	DFT-s-OFDM QPSK	1	81	24.58	24.27	24.14

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	DFT-s-OFDM QPSK	1	109	24.55	24.31	24.09



**BUREAU
VERITAS**

Test Report No.: PSU-QSU2306120115RF10

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
90M	DFT-s-OFDM QPSK	1	123	24.51	24.25	24.17

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	DFT-s-OFDM Pi/2 BPSK	1	1	/	23.88	/
		1	137	/	24.48	/
		1	271	/	23.71	/
		135	0	/	24.61	/
		135	69	/	24.55	/
		135	138	/	24.19	/
		270	0	/	24.45	/
	DFT-s-OFDM QPSK	1	1	/	23.97	/
		1	137	/	24.65	/
		1	271	/	23.97	/
		135	0	/	24.23	/
		135	69	/	24.24	/
		135	138	/	23.64	/
		270	0	/	23.95	/
	DFT-s-OFDM 16QAM	1	137	/	23.62	/
	DFT-s-OFDM 64QAM	1	137	/	22.47	/
	DFT-s-OFDM 256QAM	1	137	/	20.72	/



**BUREAU
VERITAS**

Test Report No.: PSU-QSU2306120115RF10

N78(Part 270)

BW	MCS Index	RB Size	RB Offset	Low CH 647000	Mid CH 650000	High CH 652998
				Frequency 3705MHz	Frequency 3750MHz	Frequency 3794.97MHz
10M	CP-OFDM QPSK	1	12	22.98	22.84	22.38

BW	MCS Index	RB Size	RB Offset	Low CH 647166	Mid CH 650000	High CH 652832
				Frequency 3707.49MHz	Frequency 3750MHz	Frequency 3792.48MHz
15M	CP-OFDM QPSK	1	19	22.31	22.98	22.45

BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 650000	High CH 652666
				Frequency 3710.01MHz	Frequency 3750MHz	Frequency 3789.99MHz
20M	CP-OFDM QPSK	1	26	22.97	22.79	22.30

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 650000	High CH 652000
				Frequency 3720MHz	Frequency 3750MHz	Frequency 3960MHz
40M	CP-OFDM QPSK	1	53	22.95	22.78	22.39

BW	MCS Index	RB Size	RB Offset	Low CH 648334	Mid CH 650000	High CH 651666
				Frequency 3725.01MHz	Frequency 3750MHz	Frequency 3774.99MHz
50M	CP-OFDM QPSK	1	67	22.83	22.95	22.35

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 650000	High CH 650666
				Frequency 3730.02MHz	Frequency 3750MHz	Frequency 3774.99MHz
60M	CP-OFDM QPSK	1	81	22.90	22.80	22.33

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 650000	High CH 650666
				Frequency 3740.01MHz	Frequency 3750MHz	Frequency 3939.99MHz
80M	CP-OFDM QPSK	1	109	22.92	22.44	22.31

BW	MCS Index	RB Size	RB Offset	Low CH 649668	Mid CH 650000	High CH 650332
				Frequency 3745.02MHz	Frequency 3750MHz	Frequency 3754.98MHz
90M	CP-OFDM QPSK	1	123	22.32	22.59	22.43

BW	MCS Index	RB Size	RB Offset	/	Mid CH 650000	/
				/	Frequency 3750MHz	/
100M	CP-OFDM QPSK	1	137	/	22.81	/

BW	MCS Index	RB Size	RB Offset	Low CH 647000	Mid CH 650000	High CH 652998
				Frequency 3705MHz	Frequency 3750MHz	Frequency 3794.97MHz
10M	DFT-s-OFDM QPSK	1	12	23.59	23.47	23.61

BW	MCS Index	RB Size	RB Offset	Low CH 647166	Mid CH 650000	High CH 652832
				Frequency 3707.49MHz	Frequency 3750MHz	Frequency 3792.48MHz
15M	DFT-s-OFDM QPSK	1	19	23.56	23.42	23.59

BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 650000	High CH 652666
				Frequency 3710.01MHz	Frequency 3750MHz	Frequency 3789.99MHz
20M	DFT-s-OFDM QPSK	1	26	23.58	23.45	23.53

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 650000	High CH 652000
				Frequency 3720MHz	Frequency 3750MHz	Frequency 3960MHz
40M	DFT-s-OFDM QPSK	1	53	23.51	23.46	23.56

BW	MCS Index	RB Size	RB Offset	Low CH 648334	Mid CH 650000	High CH 651666
				Frequency 3725.01MHz	Frequency 3750MHz	Frequency 3774.99MHz
50M	DFT-s-OFDM QPSK	1	67	23.48	23.42	23.62

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 650000	High CH 650666
				Frequency 3730.02MHz	Frequency 3750MHz	Frequency 3774.99MHz
60M	DFT-s-OFDM QPSK	1	81	23.38	23.47	23.55

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 650000	High CH 650666
				Frequency 3740.01MHz	Frequency 3750MHz	Frequency 3939.99MHz
80M	DFT-s-OFDM QPSK	1	109	23.45	23.48	23.52

BW	MCS Index	RB Size	RB Offset	Low CH 649668	Mid CH 650000	High CH 650332
				Frequency 3745.02MHz	Frequency 3750MHz	Frequency 3754.98MHz
90M	DFT-s-OFDM QPSK	1	123	23.30	23.53	23.45

BW	MCS Index	RB Size	RB Offset	/	Mid CH 650000	/
				/	Frequency 3750MHz	/
100M	DFT-s-OFDM Pi/2 BPSK	1	1	/	23.25	/
		1	137	/	22.85	/
		1	271	/	22.57	/
		135	0	/	23.20	/
		135	69	/	23.02	/
		135	138	/	22.94	/
		270	0	/	23.30	/
	DFT-s-OFDM QPSK	1	1	/	23.14	/
		1	137	/	23.67	/
		1	271	/	22.98	/
		135	0	/	23.35	/
		135	69	/	23.40	/
		135	138	/	23.12	/
		270	0	/	23.45	/
	DFT-s-OFDM 16QAM	1	137	/	22.73	/
	DFT-s-OFDM 64QAM	1	137	/	21.07	/
	DFT-s-OFDM 256QAM	1	137	/	19.76	/

EIRP

PC3:

N2

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	24.07	-1	23.07	202.77	2
376000	1880	24.12	-1	23.12	205.12	2
381500	1907.5	24.18	-1	23.18	207.97	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	23.05	-1	22.05	160.32	2
376000	1880	24.09	-1	23.09	203.7	2
381000	1905	23.12	-1	22.12	162.93	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	23.85	-1	22.85	192.75	2
376000	1880	24.07	-1	23.07	202.77	2
380500	1902.5	23.89	-1	22.89	194.54	2

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	24.15	-1	23.15	206.54	2
376000	1880	24.17	-1	23.17	207.49	2
380000	1900	24.25	-1	23.25	211.35	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	24.21	-1	23.21	209.41	2
376000	1880	24.24	-1	23.24	210.86	2
380000	1900	24.32	-1	23.32	214.78	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	22.67	-1	21.67	146.89	2
376000	1880	22.71	-1	21.71	148.25	2
380000	1900	22.94	-1	21.94	156.31	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	21.32	-1	20.32	107.65	2
376000	1880	21.27	-1	20.27	106.41	2
380000	1900	21.74	-1	20.74	118.58	2

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	20.01	-1	19.01	79.62	2
376000	1880	20.04	-1	19.04	80.17	2
380000	1900	19.98	-1	18.98	79.07	2

REMARKS: EIRP Output Power (dBm) = EIRP (dBm) -2.15(dB).

N5

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165300	826.5	23.61	-1.5	19.96	99.08	7
167300	836.5	22.67	-1.5	19.02	79.8	7
169300	846.5	23.65	-1.5	20	100	7

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165800	829	23.48	-1.5	19.83	96.16	7
167300	836.5	23.59	-1.5	19.94	98.63	7
168800	844	23.57	-1.5	19.92	98.17	7

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166300	831.5	23.31	-1.5	19.66	92.47	7
167300	836.5	23.59	-1.5	19.94	98.63	7
168300	841.5	23.56	-1.5	19.91	97.95	7

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	23.67	-1.5	20.02	100.46	7
167300	836.5	23.72	-1.5	20.07	101.62	7
167800	839	23.71	-1.5	20.06	101.39	7

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	23.65	-1.5	20	100	7
167300	836.5	23.74	-1.5	20.09	102.09	7
167800	839	23.72	-1.5	20.07	101.62	7

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	21.63	-1.5	17.98	62.81	7
167300	836.5	21.62	-1.5	17.97	62.66	7
167800	839	21.94	-1.5	18.29	67.45	7

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	21.14	-1.5	17.49	56.1	7
167300	836.5	21.16	-1.5	17.51	56.36	7
167800	839	21.32	-1.5	17.67	58.48	7

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	19.13	-1.5	15.48	35.32	7
167300	836.5	19.17	-1.5	15.52	35.65	7
167800	839	19.23	-1.5	15.58	36.14	7

REMARKS: ERP Output Power (dBm) = ERP (dBm) -2.15(dB).

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CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
501500	2502.5	24.18	0.5	24.68	293.76	2
507000	2535	24.11	0.5	24.61	289.07	2
512500	2567.5	24.15	0.5	24.65	291.74	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
501000	2505	24.14	0.5	24.64	291.07	2
507000	2535	24.05	0.5	24.55	285.1	2
513000	2565	24.11	0.5	24.61	289.07	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
501500	2507.5	23.98	0.5	24.48	280.54	2
507000	2535	23.97	0.5	24.47	279.9	2
512500	2562.5	24.02	0.5	24.52	283.14	2

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
502000	2510	24.32	0.5	24.82	303.39	2
507000	2535	24.22	0.5	24.72	296.48	2
512000	2560	24.17	0.5	24.67	293.09	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
502000	2510	24.14	0.5	24.64	291.07	2
507000	2535	24.66	0.5	25.16	328.1	2
512000	2560	24.19	0.5	24.69	294.44	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
502000	2510	22.64	0.5	23.14	206.06	2
507000	2535	22.57	0.5	23.07	202.77	2
512000	2560	22.63	0.5	23.13	205.59	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
502000	2510	21.26	0.5	21.76	149.97	2
507000	2535	21.17	0.5	21.67	146.89	2
512000	2560	21.07	0.5	21.57	143.55	2

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
502000	2510	19.87	0.5	20.37	108.89	2
507000	2535	19.98	0.5	20.48	111.69	2
512000	2560	19.73	0.5	20.23	105.44	2

REMARKS: ERP Output Power (dBm) = ERP (dBm) -2.15(dB).



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CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140300	701.5	23.67	-2	21.67	146.89	3
141500	707.5	23.77	-2	21.77	150.31	3
142700	713.5	23.74	-2	21.74	149.28	3

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140800	704	23.57	-2	21.57	143.55	3
141500	707.5	23.63	-2	21.63	145.55	3
142200	711	23.61	-2	21.61	144.88	3

CHANNEL BANDWIDTH: 15MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	23.73	-2	21.73	148.94	3
141500	707.5	23.69	-2	21.69	147.57	3
141700	708.5	23.72	-2	21.72	148.59	3

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	23.82	-2	21.82	152.05	3
141500	707.5	23.78	-2	21.78	150.66	3
141700	708.5	23.75	-2	21.75	149.62	3

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	22.45	-2	20.45	110.92	3
141500	707.5	22.42	-2	20.42	110.15	3
141700	708.5	22.5	-2	20.5	112.2	3

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	21.36	-2	19.36	86.3	3
141500	707.5	21.38	-2	19.38	86.7	3
141700	708.5	21.48	-2	19.48	88.72	3

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	19.76	-2	17.76	59.7	3
141500	707.5	19.8	-2	17.8	60.26	3
141700	708.5	19.73	-2	17.73	59.29	3

REMARKS: ERP Output Power (dBm) = ERP (dBm) -2.15(dB).

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CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	23.97	-1	22.97	198.15	2
376500	1882.5	23.94	-1	22.94	196.79	2
382500	1912.5	23.99	-1	22.99	199.07	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	23.96	-1	22.96	197.7	2
376500	1882.5	23.97	-1	22.97	198.15	2
382000	1910	23.99	-1	22.99	199.07	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	23.78	-1	22.78	189.67	2
376500	1882.5	23.87	-1	22.87	193.64	2
381500	1907.5	23.92	-1	22.92	195.88	2

CHANNEL BANDWIDTH: 20 Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	24.13	-1	23.13	205.59	2
376500	1882.5	24.21	-1	23.21	209.41	2
381000	1905	24.22	-1	23.22	209.89	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	24.25	-1	23.25	211.35	2
376500	1882.5	24.26	-1	23.26	211.84	2
381000	1905	24.24	-1	23.24	210.86	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	22.65	-1	21.65	146.22	2
376500	1882.5	22.67	-1	21.67	146.89	2
381000	1905	22.78	-1	21.78	150.66	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	21.16	-1	20.16	103.75	2
376500	1882.5	21.19	-1	20.19	104.47	2
381000	1905	21.24	-1	20.24	105.68	2

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	19.87	-1	18.87	77.09	2
376500	1882.5	19.91	-1	18.91	77.8	2
381000	1905	19.97	-1	18.97	78.89	2

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

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CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
515000	2575	24.08	0.5	24.58	287.08	2
519000	2595	24.06	0.5	24.56	285.76	2
523000	2615	24.05	0.5	24.55	285.1	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
515500	2577.5	24.06	0.5	24.56	285.76	2
519000	2595	24.03	0.5	24.53	283.79	2
522500	2612.5	24.01	0.5	24.51	282.49	2

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
516000	2580	24.13	0.5	24.63	290.4	2
519000	2595	24.26	0.5	24.76	299.23	2
522000	2610	24.17	0.5	24.67	293.09	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
516000	2580	24.17	0.5	24.67	293.09	2
519000	2595	24.27	0.5	24.77	299.92	2
522000	2610	24.19	0.5	24.69	294.44	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
516000	2580	22.71	0.5	23.21	209.41	2
519000	2595	22.73	0.5	23.23	210.38	2
522000	2610	22.65	0.5	23.15	206.54	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
516000	2580	21.37	0.5	21.87	153.82	2
519000	2595	21.49	0.5	21.99	158.12	2
522000	2610	21.43	0.5	21.93	155.96	2

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
516000	2580	20.02	0.5	20.52	112.72	2
519000	2595	20.15	0.5	20.65	116.14	2
522000	2610	20.01	0.5	20.51	112.46	2

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

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CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
500202	2501.01	22.73	-2	20.73	118.3	2
518598	2592.99	22.74	-2	20.74	118.58	2
537000	2685	22.35	-2	20.35	108.39	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
500700	2503.5	22.67	-2	20.67	116.68	2
518598	2592.99	22.65	-2	20.65	116.14	2
536496	2682.48	22.39	-2	20.39	109.4	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501204	2506.02	22.63	-2	20.63	115.61	2
518598	2592.99	22.67	-2	20.67	116.68	2
535998	2679.99	22.27	-2	20.27	106.41	2

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503202	2516.01	22.57	-2	20.57	114.02	2
518598	2592.99	22.54	-2	20.54	113.24	2
534000	2670	22.14	-2	20.14	103.28	2

CHANNEL BANDWIDTH: 50MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504204	2521.02	22.54	-2	20.54	113.24	2
518598	2592.99	22.51	-2	20.51	112.46	2
532998	2664.99	22.21	-2	20.21	104.95	2

CHANNEL BANDWIDTH: 60MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
505200	2526	22.52	-2	20.52	112.72	2
518598	2592.99	22.55	-2	20.55	113.5	2
531996	2659.98	22.18	-2	20.18	104.23	2

CHANNEL BANDWIDTH: 80MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
507204	2536.02	22.62	-2	20.62	115.35	2
518598	2592.99	22.68	-2	20.68	116.95	2
529998	2649.99	22.37	-2	20.37	108.89	2

CHANNEL BANDWIDTH: 90MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
508200	2541	22.72	-2	20.72	118.03	2
518598	2592.99	22.58	-2	20.58	114.29	2
528996	2644.98	22.34	-2	20.34	108.14	2

CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	22.86	-2	20.86	121.9	2
518598	2592.99	22.81	-2	20.81	120.5	2
528000	2640	22.66	-2	20.66	116.41	2

CHANNEL BANDWIDTH: 100MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	22.89	-2	20.89	122.74	2
518598	2592.99	22.83	-2	20.83	121.06	2
528000	2640	22.72	-2	20.72	118.03	2

CHANNEL BANDWIDTH: 100MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	22.39	-2	20.39	109.4	2
518598	2592.99	21.97	-2	19.97	99.31	2
528000	2640	22.13	-2	20.13	103.04	2

CHANNEL BANDWIDTH: 100MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	22.28	-2	20.28	106.66	2
518598	2592.99	22.1	-2	20.1	102.33	2
528000	2640	22.26	-2	20.26	106.17	2

CHANNEL BANDWIDTH: 100MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	21.63	-2	19.63	91.83	2
518598	2592.99	21.51	-2	19.51	89.33	2
528000	2640	21.33	-2	19.33	85.7	2

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

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CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
342500	1712.5	23.87	-1	22.87	193.64	1
349000	1745	23.86	-1	22.86	193.2	1
355500	1777.5	23.98	-1	22.98	198.61	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343000	1715	23.82	-1	22.82	191.43	1
349000	1745	23.84	-1	22.84	192.31	1
355000	1775	24.03	-1	23.03	200.91	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343500	1717.5	23.92	-1	22.92	195.88	1
349000	1745	23.95	-1	22.95	197.24	1
354500	1772.5	23.99	-1	22.99	199.07	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
344000	1720	23.88	-1	22.88	194.09	1
349000	1745	23.83	-1	22.83	191.87	1
354000	1770	24.01	-1	23.01	199.99	1

CHANNEL BANDWIDTH: 40MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	24	-1	23	199.53	1
349000	1745	24.04	-1	23.04	201.37	1
352000	1760	24.02	-1	23.02	200.45	1

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	24.09	-1	23.09	203.7	1
349000	1745	24.08	-1	23.08	203.24	1
352000	1760	24.06	-1	23.06	202.3	1

CHANNEL BANDWIDTH: 40MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	22.67	-1	21.67	146.89	1
349000	1745	22.75	-1	21.75	149.62	1
352000	1760	22.69	-1	21.69	147.57	1

CHANNEL BANDWIDTH: 40MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	21.42	-1	20.42	110.15	1
349000	1745	21.21	-1	20.21	104.95	1
352000	1760	21.26	-1	20.26	106.17	1

CHANNEL BANDWIDTH: 40MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	19.95	-1	18.95	78.52	1
349000	1745	19.98	-1	18.98	79.07	1
352000	1760	19.96	-1	18.96	78.7	1

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

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CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
133100	665.5	23.72	-2	21.72	148.59	1
136100	680.5	23.71	-2	21.71	148.25	1
139100	695.5	23.68	-2	21.68	147.23	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
133600	668	23.58	-2	21.58	143.88	1
136100	680.5	23.63	-2	21.63	145.55	1
138600	693	23.56	-2	21.56	143.22	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
134100	670.5	23.62	-2	21.62	145.21	1
136100	680.5	23.58	-2	21.58	143.88	1
138100	690.5	23.44	-2	21.44	139.32	1

CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
134600	673	23.69	-2	21.69	147.57	1
136100	680.5	23.66	-2	21.66	146.55	1
137600	688	23.64	-2	21.64	145.88	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
134600	673	23.74	-2	21.74	149.28	1
136100	680.5	23.68	-2	21.68	147.23	1
137600	688	23.72	-2	21.72	148.59	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
134600	673	22.41	-2	20.41	109.9	1
136100	680.5	22.22	-2	20.22	105.2	1
137600	688	21.98	-2	19.98	99.54	1

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
134600	673	20.87	-2	18.87	77.09	1
136100	680.5	20.96	-2	18.96	78.7	1
137600	688	20.91	-2	18.91	77.8	1

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
134600	673	19.57	-2	17.57	57.15	1
136100	680.5	19.23	-2	17.23	52.84	1
137600	688	19.15	-2	17.15	51.88	1

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

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CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630334	3455.01	21.97	0.5	22.47	176.6	1
633334	3500.01	21.73	0.5	22.23	167.11	1
636332	3544.98	22.05	0.5	22.55	179.89	1

CHANNEL BANDWIDTH:15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630500	3457.5	21.83	0.5	22.33	171	1
633334	3500.01	22.02	0.5	22.52	178.65	1
636166	3542.49	21.46	0.5	21.96	157.04	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630668	3460.02	21.78	0.5	22.28	169.04	1
633334	3500.01	21.55	0.5	22.05	160.32	1
636000	3540	21.68	0.5	22.18	165.2	1

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631334	3470.01	21.84	0.5	22.34	171.4	1
633334	3500.01	21.61	0.5	22.11	162.55	1
635332	3529.98	21.17	0.5	21.67	146.89	1

CHANNEL BANDWIDTH: 50MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631668	3475.02	21.78	0.5	22.28	169.04	1
633334	3500.01	21.6	0.5	22.1	162.18	1
634998	3524.97	21.22	0.5	21.72	148.59	1

CHANNEL BANDWIDTH: 60MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632000	3480	21.72	0.5	22.22	166.72	1
633334	3500.01	21.67	0.5	22.17	164.82	1
634666	3519.99	21.74	0.5	22.24	167.49	1

CHANNEL BANDWIDTH: 80MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632668	3490.02	21.65	0.5	22.15	164.06	1
633334	3500.01	21.64	0.5	22.14	163.68	1
634000	3510	21.31	0.5	21.81	151.71	1

CHANNEL BANDWIDTH: 90MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633000	3495	21.67	0.5	22.17	164.82	1
633334	3500.01	21.56	0.5	22.06	160.69	1
633666	3504.99	21.55	0.5	22.05	160.32	1

CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	22.02	0.5	22.52	178.65	1

CHANNEL BANDWIDTH: 100MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	22.09	0.5	22.59	181.55	1

CHANNEL BANDWIDTH: 100MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	21.58	0.5	22.08	161.44	1

CHANNEL BANDWIDTH: 100MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	21.74	0.5	22.24	167.49	1

CHANNEL BANDWIDTH: 100MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	20.83	0.5	21.33	135.83	1

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).



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CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647000	3705	21.43	0.5	21.93	155.96	1
656000	3840	21.29	0.5	21.79	151.01	1
664998	3974.97	21.07	0.5	21.57	143.55	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647116	3707.49	21.41	0.5	21.91	155.24	1
656000	3840	21.28	0.5	21.78	150.66	1
664832	3972.48	21.03	0.5	21.53	142.23	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647334	3710.01	21.35	0.5	21.85	153.11	1
656000	3840	21.25	0.5	21.75	149.62	1
664666	3969.99	21.02	0.5	21.52	141.91	1

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648000	3720	21.35	0.5	21.85	153.11	1
656000	3840	21.16	0.5	21.66	146.55	1
664000	3960	21	0.5	21.5	141.25	1

CHANNEL BANDWIDTH: 50MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648336	3725.04	21.39	0.5	21.89	154.53	1
656000	3840	21.19	0.5	21.69	147.57	1
663666	3954.99	20.97	0.5	21.47	140.28	1

CHANNEL BANDWIDTH: 60MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648668	3730.02	21.34	0.5	21.84	152.76	1
656000	3840	21.21	0.5	21.71	148.25	1
663332	3949.98	20.99	0.5	21.49	140.93	1

CHANNEL BANDWIDTH: 80MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
649334	3740.01	21.47	0.5	21.97	157.4	1
656000	3840	21.34	0.5	21.84	152.76	1
662666	3939.99	21.23	0.5	21.73	148.94	1

CHANNEL BANDWIDTH: 90MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
649668	3745.02	21.38	0.5	21.88	154.17	1
656000	3840	21.2	0.5	21.7	147.91	1
662328	3934.92	21.26	0.5	21.76	149.97	1



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CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	21.56	0.5	22.06	160.69	1
656000	3840	21.48	0.5	21.98	157.76	1
662000	3930	21.33	0.5	21.83	152.41	1

CHANNEL BANDWIDTH: 100MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	21.42	0.5	21.92	155.6	1
656000	3840	21.59	0.5	22.09	161.81	1
662000	3930	21.26	0.5	21.76	149.97	1

CHANNEL BANDWIDTH: 100MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	21.07	0.5	21.57	143.55	1
656000	3840	21.08	0.5	21.58	143.88	1
662000	3930	21.11	0.5	21.61	144.88	1

CHANNEL BANDWIDTH: 100MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	21.18	0.5	21.68	147.23	1
656000	3840	21.11	0.5	21.61	144.88	1
662000	3930	21.17	0.5	21.67	146.89	1

CHANNEL BANDWIDTH: 100MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	20.15	0.5	20.65	116.14	1
656000	3840	20.21	0.5	20.71	117.76	1
662000	3930	20.08	0.5	20.58	114.29	1

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

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CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-LC} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
630334	3455.01	22.18	0.5	22.68	185.35	30
633334	3500.01	21.98	0.5	22.48	177.01	30
636332	3544.98	21.78	0.5	22.28	169.04	30

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-LC} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
630500	3457.5	22.16	0.5	22.66	184.5	30
633334	3500.01	21.93	0.5	22.43	174.98	30
636166	3542.49	21.76	0.5	22.26	168.27	30

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-LC} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
630668	3460.02	22.15	0.5	22.65	184.08	30
633334	3500.01	21.99	0.5	22.49	177.42	30
636000	3540	21.69	0.5	22.19	165.58	30

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-LC} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631334	3470.01	22.15	0.5	22.65	184.08	30
633334	3500.01	21.94	0.5	22.44	175.39	30
635332	3529.98	21.78	0.5	22.28	169.04	30

CHANNEL BANDWIDTH: 50MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-LC} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631668	3475.02	22.17	0.5	22.67	184.93	30
633334	3500.01	21.93	0.5	22.43	174.98	30
634998	3524.97	21.73	0.5	22.23	167.11	30

CHANNEL BANDWIDTH: 60MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-LC} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
632000	3480	22.16	0.5	22.66	184.5	30
633334	3500.01	21.91	0.5	22.41	174.18	30
634666	3519.99	21.74	0.5	22.24	167.49	30

CHANNEL BANDWIDTH: 80MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-LC} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
632668	3490.02	22.04	0.5	22.54	179.47	30
633334	3500.01	22.02	0.5	22.52	178.65	30
634000	3510	21.93	0.5	22.43	174.98	30

CHANNEL BANDWIDTH: 90MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-LC} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633000	3495	21.98	0.5	22.48	177.01	30
633334	3500.01	22.03	0.5	22.53	179.06	30
633666	3504.99	21.89	0.5	22.39	173.38	30

CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	22	0.5	22.5	177.83	30

CHANNEL BANDWIDTH: 100MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	22.19	0.5	22.69	185.78	30

CHANNEL BANDWIDTH: 100MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	21.78	0.5	22.28	169.04	30

CHANNEL BANDWIDTH: 100MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	21.89	0.5	22.39	173.38	30

CHANNEL BANDWIDTH: 100MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	20.89	0.5	21.39	137.72	30

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

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CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
647000	3705	21.58	0.5	22.08	161.44	30
650000	3750	21.22	0.5	21.72	148.59	30
652998	3794.97	21.07	0.5	21.57	143.55	30

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
647166	3707.49	21.64	0.5	22.14	163.68	30
650000	3750	21.31	0.5	21.81	151.71	30
652832	3792.48	21.13	0.5	21.63	145.55	30

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
647334	3710.01	21.6	0.5	22.1	162.18	30
650000	3750	21.24	0.5	21.74	149.28	30
652666	3789.99	21.02	0.5	21.52	141.91	30

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
648000	3720	21.61	0.5	22.11	162.55	30
650000	3750	21.26	0.5	21.76	149.97	30
652000	3780	21.15	0.5	21.65	146.22	30

CHANNEL BANDWIDTH: 50MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
648334	3725.01	21	0.5	21.5	141.25	30
650000	3750	21.24	0.5	21.74	149.28	30
651666	3774.99	20.58	0.5	21.08	128.23	30

CHANNEL BANDWIDTH: 60MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
648668	3730.02	21.45	0.5	21.95	156.68	30
650000	3750	21.19	0.5	21.69	147.57	30
651332	3769.98	21.03	0.5	21.53	142.23	30

CHANNEL BANDWIDTH: 80MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
649334	3740.01	21.34	0.5	21.84	152.76	30
650000	3750	21.37	0.5	21.87	153.82	30
650666	3759.99	21.05	0.5	21.55	142.89	30

CHANNEL BANDWIDTH: 90MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
649668	3745.02	21.26	0.5	21.76	149.97	30
650000	3750	21.25	0.5	21.75	149.62	30
650332	3754.98	21.21	0.5	21.71	148.25	30



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Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
650000	3750	21.46	0.5	21.96	157.04	30

CHANNEL BANDWIDTH: 100MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
650000	3750	21.69	0.5	22.19	165.58	30

CHANNEL BANDWIDTH: 100MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
650000	3750	21.49	0.5	21.99	158.12	30

CHANNEL BANDWIDTH: 100MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
650000	3750	21.41	0.5	21.91	155.24	30

CHANNEL BANDWIDTH: 100MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
650000	3750	20.01	0.5	20.51	112.46	30

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

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CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
500202	2501.01	24.31	-2	22.31	170.22	2
518598	2592.99	24.07	-2	22.07	161.06	2
537000	2685	24.5	-2	22.5	177.83	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
500700	2503.5	24.46	-2	22.46	176.2	2
518598	2592.99	24.41	-2	22.41	174.18	2
536496	2682.48	24.57	-2	22.57	180.72	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501204	2506.02	24.79	-2	22.79	190.11	2
518598	2592.99	24.81	-2	22.81	190.99	2
535998	2679.99	24.63	-2	22.63	183.23	2

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503202	2516.01	24.75	-2	22.75	188.36	2
518598	2592.99	24.59	-2	22.59	181.55	2
534000	2670	24.48	-2	22.48	177.01	2

CHANNEL BANDWIDTH: 50MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504204	2521.02	24.76	-2	22.76	188.8	2
518598	2592.99	24.73	-2	22.73	187.5	2
532998	2664.99	23.85	-2	21.85	153.11	2

CHANNEL BANDWIDTH: 60MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
505200	2526	24.83	-2	22.83	191.87	2
518598	2592.99	24.41	-2	22.41	174.18	2
531996	2659.98	23.74	-2	21.74	149.28	2

CHANNEL BANDWIDTH: 80MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
507204	2536.02	24.76	-2	22.76	188.8	2
518598	2592.99	24.78	-2	22.78	189.67	2
529998	2649.99	24.64	-2	22.64	183.65	2

CHANNEL BANDWIDTH: 90MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
508200	2541	24.85	-2	22.85	192.75	2
518598	2592.99	24.57	-2	22.57	180.72	2
528996	2644.98	23.95	-2	21.95	156.68	2

CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	24.65	-2	22.65	184.08	2
518598	2592.99	24.25	-2	22.25	167.88	2
528000	2640	24.7	-2	22.7	186.21	2

CHANNEL BANDWIDTH: 100MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	24.89	-2	22.89	194.54	2
518598	2592.99	24.71	-2	22.71	186.64	2
528000	2640	24.47	-2	22.47	176.6	2

CHANNEL BANDWIDTH: 100MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	23.39	-2	21.39	137.72	2
518598	2592.99	23.26	-2	21.26	133.66	2
528000	2640	23.37	-2	21.37	137.09	2

CHANNEL BANDWIDTH: 100MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	22.08	-2	20.08	101.86	2
518598	2592.99	21.85	-2	19.85	96.61	2
528000	2640	22.07	-2	20.07	101.62	2

CHANNEL BANDWIDTH: 100MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	21.33	-2	19.33	85.7	2
518598	2592.99	21.19	-2	19.19	82.99	2
528000	2640	20.88	-2	18.88	77.27	2

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).



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Test Report No.: PSU-QSU2306120115RF10

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CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630334	3455.01	24.55	0.5	25.05	319.89	1
633334	3500.01	24.57	0.5	25.07	321.37	1
636332	3544.98	24.39	0.5	24.89	308.32	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630500	3457.5	24.35	0.5	24.85	305.49	1
633334	3500.01	24.37	0.5	24.87	306.9	1
636166	3542.49	24.27	0.5	24.77	299.92	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630668	3460.02	24.43	0.5	24.93	311.17	1
633334	3500.01	24.53	0.5	25.03	318.42	1
636000	3540	24.33	0.5	24.83	304.09	1

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631334	3470.01	24.29	0.5	24.79	301.3	1
633334	3500.01	24.41	0.5	24.91	309.74	1
635332	3529.98	24.27	0.5	24.77	299.92	1

CHANNEL BANDWIDTH: 50MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631668	3475.02	24.37	0.5	24.87	306.9	1
633334	3500.01	24.5	0.5	25	316.23	1
634998	3524.97	24.18	0.5	24.68	293.76	1

CHANNEL BANDWIDTH: 60MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632000	3480	24.3	0.5	24.8	302	1
633334	3500.01	24.41	0.5	24.91	309.74	1
634666	3519.99	24.21	0.5	24.71	295.8	1

CHANNEL BANDWIDTH: 80MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632668	3490.02	24.48	0.5	24.98	314.77	1
633334	3500.01	24.42	0.5	24.92	310.46	1
634000	3510	24.18	0.5	24.68	293.76	1

CHANNEL BANDWIDTH: 90MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633000	3495	24.41	0.5	24.91	309.74	1
633334	3500.01	24.41	0.5	24.91	309.74	1
633666	3504.99	24.3	0.5	24.8	302	1

CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	24.74	0.5	25.24	334.2	1

CHANNEL BANDWIDTH: 100MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	24.76	0.5	25.26	335.74	1

CHANNEL BANDWIDTH: 100MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	23.76	0.5	24.26	266.69	1

CHANNEL BANDWIDTH: 100MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	22.29	0.5	22.79	190.11	1

CHANNEL BANDWIDTH: 100MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	20.83	0.5	21.33	135.83	1

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

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CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647000	3705	24.18	0.5	24.68	293.76	1
656000	3840	24.15	0.5	24.65	291.74	1
664998	3974.97	23.49	0.5	23.99	250.61	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647116	3707.49	24.11	0.5	24.61	289.07	1
656000	3840	24.13	0.5	24.63	290.4	1
664832	3972.48	23.78	0.5	24.28	267.92	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647334	3710.01	23.91	0.5	24.41	276.06	1
656000	3840	23.99	0.5	24.49	281.19	1
664666	3969.99	23.44	0.5	23.94	247.74	1

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648000	3720	24.02	0.5	24.52	283.14	1
656000	3840	24.07	0.5	24.57	286.42	1
664000	3960	23.88	0.5	24.38	274.16	1

CHANNEL BANDWIDTH: 50MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648336	3725.04	23.98	0.5	24.48	280.54	1
656000	3840	24.11	0.5	24.61	289.07	1
663666	3954.99	23.45	0.5	23.95	248.31	1

CHANNEL BANDWIDTH: 60MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648668	3730.02	23.76	0.5	24.26	266.69	1
656000	3840	23.95	0.5	24.45	278.61	1
663332	3949.98	23.65	0.5	24.15	260.02	1

CHANNEL BANDWIDTH: 80MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
649334	3740.01	24.08	0.5	24.58	287.08	1
656000	3840	24.15	0.5	24.65	291.74	1
662666	3939.99	23.84	0.5	24.34	271.64	1

CHANNEL BANDWIDTH: 90MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
649668	3745.02	24.13	0.5	24.63	290.4	1
656000	3840	24.22	0.5	24.72	296.48	1
662328	3934.92	23.76	0.5	24.26	266.69	1



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CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	24.31	0.5	24.81	302.69	1
656000	3840	24.42	0.5	24.92	310.46	1
662000	3930	23.75	0.5	24.25	266.07	1

CHANNEL BANDWIDTH: 100MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	24.13	0.5	24.63	290.4	1
656000	3840	24.43	0.5	24.93	311.17	1
662000	3930	23.98	0.5	24.48	280.54	1

CHANNEL BANDWIDTH: 100MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	23.03	0.5	23.53	225.42	1
656000	3840	23.29	0.5	23.79	239.33	1
662000	3930	23.22	0.5	23.72	235.5	1

CHANNEL BANDWIDTH: 100MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	21.7	0.5	22.2	165.96	1
656000	3840	21.42	0.5	21.92	155.6	1
662000	3930	21.55	0.5	22.05	160.32	1

CHANNEL BANDWIDTH: 100MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	20.68	0.5	21.18	131.22	1
656000	3840	20.77	0.5	21.27	133.97	1
662000	3930	20.59	0.5	21.09	128.53	1

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

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CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-LC} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
630334	3455.01	24.59	0.5	25.09	322.85	30
633334	3500.01	24.29	0.5	24.79	301.3	30
636332	3544.98	24.22	0.5	24.72	296.48	30

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-LC} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
630500	3457.5	24.6	0.5	25.1	323.59	30
633334	3500.01	24.3	0.5	24.8	302	30
636166	3542.49	24.15	0.5	24.65	291.74	30

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-LC} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
630668	3460.02	24.57	0.5	25.07	321.37	30
633334	3500.01	24.28	0.5	24.78	300.61	30
636000	3540	24.18	0.5	24.68	293.76	30

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-LC} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631334	3470.01	24.52	0.5	25.02	317.69	30
633334	3500.01	24.21	0.5	24.71	295.8	30
635332	3529.98	24.16	0.5	24.66	292.42	30

CHANNEL BANDWIDTH: 50MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631668	3475.02	24.48	0.5	24.98	314.77	30
633334	3500.01	24.18	0.5	24.68	293.76	30
634998	3524.97	24.05	0.5	24.55	285.1	30

CHANNEL BANDWIDTH: 60MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
632000	3480	24.58	0.5	25.08	322.11	30
633334	3500.01	24.27	0.5	24.77	299.92	30
634666	3519.99	24.14	0.5	24.64	291.07	30

CHANNEL BANDWIDTH: 80MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
632668	3490.02	24.55	0.5	25.05	319.89	30
633334	3500.01	24.31	0.5	24.81	302.69	30
634000	3510	24.09	0.5	24.59	287.74	30

CHANNEL BANDWIDTH: 90MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633000	3495	24.51	0.5	25.01	316.96	30
633334	3500.01	24.25	0.5	24.75	298.54	30
633666	3504.99	24.17	0.5	24.67	293.09	30

CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	24.61	0.5	25.11	324.34	30

CHANNEL BANDWIDTH: 100MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	24.65	0.5	25.15	327.34	30

CHANNEL BANDWIDTH: 100MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	23.62	0.5	24.12	258.23	30

CHANNEL BANDWIDTH: 100MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	22.47	0.5	22.97	198.15	30

CHANNEL BANDWIDTH: 100MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	20.72	0.5	21.22	132.43	30

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

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CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
647000	3705	23.59	0.5	24.09	256.45	30
650000	3750	23.47	0.5	23.97	249.46	30
652998	3794.97	23.61	0.5	24.11	257.63	30

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
647166	3707.49	23.56	0.5	24.06	254.68	30
650000	3750	23.42	0.5	23.92	246.6	30
652832	3792.48	23.59	0.5	24.09	256.45	30

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
647334	3710.01	23.58	0.5	24.08	255.86	30
650000	3750	23.45	0.5	23.95	248.31	30
652666	3789.99	23.53	0.5	24.03	252.93	30

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
648000	3720	23.51	0.5	24.01	251.77	30
650000	3750	23.46	0.5	23.96	248.89	30
652000	3780	23.56	0.5	24.06	254.68	30

CHANNEL BANDWIDTH: 50MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
648334	3725.01	23.48	0.5	23.98	250.03	30
650000	3750	23.42	0.5	23.92	246.6	30
651666	3774.99	23.62	0.5	24.12	258.23	30

CHANNEL BANDWIDTH: 60MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
648668	3730.02	23.38	0.5	23.88	244.34	30
650000	3750	23.47	0.5	23.97	249.46	30
651332	3769.98	23.55	0.5	24.05	254.1	30

CHANNEL BANDWIDTH: 80MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
649334	3740.01	23.45	0.5	23.95	248.31	30
650000	3750	23.48	0.5	23.98	250.03	30
650666	3759.99	23.52	0.5	24.02	252.35	30

CHANNEL BANDWIDTH: 90MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
649668	3745.02	23.3	0.5	23.8	239.88	30
650000	3750	23.53	0.5	24.03	252.93	30
650332	3754.98	23.45	0.5	23.95	248.31	30



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Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
650000	3750	23.3	0.5	23.8	239.88	30

CHANNEL BANDWIDTH: 100MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
650000	3750	23.67	0.5	24.17	261.22	30

CHANNEL BANDWIDTH: 100MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
650000	3750	22.73	0.5	23.23	210.38	30

CHANNEL BANDWIDTH: 100MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
650000	3750	21.07	0.5	21.57	143.55	30

CHANNEL BANDWIDTH: 100MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
650000	3750	19.76	0.5	20.26	106.17	30

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

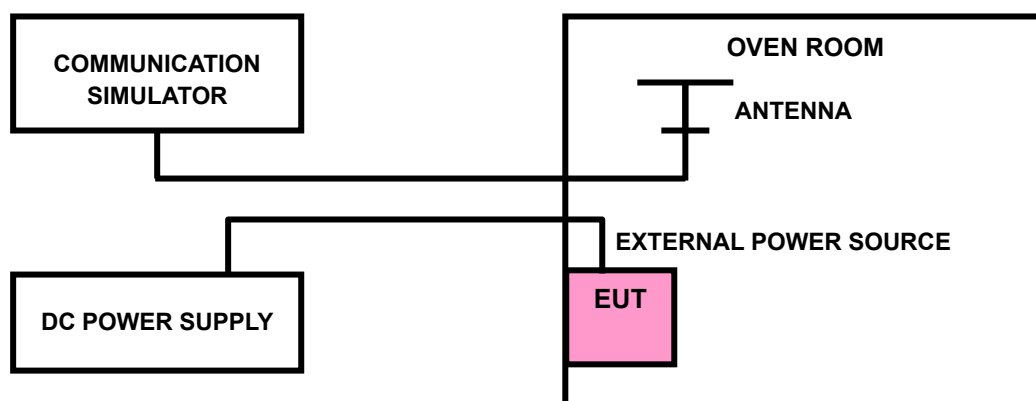
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

3.2.2 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP





Test Report No.: PSU-QSU2306120115RF10

3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

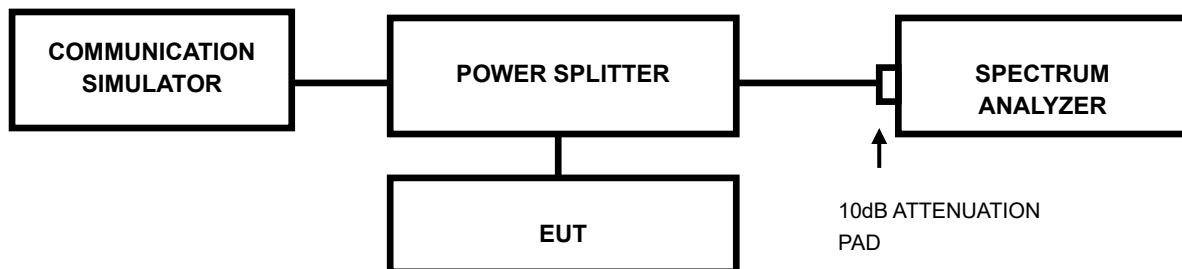
Note: VL = Low voltage(3.6V); VN/NV = Normal voltage(3.87V); VH = High voltage(4.45V);
NT = Normal temperature (25°C)

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

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 power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.



Test Report No.: PSU-QSU2306120115RF10

3.3.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. 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.(n2/n5/n25/n66)

According to FCC 27.53(g) specified that For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. 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. (n12/ n71)

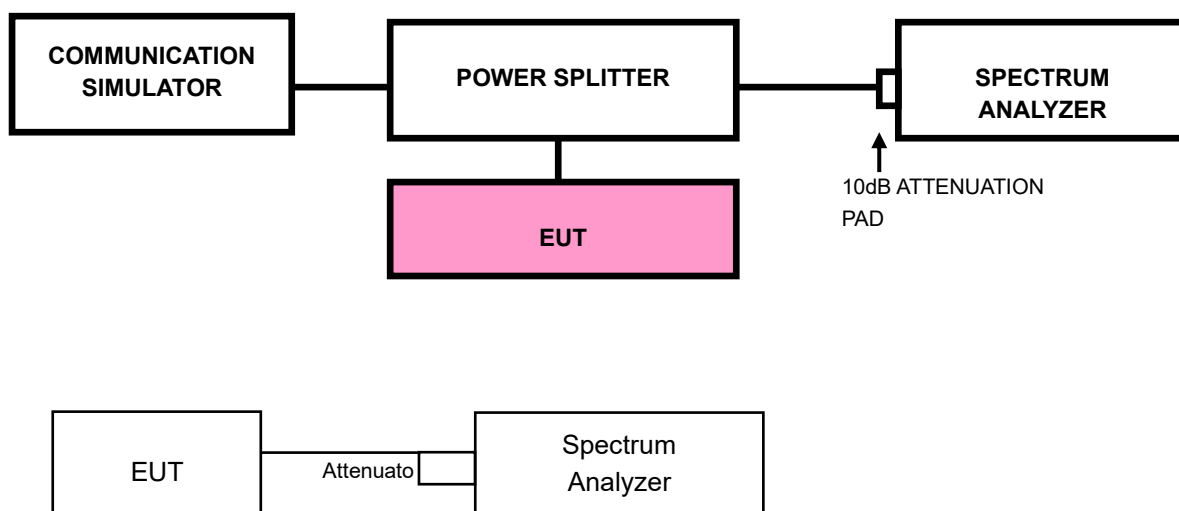
According to FCC 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from 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 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.(n7/n41)

According to FCC 27.53(l)(2) specified that For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.(n77/n78)

According to FCC 27.53(n)(2) specified that For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz 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, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

3.4.2 TEST SETUP



3.4.3 TEST PROCEDURES

- a) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- b) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW).
- c) Set the resolution bandwidth (RBW) $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
- d) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- e) Set the video bandwidth (VBW) to $\geq 3 \times$ RBW.
- f) Select the average power (RMS) display detector.
- g) Set the number of measurement points to ≥ 1001 .
- h) Use auto-coupled sweep time.
- i) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- j) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- k) Record the max trace plot into the test report.



Test Report No.: PSU-QSU2306120115RF10

3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -13dBm.

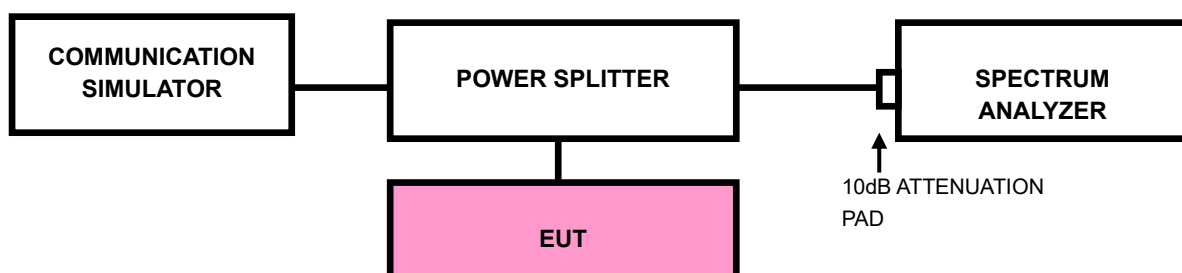
For 5G NR n41:

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm.

3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP





Test Report No.: PSU-QSU2306120115RF10

3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix Of this test report.

3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -13dBm.

For 5G NR n7/n41:

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm.

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G.
- c. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15\text{dBi}.$

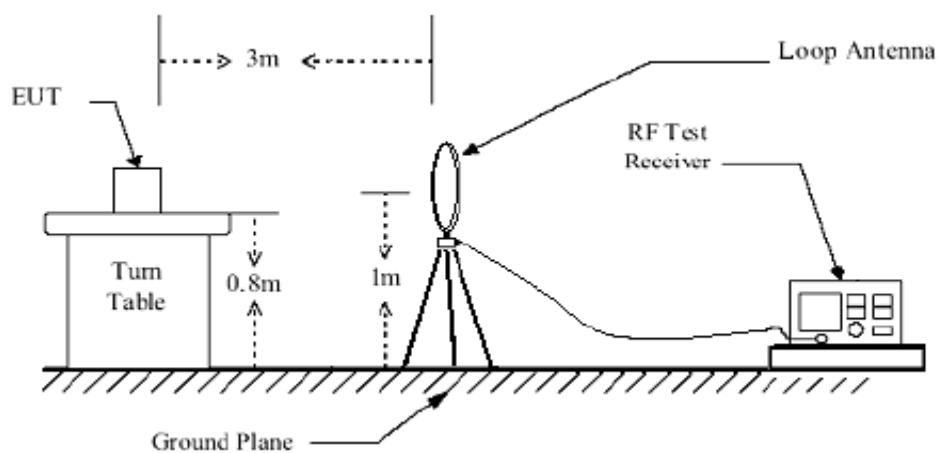
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.6.3 DEVIATION FROM TEST STANDARD

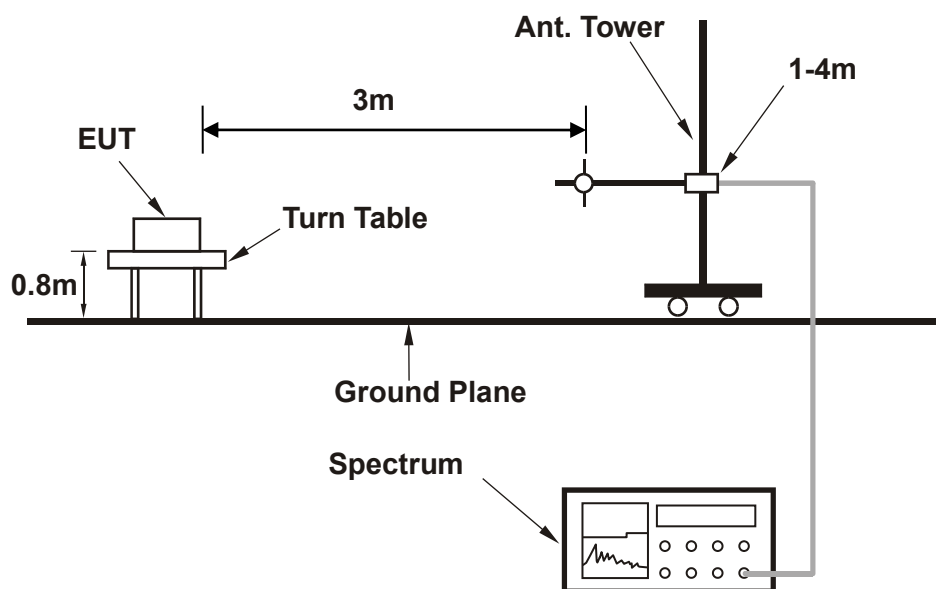
No deviation

3.6.4 TEST SETUP

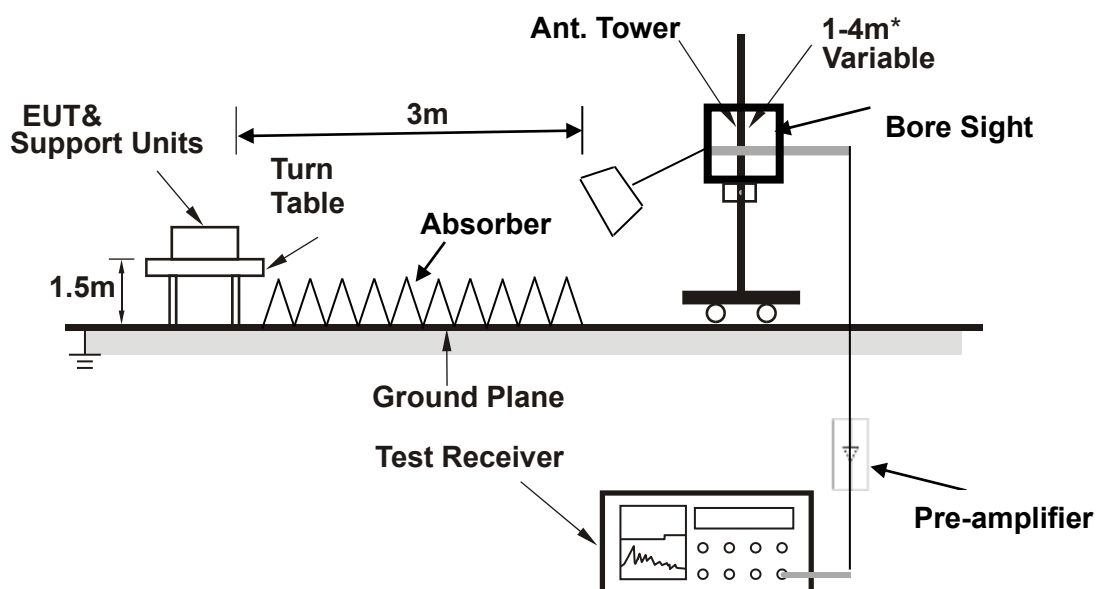
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.6.5 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

5G SA BELOW 1GHz WORST-CASE DATA

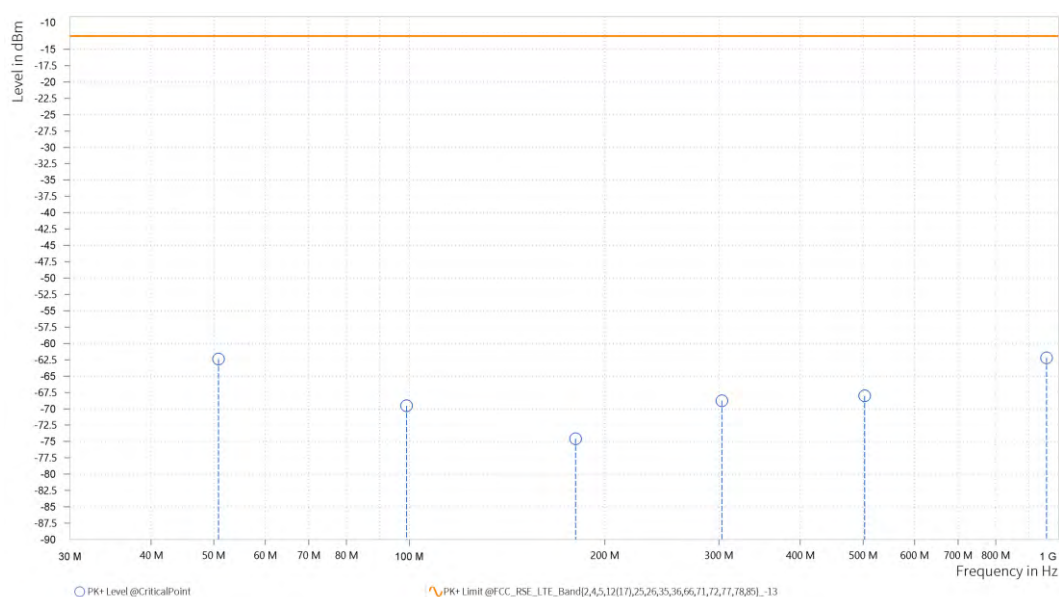
30 MHz – 1GHz data:

N77(Part 270)

CHANNEL BANDWIDTH: 50MHz / QPSK

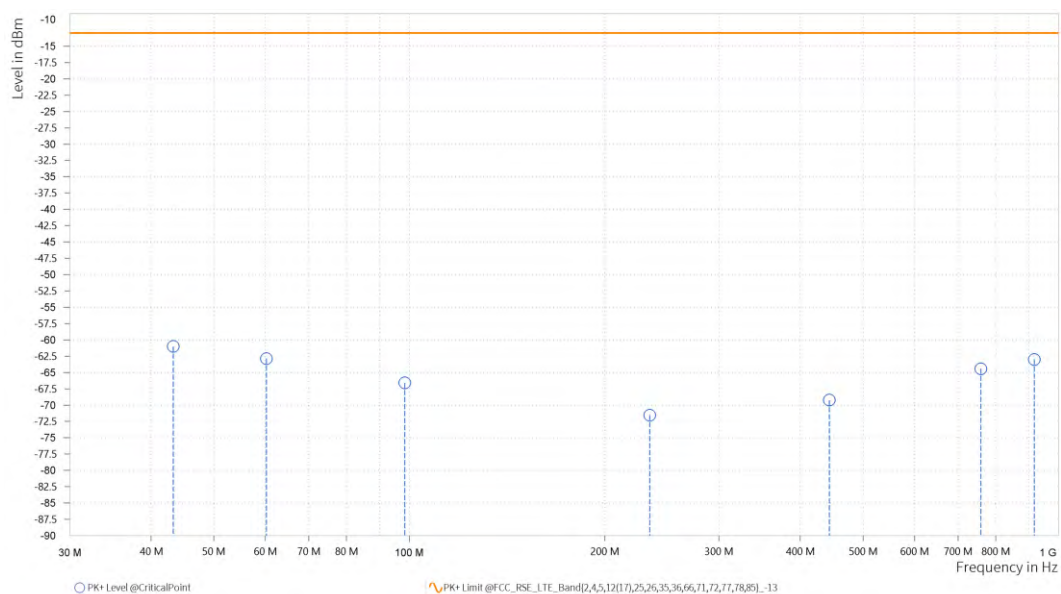
MODE	TX channel 663666	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	50.800	-62.40	-13.00	49.40	3.73	H	181.3	2
1	99.000	-69.54	-13.00	56.54	0.43	H	358.8	1
1	180.300	-74.57	-13.00	61.57	-1.90	H	359.1	1
1	302.950	-68.77	-13.00	55.77	5.59	H	4.6	1
2	502.617	-68.02	-13.00	55.02	6.40	H	1.7	2
2	958.383	-62.19	-13.00	49.19	15.16	H	1	1



MODE	TX channel 663666	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	43.300	-61.01	-13.00	48.01	5.22	V	355.4	2
1	60.200	-62.85	-13.00	49.85	4.18	V	359	2
1	98.450	-66.59	-13.00	53.59	4.19	V	34.2	2
1	234.550	-71.53	-13.00	58.53	3.08	V	176.6	1
1	443.550	-69.23	-13.00	56.23	7.22	V	34.2	2
2	758.963	-64.43	-13.00	51.43	11.82	V	249.5	1
2	917.867	-62.99	-13.00	49.99	15.11	V	1.5	2





Test Report No.: PSU-QSU2306120115RF10

ABOVE 1GHz

Note: For higher frequency, the emission is too low to be detected.

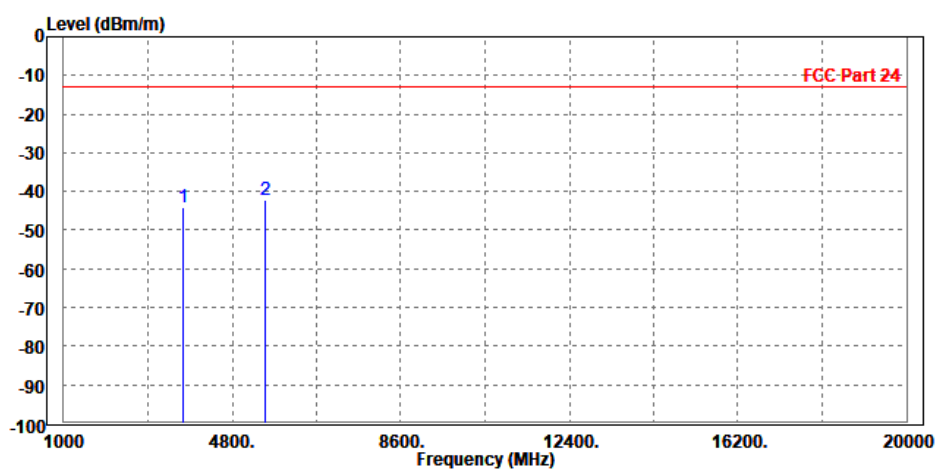
N2

CHANNEL BANDWIDTH: 5MHz / QPSK

CH 370500:

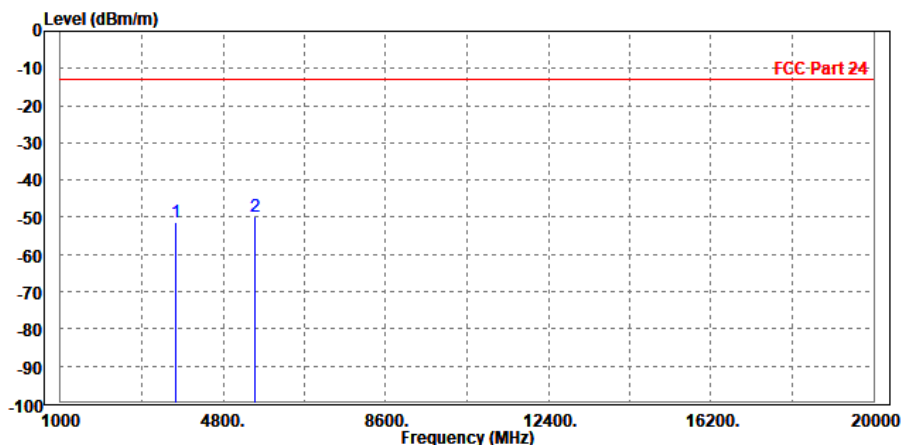
MODE	TX channel 370500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3698.000	-44.00	-51.83	-13.00	-31.00	7.83	Peak	Horizontal
2 PP	5557.500	-42.23	-52.81	-13.00	-29.23	10.58	Peak	Horizontal



MODE	TX channel 370500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3705.000	-51.20	-58.82	-13.00	-38.20	7.62	Peak	Vertical
2 PP	5560.000	-49.62	-60.52	-13.00	-36.62	10.90	Peak	Vertical



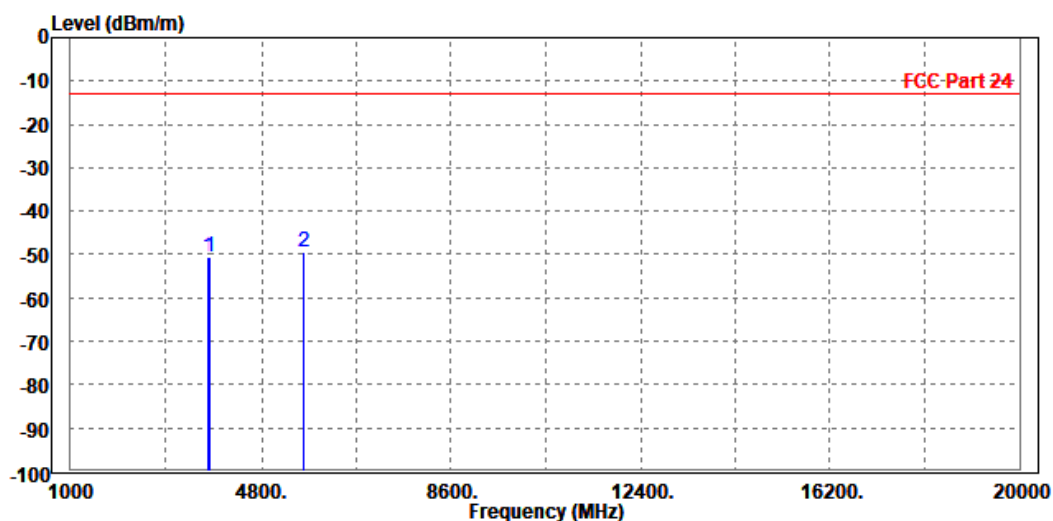


Test Report No.: PSU-QSU2306120115RF10

CH 376000:

MODE	TX channel 376000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-50.62	-58.61	-13.00	-37.62	7.99	Peak	Horizontal
2 PP	5636.000	-49.37	-60.10	-13.00	-36.37	10.73	Peak	Horizontal

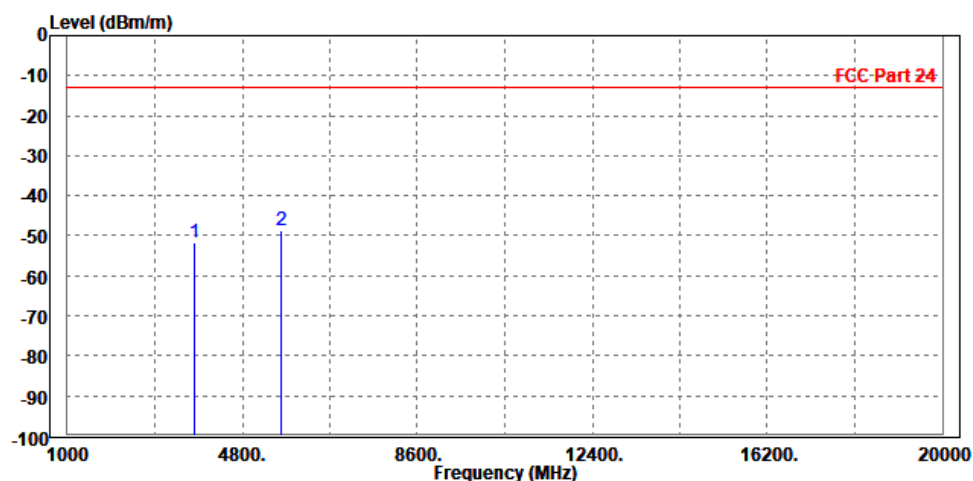




Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 376000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-51.88	-59.57	-13.00	-38.88	7.69	Peak	Vertical
2 PP	5640.000	-48.81	-59.94	-13.00	-35.81	11.13	Peak	Vertical



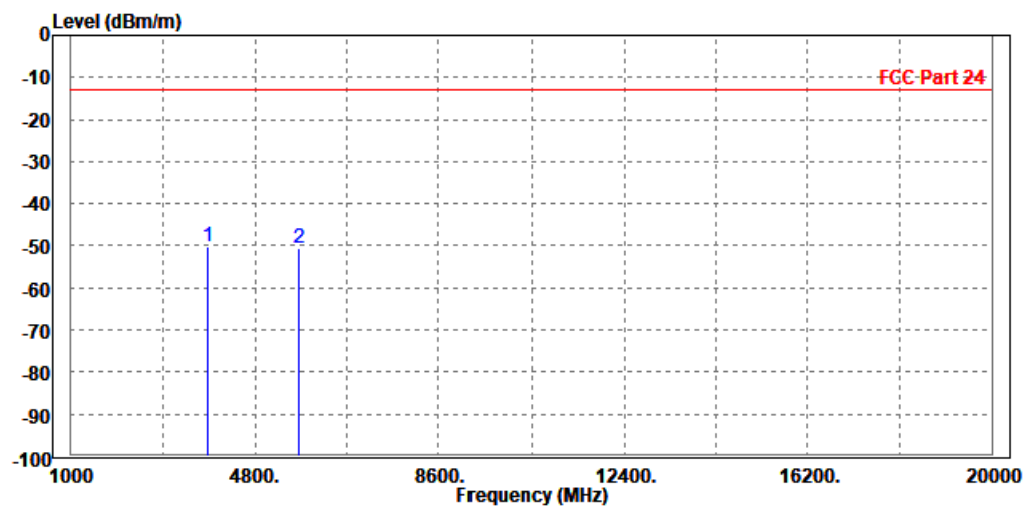


Test Report No.: PSU-QSU2306120115RF10

CH 381500:

MODE	TX channel 381500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3815.000	-50.11	-58.24	-13.00	-37.11	8.13	Peak	Horizontal
2		5712.000	-50.43	-61.31	-13.00	-37.43	10.88	Peak	Horizontal

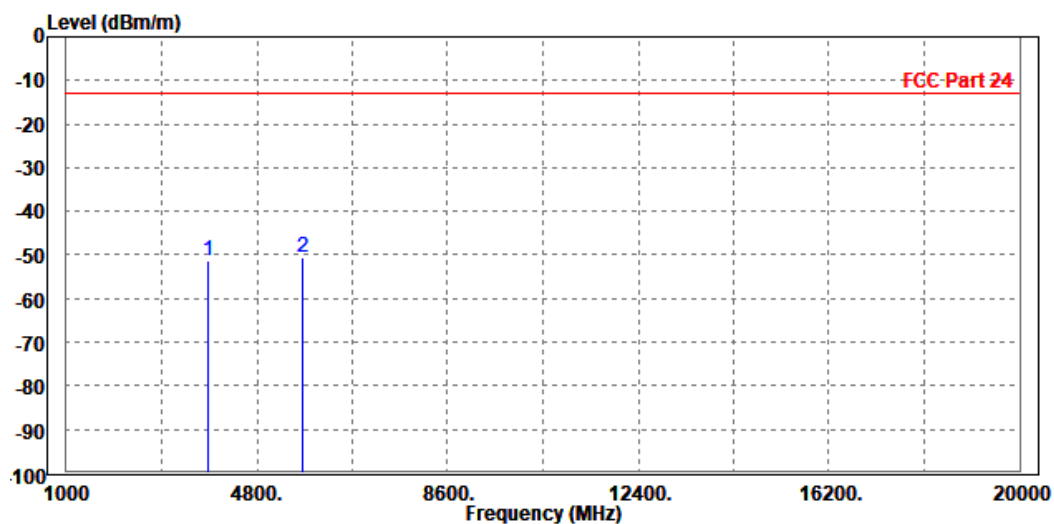




Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 381500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-51.20	-58.97	-13.00	-38.20	7.77	Peak	Vertical
2 PP	5721.000	-50.50	-61.86	-13.00	-37.50	11.36	Peak	Vertical



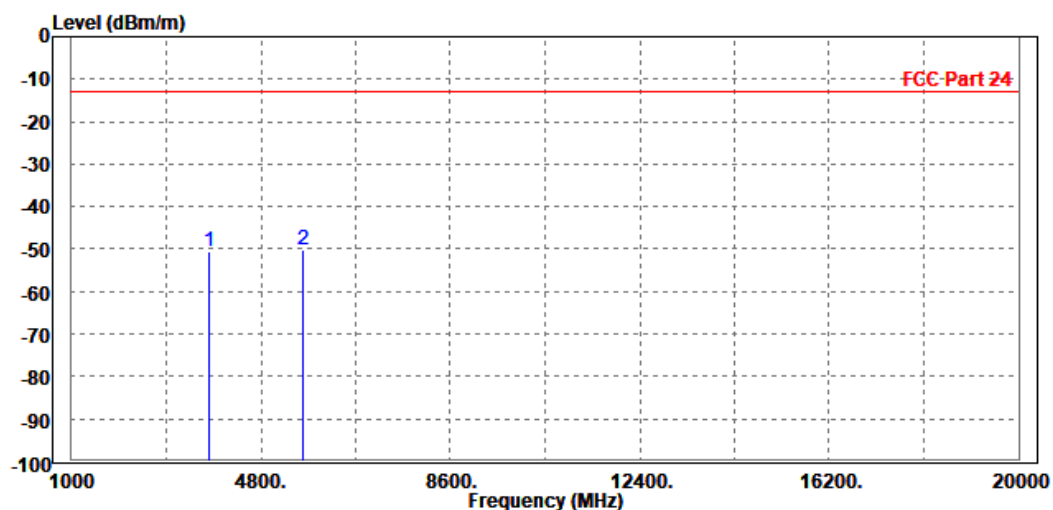


Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 10MHz / QPSK

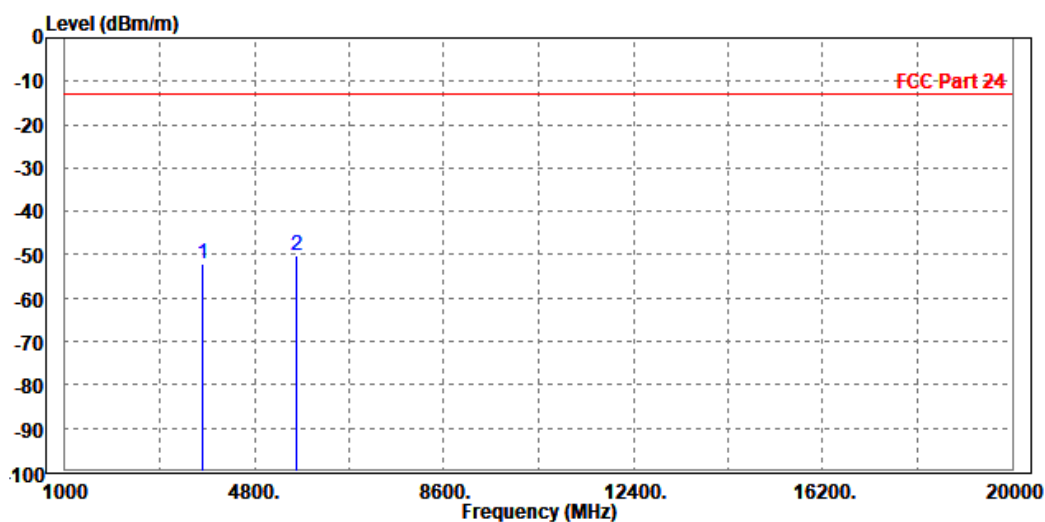
MODE	TX channel 376000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-50.53	-58.51	-13.00	-37.53	7.98	Peak	Horizontal
2 PP	5640.000	-50.07	-60.81	-13.00	-37.07	10.74	Peak	Horizontal



MODE	TX channel 376000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-51.98	-59.68	-13.00	-38.98	7.70	Peak	Vertical
2 PP	5636.000	-50.28	-61.40	-13.00	-37.28	11.12	Peak	Vertical



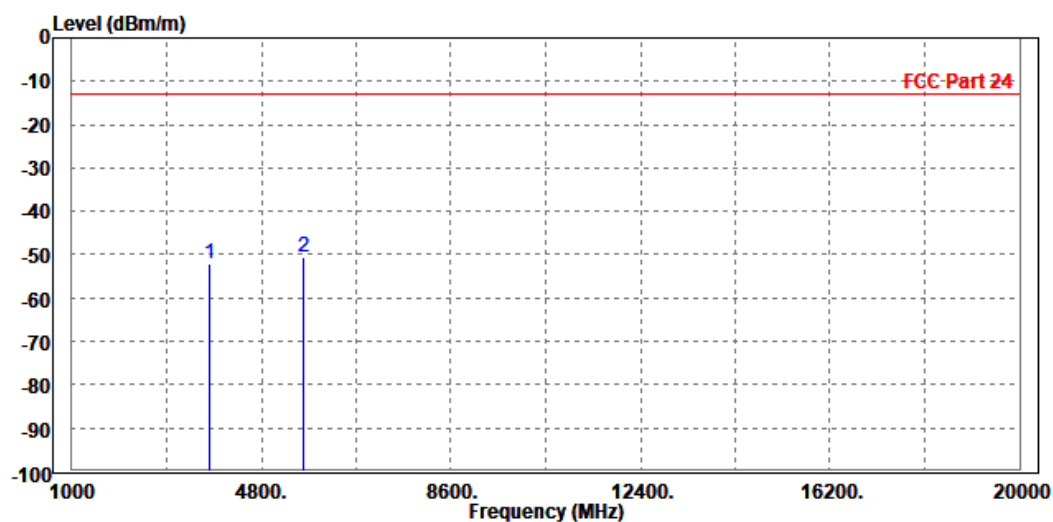


Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 376000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC12V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-51.91	-59.90	-13.00	-38.91	7.99	Peak	Horizontal
2 PP	5636.000	-50.38	-61.11	-13.00	-37.38	10.73	Peak	Horizontal



MODE	TX channel 376000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-51.85	-59.54	-13.00	-38.85	7.69	Peak	Vertical
2 PP	5640.000	-49.27	-60.40	-13.00	-36.27	11.13	Peak	Vertical

