



BUREAU VERITAS

Test Report No.: PSZ-QBJ2501200112RF07



FCC TEST REPORT (PART 96)

Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Product:	Mobile Phone
Brand Name:	POCO
Model Name:	25053PC47G
FCC ID:	2AFZZPC47G
Date of tests:	Feb. 13, 2025-Mar. 26, 2025

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

47 CFR FCC Part 96

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

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
Date: Mar. 26, 2025	Date: Mar. 26, 2025

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Test Report No.: PSZ-QBJ2501200112RF07

RELEASE CONTROL RECORD

ISSUE NO.	DESCRIPTION	DATE ISSUED
PSZ-QBJ2501200112RF07	Original release	Mar. 26, 2025

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1 SUMMARY OF TEST RESULTS

47 CFR FCC PART 96		
FCC CLAUSE	TEST ITEM	RESULT
2.1046 96.41(b)	Maximum Peak Output Power and Maximum EIRP	Compliance
2.1046 96.41(e)	Conducted Band Edge	Compliance
2.1049	Occupied Bandwidth	Compliance
2.1055	Frequency Stability	Compliance
2.1051 96.41(e)	Conducted Spurious Emissions	Compliance
2.1053 96.41(e)	Radiated Spurious Emissions	Compliance
96.41(g)	Peak-to-Average Power Ratio	Compliance

Note:

Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.



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
Maximum Peak Output Power	±2.06dB
Frequency Stability	±76.97Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions (30MHz~1GHz)	±4.98dB
Radiated emissions (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Band Edge Measurements	±4.70dB
Peak to average ratio	±0.76dB

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.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.29,24	Aug.28,26
Pre-Amplifier	R&S	SCU08F1	101028	Sep.15,24	Sep.14,26
Vector Signal Generator	R&S	SMBV100B	102176	Feb.15,24	Feb.14,26
Signal Generator	R&S	SMB100A	182185	Feb.15,24	Feb.14,26
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.24,24	Feb.23,26
EMI TEST Receiver	R&S	ESW44	101973	Feb.24,24	Feb.23,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.27,24	Feb.26,26
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.21,24	Aug.20,26
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.22,24	Feb.21,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.21,24	Aug.20,26
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.22,24	Feb.21,26
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.26,24	Jun.25,26
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	Sep.30,24	Sep.39,26
DC Source	HYELEC	HY3010B	551016	Aug.30,24	Aug.29,26
Hygrothermograph	DELI	20210528	SZ014	Sep.05,24	Sep.04,26
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	Apr.26,24	Oct.25,25
CABLE	R&S	W12.14	N/A	Apr.26,24	Oct.25,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.26,24	Oct.25,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.26,24	Oct.25,25
Temperature Chamber	votsch	VT4002	58566078100050	May.30,24	May.29,26

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*	Mobile Phone	
BRAND NAME*	POCO	
MODEL NAME*	25053PC47G	
NOMINAL VOLTAGE*	5/3.6-20V dc (adapter or host equipment) 3.93Vdc (Li-ion, battery)	
MODULATION TECHNOLOGY*	LTE	QPSK, 16QAM, 64QAM, 256QAM
FREQUENCY RANGE	LTE Band 42 Channel Bandwidth: 5MHz	3552.5 MHz ~ 3597.5MHz
	LTE Band 42 Channel Bandwidth: 10MHz	3555MHz ~ 3595MHz
	LTE Band 42 Channel Bandwidth: 15MHz	3557.5MHz ~ 3592.5MHz
	LTE Band 42 Channel Bandwidth: 20MHz	3560MHz ~ 3590MHz
	LTE Band 48 Channel Bandwidth: 5MHz	3552.5MHz ~ 3697.5MHz
	LTE Band 48 Channel Bandwidth: 10MHz	3555MHz ~ 3695MHz
	LTE Band 48 Channel Bandwidth: 15MHz	3557.5MHz ~ 3692.5MHz
	LTE Band 48 Channel Bandwidth: 20MHz	3560MHz ~ 3690MHz
EMISSION DESIGNATOR	LTE Band 48 Channel Bandwidth: 5MHz	QPSK: 4M50G7D 16QAM: 4M48W7D
	LTE Band 48 Channel Bandwidth: 10MHz	QPSK: 8M96G7D 16QAM: 8M97W7D
	LTE Band 48 Channel Bandwidth: 15MHz	QPSK: 13M5G7D 16QAM: 13M5W7D
	LTE Band 48 Channel Bandwidth: 20MHz	QPSK: 17M9G7D 16QAM: 17M9W7D
MAX. EIRP POWER	LTE Band 42 Channel Bandwidth: 5MHz	315.50mW
	LTE Band 42 Channel Bandwidth: 10MHz	317.69mW
	LTE Band 42 Channel Bandwidth: 15MHz	224.34mW
	LTE Band 42 Channel Bandwidth: 20MHz	328.10mW
	LTE Band 48 Channel Bandwidth: 5MHz	194.98mW
	LTE Band 48 Channel Bandwidth: 10MHz	194.54mW



	LTE Band 48 Channel Bandwidth: 15MHz	194.09mW	
	LTE Band 48 Channel Bandwidth: 20MHz	199.07mW	
ANTENNA GAIN*	LTE BAND42	ANT1	-0.73dBi
		ANT2	-1.2dBi
		ANT3	0.98dBi
		ANT7	-1.9dBi
	LTE BAND48	ANT1	-1.48dBi
		ANT2	-1.72dBi
		ANT3	0.98dBi
		ANT7	-1.4dBi
ANTENNA TYPE*	PIFA		
HW VERSION*	13510O10U		
SW VERSION*	Xiaomi HyperOS 2.0		
I/O PORTS*	Refer to user's manual		
DATA CABLE*	USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter		
EXTREME TEMPERATURE*	0°C-40°C		
EXTREME VOLTAGE*	3.8V-4.3V		

NOTE:

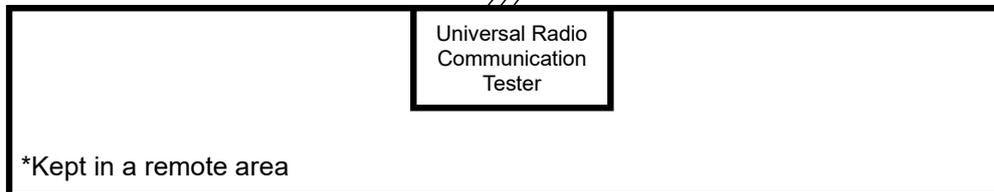
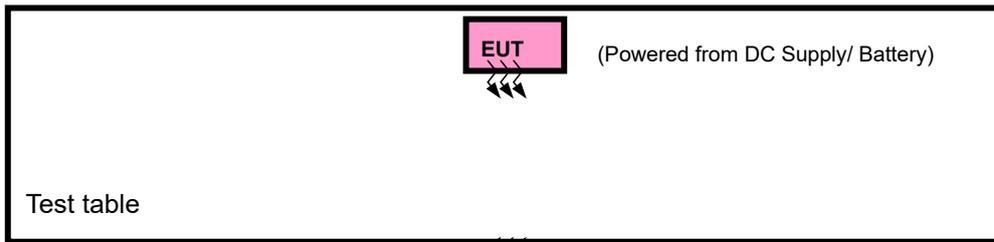
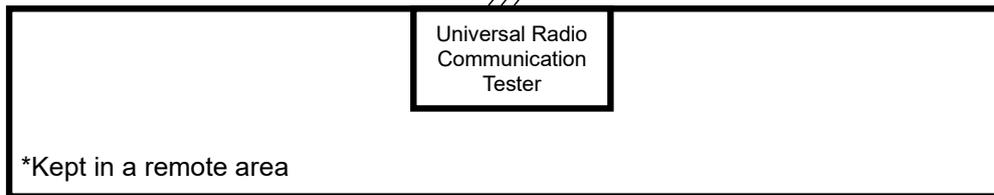
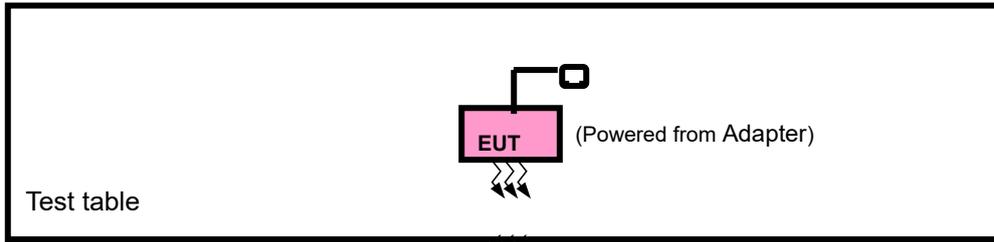
- *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- 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 four completed transmitter and four receiver.

MODULATION MODE	TX FUNCTION
LTE	4TX/4RX

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



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

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter
2	USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter

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 LTE link
B	EUT + DC Supply with LTE link



LTE band 42						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	43115 to 43565	43115 (3552.5MHz), 43340 (3575.0MHz), 43565 (3597.5MHz)	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset
		43140 to 43540	43140 (3555.0MHz), 43340 (3575.0MHz), 43540 (3595.0MHz)	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset
		43165 to 43515	43165 (3557.50MHz), 43340 (3575.0MHz), 43515 (3592.5MHz)	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset
		43190 to 43490	43190 (3560.0MHz), 43340 (3575.0MHz), 43490 (3590.0MHz)	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. LTE Band 42 are covered by LTE Band 48, Because it is a subset of LTE Band 48 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 48

LTE BAND 48 MODE						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	55265 to 56715	55265, 55990, 56715	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset
		55290 to 56690	55290, 55990, 56690	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset
		55315 to 56665	55315, 55990, 56665	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset
		55340 to 56640	55340, 55990, 56640	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	55340 to 56640	55340, 55990, 56640	20MHz	QPSK	1 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	55265 to 56715	55265, 55990, 56715	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		55290 to 56690	55290, 55990, 56690	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		55315 to 56665	55315, 55990, 56665	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		55340 to 56640	55340, 55990, 56640	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	55340 to 56640	55340, 55990, 56640	20MHz	QPSK	1 RB / 0 RB Offset 100 RB / 0 RB Offset



A	BAND EDGE	55265 to 56715	55265	5MHz	QPSK	1 RB / 0 RB Offset		
				56715	5MHz	QPSK	25 RB / 0 RB Offset	
		55290 to 56690	55290	10MHz	QPSK	1 RB / 24 RB Offset		
				56690	10MHz	QPSK	25 RB / 0 RB Offset	
		55315 to 56665	55315	15MHz	QPSK	1 RB / 0 RB Offset		
				56665	15MHz	QPSK	75 RB / 0 RB Offset	
		55340 to 56640	55340	20MHz	QPSK	1 RB / 74 RB Offset		
				56640	20MHz	QPSK	75 RB / 0 RB Offset	
		A	CONDCUETED EMISSION	55265 to 56715	55265, 55990, 56715	5MHz	QPSK	1 RB / 0 RB Offset
				55290 to 56690	55290, 55990, 56690	10MHz	QPSK	1 RB / 0RB Offset
				55315 to 56665	55315, 55990, 56665	15MHz	QPSK	1 RB / 0 RB Offset
				55340 to 56640	55340, 55990, 56640	20MHz	QPSK	1 RB / 0 RB Offset
A	RADIATED EMISSION	55265 to 56715	55990	5MHz	QPSK	1 RB / 0 RB Offset		
		55290 to 56690	55990	10MHz	QPSK	1 RB / 0RB Offset		
		55315 to 56665	55315,55990,56665	15MHz	QPSK	1 RB / 0 RB Offset		
		55340 to 56640	55990	20MHz	QPSK	1 RB / 0 RB Offset		
A	ACLR	55265 to 56715	55265	5MHz	QPSK,16QAM	1 RB / 0 RB Offset		
				56715	5MHz	QPSK,16QAM	25 RB / 0 RB Offset	
		55290 to 56690	55290	10MHz	QPSK,16QAM	1 RB / 24 RB Offset		
				55290	10MHz	QPSK,16QAM	25 RB / 0 RB Offset	
							1 RB / 0 RB Offset	
							50 RB / 0 RB Offset	



			56690	10MHz	QPSK,16QAM	1 RB / 49 RB Offset
						50 RB / 0 RB Offset
		55315 to 56665	55315	15MHz	QPSK,16QAM	1 RB / 0 RB Offset
						75 RB / 0 RB Offset
		55340 to 56640	56665	15MHz	QPSK,16QAM	1 RB / 74 RB Offset
						75 RB / 0 RB Offset
		55340 to 56640	55340	20MHz	QPSK,16QAM	1 RB / 0 RB Offset
						100 RB / 0 RB Offset
	56640	20MHz	QPSK,16QAM	1 RB / 99 RB Offset		
				100 RB / 0 RB Offset		

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

TEST CONDITION			
TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP&EIRP	23deg. C, 70%RH	DC 3.93V By Battery	Hanwen Xu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.93V By Battery	Hanwen Xu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 3.93V By Battery	Hanwen Xu
BAND EDGE	23deg. C, 70%RH	DC 3.93V By Battery	Hanwen Xu
ADJACENT CHANNEL LEAKAGE RATIO	23deg. C, 70%RH	DC 3.93V By Battery	Hanwen Xu
CONDCUDED EMISSION	23deg. C, 70%RH	DC 3.93V By Battery	Hanwen Xu
RADIATED EMISSION	23deg. C, 70%RH	AC120V/60Hz	Hanwen Xu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 3.93V By Battery	Hanwen Xu



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 96

KDB 971168 D02 Power Meas License Digital Systems v02r02

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

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



3 TEST TYPES AND RESULTS

3.1 MAXIMUM EIRP MEASUREMENT

3.1.1 LIMITS OF MAXIMUM EIRP MEASUREMENT

Device	Maximum EIRP (dBm/10 MHz)
End User Device	23
Category A CBSD	30
Category B CBSD	47

3.1.2 TEST SETUP

CONDUCTED POWER MEASUREMENT:



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



3.1.3 TEST PROCEDURES

EIRP 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:

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

Note: The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths (i.e., 5, 10, 15, 20MHz).

3.1.4 DEVIATION FROM TEST STANDARD

No deviation.



3.1.5 TEST RESULTS

LTE BAND 48_ANT1

BW: 5M

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55265	55990	56715
		Frequency (MHz)		3552.5	3625	3697.5
5M	QPSK	1	0	20.98	20.84	20.95
		1	12	21.01	20.89	20.98
		1	24	21.06	20.95	20.88
		12	0	20	20.05	19.96
		12	6	20.09	19.99	20.05
		12	13	20.11	20.07	20.09
		25	0	20.1	20.07	20.08
	16QAM	1	0	19.81	19.71	19.79
		1	12	19.69	19.75	19.78
		1	24	19.73	19.63	19.61
		12	0	18.63	18.61	18.68
		12	6	18.86	18.8	18.9
		12	13	18.89	18.86	18.77
		25	0	18.61	18.73	18.73
	64QAM	1	0	18.65	18.71	18.68
		1	12	18.8	18.88	18.8
		1	24	18.69	18.78	18.75
		12	0	17.65	17.63	17.68
		12	6	17.79	17.79	17.77
		12	13	17.95	17.7	17.81
		25	0	17.91	17.79	17.78
	256QAM	1	0	15.5	15.5	15.43
		1	12	15.76	15.77	15.69
		1	24	15.66	15.73	15.61
		12	0	15.71	15.88	15.66
		12	6	15.9	15.89	15.83
		12	13	15.78	15.75	15.86
		25	0	15.87	15.81	15.81



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55290	55990	56690
		Frequency (MHz)		3555	3625	3695
10M	QPSK	1	0	21.07	20.88	21.02
		1	24	20.95	20.94	20.97
		1	49	21.07	20.94	20.86
		25	0	20.08	20.03	19.94
		25	12	20.1	20	20.08
		25	25	20.13	20.08	20.15
		50	0	20.21	20	20.03
	16QAM	1	0	19.82	19.67	19.76
		1	24	19.75	19.7	19.86
		1	49	19.67	19.75	19.62
		25	0	18.71	18.68	18.63
		25	12	18.79	18.8	18.91
		25	25	18.86	18.86	18.75
		50	0	18.72	18.71	18.79
	64QAM	1	0	18.75	18.74	18.62
		1	24	18.81	18.8	18.73
		1	49	18.76	18.79	18.73
		25	0	17.73	17.64	17.69
		25	12	17.75	17.85	17.76
		25	25	17.93	17.79	17.88
		50	0	17.88	17.75	17.67
	256QAM	1	0	15.45	15.47	15.44
		1	24	15.76	15.66	15.77
		1	49	15.71	15.73	15.67
		25	0	15.72	15.85	15.62
		25	12	15.9	15.87	15.89
		25	25	15.79	15.85	15.76
		50	0	15.84	15.85	15.83



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55315	55990	56665
		Frequency (MHz)		3557.5	3625	3692.5
15M	QPSK	1	0	21.04	20.93	21.01
		1	37	21.06	20.93	20.93
		1	74	21.03	20.95	20.94
		36	0	20.12	20.05	19.98
		36	19	20.15	20.08	20.13
		36	39	20.14	20.04	20.07
		75	0	20.18	20.07	20.08
	16QAM	1	0	19.83	19.68	19.76
		1	37	19.74	19.73	19.73
		1	74	19.65	19.65	19.68
		36	0	18.6	18.57	18.67
		36	19	18.84	18.86	18.89
		36	39	18.79	18.8	18.78
		75	0	18.74	18.75	18.8
	64QAM	1	0	18.77	18.73	18.66
		1	37	18.84	18.91	18.84
		1	74	18.71	18.85	18.69
		36	0	17.7	17.74	17.66
		36	19	17.85	17.79	17.72
		36	39	17.81	17.67	17.85
		75	0	17.82	17.7	17.71
	256QAM	1	0	15.57	15.57	15.44
		1	37	15.63	15.65	15.74
		1	74	15.67	15.65	15.65
		36	0	15.69	15.79	15.73
		36	19	15.87	15.88	15.82
		36	39	15.82	15.86	15.83
		75	0	15.9	15.82	15.78



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55340	55990	56640
		Frequency (MHz)		3560	3625	3690
20M	QPSK	1	0	21.13	20.95	21.08
		1	50	21.1	20.93	21.04
		1	99	21.08	21	20.98
		50	0	20.15	20.02	20.07
		50	25	20.19	20.11	20.14
		50	50	20.23	20.09	20.21
		100	0	20.22	20.06	20.18
	16QAM	1	0	19.87	19.79	19.82
		1	50	19.84	19.82	19.88
		1	99	19.77	19.74	19.71
		50	0	18.75	18.79	18.78
		50	25	18.9	18.93	18.97
		50	50	18.9	18.88	18.87
		100	0	18.76	18.85	18.82
	64QAM	1	0	18.78	18.78	18.73
		1	50	18.9	18.89	18.88
		1	99	18.81	18.87	18.81
		50	0	17.75	17.78	17.81
		50	25	17.88	17.96	17.87
		50	50	17.96	17.96	17.91
		100	0	17.92	17.89	17.82
	256QAM	1	0	15.59	15.58	15.58
		1	50	15.78	15.72	15.84
		1	99	15.75	15.75	15.7
		50	0	15.82	15.88	15.76
		50	25	15.92	15.89	15.94
		50	50	15.88	15.88	15.91
		100	0	15.95	15.97	15.89



LTE BAND 48_ANT2

BW: 5M

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55265	55990	56715
		Frequency (MHz)		3552.5	3625	3697.5
5M	QPSK	1	0	22.64	22.65	22.68
		1	12	22.61	22.67	22.62
		1	24	22.61	22.67	22.54
		12	0	21.85	21.58	21.69
		12	6	21.79	21.82	21.74
		12	13	21.85	21.81	21.72
		25	0	21.77	21.68	21.78
	16QAM	1	0	21.71	21.65	21.58
		1	12	21.7	21.62	21.71
		1	24	21.79	21.72	21.75
		12	0	20.86	20.71	20.75
		12	6	20.77	20.69	20.62
		12	13	20.81	20.84	20.76
		25	0	20.74	20.78	20.66
	64QAM	1	0	20.63	20.7	20.71
		1	12	20.76	20.63	20.64
		1	24	20.69	20.58	20.49
		12	0	19.79	19.68	19.72
		12	6	19.82	19.75	19.77
		12	13	19.84	19.81	19.8
		25	0	19.79	19.64	19.67
	256QAM	1	0	17.81	17.62	17.66
		1	12	17.76	17.74	17.8
		1	24	17.74	17.65	17.63
		12	0	17.87	17.68	17.72
		12	6	17.87	17.78	17.84
		12	13	17.88	17.79	17.85
		25	0	17.9	17.75	17.76



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55290	55990	56690
		Frequency (MHz)		3555	3625	3695
10M	QPSK	1	0	22.69	22.57	22.63
		1	24	22.75	22.71	22.61
		1	49	22.68	22.62	22.58
		25	0	21.72	21.67	21.59
		25	12	21.83	21.78	21.83
		25	25	21.87	21.76	21.82
		50	0	21.84	21.78	21.79
	16QAM	1	0	21.7	21.57	21.58
		1	24	21.71	21.66	21.71
		1	49	21.81	21.67	21.73
		25	0	20.8	20.74	20.61
		25	12	20.8	20.72	20.68
		25	25	20.78	20.76	20.75
		50	0	20.78	20.66	20.66
	64QAM	1	0	20.62	20.7	20.59
		1	24	20.72	20.67	20.77
		1	49	20.69	20.47	20.57
		25	0	19.74	19.67	19.76
		25	12	19.83	19.8	19.79
		25	25	19.88	19.86	19.74
		50	0	19.76	19.64	19.73
	256QAM	1	0	17.77	17.65	17.7
		1	24	17.69	17.81	17.68
		1	49	17.74	17.59	17.7
		25	0	17.93	17.75	17.8
		25	12	17.79	17.85	17.83
		25	25	17.8	17.9	17.77
		50	0	17.85	17.76	17.83



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55315	55990	56665
		Frequency (MHz)		3557.5	3625	3692.5
15M	QPSK	1	0	22.56	22.59	22.64
		1	37	22.74	22.65	22.72
		1	74	22.64	22.5	22.66
		36	0	21.74	21.69	21.7
		36	19	21.92	21.8	21.78
		36	39	21.86	21.73	21.75
		75	0	21.82	21.69	21.74
	16QAM	1	0	21.74	21.56	21.64
		1	37	21.68	21.65	21.66
		1	74	21.69	21.67	21.62
		36	0	20.78	20.65	20.72
		36	19	20.8	20.73	20.76
		36	39	20.92	20.79	20.72
		75	0	20.72	20.68	20.65
	64QAM	1	0	20.63	20.65	20.64
		1	37	20.72	20.6	20.67
		1	74	20.61	20.5	20.55
		36	0	19.73	19.73	19.75
		36	19	19.9	19.64	19.71
		36	39	19.84	19.78	19.77
		75	0	19.78	19.76	19.62
	256QAM	1	0	17.82	17.67	17.63
		1	37	17.78	17.63	17.73
		1	74	17.74	17.7	17.62
		36	0	17.85	17.79	17.72
		36	19	17.76	17.82	17.82
		36	39	17.92	17.74	17.87
		75	0	17.77	17.84	17.75



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55340	55990	56640
		Frequency (MHz)		3560	3625	3690
20M	QPSK	1	0	22.71	22.68	22.7
		1	50	22.76	22.69	22.73
		1	99	22.74	22.5	22.69
		50	0	21.87	21.6	21.72
		50	25	21.93	21.73	21.88
		50	50	21.9	21.68	21.85
		100	0	21.89	21.64	21.83
	16QAM	1	0	21.77	21.69	21.68
		1	50	21.79	21.68	21.77
		1	99	21.83	21.68	21.76
		50	0	20.89	20.82	20.76
		50	25	20.92	20.81	20.77
		50	50	20.93	20.91	20.86
		100	0	20.87	20.78	20.79
	64QAM	1	0	20.77	20.68	20.72
		1	50	20.83	20.79	20.78
		1	99	20.75	20.64	20.62
		50	0	19.88	19.86	19.8
		50	25	19.93	19.81	19.85
		50	50	19.91	19.82	19.88
		100	0	19.89	19.87	19.75
	256QAM	1	0	17.83	17.82	17.76
		1	50	17.84	17.71	17.82
		1	99	17.81	17.67	17.74
		50	0	17.94	17.88	17.83
		50	25	17.91	17.81	17.9
		50	50	17.93	17.89	17.91
		100	0	17.92	17.9	17.9



LTE BAND 48_ANT3

BW: 5M

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55265	55990	56715
		Frequency (MHz)		3552.5	3625	3697.5
5M	QPSK	1	0	21.84	21.83	21.83
		1	12	21.78	21.83	21.92
		1	24	21.69	21.68	21.87
		12	0	20.99	20.99	21.06
		12	6	21	21.01	21.15
		12	13	20.92	20.88	20.92
		25	0	20.83	20.91	20.96
	16QAM	1	0	20.91	20.94	21.12
		1	12	20.89	20.98	21.07
		1	24	20.95	20.91	20.88
		12	0	19.97	19.99	20.03
		12	6	19.91	19.9	20
		12	13	19.89	19.98	20.07
		25	0	19.96	19.95	20.1
	64QAM	1	0	20.17	20.17	20.18
		1	12	20.09	20.17	20.22
		1	24	20.06	20.05	19.91
		12	0	18.97	19	19.02
		12	6	19.03	18.96	19.07
		12	13	18.93	18.97	19.06
		25	0	19	18.95	19.09
	256QAM	1	0	17.24	17.15	17.34
		1	12	17.24	17.16	17.33
		1	24	17.21	17.22	17.05
		12	0	17.15	17.23	17.36
		12	6	17.34	17.28	17.44
		12	13	17.44	17.41	17.4
		25	0	17.35	17.29	17.3



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55290	55990	56690
		Frequency (MHz)		3555	3625	3695
10M	QPSK	1	0	21.8	21.74	21.84
		1	24	21.81	21.91	21.88
		1	49	21.72	21.69	21.82
		25	0	20.88	21	20.96
		25	12	20.95	20.97	21.17
		25	25	20.88	20.93	20.96
		50	0	20.92	20.87	21.07
	16QAM	1	0	20.93	20.9	21.07
		1	24	20.95	20.94	21.05
		1	49	20.91	20.93	20.92
		25	0	20.01	20.01	19.97
		25	12	19.93	19.97	20.09
		25	25	19.98	19.92	20.09
		50	0	20.02	20	20.22
	64QAM	1	0	20.05	20.17	20.07
		1	24	20.16	20.13	20.17
		1	49	20.07	20.07	19.91
		25	0	18.96	18.98	19.09
		25	12	18.92	18.91	19.08
		25	25	19.03	18.96	19.02
		50	0	18.97	18.92	19.05
	256QAM	1	0	17.12	17.15	17.32
		1	24	17.11	17.22	17.36
		1	49	17.13	17.26	17.08
		25	0	17.14	17.25	17.29
		25	12	17.35	17.39	17.52
		25	25	17.38	17.46	17.45
		50	0	17.27	17.28	17.28



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55315	55990	56665
		Frequency (MHz)		3557.5	3625	3692.5
15M	QPSK	1	0	21.87	21.65	21.84
		1	37	21.79	21.78	21.89
		1	74	21.71	21.67	21.9
		36	0	21.01	20.68	21.03
		36	19	20.99	20.94	21.06
		36	39	20.89	20.71	20.92
		75	0	20.92	20.73	21.08
	16QAM	1	0	20.82	20.73	21.12
		1	37	20.88	20.84	20.97
		1	74	21.05	20.85	20.94
		36	0	19.94	19.97	20.02
		36	19	19.87	19.81	19.99
		36	39	19.96	19.82	20.11
		75	0	20.03	19.79	20.21
	64QAM	1	0	20.06	19.91	20.17
		1	37	20.08	19.99	20.17
		1	74	20.11	19.82	19.89
		36	0	19.01	18.9	19.12
		36	19	18.99	18.73	19.01
		36	39	18.89	18.82	19.06
		75	0	18.96	18.86	19.02
	256QAM	1	0	17.2	17.18	17.37
		1	37	17.21	17.11	17.3
		1	74	17.25	17.06	17.07
		36	0	17.14	17.19	17.36
		36	19	17.37	17.27	17.52
		36	39	17.41	17.17	17.43
		75	0	17.29	17.34	17.36



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55340	55990	56640
		Frequency (MHz)		3560	3625	3690
20M	QPSK	1	0	21.88	21.62	21.93
		1	50	21.93	21.94	22.01
		1	99	21.79	21.58	21.95
		50	0	21.02	20.78	21.08
		50	25	21.06	20.89	21.19
		50	50	20.97	20.75	21.07
		100	0	20.94	20.76	21.1
	16QAM	1	0	20.96	20.7	21.14
		1	50	21.01	20.9	21.08
		1	99	21.06	20.65	21
		50	0	20.03	19.81	20.07
		50	25	20.01	19.9	20.12
		50	50	19.99	19.77	20.19
		100	0	20.04	19.85	20.24
	64QAM	1	0	20.2	19.93	20.21
		1	50	20.19	19.77	20.26
		1	99	20.12	19.93	20.02
		50	0	19.05	18.9	19.14
		50	25	19.06	18.84	19.11
		50	50	19.04	18.87	19.11
		100	0	19.01	18.79	19.1
	256QAM	1	0	17.25	16.98	17.39
		1	50	17.26	17.17	17.38
		1	99	17.28	17.21	17.19
		50	0	17.27	17.08	17.37
		50	25	17.42	17.22	17.58
		50	50	17.53	17.06	17.47
		100	0	17.37	17.4	17.41



LTE BAND 48_ANT7

BW: 5M

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55265	55990	56715
		Frequency (MHz)		3552.5	3625	3697.5
5M	QPSK	1	0	20.55	20.42	20.35
		1	12	20.59	20.47	20.45
		1	24	20.47	20.36	20.31
		12	0	19.69	19.53	19.52
		12	6	19.66	19.58	19.56
		12	13	19.64	19.51	19.48
		25	0	19.72	19.68	19.46
	16QAM	1	0	19.53	19.47	19.35
		1	12	19.52	19.42	19.34
		1	24	19.65	19.38	19.41
		12	0	18.61	18.52	18.45
		12	6	18.67	18.56	18.68
		12	13	18.64	18.66	18.61
		25	0	18.66	18.67	18.48
	64QAM	1	0	18.57	18.54	18.53
		1	12	18.51	18.53	18.46
		1	24	18.468	18.428	18.4
		12	0	17.5	17.34	17.45
		12	6	17.48	17.43	17.58
		12	13	17.49	17.51	17.59
		25	0	17.6	17.6	17.52
	256QAM	1	0	15.59	15.41	15.39
		1	12	15.61	15.5	15.58
		1	24	15.37	15.34	15.41
		12	0	15.5	15.38	15.5
		12	6	15.56	15.43	15.57
		12	13	15.63	15.58	15.62
		25	0	15.74	15.68	15.51



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55290	55990	56690
		Frequency (MHz)		3555	3625	3695
10M	QPSK	1	0	20.56	20.4	20.36
		1	24	20.6	20.55	20.46
		1	49	20.56	20.4	20.28
		25	0	19.64	19.5	19.47
		25	12	19.73	19.65	19.54
		25	25	19.69	19.52	19.56
		50	0	19.71	19.64	19.44
	16QAM	1	0	19.58	19.34	19.34
		1	24	19.48	19.38	19.36
		1	49	19.64	19.43	19.46
		25	0	18.66	18.48	18.47
		25	12	18.68	18.66	18.63
		25	25	18.73	18.67	18.57
		50	0	18.64	18.63	18.6
	64QAM	1	0	18.6	18.58	18.52
		1	24	18.5	18.41	18.55
		1	49	18.428	18.528	18.48
		25	0	17.45	17.37	17.32
		25	12	17.58	17.54	17.62
		25	25	17.47	17.52	17.58
		50	0	17.55	17.57	17.52
	256QAM	1	0	15.48	15.38	15.43
		1	24	15.55	15.5	15.56
		1	49	15.5	15.34	15.37
		25	0	15.52	15.37	15.42
		25	12	15.49	15.48	15.6
		25	25	15.6	15.61	15.56
		50	0	15.66	15.61	15.5



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55315	55990	56665
		Frequency (MHz)		3557.5	3625	3692.5
15M	QPSK	1	0	20.5	20.44	20.33
		1	37	20.68	20.49	20.32
		1	74	20.56	20.5	20.27
		36	0	19.68	19.61	19.55
		36	19	19.64	19.66	19.54
		36	39	19.57	19.59	19.6
		75	0	19.66	19.58	19.44
	16QAM	1	0	19.52	19.4	19.22
		1	37	19.59	19.48	19.38
		1	74	19.62	19.47	19.42
		36	0	18.64	18.53	18.39
		36	19	18.76	18.58	18.63
		36	39	18.73	18.66	18.52
		75	0	18.69	18.65	18.48
	64QAM	1	0	18.56	18.58	18.46
		1	37	18.6	18.51	18.48
		1	74	18.458	18.518	18.51
		36	0	17.47	17.27	17.44
		36	19	17.46	17.45	17.66
		36	39	17.48	17.46	17.57
		75	0	17.66	17.6	17.47
	256QAM	1	0	15.5	15.44	15.39
		1	37	15.53	15.4	15.45
		1	74	15.48	15.4	15.49
		36	0	15.41	15.34	15.48
		36	19	15.57	15.39	15.63
		36	39	15.6	15.62	15.64
		75	0	15.76	15.62	15.58



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		55340	55990	56640
		Frequency (MHz)		3560	3625	3690
20M	QPSK	1	0	20.65	20.52	20.45
		1	50	20.71	20.55	20.47
		1	99	20.61	20.54	20.39
		50	0	19.72	19.61	19.56
		50	25	19.78	19.73	19.64
		50	50	19.71	19.68	19.61
		100	0	19.81	19.67	19.48
	16QAM	1	0	19.61	19.5	19.37
		1	50	19.63	19.59	19.45
		1	99	19.66	19.61	19.52
		50	0	18.68	18.64	18.51
		50	25	18.77	18.72	18.7
		50	50	18.75	18.73	18.66
		100	0	18.76	18.7	18.62
	64QAM	1	0	18.69	18.64	18.54
		1	50	18.62	18.71	18.56
		1	99	18.548	18.638	18.54
		50	0	17.51	17.61	17.46
		50	25	17.6	17.74	17.67
		50	50	17.59	17.69	17.65
		100	0	17.69	17.67	17.62
	256QAM	1	0	15.62	15.58	15.48
		1	50	15.64	15.72	15.6
		1	99	15.51	15.65	15.5
		50	0	15.55	15.67	15.54
		50	25	15.6	15.74	15.65
		50	50	15.74	15.76	15.7
		100	0	15.77	15.72	15.62



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BW: 5M

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43115	43340	43565
		Frequency (MHz)		3552.5	3575	3597.5
5M	QPSK	1	0	22.28	22.33	22.24
		1	12	22.4	22.3	22.27
		1	24	22.28	22.27	22.34
		12	0	21.45	21.25	21.3
		12	6	21.52	21.27	21.4
		12	13	21.5	21.46	21.46
		25	0	21.4	21.38	21.3
	16QAM	1	0	21.47	21.4	21.41
		1	12	21.47	21.4	21.38
		1	24	21.63	21.68	21.61
		12	0	20.67	20.66	20.58
		12	6	20.72	20.63	20.72
		12	13	20.67	20.68	20.59
	64QAM	25	0	20.59	20.41	20.5
		1	0	20.65	20.66	20.53
		1	12	20.71	20.72	20.6
		1	24	20.75	20.78	20.68
		12	0	19.61	19.47	19.65
		12	6	19.62	19.58	19.54
		12	13	19.63	19.61	19.59
	256QAM	25	0	19.65	19.57	19.53
		1	0	17.36	17.28	17.38
		1	12	17.38	17.3	17.4
		1	24	17.48	17.42	17.41
		12	0	17.59	17.45	17.5
		12	6	17.68	17.53	17.62
		12	13	17.6	17.47	17.35
		25	0	17.58	17.49	17.5



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43140	43340	43540
		Frequency (MHz)		3555	3575	3595
10M	QPSK	1	0	22.31	22.17	22.09
		1	24	22.28	22.21	22.25
		1	49	22.14	22.23	22.19
		25	0	21.35	21.15	21.12
		25	12	21.37	21.14	21.23
		25	25	21.49	21.28	21.34
		50	0	21.44	21.3	21.37
	16QAM	1	0	21.51	21.21	21.38
		1	24	21.33	21.38	21.38
		1	49	21.51	21.46	21.54
		25	0	20.6	20.53	20.5
		25	12	20.64	20.52	20.63
		25	25	20.59	20.64	20.48
		50	0	20.63	20.32	20.4
	64QAM	1	0	20.66	20.58	20.48
		1	24	20.71	20.64	20.57
		1	49	20.7	20.7	20.71
		25	0	19.52	19.35	19.48
		25	12	19.55	19.38	19.48
		25	25	19.59	19.44	19.51
		50	0	19.48	19.54	19.39
	256QAM	1	0	17.19	17.25	17.18
		1	24	17.31	17.19	17.29
		1	49	17.54	17.45	17.44
		25	0	17.52	17.41	17.24
		25	12	17.56	17.53	17.5
		25	25	17.33	17.33	17.44
		50	0	17.41	17.44	17.33



BW: 15M

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43165	43340	43515
		Frequency (MHz)		3557.5	3575	3592.5
15M	QPSK	1	0	22.34	22.2	22.17
		1	37	22.43	22.32	22.22
		1	74	22.27	22.29	22.31
		36	0	21.34	21.25	21.23
		36	19	21.44	21.31	21.39
		36	39	21.55	21.44	21.44
		75	0	21.42	21.38	21.39
	16QAM	1	0	21.51	21.43	21.35
		1	37	21.58	21.46	21.39
		1	74	21.6	21.63	21.61
		36	0	20.75	20.56	20.62
		36	19	20.77	20.56	20.71
		36	39	20.68	20.68	20.56
		75	0	20.61	20.52	20.45
	64QAM	1	0	20.72	20.73	20.56
		1	37	20.78	20.75	20.57
		1	74	20.7	20.77	20.76
		36	0	19.56	19.55	19.52
		36	19	19.59	19.54	19.62
		36	39	19.73	19.54	19.56
		75	0	19.63	19.55	19.49
	256QAM	1	0	17.45	17.28	17.3
		1	37	17.48	17.35	17.33
		1	74	17.58	17.43	17.36
		36	0	17.63	17.51	17.43
		36	19	17.69	17.62	17.5
		36	39	17.6	17.45	17.38
		75	0	17.58	17.43	17.43



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43190	43340	43490
		Frequency (MHz)		3560	3575	3590
20M	QPSK	1	0	22.37	22.34	22.32
		1	50	22.47	22.42	22.37
		1	99	22.39	22.33	22.36
		50	0	21.46	21.35	21.37
		50	25	21.53	21.38	21.42
		50	50	21.6	21.48	21.47
		100	0	21.5	21.46	21.42
	16QAM	1	0	21.55	21.5	21.5
		1	50	21.59	21.49	21.48
		1	99	21.74	21.69	21.73
		50	0	20.8	20.67	20.65
		50	25	20.8	20.71	20.76
		50	50	20.77	20.75	20.64
		100	0	20.68	20.56	20.56
	64QAM	1	0	20.78	20.74	20.65
		1	50	20.82	20.77	20.71
		1	99	20.84	20.83	20.8
		50	0	19.7	19.56	19.67
		50	25	19.74	19.59	19.65
		50	50	19.75	19.66	19.65
		100	0	19.71	19.58	19.6
	256QAM	1	0	17.49	17.34	17.4
		1	50	17.52	17.44	17.45
		1	99	17.59	17.57	17.47
		50	0	17.67	17.57	17.52
		50	25	17.7	17.63	17.64
		50	50	17.63	17.48	17.49
		100	0	17.65	17.58	17.53



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BW: 5M

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43115	43340	43565
		Frequency (MHz)		3552.5	3575	3597.5
5M	QPSK	1	0	24.09	24.13	24.16
		1	12	24.2	24.17	24.19
		1	24	24.18	24.01	24.16
		12	0	23.15	23.26	23.28
		12	6	23.24	23.31	23.26
		12	13	23.33	23.38	23.3
		25	0	23.22	23.22	23.21
	16QAM	1	0	23.11	23.2	23.15
		1	12	23.26	23.27	23.28
		1	24	22.99	22.87	22.94
		12	0	22.16	22.17	22.19
		12	6	22.25	22.14	22.13
		12	13	22.1	22.24	22.26
		25	0	22.04	22.12	22.25
	64QAM	1	0	22.46	22.3	22.44
		1	12	22.4	22.34	22.47
		1	24	21.98	22.24	22.1
		12	0	21.24	21.17	21.32
		12	6	21.1	21.07	21.17
		12	13	21.24	21.21	21.34
		25	0	21.08	21.14	21.35
	256QAM	1	0	19.04	19.12	19.1
		1	12	19.2	19.15	19.32
		1	24	18.97	18.86	19.04
		12	0	19.28	19.23	19.17
		12	6	19.21	19.1	19.32
		12	13	19.06	19.23	19.23
		25	0	19.01	19.24	19.3



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43140	43340	43540
		Frequency (MHz)		3555	3575	3595
10M	QPSK	1	0	24.19	24.28	24.14
		1	24	24.24	24.23	24.42
		1	49	24.09	24.09	24.17
		25	0	23.29	23.24	23.25
		25	12	23.3	23.32	23.4
		25	25	23.27	23.35	23.44
		50	0	23.29	23.26	23.29
	16QAM	1	0	23.25	23.2	23.29
		1	24	23.3	23.29	23.38
		1	49	23.01	23.05	23.07
		25	0	22.22	22.18	22.28
		25	12	22.33	22.25	22.34
		25	25	22.25	22.24	22.39
		50	0	22.17	22.24	22.28
	64QAM	1	0	22.53	22.44	22.4
		1	24	22.52	22.44	22.56
		1	49	22.19	22.24	22.2
		25	0	21.3	21.18	21.25
		25	12	21.24	21.19	21.36
		25	25	21.3	21.31	21.33
		50	0	21.29	21.16	21.26
	256QAM	1	0	19.04	19.17	19.17
		1	24	19.31	19.32	19.32
		1	49	19.11	19.06	19.13
		25	0	19.2	19.31	19.22
		25	12	19.22	19.27	19.39
		25	25	19.18	19.25	19.38
		50	0	19.22	19.27	19.31



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43165	43340	43515
		Frequency (MHz)		3557.5	3575	3592.5
15M	QPSK	1	0	24.19	24.28	24.21
		1	37	24.24	24.23	24.37
		1	74	24.21	24.18	24.28
		36	0	23.2	23.31	23.33
		36	19	23.25	23.3	23.26
		36	39	23.36	23.39	23.37
		75	0	23.35	23.28	23.37
	16QAM	1	0	23.22	23.3	23.36
		1	37	23.37	23.31	23.43
		1	74	23.09	22.95	23.05
		36	0	22.17	22.25	22.37
		36	19	22.32	22.28	22.38
		36	39	22.12	22.28	22.34
		75	0	22.19	22.29	22.24
	64QAM	1	0	22.47	22.42	22.42
		1	37	22.38	22.41	22.44
		1	74	22.21	22.18	22.18
		36	0	21.36	21.28	21.26
		36	19	21.31	21.19	21.27
		36	39	21.25	21.25	21.3
		75	0	21.32	21.23	21.35
	256QAM	1	0	19.12	19.09	19.25
		1	37	19.36	19.2	19.43
		1	74	19.11	19.12	19.24
		36	0	19.3	19.27	19.27
		36	19	19.27	19.35	19.38
		36	39	19.16	19.26	19.27
		75	0	19.12	19.31	19.23



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43190	43340	43490
		Frequency (MHz)		3560	3575	3590
20M	QPSK	1	0	24.29	24.35	24.28
		1	50	24.32	24.38	24.44
		1	99	24.23	24.2	24.32
		50	0	23.35	23.35	23.4
		50	25	23.37	23.4	23.41
		50	50	23.39	23.43	23.45
		100	0	23.36	23.37	23.38
	16QAM	1	0	23.3	23.31	23.39
		1	50	23.4	23.35	23.46
		1	99	23.13	23.1	23.19
		50	0	22.29	22.32	22.38
		50	25	22.39	22.34	22.4
		50	50	22.27	22.35	22.41
		100	0	22.24	22.34	22.37
	64QAM	1	0	22.54	22.53	22.55
		1	50	22.53	22.54	22.58
		1	99	22.24	22.29	22.32
		50	0	21.37	21.31	21.38
		50	25	21.37	21.28	21.39
		50	50	21.35	21.39	21.44
		100	0	21.36	21.29	21.39
	256QAM	1	0	19.15	19.18	19.26
		1	50	19.42	19.34	19.44
		1	99	19.15	19.14	19.26
		50	0	19.33	19.34	19.37
		50	25	19.37	19.36	19.41
		50	50	19.27	19.39	19.4
		100	0	19.24	19.33	19.36



LTE BAND 42 FCC PART96_ANT3
BW: 5M

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43115	43340	43565
		Frequency (MHz)		3552.5	3575	3597.5
5M	QPSK	1	0	23.94	24.01	23.94
		1	12	23.97	23.99	23.91
		1	24	23.82	23.98	23.87
		12	0	23.05	22.96	22.93
		12	6	22.97	23.08	23.02
		12	13	22.95	23.01	22.97
		25	0	23.02	23.03	22.77
	16QAM	1	0	23.02	23.03	22.99
		1	12	23.23	23.18	23.06
		1	24	22.88	22.83	22.95
		12	0	22.03	22.05	22.1
		12	6	22.08	22.08	22.1
		12	13	22.11	22.09	21.9
	64QAM	25	0	21.88	22.13	21.85
		1	0	22.06	22.13	22.02
		1	12	22.27	22.2	22.25
		1	24	22.15	22.21	22.08
		12	0	21.03	21.04	21.06
		12	6	21.25	21.19	21.14
		12	13	21.19	21.27	21.18
	256QAM	25	0	20.95	20.93	20.97
		1	0	18.94	18.94	19.06
		1	12	19.18	19.02	19.18
		1	24	18.87	18.92	18.89
		12	0	19.2	19.03	19.1
		12	6	19.12	19.1	19.16
		12	13	19.07	19.04	18.99
		25	0	19.15	19.2	19.14



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43140	43340	43540
		Frequency (MHz)		3555	3575	3595
10M	QPSK	1	0	24.04	24.01	23.9
		1	24	23.99	23.92	23.99
		1	49	24	24	23.82
		25	0	23.15	23.06	23.08
		25	12	23.12	23.1	23.05
		25	25	23.13	22.93	23.05
		50	0	23.01	22.94	22.75
	16QAM	1	0	23.17	23.11	22.99
		1	24	23.18	23.17	23.12
		1	49	22.91	23	22.89
		25	0	22.1	22.1	22.12
		25	12	22.03	22.08	22.11
		25	25	22.12	22.11	21.98
		50	0	21.93	21.94	21.92
	64QAM	1	0	22.04	22.19	22.15
		1	24	22.21	22.14	22.17
		1	49	22.12	22.23	22.06
		25	0	21.11	21.07	21.03
		25	12	21.23	21.13	21.21
		25	25	21.2	21.08	21.06
		50	0	20.94	20.96	20.97
	256QAM	1	0	19.07	18.88	19.04
		1	24	19.03	19.18	19.05
		1	49	18.86	18.78	18.87
		25	0	19.2	19.04	19.01
		25	12	19.16	19.2	18.98
		25	25	18.91	19.09	19.12
		50	0	19.08	19.1	19.25



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43165	43340	43515
		Frequency (MHz)		3557.5	3575	3592.5
15M	QPSK	1	0	23.99	24.13	24.01
		1	37	24.04	24.06	24.02
		1	74	23.93	23.99	23.88
		36	0	23.1	23.09	23.13
		36	19	23.18	23.09	23.11
		36	39	23.08	23.1	23.14
		75	0	23.2	23.17	22.91
	16QAM	1	0	23.15	23.14	23.04
		1	37	23.29	23.25	23.21
		1	74	23	22.99	23
		36	0	22.19	22.13	22.22
		36	19	22.12	22.12	22.1
		36	39	22.18	22.16	22.06
		75	0	21.96	22.1	21.96
	64QAM	1	0	22.24	22.16	22.26
		1	37	22.27	22.2	22.24
		1	74	22.12	22.21	22.13
		36	0	21.12	21.14	20.99
		36	19	21.36	21.21	21.31
		36	39	21.27	21.26	21.17
		75	0	20.98	21.05	21.09
	256QAM	1	0	19.17	18.95	19.08
		1	37	19.21	19.14	19.09
		1	74	18.91	18.92	18.98
		36	0	19.24	19.25	19.14
		36	19	19.17	19.18	19.09
		36	39	19.13	19.14	19.2
		75	0	19.16	19.26	19.19



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43190	43340	43490
		Frequency (MHz)		3560	3575	3590
20M	QPSK	1	0	24.12	24.08	24.09
		1	50	24.18	24.13	24.11
		1	99	24.04	24.06	23.97
		50	0	23.21	23.17	23.15
		50	25	23.27	23.19	23.21
		50	50	23.16	23.13	23.19
		100	0	23.22	23.19	23.01
	16QAM	1	0	23.24	23.28	23.15
		1	50	23.36	23.27	23.25
		1	99	23.02	23.05	23.02
		50	0	22.24	22.15	22.25
		50	25	22.15	22.21	22.24
		50	50	22.23	22.3	22.17
		100	0	22.07	22.17	22.09
	64QAM	1	0	22.27	22.23	22.29
		1	50	22.36	22.35	22.33
		1	99	22.24	22.35	22.28
		50	0	21.17	21.23	21.13
		50	25	21.38	21.35	21.35
		50	50	21.34	21.36	21.29
		100	0	21.07	21.17	21.14
	256QAM	1	0	19.18	19.1	19.15
		1	50	19.24	19.24	19.23
		1	99	19.04	18.98	19.09
		50	0	19.3	19.31	19.24
		50	25	19.29	19.29	19.24
		50	50	19.15	19.19	19.21
		100	0	19.31	19.34	19.31



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BW: 5M

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43115	43340	43565
		Frequency (MHz)		3552.5	3575	3597.5
5M	QPSK	1	0	22.03	21.91	21.82
		1	12	22.05	21.89	21.97
		1	24	21.99	21.97	21.89
		12	0	20.9	21.04	20.95
		12	6	20.95	21.19	20.95
		12	13	21.06	21.02	21.12
		25	0	21.33	21.15	20.98
	16QAM	1	0	21.16	21.06	21.27
		1	12	20.93	21	21.04
		1	24	21.05	20.91	20.93
		12	0	20.31	20.09	20.11
		12	6	20	20	20.15
		12	13	20.09	20.3	20.24
	64QAM	25	0	20	20.04	20.06
		1	0	20.4	20.2	20.11
		1	12	20.12	20.27	20.15
		1	24	20.07	20.07	19.99
		12	0	19.2	19.26	19.13
		12	6	19.31	19.16	19.22
		12	13	19.1	19.19	19.05
	256QAM	25	0	19.01	19.15	19.15
		1	0	17.12	17.13	17.1
		1	12	17.09	17.2	17.29
		1	24	16.96	16.83	16.98
		12	0	17.25	17.06	17.14
		12	6	17.22	17.12	17.22
		12	13	17.1	17.22	17.28
		25	0	17.29	17.25	17.04



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43140	43340	43540
		Frequency (MHz)		3555	3575	3595
10M	QPSK	1	0	22.05	22.02	21.87
		1	24	21.94	22.09	21.99
		1	49	22.07	22.07	21.87
		25	0	20.94	21.04	20.94
		25	12	20.97	21.2	20.97
		25	25	21.02	20.97	21.18
		50	0	21.21	21.08	20.92
	16QAM	1	0	21.05	21.2	21.26
		1	24	20.99	21.02	21.01
		1	49	20.99	20.95	20.98
		25	0	20.28	20.15	20.05
		25	12	20.05	20.1	20.13
		25	25	19.99	20.22	20.21
		50	0	20.08	20.04	19.98
	64QAM	1	0	20.34	20.09	20.11
		1	24	20.13	20.2	20.14
		1	49	20.07	19.99	19.93
		25	0	19.24	19.18	19.22
		25	12	19.18	19.14	19.21
		25	25	19.1	19.23	19.14
		50	0	19	19.16	19.1
	256QAM	1	0	17.06	17.24	17.12
		1	24	17.17	17.21	17.2
		1	49	16.94	16.89	16.99
		25	0	17.26	17.14	17.12
		25	12	17.24	17.1	17.14
		25	25	17.11	17.24	17.32
		50	0	17.25	17.35	17.1



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43165	43340	43515
		Frequency (MHz)		3557.5	3575	3592.5
15M	QPSK	1	0	22.1	22.03	21.93
		1	37	21.97	22.13	21.91
		1	74	22	22.06	21.76
		36	0	20.88	20.98	20.91
		36	19	21.03	21.14	21.03
		36	39	21.13	20.96	21.13
		75	0	21.31	21.12	20.92
	16QAM	1	0	21.16	21.06	21.24
		1	37	20.99	21.08	21.06
		1	74	21.03	20.95	20.98
		36	0	20.26	20.12	20.06
		36	19	20	20.12	20.2
		36	39	20.04	20.23	20.31
		75	0	20	20.02	19.94
	64QAM	1	0	20.37	20.13	20.13
		1	37	20.17	20.18	20.19
		1	74	20.15	19.99	20.05
		36	0	19.16	19.22	19.24
		36	19	19.3	19.1	19.22
		36	39	19.13	19.09	19.05
		75	0	19.04	19.1	19.12
	256QAM	1	0	17.1	17.15	17.07
		1	37	17.09	17.19	17.15
		1	74	16.97	16.94	16.91
		36	0	17.31	17.14	17.15
		36	19	17.15	17.11	17.16
		36	39	17.11	17.17	17.36
		75	0	17.35	17.22	17.05



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43190	43340	43490
		Frequency (MHz)		3560	3575	3590
20M	QPSK	1	0	22.11	22.06	21.94
		1	50	22.16	22.13	22.01
		1	99	22.14	22.08	21.91
		50	0	21	21.11	21.03
		50	25	21.25	21.18	21.22
		50	50	21.16	21.1	21.13
		100	0	21.34	21.23	21.02
	16QAM	1	0	21.18	21.21	21.32
		1	50	21.05	21.14	21.08
		1	99	21.13	21.01	21.02
		50	0	20.32	20.19	20.15
		50	25	20.11	20.15	20.21
		50	50	20.14	20.35	20.35
		100	0	20.14	20.13	20.08
	64QAM	1	0	20.41	20.23	20.19
		1	50	20.27	20.33	20.26
		1	99	20.22	20.13	20.08
		50	0	19.26	19.31	19.25
		50	25	19.32	19.18	19.35
		50	50	19.17	19.24	19.2
		100	0	19.08	19.2	19.18
	256QAM	1	0	17.15	17.27	17.16
		1	50	17.18	17.31	17.3
		1	99	17.09	16.96	17.01
		50	0	17.33	17.2	17.16
		50	25	17.28	17.19	17.26
		50	50	17.18	17.31	17.38
		100	0	17.4	17.37	17.18



EIRP

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BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
20M-QPSK	43190	3560	22.47	-0.73	21.74	149.28	23
	43340	3575	22.42	-0.73	21.69	147.57	23
	43490	3590	22.37	-0.73	21.64	145.88	23
20M-16QAM	43190	3560	21.74	-0.73	21.01	126.18	23
	43340	3575	21.69	-0.73	20.96	124.74	23
	43490	3590	21.73	-0.73	21.00	125.89	23
20M-64QAM	43190	3560	20.84	-0.73	20.11	102.57	23
	43340	3575	20.83	-0.73	20.10	102.33	23
	43490	3590	20.80	-0.73	20.07	101.62	23
20M-256QAM	43190	3560	17.70	-0.73	16.97	49.77	23
	43340	3575	17.63	-0.73	16.90	48.98	23
	43490	3590	17.64	-0.73	16.91	49.09	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
15M-QPSK	43165	3557.5	22.43	-0.73	21.70	147.91	23
	43340	3575	22.32	-0.73	21.59	144.21	23
	43515	3592.5	22.31	-0.73	21.58	143.88	23
15M-16QAM	43165	3557.5	21.60	-0.73	20.87	122.18	23
	43340	3575	21.63	-0.73	20.90	123.03	23
	43515	3592.5	21.61	-0.73	20.88	122.46	23
15M-64QAM	43165	3557.5	20.78	-0.73	20.05	101.16	23
	43340	3575	20.77	-0.73	20.04	100.93	23
	43515	3592.5	20.76	-0.73	20.03	100.69	23
15M-256QAM	43165	3557.5	17.69	-0.73	16.96	49.66	23
	43340	3575	17.62	-0.73	16.89	48.87	23
	43515	3592.5	17.50	-0.73	16.77	47.53	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
10M-QPSK	43140	3555	22.31	-0.73	21.58	143.88	23
	43340	3575	22.23	-0.73	21.50	141.25	23
	43540	3595	22.25	-0.73	21.52	141.91	23
10M-16QAM	43140	3555	21.51	-0.73	20.78	119.67	23
	43340	3575	21.46	-0.73	20.73	118.30	23



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BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
	43540	3595	21.54	-0.73	20.81	120.50	23
10M- 64QAM	43140	3555	20.71	-0.73	19.98	99.54	23
	43340	3575	20.70	-0.73	19.97	99.31	23
	43540	3595	20.71	-0.73	19.98	99.54	23
10M- 256QAM	43140	3555	17.56	-0.73	16.83	48.19	23
	43340	3575	17.53	-0.73	16.80	47.86	23
	43540	3595	17.50	-0.73	16.77	47.53	23
5M-QPSK	43115	3552.5	22.40	-0.73	21.67	146.89	23
	43340	3575	22.33	-0.73	21.60	144.54	23
	43565	3597.5	22.34	-0.73	21.61	144.88	23
5M-16QAM	43115	3552.5	21.63	-0.73	20.90	123.03	23
	43340	3575	21.68	-0.73	20.95	124.45	23
	43565	3597.5	21.61	-0.73	20.88	122.46	23
5M-64QAM	43115	3552.5	20.75	-0.73	20.02	100.46	23
	43340	3575	20.78	-0.73	20.05	101.16	23
	43565	3597.5	20.68	-0.73	19.95	98.86	23
5M- 256QAM	43115	3552.5	17.68	-0.73	16.95	49.55	23
	43340	3575	17.53	-0.73	16.80	47.86	23
	43565	3597.5	17.62	-0.73	16.89	48.87	23



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BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
20M-QPSK	43190	3560	24.32	-1.2	23.12	205.12	23
	43340	3575	24.38	-1.2	23.18	207.97	23
	43490	3590	24.44	-1.2	23.24	210.86	23
20M-16QAM	43190	3560	23.40	-1.2	22.20	165.96	23
	43340	3575	23.35	-1.2	22.15	164.06	23
	43490	3590	23.46	-1.2	22.26	168.27	23
20M-64QAM	43190	3560	22.54	-1.2	21.34	136.14	23
	43340	3575	22.54	-1.2	21.34	136.14	23
	43490	3590	22.58	-1.2	21.38	137.40	23
20M-256QAM	43190	3560	19.42	-1.2	18.22	66.37	23
	43340	3575	19.39	-1.2	18.19	65.92	23
	43490	3590	19.44	-1.2	18.24	66.68	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
15M-QPSK	43165	3557.5	24.24	-1.2	23.04	201.37	23
	43340	3575	24.28	-1.2	23.08	203.24	23
	43515	3592.5	24.37	-1.2	23.17	207.49	23
15M-16QAM	43165	3557.5	23.37	-1.2	22.17	164.82	23
	43340	3575	23.31	-1.2	22.11	162.55	23
	43515	3592.5	23.43	-1.2	22.23	167.11	23
15M-64QAM	43165	3557.5	22.47	-1.2	21.27	133.97	23
	43340	3575	22.42	-1.2	21.22	132.43	23
	43515	3592.5	22.44	-1.2	21.24	133.05	23
15M-256QAM	43165	3557.5	19.36	-1.2	18.16	65.46	23
	43340	3575	19.35	-1.2	18.15	65.31	23
	43515	3592.5	19.43	-1.2	18.23	66.53	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
10M-QPSK	43140	3555	24.24	-1.2	23.04	201.37	23
	43340	3575	24.28	-1.2	23.08	203.24	23
	43540	3595	24.42	-1.2	23.22	209.89	23
10M-16QAM	43140	3555	23.30	-1.2	22.10	162.18	23
	43340	3575	23.29	-1.2	22.09	161.81	23
	43540	3595	23.38	-1.2	22.18	165.20	23



10M-64QAM	43140	3555	22.53	-1.2	21.33	135.83	23
	43340	3575	22.44	-1.2	21.24	133.05	23
	43540	3595	22.56	-1.2	21.36	136.77	23
10M-256QAM	43140	3555	19.31	-1.2	18.11	64.71	23
	43340	3575	19.32	-1.2	18.12	64.86	23
	43540	3595	19.39	-1.2	18.19	65.92	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
5M-QPSK	43115	3552.5	24.20	-1.2	23.00	199.53	23
	43340	3575	24.17	-1.2	22.97	198.15	23
	43565	3597.5	24.19	-1.2	22.99	199.07	23
5M-16QAM	43115	3552.5	23.26	-1.2	22.06	160.69	23
	43340	3575	23.27	-1.2	22.07	161.06	23
	43565	3597.5	23.28	-1.2	22.08	161.44	23
5M-64QAM	43115	3552.5	22.46	-1.2	21.26	133.66	23
	43340	3575	22.34	-1.2	21.14	130.02	23
	43565	3597.5	22.47	-1.2	21.27	133.97	23
5M-256QAM	43115	3552.5	19.28	-1.2	18.08	64.27	23
	43340	3575	19.24	-1.2	18.04	63.68	23
	43565	3597.5	19.32	-1.2	18.12	64.86	23



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BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
20M-QPSK	43190	3560	24.18	0.98	25.16	328.10	23
	43340	3575	24.13	0.98	25.11	324.34	23
	43490	3590	24.11	0.98	25.09	322.85	23
20M-16QAM	43190	3560	23.36	0.98	24.34	271.64	23
	43340	3575	23.28	0.98	24.26	266.69	23
	43490	3590	23.25	0.98	24.23	264.85	23
20M-64QAM	43190	3560	22.36	0.98	23.34	215.77	23
	43340	3575	22.35	0.98	23.33	215.28	23
	43490	3590	22.33	0.98	23.31	214.29	23
20M-256QAM	43190	3560	19.31	0.98	20.29	106.91	23
	43340	3575	19.34	0.98	20.32	107.65	23
	43490	3590	19.31	0.98	20.29	106.91	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
15M-QPSK	43165	3557.5	24.04	0.98	25.02	317.69	23
	43340	3575	24.13	0.98	25.11	324.34	23
	43515	3592.5	24.02	0.98	25.00	316.23	23
15M-16QAM	43165	3557.5	23.29	0.98	24.27	267.30	23
	43340	3575	23.25	0.98	24.23	264.85	23
	43515	3592.5	23.21	0.98	24.19	262.42	23
15M-64QAM	43165	3557.5	22.27	0.98	23.25	211.35	23
	43340	3575	22.21	0.98	23.19	208.45	23
	43515	3592.5	22.26	0.98	23.24	210.86	23
15M-256QAM	43165	3557.5	19.24	0.98	20.22	105.20	23
	43340	3575	19.26	0.98	20.24	105.68	23
	43515	3592.5	19.20	0.98	20.18	104.23	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
10M-QPSK	43140	3555	24.04	0.98	25.02	317.69	23
	43340	3575	24.01	0.98	24.99	315.50	23
	43540	3595	23.99	0.98	24.97	314.05	23
10M-16QAM	43140	3555	23.18	0.98	24.16	260.62	23
	43340	3575	23.17	0.98	24.15	260.02	23
	43540	3595	23.12	0.98	24.10	257.04	23



10M-64QAM	43140	3555	22.21	0.98	23.19	208.45	23
	43340	3575	22.23	0.98	23.21	209.41	23
	43540	3595	22.17	0.98	23.15	206.54	23
10M-256QAM	43140	3555	19.20	0.98	20.18	104.23	23
	43340	3575	19.20	0.98	20.18	104.23	23
	43540	3595	19.25	0.98	20.23	105.44	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
5M-QPSK	43115	3552.5	23.97	0.98	24.95	312.61	23
	43340	3575	24.01	0.98	24.99	315.50	23
	43565	3597.5	23.94	0.98	24.92	310.46	23
5M-16QAM	43115	3552.5	23.23	0.98	24.21	263.63	23
	43340	3575	23.18	0.98	24.16	260.62	23
	43565	3597.5	23.06	0.98	24.04	253.51	23
5M-64QAM	43115	3552.5	22.27	0.98	23.25	211.35	23
	43340	3575	22.21	0.98	23.19	208.45	23
	43565	3597.5	22.25	0.98	23.23	210.38	23
5M-256QAM	43115	3552.5	19.20	0.98	20.18	104.23	23
	43340	3575	19.20	0.98	20.18	104.23	23
	43565	3597.5	19.18	0.98	20.16	103.75	23



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BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
20M-QPSK	43190	3560	22.16	-1.9	20.26	106.17	23
	43340	3575	22.13	-1.9	20.23	105.44	23
	43490	3590	22.01	-1.9	20.11	102.57	23
20M-16QAM	43190	3560	21.18	-1.9	19.28	84.72	23
	43340	3575	21.21	-1.9	19.31	85.31	23
	43490	3590	21.32	-1.9	19.42	87.50	23
20M-64QAM	43190	3560	20.41	-1.9	18.51	70.96	23
	43340	3575	20.33	-1.9	18.43	69.66	23
	43490	3590	20.26	-1.9	18.36	68.55	23
20M-256QAM	43190	3560	17.40	-1.9	15.50	35.48	23
	43340	3575	17.37	-1.9	15.47	35.24	23
	43490	3590	17.38	-1.9	15.48	35.32	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
15M-QPSK	43165	3557.5	22.10	-1.9	20.20	104.71	23
	43340	3575	22.13	-1.9	20.23	105.44	23
	43515	3592.5	21.93	-1.9	20.03	100.69	23
15M-16QAM	43165	3557.5	21.16	-1.9	19.26	84.33	23
	43340	3575	21.08	-1.9	19.18	82.79	23
	43515	3592.5	21.24	-1.9	19.34	85.90	23
15M-64QAM	43165	3557.5	20.37	-1.9	18.47	70.31	23
	43340	3575	20.18	-1.9	18.28	67.30	23
	43515	3592.5	20.19	-1.9	18.29	67.45	23
15M-256QAM	43165	3557.5	17.35	-1.9	15.45	35.08	23
	43340	3575	17.22	-1.9	15.32	34.04	23
	43515	3592.5	17.36	-1.9	15.46	35.16	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
10M-QPSK	43140	3555	22.07	-1.9	20.17	103.99	23
	43340	3575	22.09	-1.9	20.19	104.47	23
	43540	3595	21.99	-1.9	20.09	102.09	23
10M-16QAM	43140	3555	21.05	-1.9	19.15	82.22	23
	43340	3575	21.20	-1.9	19.30	85.11	23
	43540	3595	21.26	-1.9	19.36	86.30	23



10M-64QAM	43140	3555	20.34	-1.9	18.44	69.82	23
	43340	3575	20.20	-1.9	18.30	67.61	23
	43540	3595	20.14	-1.9	18.24	66.68	23
10M-256QAM	43140	3555	17.26	-1.9	15.36	34.36	23
	43340	3575	17.35	-1.9	15.45	35.08	23
	43540	3595	17.32	-1.9	15.42	34.83	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
5M-QPSK	43115	3552.5	22.05	-1.9	20.15	103.51	23
	43340	3575	21.97	-1.9	20.07	101.62	23
	43565	3597.5	21.97	-1.9	20.07	101.62	23
5M-16QAM	43115	3552.5	21.16	-1.9	19.26	84.33	23
	43340	3575	21.06	-1.9	19.16	82.41	23
	43565	3597.5	21.27	-1.9	19.37	86.50	23
5M-64QAM	43115	3552.5	20.40	-1.9	18.50	70.79	23
	43340	3575	20.27	-1.9	18.37	68.71	23
	43565	3597.5	20.15	-1.9	18.25	66.83	23
5M-256QAM	43115	3552.5	17.29	-1.9	15.39	34.59	23
	43340	3575	17.25	-1.9	15.35	34.28	23
	43565	3597.5	17.29	-1.9	15.39	34.59	23



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BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
20M-QPSK	55340	3560	21.13	-1.48	19.65	92.26	23
	55990	3625	21.00	-1.48	19.52	89.54	23
	56640	3690	21.08	-1.48	19.60	91.20	23
20M-16QAM	55340	3560	19.87	-1.48	18.39	69.02	23
	55990	3625	19.82	-1.48	18.34	68.23	23
	56640	3690	19.88	-1.48	18.40	69.18	23
20M-64QAM	55340	3560	18.90	-1.48	17.42	55.21	23
	55990	3625	18.89	-1.48	17.41	55.08	23
	56640	3690	18.88	-1.48	17.40	54.95	23
20M-256QAM	55340	3560	15.95	-1.48	14.47	27.99	23
	55990	3625	15.97	-1.48	14.49	28.12	23
	56640	3690	15.94	-1.48	14.46	27.93	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
15M-QPSK	55315	3557.5	21.06	-1.48	19.58	90.78	23
	55990	3625	20.95	-1.48	19.47	88.51	23
	56665	3692.5	21.01	-1.48	19.53	89.74	23
15M-16QAM	55315	3557.5	19.83	-1.48	18.35	68.39	23
	55990	3625	19.73	-1.48	18.25	66.83	23
	56665	3692.5	19.76	-1.48	18.28	67.30	23
15M-64QAM	55315	3557.5	18.84	-1.48	17.36	54.45	23
	55990	3625	18.91	-1.48	17.43	55.34	23
	56665	3692.5	18.84	-1.48	17.36	54.45	23
15M-256QAM	55315	3557.5	15.90	-1.48	14.42	27.67	23
	55990	3625	15.88	-1.48	14.40	27.54	23
	56665	3692.5	15.83	-1.48	14.35	27.23	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
10M-QPSK	55290	3555	21.07	-1.48	19.59	90.99	23
	55990	3625	20.94	-1.48	19.46	88.31	23
	56690	3695	21.02	-1.48	19.54	89.95	23
10M-16QAM	55290	3555	19.82	-1.48	18.34	68.23	23
	55990	3625	19.75	-1.48	18.27	67.14	23
	56690	3695	19.86	-1.48	18.38	68.87	23

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10M-64QAM	55290	3555	18.81	-1.48	17.33	54.08	23
	55990	3625	18.80	-1.48	17.32	53.95	23
	56690	3695	18.73	-1.48	17.25	53.09	23
10M-256QAM	55290	3555	15.90	-1.48	14.42	27.67	23
	55990	3625	15.87	-1.48	14.39	27.48	23
	56690	3695	15.89	-1.48	14.41	27.61	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
5M-QPSK	55265	3552.5	21.06	-1.48	19.58	90.78	23
	55990	3625	20.95	-1.48	19.47	88.51	23
	56715	3697.5	20.98	-1.48	19.50	89.13	23
5M-16QAM	55265	3552.5	19.81	-1.48	18.33	68.08	23
	55990	3625	19.75	-1.48	18.27	67.14	23
	56715	3697.5	19.79	-1.48	18.31	67.76	23
5M-64QAM	55265	3552.5	18.80	-1.48	17.32	53.95	23
	55990	3625	18.88	-1.48	17.40	54.95	23
	56715	3697.5	18.80	-1.48	17.32	53.95	23
5M-256QAM	55265	3552.5	15.90	-1.48	14.42	27.67	23
	55990	3625	15.89	-1.48	14.41	27.61	23
	56715	3697.5	15.86	-1.48	14.38	27.42	23



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BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
20M-QPSK	55340	3560	22.76	-1.72	21.04	127.06	23
	55990	3625	22.69	-1.72	20.97	125.03	23
	56640	3690	22.73	-1.72	21.01	126.18	23
20M-16QAM	55340	3560	21.83	-1.72	20.11	102.57	23
	55990	3625	21.69	-1.72	19.97	99.31	23
	56640	3690	21.77	-1.72	20.05	101.16	23
20M-64QAM	55340	3560	20.83	-1.72	19.11	81.47	23
	55990	3625	20.79	-1.72	19.07	80.72	23
	56640	3690	20.78	-1.72	19.06	80.54	23
20M-256QAM	55340	3560	17.94	-1.72	16.22	41.88	23
	55990	3625	17.90	-1.72	16.18	41.50	23
	56640	3690	17.91	-1.72	16.19	41.59	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
15M-QPSK	55315	3557.5	22.74	-1.72	21.02	126.47	23
	55990	3625	22.65	-1.72	20.93	123.88	23
	56665	3692.5	22.72	-1.72	21.00	125.89	23
15M-16QAM	55315	3557.5	21.74	-1.72	20.02	100.46	23
	55990	3625	21.67	-1.72	19.95	98.86	23
	56665	3692.5	21.66	-1.72	19.94	98.63	23
15M-64QAM	55315	3557.5	20.72	-1.72	19.00	79.43	23
	55990	3625	20.65	-1.72	18.93	78.16	23
	56665	3692.5	20.67	-1.72	18.95	78.52	23
15M-256QAM	55315	3557.5	17.92	-1.72	16.20	41.69	23
	55990	3625	17.84	-1.72	16.12	40.93	23
	56665	3692.5	17.87	-1.72	16.15	41.21	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
10M-QPSK	55290	3555	22.75	-1.72	21.03	126.77	23
	55990	3625	22.71	-1.72	20.99	125.60	23
	56690	3695	22.63	-1.72	20.91	123.31	23
10M-16QAM	55290	3555	21.81	-1.72	20.09	102.09	23
	55990	3625	21.67	-1.72	19.95	98.86	23
	56690	3695	21.73	-1.72	20.01	100.23	23

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10M-64QAM	55290	3555	20.72	-1.72	19.00	79.43	23
	55990	3625	20.70	-1.72	18.98	79.07	23
	56690	3695	20.77	-1.72	19.05	80.35	23
10M-256QAM	55290	3555	17.93	-1.72	16.21	41.78	23
	55990	3625	17.90	-1.72	16.18	41.50	23
	56690	3695	17.83	-1.72	16.11	40.83	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
5M-QPSK	55265	3552.5	22.64	-1.72	20.92	123.59	23
	55990	3625	22.67	-1.72	20.95	124.45	23
	56715	3697.5	22.68	-1.72	20.96	124.74	23
5M-16QAM	55265	3552.5	21.79	-1.72	20.07	101.62	23
	55990	3625	21.72	-1.72	20.00	100.00	23
	56715	3697.5	21.75	-1.72	20.03	100.69	23
5M-64QAM	55265	3552.5	20.76	-1.72	19.04	80.17	23
	55990	3625	20.70	-1.72	18.98	79.07	23
	56715	3697.5	20.71	-1.72	18.99	79.25	23
5M-256QAM	55265	3552.5	17.90	-1.72	16.18	41.50	23
	55990	3625	17.79	-1.72	16.07	40.46	23
	56715	3697.5	17.85	-1.72	16.13	41.02	23



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BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
20M-QPSK	55340	3560	21.93	0.98	22.91	195.43	23
	55990	3625	21.94	0.98	22.92	195.88	23
	56640	3690	22.01	0.98	22.99	199.07	23
20M-16QAM	55340	3560	21.06	0.98	22.04	159.96	23
	55990	3625	20.90	0.98	21.88	154.17	23
	56640	3690	21.14	0.98	22.12	162.93	23
20M-64QAM	55340	3560	20.20	0.98	21.18	131.22	23
	55990	3625	19.93	0.98	20.91	123.31	23
	56640	3690	20.26	0.98	21.24	133.05	23
20M-256QAM	55340	3560	17.53	0.98	18.51	70.96	23
	55990	3625	17.40	0.98	18.38	68.87	23
	56640	3690	17.58	0.98	18.56	71.78	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
15M-QPSK	55315	3557.5	21.87	0.98	22.85	192.75	23
	55990	3625	21.78	0.98	22.76	188.80	23
	56665	3692.5	21.90	0.98	22.88	194.09	23
15M-16QAM	55315	3557.5	21.05	0.98	22.03	159.59	23
	55990	3625	20.85	0.98	21.83	152.41	23
	56665	3692.5	21.12	0.98	22.10	162.18	23
15M-64QAM	55315	3557.5	20.11	0.98	21.09	128.53	23
	55990	3625	19.99	0.98	20.97	125.03	23
	56665	3692.5	20.17	0.98	21.15	130.32	23
15M-256QAM	55315	3557.5	17.41	0.98	18.39	69.02	23
	55990	3625	17.34	0.98	18.32	67.92	23
	56665	3692.5	17.52	0.98	18.50	70.79	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
10M-QPSK	55290	3555	21.81	0.98	22.79	190.11	23
	55990	3625	21.91	0.98	22.89	194.54	23
	56690	3695	21.88	0.98	22.86	193.20	23
10M-16QAM	55290	3555	20.95	0.98	21.93	155.96	23
	55990	3625	20.94	0.98	21.92	155.60	23
	56690	3695	21.07	0.98	22.05	160.32	23

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10M-64QAM	55290	3555	20.16	0.98	21.14	130.02	23
	55990	3625	20.17	0.98	21.15	130.32	23
	56690	3695	20.17	0.98	21.15	130.32	23
10M-256QAM	55290	3555	17.38	0.98	18.36	68.55	23
	55990	3625	17.46	0.98	18.44	69.82	23
	56690	3695	17.52	0.98	18.50	70.79	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
5M-QPSK	55265	3552.5	21.84	0.98	22.82	191.43	23
	55990	3625	21.83	0.98	22.81	190.99	23
	56715	3697.5	21.92	0.98	22.90	194.98	23
5M-16QAM	55265	3552.5	20.95	0.98	21.93	155.96	23
	55990	3625	20.98	0.98	21.96	157.04	23
	56715	3697.5	21.12	0.98	22.10	162.18	23
5M-64QAM	55265	3552.5	20.17	0.98	21.15	130.32	23
	55990	3625	20.17	0.98	21.15	130.32	23
	56715	3697.5	20.22	0.98	21.20	131.83	23
5M-256QAM	55265	3552.5	17.44	0.98	18.42	69.50	23
	55990	3625	17.41	0.98	18.39	69.02	23
	56715	3697.5	17.44	0.98	18.42	69.50	23



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BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
20M-QPSK	55340	3560	20.71	-1.4	19.31	85.31	23
	55990	3625	20.55	-1.4	19.15	82.22	23
	56640	3690	20.47	-1.4	19.07	80.72	23
20M-16QAM	55340	3560	19.66	-1.4	18.26	66.99	23
	55990	3625	19.61	-1.4	18.21	66.22	23
	56640	3690	19.52	-1.4	18.12	64.86	23
20M-64QAM	55340	3560	18.69	-1.4	17.29	53.58	23
	55990	3625	18.71	-1.4	17.31	53.83	23
	56640	3690	18.56	-1.4	17.16	52.00	23
20M-256QAM	55340	3560	15.77	-1.4	14.37	27.35	23
	55990	3625	15.76	-1.4	14.36	27.29	23
	56640	3690	15.70	-1.4	14.30	26.92	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
15M-QPSK	55315	3557.5	20.68	-1.4	19.28	84.72	23
	55990	3625	20.50	-1.4	19.10	81.28	23
	56665	3692.5	20.33	-1.4	18.93	78.16	23
15M-16QAM	55315	3557.5	19.62	-1.4	18.22	66.37	23
	55990	3625	19.48	-1.4	18.08	64.27	23
	56665	3692.5	19.42	-1.4	18.02	63.39	23
15M-64QAM	55315	3557.5	18.60	-1.4	17.20	52.48	23
	55990	3625	18.58	-1.4	17.18	52.24	23
	56665	3692.5	18.51	-1.4	17.11	51.40	23
15M-256QAM	55315	3557.5	15.76	-1.4	14.36	27.29	23
	55990	3625	15.62	-1.4	14.22	26.42	23
	56665	3692.5	15.64	-1.4	14.24	26.55	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
10M-QPSK	55290	3555	20.60	-1.4	19.20	83.18	23
	55990	3625	20.55	-1.4	19.15	82.22	23
	56690	3695	20.46	-1.4	19.06	80.54	23
10M-16QAM	55290	3555	19.64	-1.4	18.24	66.68	23
	55990	3625	19.43	-1.4	18.03	63.53	23
	56690	3695	19.46	-1.4	18.06	63.97	23

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10M-64QAM	55290	3555	18.60	-1.4	17.20	52.48	23
	55990	3625	18.58	-1.4	17.18	52.24	23
	56690	3695	18.55	-1.4	17.15	51.88	23
10M-256QAM	55290	3555	15.66	-1.4	14.26	26.67	23
	55990	3625	15.61	-1.4	14.21	26.36	23
	56690	3695	15.60	-1.4	14.20	26.30	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	FCC Limit (dbm)
5M-QPSK	55265	3552.5	20.59	-1.4	19.19	82.99	23
	55990	3625	20.47	-1.4	19.07	80.72	23
	56715	3697.5	20.45	-1.4	19.05	80.35	23
5M-16QAM	55265	3552.5	19.65	-1.4	18.25	66.83	23
	55990	3625	19.47	-1.4	18.07	64.12	23
	56715	3697.5	19.41	-1.4	18.01	63.24	23
5M-64QAM	55265	3552.5	18.57	-1.4	17.17	52.12	23
	55990	3625	18.54	-1.4	17.14	51.76	23
	56715	3697.5	18.53	-1.4	17.13	51.64	23
5M-256QAM	55265	3552.5	15.74	-1.4	14.34	27.16	23
	55990	3625	15.68	-1.4	14.28	26.79	23
	56715	3697.5	15.62	-1.4	14.22	26.42	23

Note: The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths (i.e., 5, 10, 15, 20MHz).

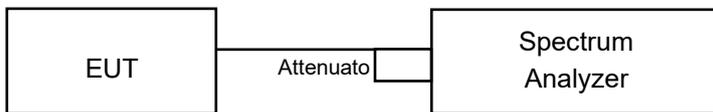


3.2 CONDUCTED BAND EDGE

3.2.1 LIMITS OF CONDUCTED BAND EDGE MEASUREMENT

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

3.2.2 TEST SETUP



3.2.3 TEST INSTRUMENTS

Refer to section 1.2 to get information of above instrument.



3.2.4 TEST PROCEDURE

For the Conducted Band Edge:

- 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.

For Adjacent Channel Leakage Ratio (ACLR) measurement:

1. The Adjacent Channel Leakage Ratio (ACLR) is the ratio of the average power in the assigned aggregated channel bandwidth to the average power over the equivalent adjacent channel bandwidth.
2. The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.
3. The measured ACLR ratio shall be at least 30 dB.

3.2.5 DEVIATION FROM TEST STANDARD

No deviation.



BUREAU VERITAS Test Report No.: PSZ-QBJ2501200112RF07

3.2.6 TEST RESULTS

Please Refer to Appendix Of this test report.

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3.3 FREQUENCY STABILITY MEASUREMENT

3.3.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

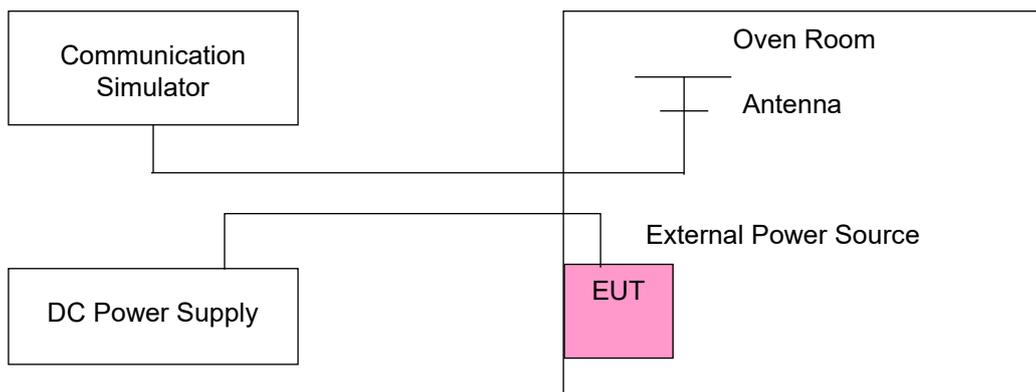
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency band.

3.3.2 TEST PROCEDURE

- a. 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.
- b. 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.
- c. 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.

3.3.3 TEST SETUP





BUREAU VERITAS Test Report No.: PSZ-QBJ2501200112RF07

3.3.4 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)

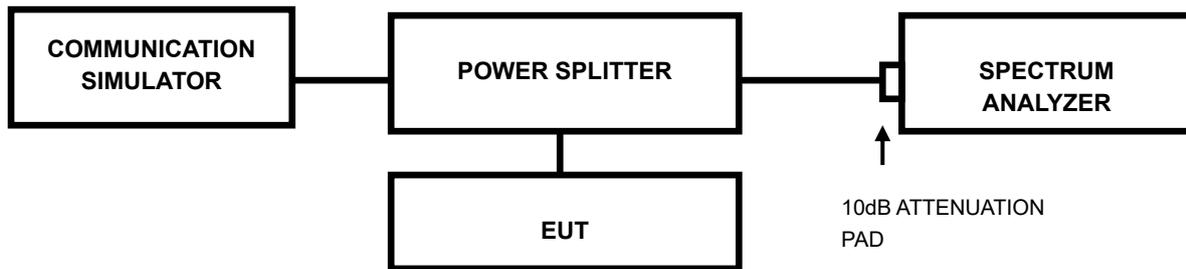


3.4 OCCUPIED BANDWIDTH MEASUREMENT

3.4.1 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.

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 1.2 to get information of above instrument.

3.4.4 TEST PROCEDURE

- 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.

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.



BUREAU VERITAS Test Report No.: PSZ-QBJ2501200112RF07

3.4.6 TEST RESULT

Please Refer to Appendix Of this test report.

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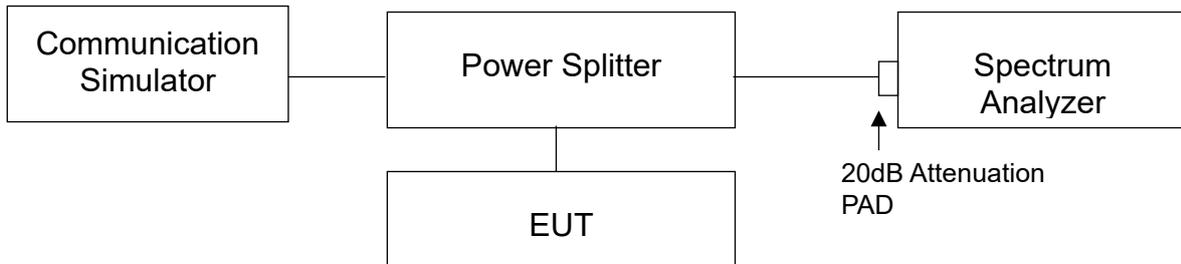


3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

3.5.2 TEST SETUP



3.5.3 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 9 kHz to 40 GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.



BUREAU VERITAS Test Report No.: PSZ-QBJ2501200112RF07

3.5.4 TEST RESULTS

Please Refer to Appendix Of this test report.

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3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

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(below or equal 1GHz) and/or 1.5m(above 1GHz) 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 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 = Output power level of S.G – TX cable loss + 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 power = E.I.P.R power - 2.15dBi.

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

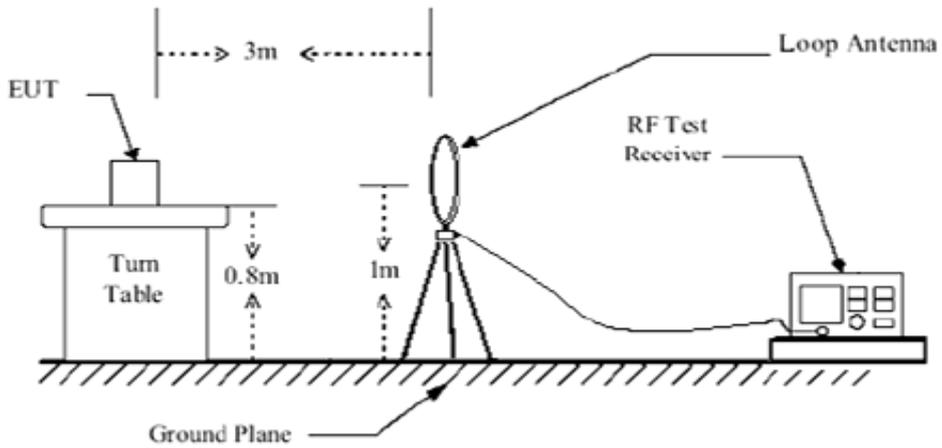
3.6.3 DEVIATION FROM TEST STANDARD

No deviation.

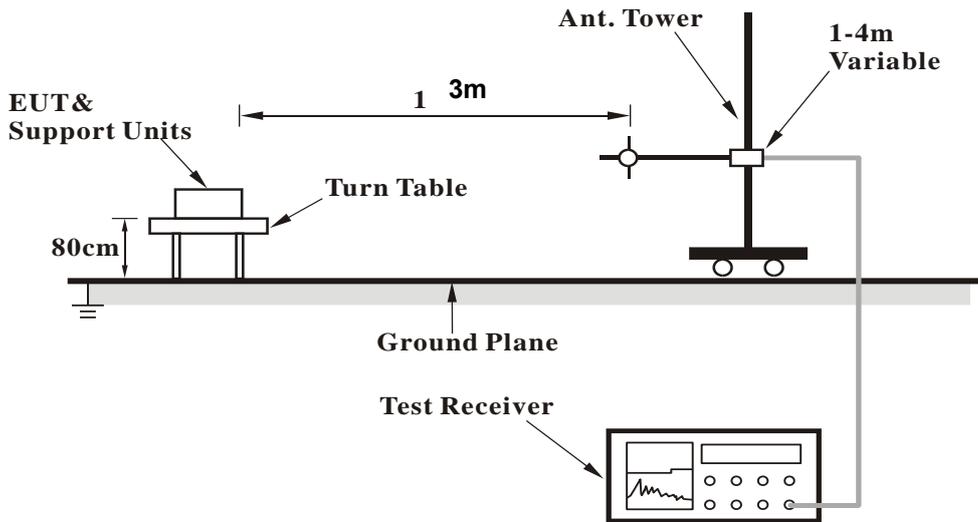


3.6.4 TEST SET UP

< Frequency Range below 30MHz >

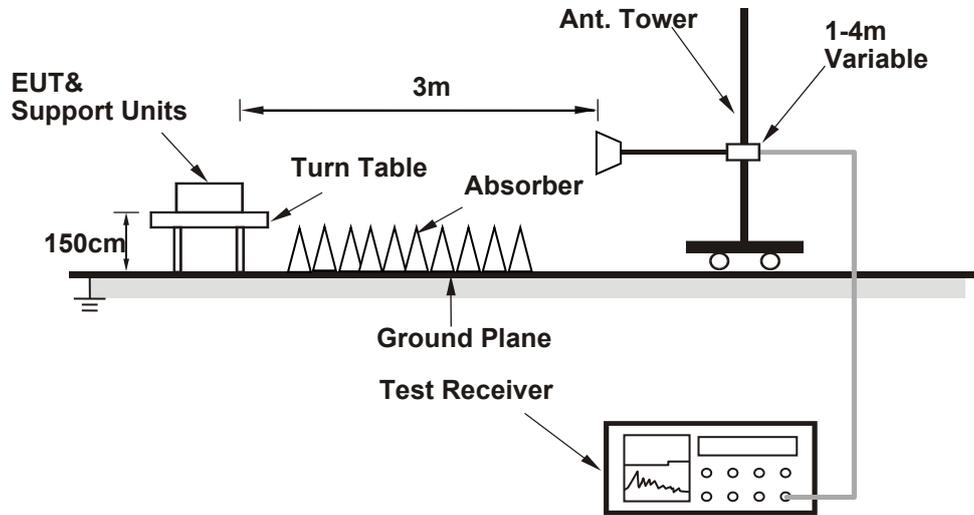


<Frequency Range below 1GHz>





<Frequency Range above 1GHz>



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.

BELOW 1GHz WORST-CASE DATA

30 MHz – 1GHz data:

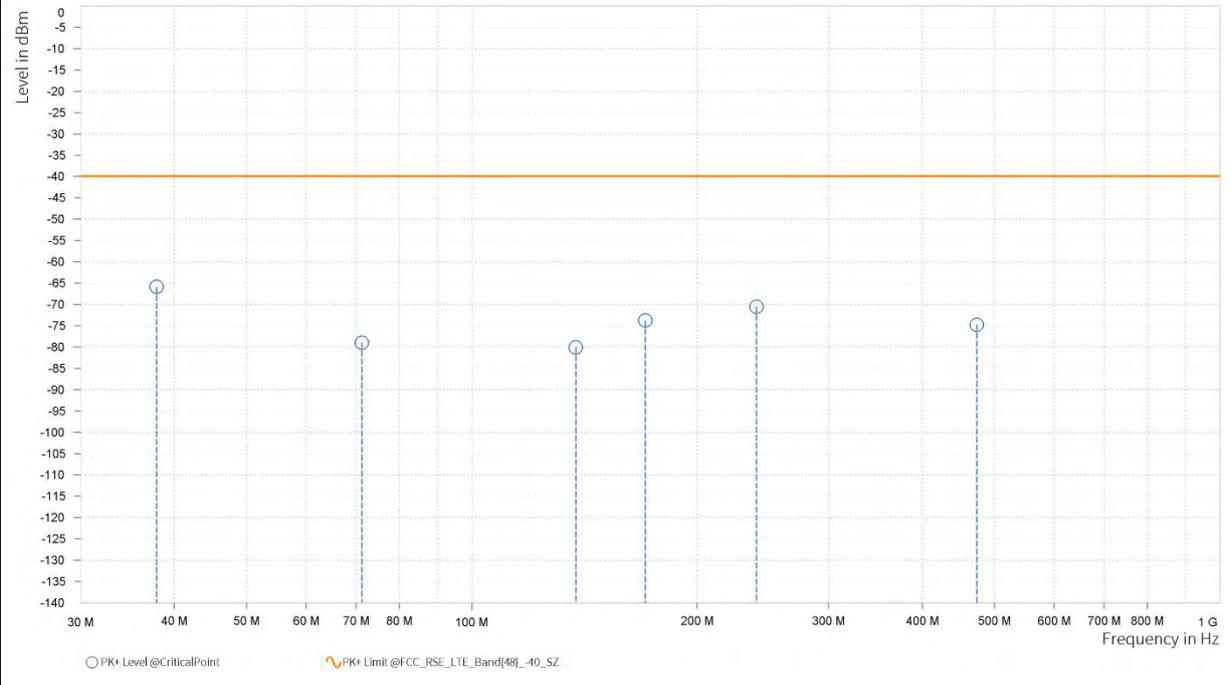
LTE Band 48

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 55990	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		

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	37.900	-65.86	-40.00	25.86	-0.05	H	4.2	1.00
1	71.300	-78.98	-40.00	38.98	-10.10	H	90.1	1.00
1	137.700	-80.08	-40.00	40.08	-14.08	H	120.4	2.00
1	170.500	-73.78	-40.00	33.78	-9.92	H	150.2	2.00
1	240.050	-70.53	-40.00	30.53	-0.57	H	90.1	1.00
2	473.146	-74.74	-40.00	34.74	0.71	H	165.8	2.00



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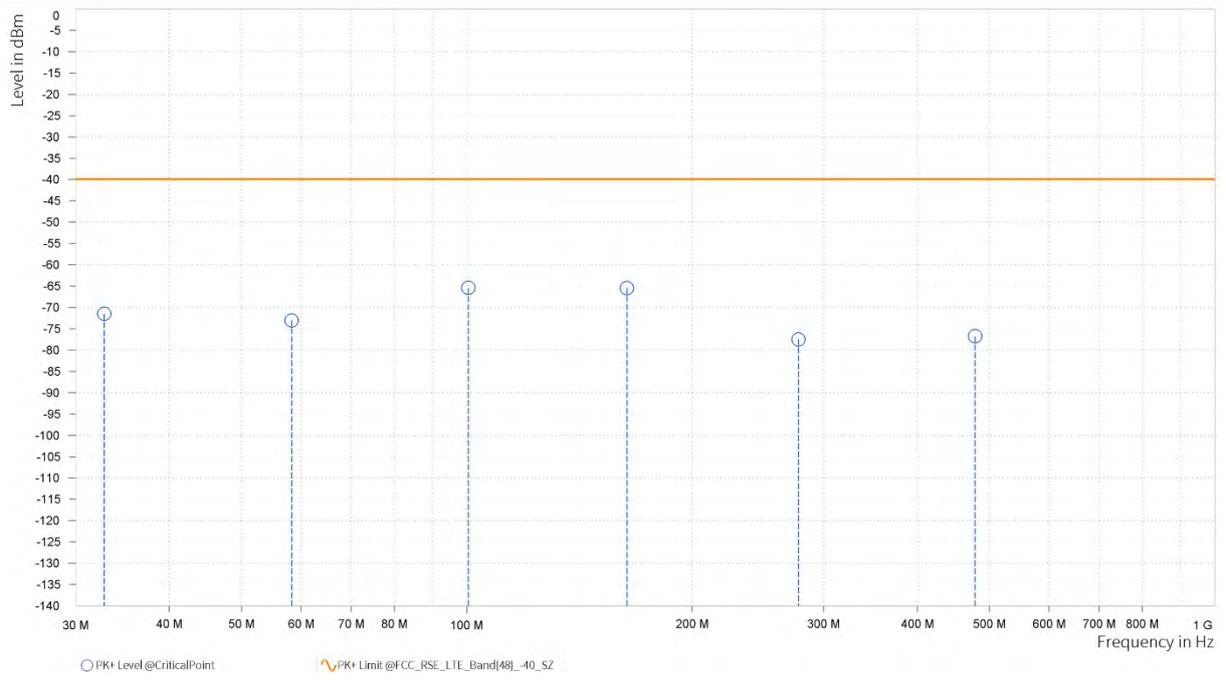
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MODE	TX channel 55990	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		

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	32.750	-71.49	-40.00	31.49	-7.02	V	264.7	1.00
1	58.300	-73.02	-40.00	33.02	-3.47	V	355	2.00
1	100.500	-65.41	-40.00	25.41	3.77	V	147.5	1.00
1	163.550	-65.44	-40.00	25.44	-10.80	V	60.3	1.00
1	277.550	-77.50	-40.00	37.50	-1.92	V	152.6	2.00
2	477.913	-76.73	-40.00	36.73	-1.36	V	220.5	1.00



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ABOVE 1GHz

Note: For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

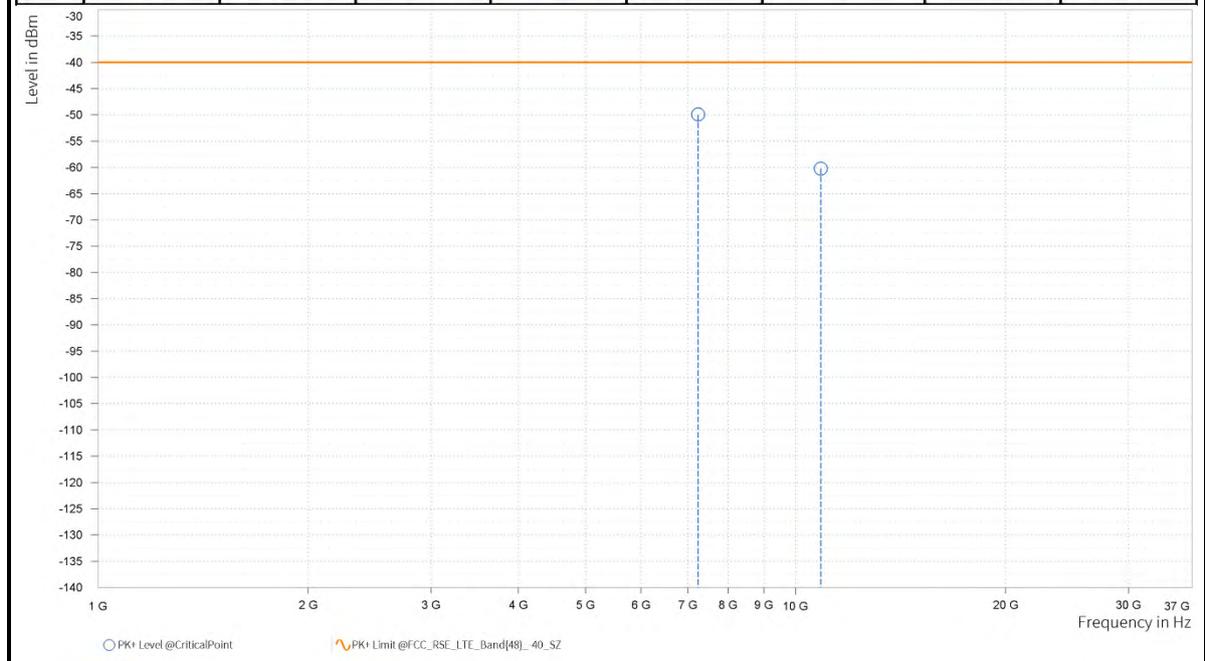
LTE BAND 48

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 55990	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Hanwen Xu		

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]
5	7,245.500	-49.94	-40.00	9.94	24.60	H	352.2	1.00
6	10,868.250	-60.22	-40.00	20.22	11.59	H	357	1.00

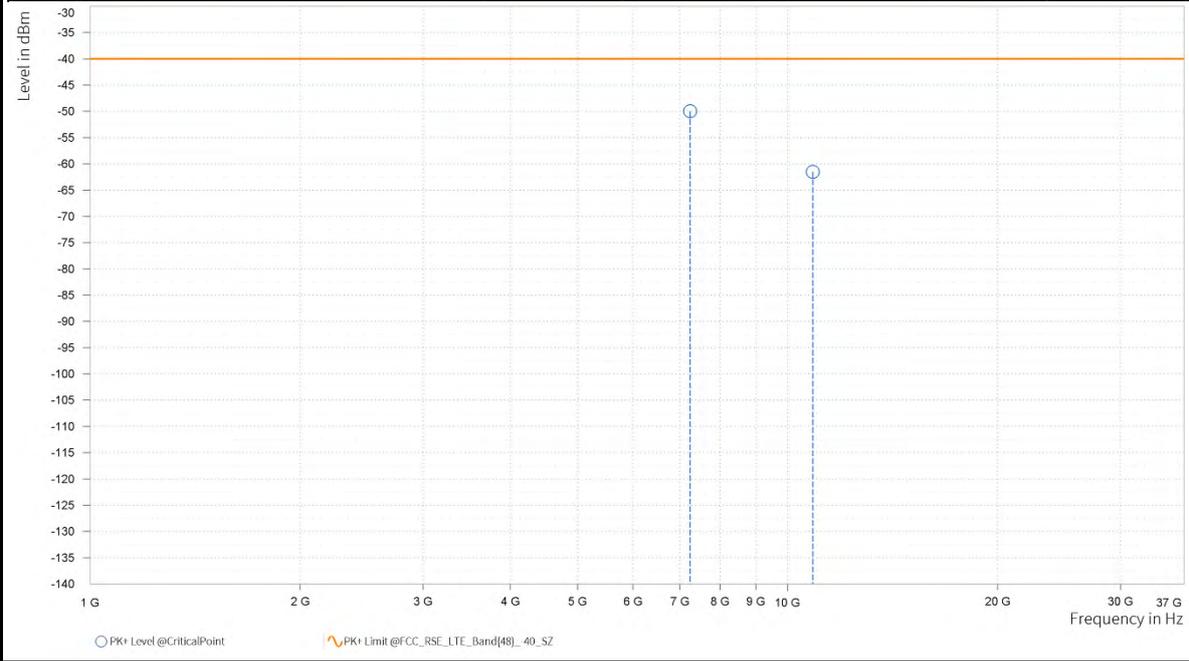




MODE	TX channel 55990	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Hanwen Xu		

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]
5	7,245.500	-49.98	-40.00	9.98	24.60	V	152.2	1.00
6	10,868.250	-61.51	-40.00	21.51	11.59	V	287.4	1.00



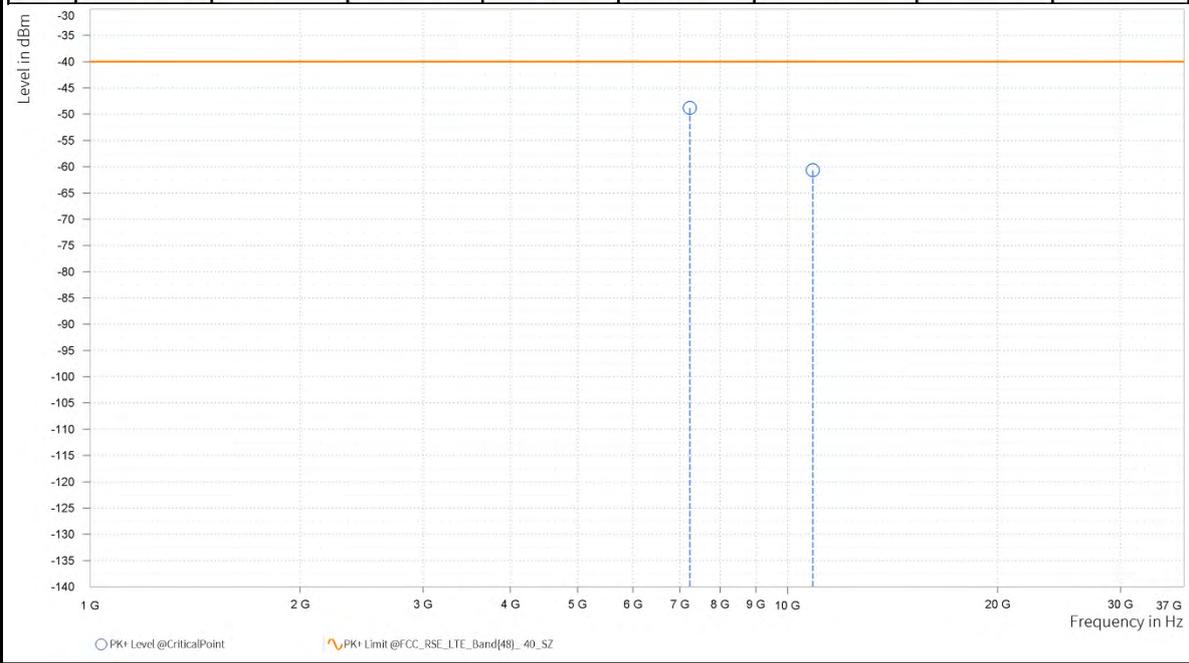


CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 55990	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Hanwen Xu		

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]
5	7,241.000	-48.81	-40.00	8.81	24.57	H	180.9	1.00
6	10,861.500	-60.69	-40.00	20.69	11.56	H	1	1.00

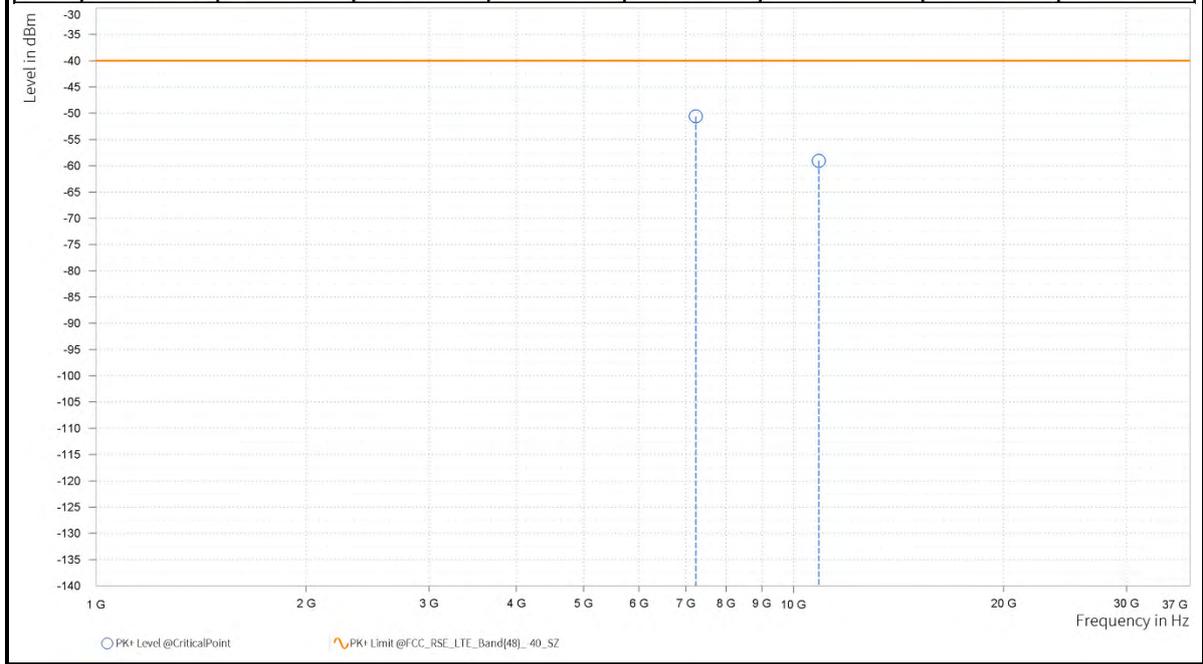




MODE	TX channel 55990	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Hanwen Xu		

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]
5	7,241.000	-50.62	-40.00	10.62	24.57	V	153.4	1.00
6	10,861.500	-59.05	-40.00	19.05	11.56	V	1	1.00





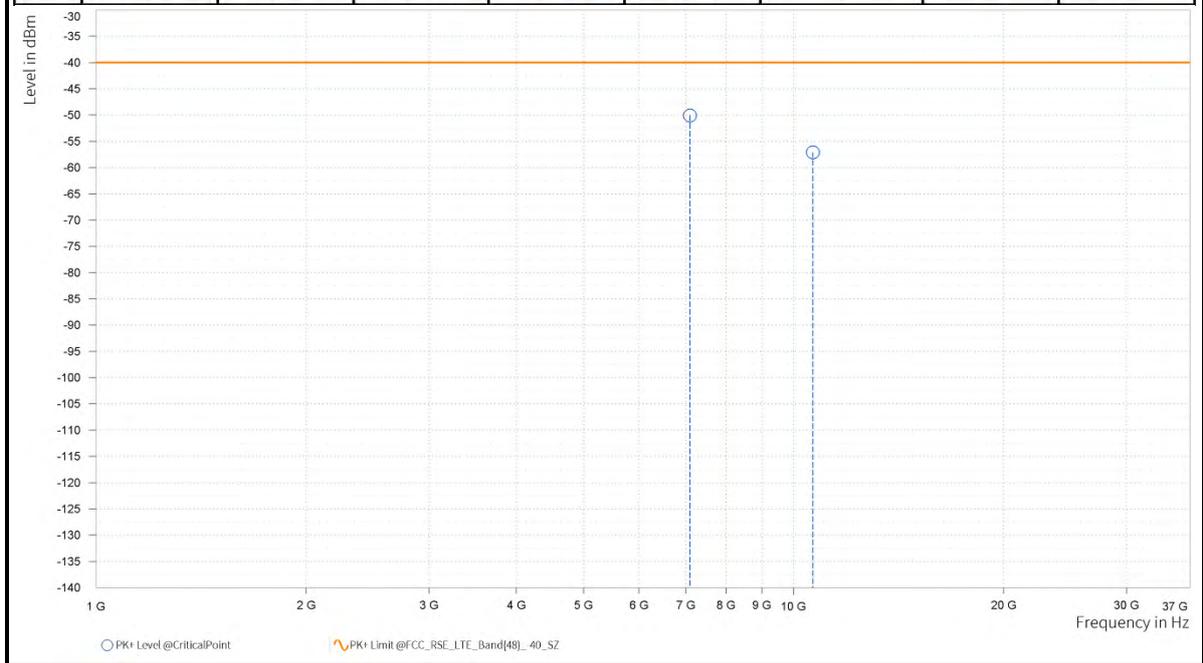
CHANNEL BANDWIDTH: 15MHz / QPSK

CH55990

MODE	TX channel 55315	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Hanwen Xu		

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]
5	7,101.500	-50.07	-40.00	10.07	24.36	H	359	1.00
6	10,652.250	-57.10	-40.00	17.10	11.67	H	2.8	2.00





MODE	TX channel 55315	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Hanwen Xu		

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]
5	7,101.500	-49.46	-40.00	9.46	24.36	V	359.1	1.00
6	10,652.250	-60.58	-40.00	20.58	11.67	V	1	2.00

