

FCC TEST REPORT

(PART 27)

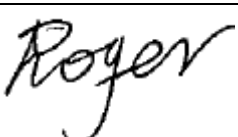
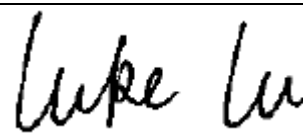
Applicant:	Fibocom Wireless Inc.
Address:	5/F, Tower A, Technology Building II, 1057 Nanhai Avenue, Shenzhen, China

Manufacturer or Supplier	Fibocom Wireless Inc.
Address	5/F, Tower A, Technology Building II, 1057 Nanhai Avenue, Shenzhen, China
Product	LTE Module
Brand Name	Fibocom
Model Name	L860-GL
FCC ID	ZMOL860GLD
Date of tests	Mar. 19, 2019 ~ Apr. 08, 2019

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

- ☒ 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 Roger Li Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: Apr. 08, 2019	 Date: Apr. 08, 2019

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**BUREAU
VERITAS**

Test Report No.: RF190318W003-4

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Test Report No.: RF190318W003-4

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF190318W003-4	Original release	Apr. 08, 2019

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 27 & Part 2			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
2.1046 27.50(h)(2)	Equivalent Isotropically Radiated Power	PASS	Meet the requirement of limit.
2.1055 27.54	Frequency Stability	N/A	See Note
2.1049 27.53(m)(6)	Occupied Bandwidth	N/A	See Note
27.50(d)(5)	Peak to average ratio	N/A	See Note
2.1051 27.53(m)(4)(6)	Band Edge Measurements	N/A	See Note
2.1051 27.53(m)(4)(6)	Conducted Spurious Emissions	N/A	See Note
2.1053 27.53(m)(4)(6)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -13.85dB at 7779MHz.

Note: 1. LTE 7 / LTE 38 data: Please refer to test report SZEM180500437001.
2. LTE 41 data: Please refer to test report ZR/2018/A000801.

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	±1dB
Frequency Stability	±39.27Hz
Radiated emissions	±4.48dB
Conducted emissions	±2 dB
Occupied Channel Bandwidth	±21.7KHz
Band Edge Measurements	±4.48dB
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.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 26,19	Feb. 25,20
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 26,19	Feb. 25,20
Bilog Antenna 1	ETS-LINDGREN	3143B	00161964	Feb. 26,19	Feb. 25,20
Bilog Antenna 2	ETS-LINDGREN	3143B	00161965	Feb. 26,19	Feb. 25,20
Horn Antenna 1	ETS-LINDGREN	3117	00168728	Feb. 26,19	Feb. 25,20
Horn Antenna 2	ETS-LINDGREN	3117	00168692	Nov. 30, 18	Nov. 29, 19
Loop antenna	Daze	ZN30900A	0708	Oct. 23,18	Oct. 22, 19
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40 -K-SG/QMS-00 361	15433	Nov. 21, 18	Nov. 20, 19
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 26,19	Feb. 25,20
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jul. 09,18	Jul. 08,19
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jul. 09,18	Jul. 08,19
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Jul. 09,18	Jul. 08,19
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143-1216	Feb. 26,19	Feb. 25,20
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SM A	1505	Jul. 09,18	Jul. 08,19
Power Meter	Anritsu	ML2495A	1506002	Feb. 26,19	Feb. 25,20
Power Sensor	Anritsu	MA2411B	1339352	Feb. 26,19	Feb. 25,20
Humid & Temp Programmable Tester	Juyi	ITH-120-45-CP -AR	IAA1504-001	Jul. 09,18	Jul. 08,19
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 26,19	Feb. 25,20

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 24 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.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	LTE Module	
MODEL NAME	L860-GL	
POWER SUPPLY	DC 3.3V	
MODULATION TECHNOLOGY	LTE	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	LTE Band 7 Channel Bandwidth: 5MHz	2502.5MHz ~ 2567.5MHz
	LTE Band 7 Channel Bandwidth: 10MHz	2505MHz ~ 2565MHz
	LTE Band 7 Channel Bandwidth: 15MHz	2507.5MHz ~ 2562.5MHz
	LTE Band 7 Channel Bandwidth: 20MHz	2510MHz ~ 2560MHz
	LTE Band 38 Channel Bandwidth: 5MHz	2572.5MHz ~ 2617.5MHz
	LTE Band 38 Channel Bandwidth: 10MHz	2575MHz ~ 2615MHz
	LTE Band 38 Channel Bandwidth: 15MHz	2577.5MHz ~ 2612.5MHz
	LTE Band 38 Channel Bandwidth: 20MHz	2580MHz ~ 2610MHz
	LTE Band 41 Channel Bandwidth: 5MHz	2498.5MHz ~ 2687.5MHz
	LTE Band 41 Channel Bandwidth: 10MHz	2501.0MHz ~ 2685.0MHz
	LTE Band 41 Channel Bandwidth: 15MHz	2503.5MHz ~ 2682.5MHz
	LTE Band 41 Channel Bandwidth: 20MHz	2506.0MHz ~ 2680.0MHz
MAX. EIRP POWER	LTE Band 7 Channel Bandwidth: 5MHz	328mW
	LTE Band 7 Channel Bandwidth: 10MHz	345mW
	LTE Band 7 Channel Bandwidth: 15MHz	334mW
	LTE Band 7 Channel Bandwidth: 20MHz	297mW
	LTE Band 38 Channel Bandwidth: 5MHz	348mW
	LTE Band 38 Channel Bandwidth: 10MHz	352mW
	LTE Band 38 Channel Bandwidth: 15MHz	347mW



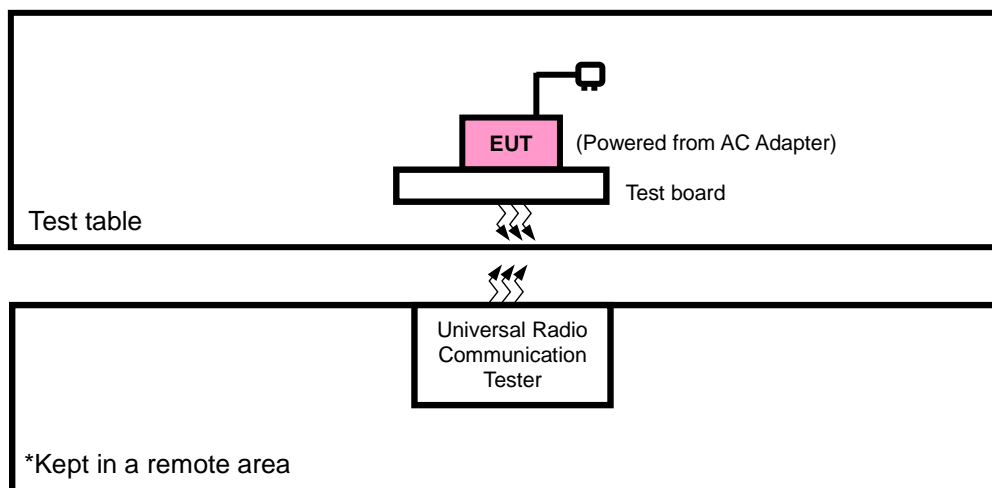
	LTE Band 38 Channel Bandwidth: 20MHz	313mW
	LTE Band 41 Channel Bandwidth: 5MHz	343mW
	LTE Band 41 Channel Bandwidth: 10MHz	356mW
	LTE Band 41 Channel Bandwidth: 15MHz	356mW
	LTE Band 41 Channel Bandwidth: 20MHz	313mW
ANTENNA TYPE	External Antenna with 5dBi gain	
HW VERSION	V1.2	
SW VERSION	18600.5006.00.31.00.02	
I/O PORTS	Refer to user's manual	
DATA CABLE	N/A	

NOTE:

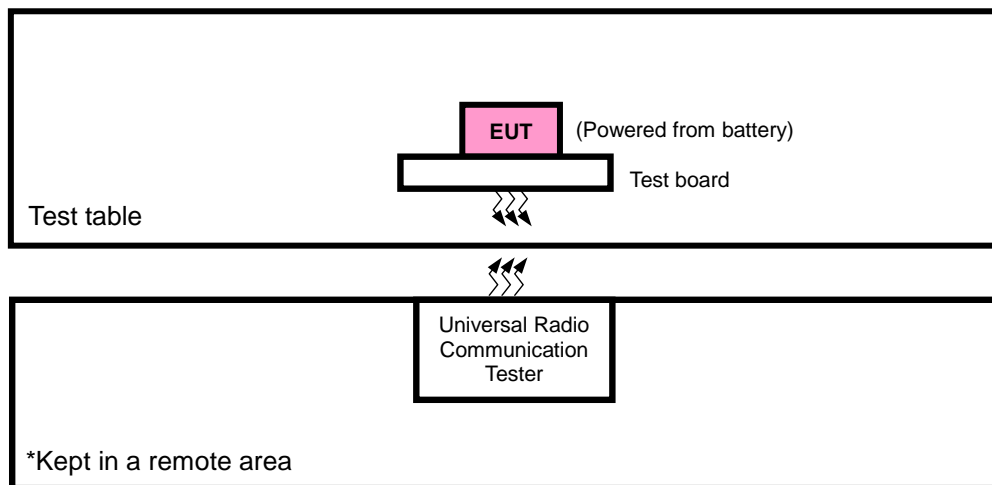
1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



FOR CONDUCTED & E.R.P./E.I.R.P 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	DC source	LONG WEI	PS-6403D	010934269	N/A
2	PC	HP	A6608CN	3CR83825X3	N/A
3	Test board	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.0m
2	AC Line: Unshielded, Detachable 1.5m
3	N/A

NOTE: All power cords of the above support units are non shielded (1.8m).

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
-	EUT with LTE link

LTE BAND 7 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
-	EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0RB Offset
		20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
-	RADIATED EMISSION	20775 to 21425	21100	5MHz	QPSK	1 RB / 0 RB Offset
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB / 0RB Offset
		20825 to 21375	21100	15MHz	QPSK	1 RB / 0 RB Offset
		20850 to 21350	21100	20MHz	QPSK	1 RB / 0 RB Offset

LTE BAND 38 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
-	EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0RB Offset
		37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
-	RADIATED EMISSION	37775 to 38225	38000	5MHz	QPSK	1 RB / 0 RB Offset
		37800 to 38200	37800, 38000, 38200	10MHz	QPSK	1 RB / 0RB Offset
		37825 to 38175	38000	15MHz	QPSK	1 RB / 0 RB Offset
		37850 to 38150	38000	20MHz	QPSK	1 RB / 0 RB Offset

LTE BAND 41 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
-	EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0RB Offset
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
-	RADIATED EMISSION	39675 to 41565	40620	5MHz	QPSK	1 RB / 0 RB Offset
		39700 to 41540	39700, 40620, 41540	10MHz	QPSK	1 RB / 0RB Offset
		39725 to 41515	40620	15MHz	QPSK	1 RB / 0 RB Offset
		39750 to 41490	40620	20MHz	QPSK	1 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
EIRP	24deg. C, 60%RH	DC 3.3V	Rose Ma
RADIATED EMISSION	23deg. C, 70%RH	DC 3.3V	Rose Ma

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 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

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.”

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

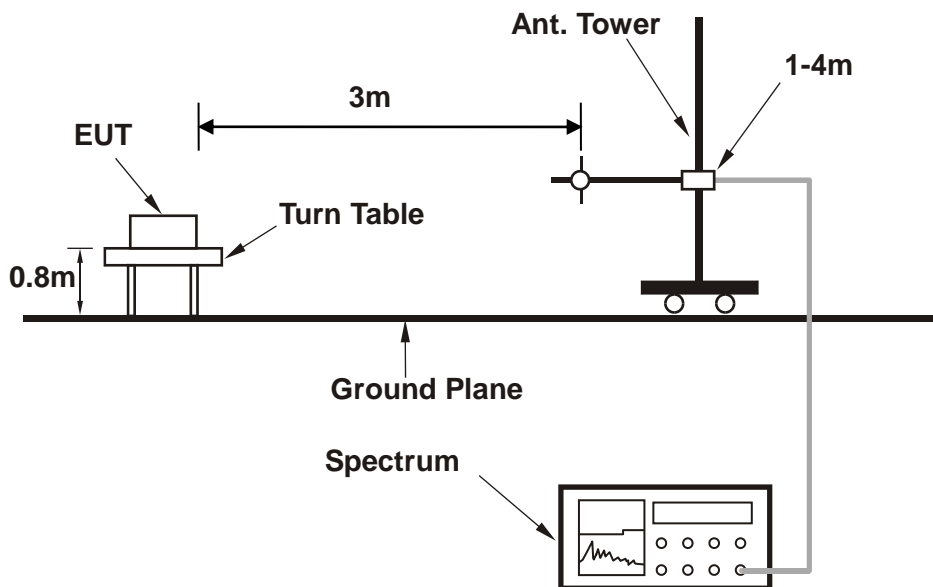
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 10MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the 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.
- c. 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 b. Record the power level of S.G.
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

CONDUCTED POWER MEASUREMENT:

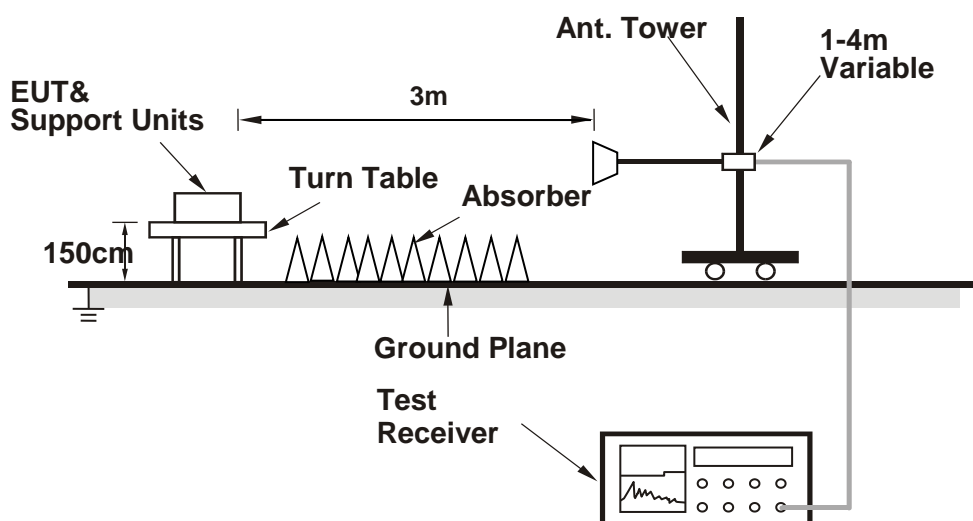
- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

3.1.3 TEST SETUP

ERP MEASUREMENT:

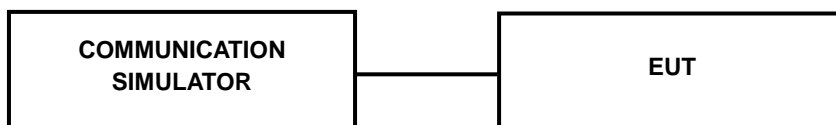


EIRP MEASUREMENT:



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

CONDUCTED POWER MEASUREMENT:



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

3.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

LTE Band 7							
BW	Modulation	RB Size	RB Offset	Low CH 20775	Mid CH 21100	High CH 21425	3GPP MPR (dB)
				Frequency 2502.5 MHz	Frequency 2535 MHz	Frequency 2567.5 MHz	
5MHz	QPSK	1	0	23.60	23.54	23.28	0
		1	12	23.41	23.35	23.09	0
		1	24	23.52	23.46	23.20	0
		12	0	22.51	22.45	22.19	1
		12	6	22.45	22.39	22.13	1
		12	13	22.47	22.41	22.15	1
		25	0	22.50	22.44	22.18	1
	16QAM	1	0	22.74	22.68	22.42	1
		1	12	22.62	22.56	22.30	1
		1	24	22.78	22.72	22.46	1
		12	0	21.56	21.50	21.24	2
		12	6	21.51	21.45	21.19	2
		12	13	21.37	21.31	21.05	2
		25	0	21.55	21.49	21.23	2
	64QAM	1	0	21.89	21.83	21.57	2
		1	12	21.71	21.65	21.39	2
		1	24	21.82	21.76	21.50	2
		12	0	20.56	20.50	20.24	3
		12	6	20.50	20.44	20.18	3
		12	13	20.48	20.42	20.16	3
		25	0	20.54	20.48	20.22	3

LTE Band 7							
BW	Modulation	RB Size	RB Offset	Low CH 20800	Mid CH 21100	High CH 21400	3GPP MPR (dB)
				Frequency 2505 MHz	Frequency 2535 MHz	Frequency 2565 MHz	
10MHz	QPSK	1	0	23.64	23.58	23.32	0
		1	24	23.45	23.39	23.13	0
		1	49	23.56	23.50	23.24	0
		25	0	22.55	22.49	22.23	1
		25	12	22.49	22.43	22.17	1
		25	25	22.51	22.45	22.19	1
		50	0	22.54	22.48	22.22	1
	16QAM	1	0	22.78	22.72	22.46	1
		1	24	22.66	22.60	22.34	1
		1	49	22.82	22.76	22.50	1
		25	0	21.60	21.54	21.28	2
		25	12	21.55	21.49	21.23	2
		25	25	21.41	21.35	21.09	2
		50	0	21.59	21.53	21.27	2
	64QAM	1	0	21.93	21.87	21.61	2
		1	24	21.75	21.69	21.43	2
		1	49	21.86	21.80	21.54	2
		25	0	20.60	20.54	20.28	3
		25	12	20.54	20.48	20.22	3
		25	25	20.52	20.46	20.20	3
		50	0	20.58	20.52	20.26	3

LTE Band 7							
BW	Modulation	RB Size	RB Offset	Low CH 20825	Mid CH 21100	High CH 21375	3GPP MPR (dB)
				Frequency 2507.5 MHz	Frequency 2535 MHz	Frequency 2562.5 MHz	
15MHz	QPSK	1	0	23.70	23.64	23.38	0
		1	37	23.51	23.45	23.19	0
		1	74	23.62	23.56	23.30	0
		36	0	22.61	22.55	22.29	1
		36	19	22.55	22.49	22.23	1
		36	39	22.57	22.51	22.25	1
		75	0	22.60	22.54	22.28	1
	16QAM	1	0	22.84	22.78	22.52	1
		1	37	22.72	22.66	22.40	1
		1	74	22.88	22.82	22.56	1
		36	0	21.66	21.60	21.34	2
		36	19	21.61	21.55	21.29	2
		36	39	21.47	21.41	21.15	2
		75	0	21.65	21.59	21.33	2
	64QAM	1	0	21.99	21.93	21.67	2
		1	37	21.81	21.75	21.49	2
		1	74	21.92	21.86	21.60	2
		36	0	20.66	20.60	20.34	3
		36	19	20.60	20.54	20.28	3
		36	39	20.58	20.52	20.26	3
		75	0	20.64	20.58	20.32	3

LTE Band 7							
BW	Modulation	RB Size	RB Offset	Low CH 20850	Mid CH 21100	High CH 21350	3GPP MPR (dB)
				Frequency 2510 MHz	Frequency 2535 MHz	Frequency 2560 MHz	
20MHz	QPSK	1	0	23.73	23.67	23.41	0
		1	50	23.54	23.48	23.22	0
		1	99	23.65	23.59	23.33	0
		50	0	22.64	22.58	22.32	1
		50	25	22.58	22.52	22.26	1
		50	50	22.60	22.54	22.28	1
		100	0	22.63	22.57	22.31	1
	16QAM	1	0	22.87	22.81	22.55	1
		1	50	22.75	22.69	22.43	1
		1	99	22.91	22.85	22.59	1
		50	0	21.69	21.63	21.37	2
		50	25	21.64	21.58	21.32	2
		50	50	21.50	21.44	21.18	2
		100	0	21.68	21.62	21.36	2
	64QAM	1	0	22.02	21.96	21.70	2
		1	50	21.84	21.78	21.52	2
		1	99	21.95	21.89	21.63	2
		50	0	20.69	20.63	20.37	3
		50	25	20.63	20.57	20.31	3
		50	50	20.61	20.55	20.29	3
		100	0	20.67	20.61	20.35	3

LTE Band 38							
BW	Modulation	RB Size	RB Offset	Low CH 37775	Mid CH 38000	High CH 38225	3GPP MPR (dB)
				Frequency 2572.5 MHz	Frequency 2595 MHz	Frequency 2617.5MHz	
5MHz	QPSK	1	0	22.98	22.82	22.77	0
		1	12	22.87	22.71	22.66	0
		1	24	22.95	22.79	22.74	0
		12	0	21.90	21.74	21.69	1
		12	6	21.89	21.73	21.68	1
		12	13	21.85	21.69	21.64	1
		25	0	21.87	21.71	21.66	1
	16QAM	1	0	21.99	21.83	21.78	1
		1	12	21.87	21.71	21.66	1
		1	24	21.83	21.67	21.62	1
		12	0	20.94	20.78	20.73	2
		12	6	20.92	20.76	20.71	2
		12	13	20.87	20.71	20.66	2
		25	0	20.92	20.76	20.71	2
	64QAM	1	0	21.14	20.98	20.93	2
		1	12	21.10	20.94	20.89	2
		1	24	21.07	20.91	20.86	2
		12	0	19.94	19.78	19.73	3
		12	6	19.93	19.77	19.72	3
		12	13	19.92	19.76	19.71	3
		25	0	19.91	19.75	19.70	3

LTE Band 38							
BW	Modulation	RB Size	RB Offset	Low CH 37800	Mid CH 38000	High CH 38200	3GPP MPR (dB)
				Frequency 2575 MHz	Frequency 2595 MHz	Frequency 2615 MHz	
10MHz	QPSK	1	0	23.02	22.86	22.81	0
		1	24	22.91	22.75	22.70	0
		1	49	22.99	22.83	22.78	0
		25	0	21.94	21.78	21.73	1
		25	12	21.93	21.77	21.72	1
		25	25	21.89	21.73	21.68	1
		50	0	21.91	21.75	21.70	1
	16QAM	1	0	22.03	21.87	21.82	1
		1	24	21.91	21.75	21.70	1
		1	49	21.87	21.71	21.66	1
		25	0	20.98	20.82	20.77	2
		25	12	20.96	20.80	20.75	2
		25	25	20.91	20.75	20.70	2
		50	0	20.96	20.80	20.75	2
	64QAM	1	0	21.18	21.02	20.97	2
		1	24	21.14	20.98	20.93	2
		1	49	21.11	20.95	20.90	2
		25	0	19.98	19.82	19.77	3
		25	12	19.97	19.81	19.76	3
		25	25	19.96	19.80	19.75	3
		50	0	19.95	19.79	19.74	3

LTE Band 38							
BW	Modulation	RB Size	RB Offset	Low CH 37825	Mid CH 38000	High CH 38175	3GPP MPR (dB)
				Frequency 2577.5 MHz	Frequency 2595 MHz	Frequency 2612.5MHz	
15MHz	QPSK	1	0	23.05	22.89	22.84	0
		1	37	22.94	22.78	22.73	0
		1	74	23.02	22.86	22.81	0
		36	0	21.97	21.81	21.76	1
		36	19	21.96	21.80	21.75	1
		36	39	21.92	21.76	21.71	1
		75	0	21.94	21.78	21.73	1
	16QAM	1	0	22.06	21.90	21.85	1
		1	37	21.94	21.78	21.73	1
		1	74	21.90	21.74	21.69	1
		36	0	21.01	20.85	20.80	2
		36	19	20.99	20.83	20.78	2
		36	39	20.94	20.78	20.73	2
		75	0	20.99	20.83	20.78	2
	64QAM	1	0	21.21	21.05	21.00	2
		1	37	21.17	21.01	20.96	2
		1	74	21.14	20.98	20.93	2
		36	0	20.01	19.85	19.80	3
		36	19	20.00	19.84	19.79	3
		36	39	19.99	19.83	19.78	3
		75	0	19.98	19.82	19.77	3

LTE Band 38							
BW	Modulation	RB Size	RB Offset	Low CH 37850	Mid CH 38000	High CH 38150	3GPP MPR (dB)
				Frequency 2580 MHz	Frequency 2595 MHz	Frequency 2610 MHz	
20MHz	QPSK	1	0	23.12	22.96	22.91	0
		1	50	23.01	22.85	22.80	0
		1	99	23.09	22.93	22.88	0
		50	0	22.04	21.88	21.83	1
		50	25	22.03	21.87	21.82	1
		50	50	21.99	21.83	21.78	1
		100	0	22.01	21.85	21.80	1
	16QAM	1	0	22.13	21.97	21.92	1
		1	50	22.01	21.85	21.80	1
		1	99	21.97	21.81	21.76	1
		50	0	21.08	20.92	20.87	2
		50	25	21.06	20.90	20.85	2
		50	50	21.01	20.85	20.80	2
		100	0	21.06	20.90	20.85	2
	64QAM	1	0	21.28	21.12	21.07	2
		1	50	21.24	21.08	21.03	2
		1	99	21.21	21.05	21.00	2
		50	0	20.08	19.92	19.87	3
		50	25	20.07	19.91	19.86	3
		50	50	20.06	19.90	19.85	3
		100	0	20.05	19.89	19.84	3

LTE Band 41									
BW	Modulation	RB Size	RB Offset	Low CH (39675)	Low CH (40148)	Mid CH (40620)	High CH (41093)	High CH (41565)	3GPP MPR (dB)
				Frequency (2498.5)MHz	Frequency (2545.8)MHz	Frequency (2593)MHz	Frequency (2640.3)MHz	Frequency (2687.5)MHz	
5MHz	QPSK	1	0	23.70	23.04	22.80	22.55	22.41	0
		1	12	23.59	22.93	22.69	22.44	22.30	0
		1	24	23.67	23.01	22.77	22.52	22.38	0
		12	0	22.61	21.95	21.71	21.46	21.32	1
		12	6	22.58	21.92	21.68	21.43	21.29	1
		12	13	22.56	21.90	21.66	21.41	21.27	1
		25	0	22.57	21.91	21.67	21.42	21.28	1
	16QAM	1	0	22.79	22.13	21.89	21.64	21.50	1
		1	12	22.71	22.05	21.81	21.56	21.42	1
		1	24	22.77	22.11	21.87	21.62	21.48	1
		12	0	21.64	20.98	20.74	20.49	20.35	2
		12	6	21.55	20.89	20.65	20.40	20.26	2
		12	13	21.61	20.95	20.71	20.46	20.32	2
		25	0	21.57	20.91	20.67	20.42	20.28	2
	64QAM	1	0	21.87	21.21	20.97	20.72	20.58	2
		1	12	21.82	21.16	20.92	20.67	20.53	2
		1	24	21.85	21.19	20.95	20.70	20.56	2
		12	0	20.59	19.93	19.69	19.44	19.30	3
		12	6	20.54	19.88	19.64	19.39	19.25	3
		12	13	20.56	19.90	19.66	19.41	19.27	3
		25	0	20.53	19.87	19.63	19.38	19.24	3

LTE Band 41									
BW	Modulation	RB Size	RB Offset	Low CH (39700)	Low CH (40160)	Mid CH (40620)	High CH (41080)	High CH (41540)	3GPP MPR (dB)
				Frequency (2501)MHz	Frequency (2547)MHz	Frequency (2593)MHz	Frequency (2639)MHz	Frequency (2685)MHz	
10MHz	QPSK	1	0	23.73	23.07	22.83	22.58	22.44	0
		1	24	23.62	22.96	22.72	22.47	22.33	0
		1	49	23.70	23.04	22.80	22.55	22.41	0
		25	0	22.64	21.98	21.74	21.49	21.35	1
		25	12	22.61	21.95	21.71	21.46	21.32	1
		25	25	22.59	21.93	21.69	21.44	21.30	1
		50	0	22.60	21.94	21.70	21.45	21.31	1
	16QAM	1	0	22.82	22.16	21.92	21.67	21.53	1
		1	24	22.74	22.08	21.84	21.59	21.45	1
		1	49	22.80	22.14	21.90	21.65	21.51	1
		25	0	21.67	21.01	20.77	20.52	20.38	2
		25	12	21.58	20.92	20.68	20.43	20.29	2
		25	25	21.64	20.98	20.74	20.49	20.35	2
		50	0	21.60	20.94	20.70	20.45	20.31	2
	64QAM	1	0	21.92	21.26	21.02	20.77	20.63	2
		1	24	21.87	21.21	20.97	20.72	20.58	2
		1	49	21.90	21.24	21.00	20.75	20.61	2
		25	0	20.64	19.98	19.74	19.49	19.35	3
		25	12	20.59	19.93	19.69	19.44	19.30	3
		25	25	20.61	19.95	19.71	19.46	19.32	3
		50	0	20.58	19.92	19.68	19.43	19.29	3

LTE Band 41									
BW	Modulation	RB Size	RB Offset	Low CH (39725)	Low CH (40173)	Mid CH (40620)	High CH (41068)	High CH (41515)	3GPP MPR (dB)
				Frequency (2503.5)MHz	Frequency (2548.3)MHz	Frequency (2593)MHz	Frequency (2637.8)MHz	Frequency (2682.5)MHz	
15MHz	QPSK	1	0	23.66	23.00	22.76	22.51	22.37	0
		1	37	23.74	23.08	22.84	22.59	22.45	0
		1	74	22.68	22.02	21.78	21.53	21.39	0
		36	0	22.65	21.99	21.75	21.50	21.36	1
		36	19	22.63	21.97	21.73	21.48	21.34	1
		36	39	22.64	21.98	21.74	21.49	21.35	1
		75	0	22.86	22.20	21.96	21.71	21.57	1
	16QAM	1	0	22.78	22.12	21.88	21.63	21.49	1
		1	37	22.84	22.18	21.94	21.69	21.55	1
		1	74	21.71	21.05	20.81	20.56	20.42	1
		36	0	21.62	20.96	20.72	20.47	20.33	2
		36	19	21.68	21.02	20.78	20.53	20.39	2
		36	39	21.64	20.98	20.74	20.49	20.35	2
		75	0	21.97	21.31	21.07	20.82	20.68	2
	64QAM	1	0	21.92	21.26	21.02	20.77	20.63	2
		1	37	21.95	21.29	21.05	20.80	20.66	2
		1	74	20.69	20.03	19.79	19.54	19.40	2
		36	0	20.64	19.98	19.74	19.49	19.35	3
		36	19	20.66	20.00	19.76	19.51	19.37	3
		36	39	20.63	19.97	19.73	19.48	19.34	3
		75	0	23.66	23.00	22.76	22.51	22.37	3

LTE Band 41									
BW	Modulation	RB Size	RB Offset	Low CH (39750)	Low CH (40185)	Mid CH (40620)	High CH (41055)	High CH (41490)	3GPP MPR (dB)
				Frequency (2506)MHz	Frequency (2549.5)MHz	Frequency (2593)MHz	Frequency (2636.5)MHz	Frequency (2680)MHz	
20MHz	QPSK	1	0	23.83	23.17	22.93	22.68	22.54	0
		1	50	23.72	23.06	22.82	22.57	22.43	0
		1	99	23.80	23.14	22.90	22.65	22.51	0
		50	0	22.74	22.08	21.84	21.59	21.45	1
		50	25	22.71	22.05	21.81	21.56	21.42	1
		50	50	22.69	22.03	21.79	21.54	21.40	1
		100	0	22.70	22.04	21.80	21.55	21.41	1
	16QAM	1	0	22.92	22.26	22.02	21.77	21.63	1
		1	50	22.84	22.18	21.94	21.69	21.55	1
		1	99	22.90	22.24	22.00	21.75	21.61	1
		50	0	21.77	21.11	20.87	20.62	20.48	2
		50	25	21.68	21.02	20.78	20.53	20.39	2
		50	50	21.74	21.08	20.84	20.59	20.45	2
		100	0	21.70	21.04	20.80	20.55	20.41	2
	64QAM	1	0	22.02	21.36	21.12	20.87	20.73	2
		1	50	21.97	21.31	21.07	20.82	20.68	2
		1	99	22.00	21.34	21.10	20.85	20.71	2
		50	0	20.74	20.08	19.84	19.59	19.45	3
		50	25	20.69	20.03	19.79	19.54	19.40	3
		50	50	20.71	20.05	19.81	19.56	19.42	3
		100	0	20.68	20.02	19.78	19.53	19.39	3

EIRP

LTE BAND 7

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20775	2502.5	-22.72	45.65	22.93	196.25	H	2
21100	2535.0	-22.05	46.04	23.99	250.32	H	2
21425	2567.5	-22.79	45.87	23.08	203.05	H	2
20775	2502.5	-22.51	47.03	24.52	283.01	V	2
21100	2535.0	-21.78	46.57	24.79	301.30	V	2
21425	2567.5	-21.82	46.98	25.16	328.10	V	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20775	2502.5	-23.55	45.65	22.10	162.11	H	2
21100	2535.0	-23.07	46.04	22.97	197.92	H	2
21425	2567.5	-23.89	45.87	21.98	157.62	H	2
20775	2502.5	-23.34	47.03	23.69	233.78	V	2
21100	2535.0	-22.80	46.57	23.77	238.23	V	2
21425	2567.5	-22.92	46.98	24.06	254.68	V	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20775	2502.5	-23.85	45.65	21.80	151.29	H	2
21100	2535.0	-23.14	46.04	22.90	194.76	H	2
21425	2567.5	-24.13	45.87	21.74	149.14	H	2
20775	2502.5	-23.57	47.03	23.46	221.72	V	2
21100	2535.0	-23.01	46.57	23.56	226.99	V	2
21425	2567.5	-23.14	46.98	23.84	242.10	V	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20800	2505.0	-22.53	45.65	23.12	205.07	H	2
21100	2535.0	-21.99	46.04	24.05	253.80	H	2
21400	2565.0	-22.66	46.07	23.41	219.03	H	2
20800	2505.0	-22.32	47.18	24.86	305.91	V	2
21100	2535.0	-21.72	46.57	24.85	305.49	V	2
21400	2565.0	-21.69	47.06	25.37	344.67	V	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20800	2505.0	-23.68	45.65	21.97	157.36	H	2
21100	2535.0	-23.09	46.04	22.95	197.02	H	2
21400	2565.0	-23.82	46.07	22.25	167.69	H	2
20800	2505.0	-23.47	47.18	23.71	234.75	V	2
21100	2535.0	-22.82	46.57	23.75	237.14	V	2
21400	2565.0	-22.85	47.06	24.21	263.88	V	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20800	2505.0	-23.98	45.65	21.67	146.86	H	2
21100	2535.0	-23.16	46.04	22.88	193.87	H	2
21400	2565.0	-24.06	46.07	22.01	158.67	H	2
20800	2505.0	-23.70	47.18	23.48	222.64	V	2
21100	2535.0	-23.03	46.57	23.54	225.94	V	2
21400	2565.0	-23.07	47.06	23.99	250.84	V	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20825	2507.5	-22.54	45.63	23.09	203.84	H	2
21100	2535.0	-22.06	46.04	23.98	249.75	H	2
21375	2562.5	-22.73	45.94	23.21	209.31	H	2
20825	2507.5	-22.33	47.39	25.06	320.55	V	2
21100	2535.0	-21.79	46.57	24.78	300.61	V	2
21375	2562.5	-21.76	47.00	25.24	334.12	V	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20825	2507.5	-23.40	45.63	22.23	167.22	H	2
21100	2535.0	-22.93	46.04	23.11	204.41	H	2
21375	2562.5	-23.58	45.94	22.36	172.11	H	2
20825	2507.5	-23.19	47.39	24.20	262.97	V	2
21100	2535.0	-22.66	46.57	23.91	246.04	V	2
21375	2562.5	-22.61	47.00	24.39	274.73	V	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20825	2507.5	-23.70	45.63	21.93	156.06	H	2
21100	2535.0	-23.00	46.04	23.04	201.14	H	2
21375	2562.5	-23.82	45.94	22.12	162.85	H	2
20825	2507.5	-23.42	47.39	23.97	249.40	V	2
21100	2535.0	-22.87	46.57	23.70	234.42	V	2
21375	2562.5	-22.83	47.00	24.17	261.16	V	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20850	2510.0	-23.12	45.80	22.68	185.31	H	2
21100	2535.0	-22.51	46.04	23.53	225.16	H	2
21350	2560.0	-23.31	45.83	22.52	178.77	H	2
20850	2510.0	-22.91	47.21	24.30	269.15	V	2
21100	2535.0	-22.24	46.57	24.33	270.77	V	2
21350	2560.0	-22.34	47.07	24.73	297.10	V	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20850	2510.0	-24.05	45.80	21.75	149.59	H	2
21100	2535.0	-23.58	46.04	22.46	175.99	H	2
21350	2560.0	-24.14	45.83	21.69	147.67	H	2
20850	2510.0	-23.84	47.21	23.37	217.27	V	2
21100	2535.0	-23.31	46.57	23.26	211.64	V	2
21350	2560.0	-23.17	47.07	23.90	245.41	V	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20850	2510.0	-24.35	45.80	21.45	139.60	H	2
21100	2535.0	-23.65	46.04	22.39	173.18	H	2
21350	2560.0	-24.38	45.83	21.45	139.73	H	2
20850	2510.0	-24.07	47.21	23.14	206.06	V	2
21100	2535.0	-23.52	46.57	23.05	201.65	V	2
21350	2560.0	-23.39	47.07	23.68	233.29	V	2

REMARKS: 1. EIRP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB).
2. Correction factor (dB) = Free Space Loss + Antenna Factor + Cable Loss

LTE BAND 38

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
37775	2572.5	-25.24	45.91	20.67	116.68	H	2
38000	2595.0	-24.70	46.04	21.34	136.14	H	2
38225	2617.5	-23.79	46.23	22.44	175.39	H	2
37775	2572.5	-21.96	46.92	24.96	313.33	V	2
38000	2595.0	-21.69	47.10	25.41	347.54	V	2
38225	2617.5	-21.96	47.26	25.30	338.84	V	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
37775	2572.5	-26.07	45.91	19.84	96.38	H	2
38000	2595.0	-25.72	46.04	20.32	107.65	H	2
38225	2617.5	-24.89	46.23	21.34	136.14	H	2
37775	2572.5	-22.79	46.92	24.13	258.82	V	2
38000	2595.0	-22.71	47.10	24.39	274.79	V	2
38225	2617.5	-23.06	47.26	24.20	263.03	V	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
37775	2572.5	-26.21	45.91	19.70	93.33	H	2
38000	2595.0	-25.89	46.04	20.15	103.51	H	2
38225	2617.5	-25.14	46.23	21.09	128.53	H	2
37775	2572.5	-22.88	46.92	24.04	253.51	V	2
38000	2595.0	-23.11	47.10	23.99	250.61	V	2
38225	2617.5	-23.36	47.26	23.90	245.47	V	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
37800	2575.0	-25.05	45.96	20.91	123.31	H	2
38000	2595.0	-24.64	46.04	21.40	138.04	H	2
38200	2615.0	-23.66	46.18	22.52	178.65	H	2
37800	2575.0	-21.77	46.99	25.22	332.66	V	2
38000	2595.0	-21.63	47.10	25.47	352.37	V	2
38200	2615.0	-21.83	47.21	25.38	345.14	V	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
37800	2575.0	-26.20	45.96	19.76	94.62	H	2
38000	2595.0	-25.74	46.04	20.30	107.15	H	2
38200	2615.0	-24.82	46.18	21.36	136.77	H	2
37800	2575.0	-22.92	46.99	24.07	255.27	V	2
38000	2595.0	-22.73	47.10	24.37	273.53	V	2
38200	2615.0	-22.99	47.21	24.22	264.24	V	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
37800	2575.0	-26.34	45.96	19.62	91.62	H	2
38000	2595.0	-25.91	46.04	20.13	103.04	H	2
38200	2615.0	-25.07	46.18	21.11	129.12	H	2
37800	2575.0	-23.01	46.99	23.98	250.03	V	2
38000	2595.0	-23.13	47.10	23.97	249.46	V	2
38200	2615.0	-23.29	47.21	23.92	246.60	V	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
37825	2577.5	-25.06	46.01	20.95	124.45	H	2
38000	2595.0	-24.71	46.04	21.33	135.83	H	2
38175	2612.5	-23.73	46.14	22.41	174.18	H	2
37825	2577.5	-21.78	47.03	25.25	334.97	V	2
38000	2595.0	-21.70	47.10	25.40	346.74	V	2
38175	2612.5	-21.90	47.17	25.27	336.51	V	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
37825	2577.5	-25.92	46.01	20.09	102.09	H	2
38000	2595.0	-25.58	46.04	20.46	111.17	H	2
38175	2612.5	-24.58	46.14	21.56	143.22	H	2
37825	2577.5	-22.64	47.03	24.39	274.79	V	2
38000	2595.0	-22.57	47.10	24.53	283.79	V	2
38175	2612.5	-22.75	47.17	24.42	276.69	V	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
37825	2577.5	-26.06	46.01	19.95	98.86	H	2
38000	2595.0	-25.75	46.04	20.29	106.91	H	2
38175	2612.5	-24.83	46.14	21.31	135.21	H	2
37825	2577.5	-22.73	47.03	24.30	269.15	V	2
38000	2595.0	-22.97	47.10	24.13	258.82	V	2
38175	2612.5	-23.05	47.17	24.12	258.23	V	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
37850	2580.0	-25.64	46.05	20.41	109.90	H	2
38000	2595.0	-25.16	46.04	20.88	122.46	H	2
38150	2610.0	-24.31	46.11	21.80	151.36	H	2
37850	2580.0	-22.36	47.07	24.71	295.80	V	2
38000	2595.0	-22.15	47.10	24.95	312.61	V	2
38150	2610.0	-22.48	47.13	24.65	291.74	V	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
37850	2580.0	-26.57	46.05	19.48	88.72	H	2
38000	2595.0	-26.23	46.04	19.81	95.72	H	2
38150	2610.0	-25.14	46.11	20.97	125.03	H	2
37850	2580.0	-23.29	47.07	23.78	238.78	V	2
38000	2595.0	-23.22	47.10	23.88	244.34	V	2
38150	2610.0	-23.31	47.13	23.82	240.99	V	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
37850	2580.0	-26.71	46.05	19.34	85.90	H	2
38000	2595.0	-26.40	46.04	19.64	92.04	H	2
38150	2610.0	-25.39	46.11	20.72	118.03	H	2
37850	2580.0	-23.38	47.07	23.69	233.88	V	2
38000	2595.0	-23.62	47.10	23.48	222.84	V	2
38150	2610.0	-23.61	47.13	23.52	224.91	V	2

REMARKS: 1. EIRP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB).
2. Correction factor (dB) = Free Space Loss + Antenna Factor + Cable Loss

LTE BAND 41

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
39675	2498.5	-24.05	45.69	21.64	145.88	H	2
40620	2593.0	-24.05	46.07	22.02	159.22	H	2
41565	2687.5	-24.84	46.49	21.65	146.22	H	2
39675	2498.5	-21.45	46.76	25.31	339.63	V	2
40620	2593.0	-21.78	47.13	25.35	342.77	V	2
41565	2687.5	-22.26	47.60	25.34	341.98	V	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
39675	2498.5	-24.88	45.69	20.81	120.50	H	2
40620	2593.0	-25.07	46.07	21.00	125.89	H	2
41565	2687.5	-25.94	46.49	20.55	113.50	H	2
39675	2498.5	-22.28	46.76	24.48	280.54	V	2
40620	2593.0	-22.80	47.13	24.33	271.02	V	2
41565	2687.5	-23.36	47.60	24.24	265.46	V	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
39675	2498.5	-25.09	45.69	20.60	114.82	H	2
40620	2593.0	-25.31	46.07	20.76	119.12	H	2
41565	2687.5	-26.06	46.49	20.43	110.41	H	2
39675	2498.5	-22.68	46.76	24.08	255.86	V	2
40620	2593.0	-23.14	47.13	23.99	250.61	V	2
41565	2687.5	-23.55	47.60	24.05	254.10	V	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
39700	2501.0	-23.86	45.71	21.85	153.11	H	2
40620	2593.0	-23.99	46.07	22.08	161.44	H	2
41540	2685.0	-24.71	46.42	21.71	148.25	H	2
39700	2501.0	-21.26	46.78	25.52	356.45	V	2
40620	2593.0	-21.72	47.13	25.41	347.54	V	2
41540	2685.0	-22.13	47.56	25.43	349.14	V	2

CHANNEL BANDWIDTH: 10Mz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
39700	2501.0	-25.01	45.71	20.70	117.49	H	2
40620	2593.0	-25.09	46.07	20.98	125.31	H	2
41540	2685.0	-25.87	46.42	20.55	113.50	H	2
39700	2501.0	-22.41	46.78	24.37	273.53	V	2
40620	2593.0	-22.82	47.13	24.31	269.77	V	2
41540	2685.0	-23.29	47.56	24.27	267.30	V	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
39700	2501.0	-25.22	45.71	20.49	111.94	H	2
40620	2593.0	-25.33	46.07	20.74	118.58	H	2
41540	2685.0	-25.99	46.42	20.43	110.41	H	2
39700	2501.0	-22.81	46.78	23.97	249.46	V	2
40620	2593.0	-23.16	47.13	23.97	249.46	V	2
41540	2685.0	-23.48	47.56	24.08	255.86	V	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
39725	2503.5	-23.87	45.74	21.87	153.82	H	2
40620	2593.0	-24.06	46.07	22.01	158.85	H	2
41515	2682.5	-24.78	46.39	21.61	144.88	H	2
39725	2503.5	-21.27	46.78	25.51	355.63	V	2
40620	2593.0	-21.79	47.13	25.34	341.98	V	2
41515	2682.5	-22.20	47.41	25.21	331.89	V	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
39725	2503.5	-24.73	45.74	21.01	126.18	H	2
40620	2593.0	-24.93	46.07	21.14	130.02	H	2
41515	2682.5	-25.63	46.39	20.76	119.12	H	2
39725	2503.5	-22.13	46.78	24.65	291.74	V	2
40620	2593.0	-22.66	47.13	24.47	279.90	V	2
41515	2682.5	-23.05	47.41	24.36	272.90	V	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
39725	2503.5	-24.94	45.74	20.80	120.23	H	2
40620	2593.0	-25.17	46.07	20.90	123.03	H	2
41515	2682.5	-25.75	46.39	20.64	115.88	H	2
39725	2503.5	-22.53	46.78	24.25	266.07	V	2
40620	2593.0	-23.00	47.13	24.13	258.82	V	2
41515	2682.5	-23.24	47.41	24.17	261.22	V	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
39750	2506.0	-24.45	45.76	21.31	135.21	H	2
40620	2593.0	-24.51	46.07	21.56	143.22	H	2
41490	2680.0	-25.36	46.36	21.00	125.89	H	2
39750	2506.0	-21.85	46.80	24.95	312.61	V	2
40620	2593.0	-22.24	47.13	24.89	308.32	V	2
41490	2680.0	-22.78	47.39	24.61	289.07	V	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
39750	2506.0	-25.38	45.76	20.38	109.14	H	2
40620	2593.0	-25.58	46.07	20.49	111.94	H	2
41490	2680.0	-26.19	46.36	20.17	103.99	H	2
39750	2506.0	-22.78	46.80	24.02	252.35	V	2
40620	2593.0	-23.31	47.13	23.82	240.99	V	2
41490	2680.0	-23.61	47.39	23.78	238.78	V	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
39750	2506.0	-25.59	45.76	20.17	103.99	H	2
40620	2593.0	-25.82	46.07	20.25	105.93	H	2
41490	2680.0	-26.31	46.36	20.05	101.16	H	2
39750	2506.0	-23.18	46.80	23.62	230.14	V	2
40620	2593.0	-23.65	47.13	23.48	222.84	V	2
41490	2680.0	-23.80	47.39	23.59	228.56	V	2

REMARKS: 1. EIRP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB).
2. Correction factor (dB) = Free Space Loss + Antenna Factor + Cable Loss

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

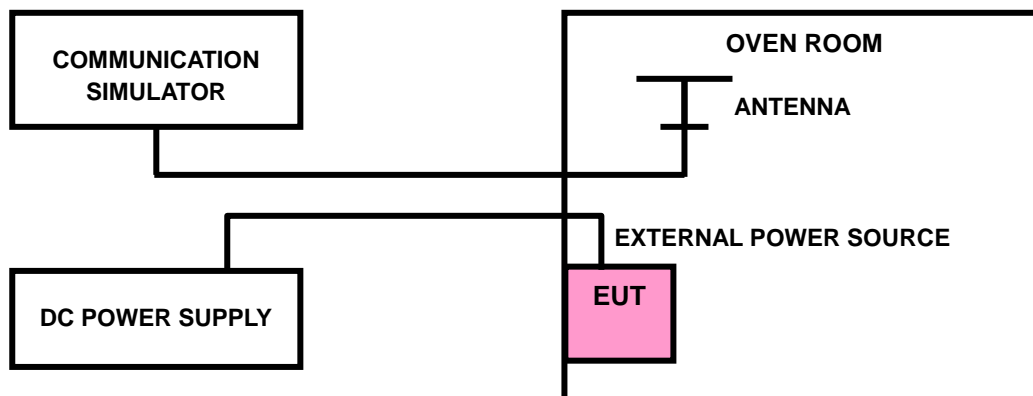
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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.: RF190318W003-4

3.2.4 TEST RESULTS

LTE 7 / LTE 38 data: Please refer to section 8 of Appendix B in test report
SZEM180500437001.

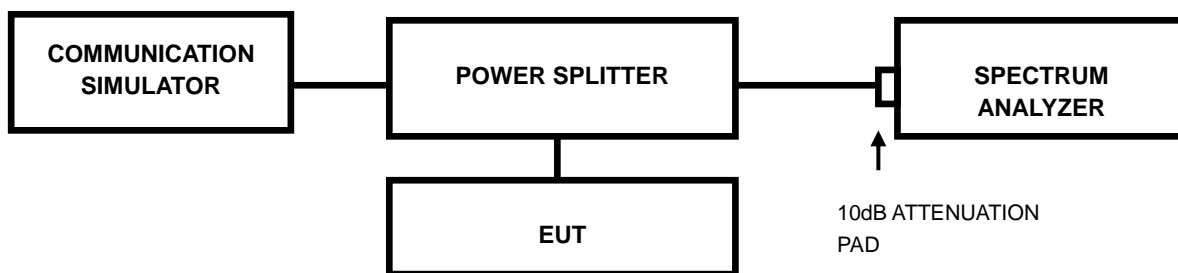
LTE 41 data: Please refer to section 8 of Appendix B in test report ZR/2018/A000801.

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.

3.3.4 TEST RESULTS

LTE 7 / LTE 38 data: Please refer to section 4 of Appendix B in test report SZEM180500437001.

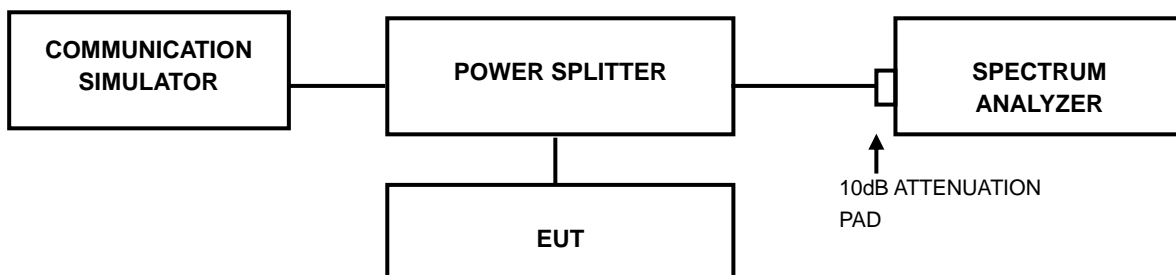
LTE 41 data: Please refer to section 4 of Appendix B in test report ZR/2018/A000801.

3.4 PEAK TO AVERAGE RATIO

3.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.4.2 TEST SETUP



3.4.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.4.4 TEST RESULTS

LTE 7 / LTE 38 data: Please refer to section 2 of Appendix B in test report SZEM180500437001.

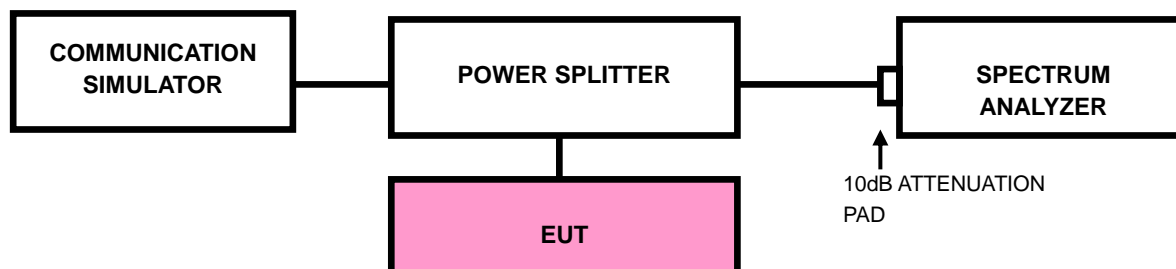
LTE 41 data: Please refer to section 2 of Appendix B in test report ZR/2018/A000801.

3.5 BAND EDGE MEASUREMENT

3.5.1 LIMITS OF BAND EDGE MEASUREMENT

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.

3.5.2 TEST SETUP



3.5.3 TEST PROCEDURES

- a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. The center frequency of spectrum is the band edge frequency and span is 35MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz (Channel bandwidth 5MHz).
- d. The center frequency of spectrum is the band edge frequency and span is 50MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz (Channel bandwidth 10MHz).
- e. The center frequency of spectrum is the band edge frequency and span is 60MHz. RBW of the spectrum is 300kHz and VBW of the spectrum is 1MHz (Channel bandwidth 15MHz).
- f. The center frequency of spectrum is the band edge frequency and span is 80MHz. RBW of the spectrum is 500kHz and VBW of the spectrum is 2MHz (Channel bandwidth 20MHz).
- g. Record the max trace plot into the test report.

3.5.4 TEST RESULTS

LTE 7 / LTE 38 data: Please refer to section 5 of Appendix B in test report
SZEM180500437001.

LTE 41 data: Please refer to section 5 of Appendix B in test report ZR/2018/A000801.

3.6 CONDUCTED SPURIOUS EMISSIONS

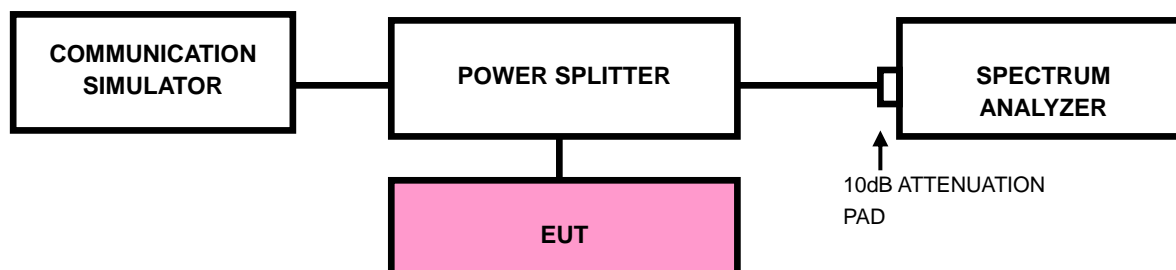
3.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

3.6.2 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 30MHz~27GHz for LTE Band 7/ LTE Band 38/LTE Band 41. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

3.6.3 TEST SETUP



3.6.4 TEST RESULTS

LTE 7 / LTE 38 data: Please refer to section 6 of Appendix B in test report SZEM180500437001.

LTE 41 data: Please refer to section 6 of Appendix B in test report ZR/2018/A000801.

3.7 RADIATED EMISSION MEASUREMENT

3.7.1 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 $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm.

3.7.2 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,
 $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15dBi.$

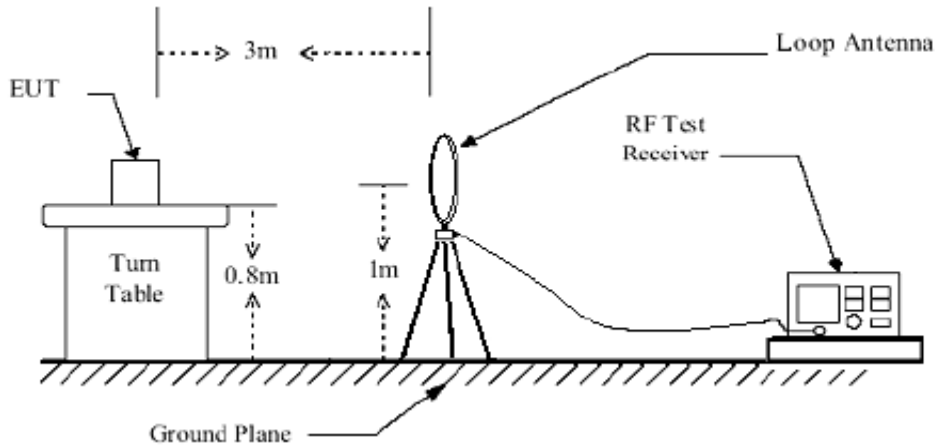
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.7.3 DEVIATION FROM TEST STANDARD

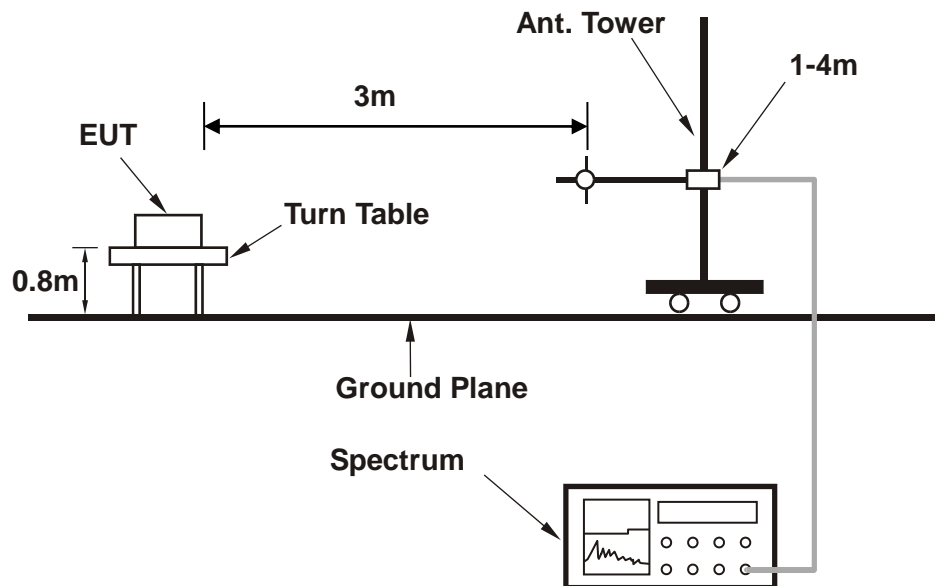
No deviation

3.7.4 TEST SETUP

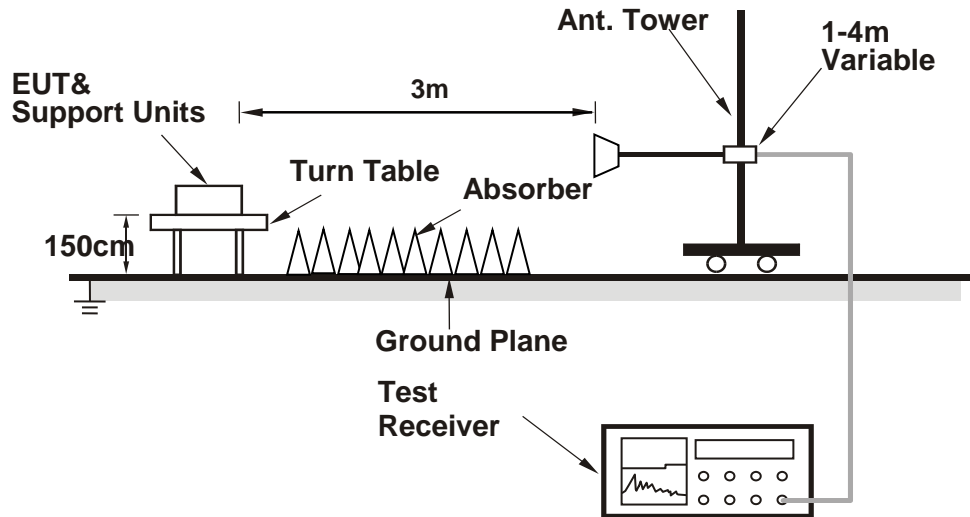
<Below 30MHz>



< Frequency Range 30MHz~1GHz >



< Frequency Range above 1GHz >



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

3.7.5 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

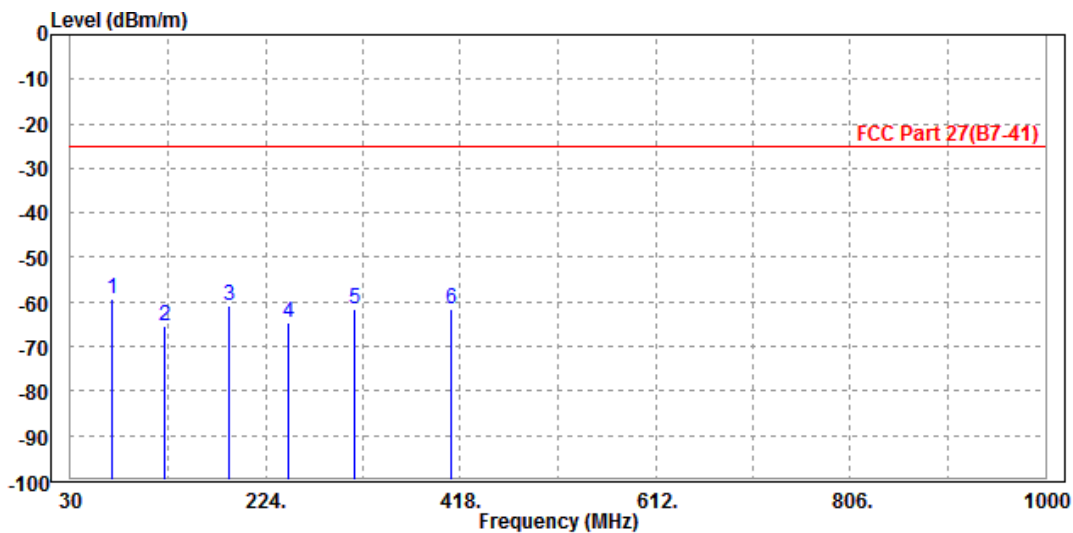
9 KHz – 30 MHz data: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

30 MHz – 1GHz data:

LTE Band 41:

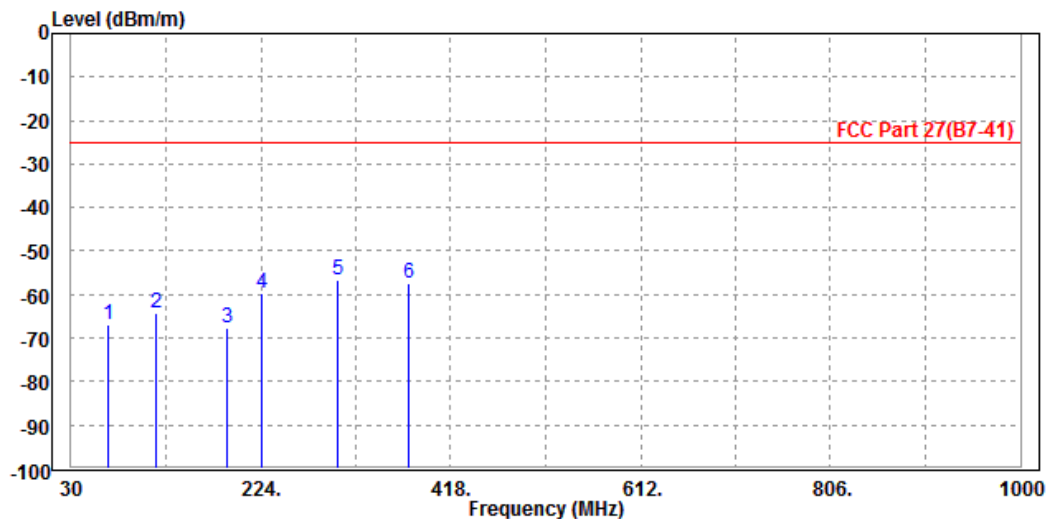
MODE	TX channel 40620	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	72.150	-59.41	-48.06	-25.00	-34.41	-11.35	Peak	Horizontal
2	123.680	-65.25	-49.56	-25.00	-40.25	-15.69	Peak	Horizontal
3	188.370	-60.66	-43.12	-25.00	-35.66	-17.54	Peak	Horizontal
4	246.560	-64.70	-48.36	-25.00	-39.70	-16.34	Peak	Horizontal
5	312.640	-61.45	-48.07	-25.00	-36.45	-13.38	Peak	Horizontal
6	409.540	-61.74	-51.29	-25.00	-36.74	-10.45	Peak	Horizontal



MODE	TX channel 40620	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
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	67.850	-66.85	-51.96	-25.00	-41.85	-14.89	Peak	Vertical
2	116.790	-64.11	-51.22	-25.00	-39.11	-12.89	Peak	Vertical
3	189.540	-67.59	-55.63	-25.00	-42.59	-11.96	Peak	Vertical
4	225.630	-59.71	-48.62	-25.00	-34.71	-11.09	Peak	Vertical
5 PP	302.580	-56.63	-45.35	-25.00	-31.63	-11.28	Peak	Vertical
6	374.890	-57.40	-46.37	-25.00	-32.40	-11.03	Peak	Vertical





BUREAU
VERITAS

Test Report No.: RF190318W003-4

ABOVE 1GHz

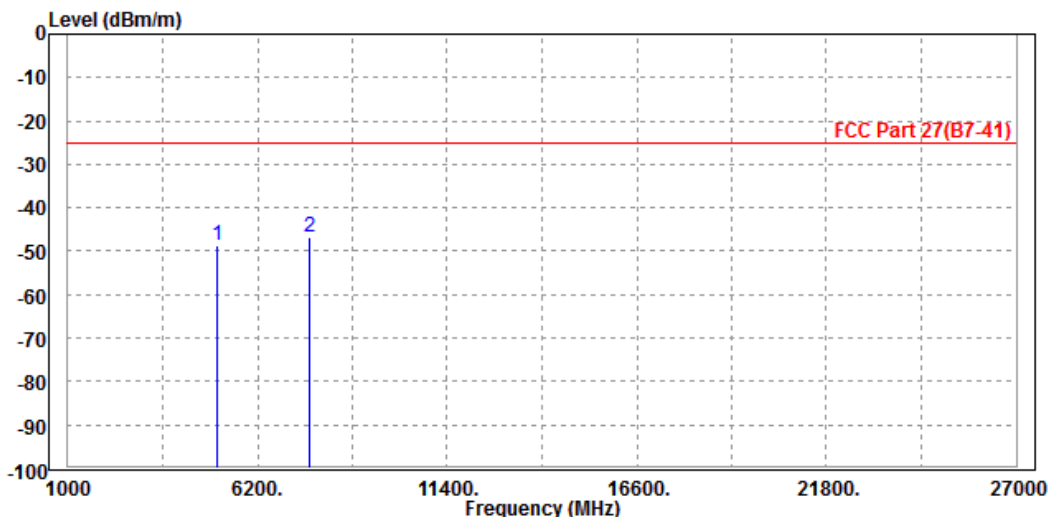
Note: For higher frequency, the emission is too low to be detected.

LTE Band 7

CHANNEL BANDWIDTH: 5MHz / QPSK

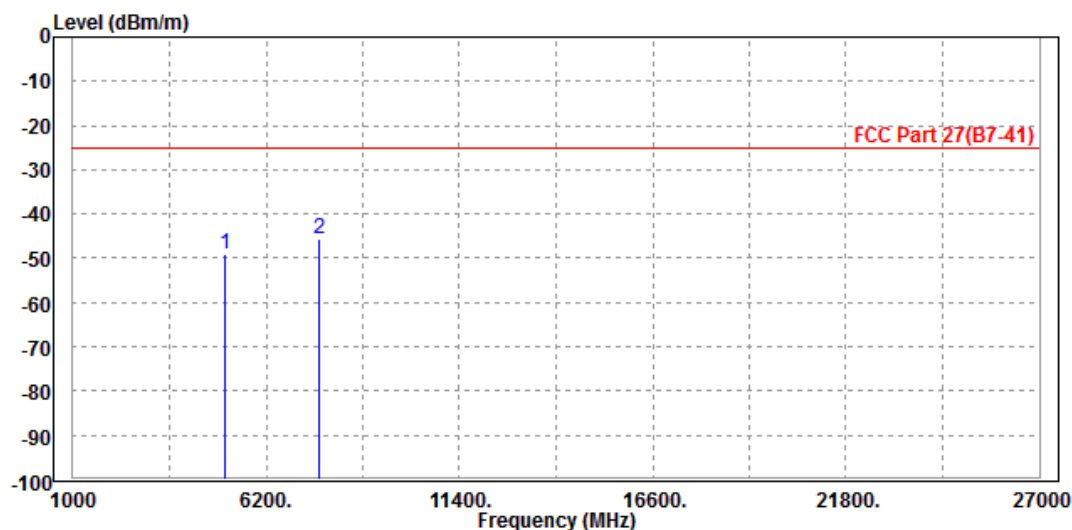
MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5082.000	-48.72	-57.19	-25.00	-23.72	8.47	Peak	Horizontal
2 PP	7605.000	-46.79	-60.27	-25.00	-21.79	13.48	Peak	Horizontal



MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

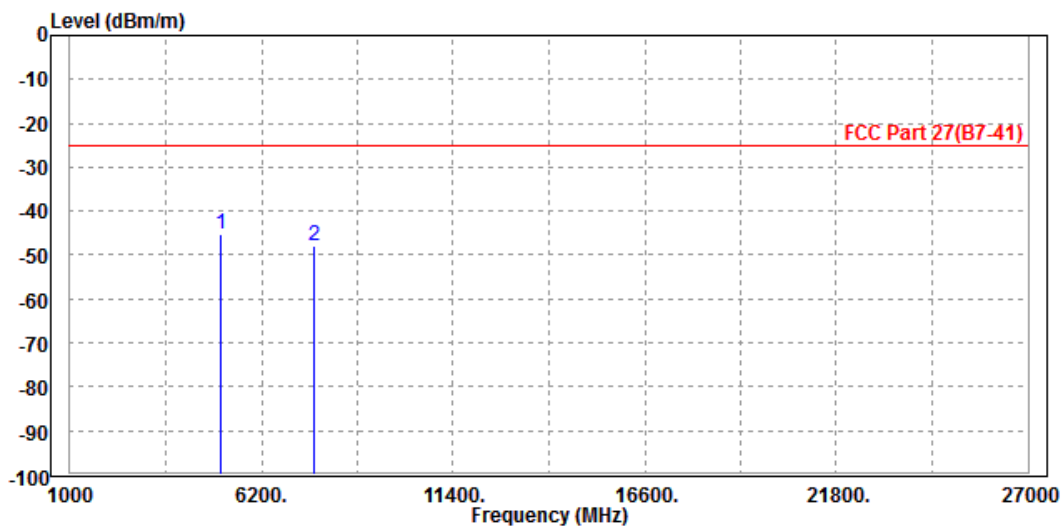
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5082.000	-49.06	-57.05	-25.00	-24.06	7.99	Peak	Vertical
2 PP	7605.000	-45.51	-58.50	-25.00	-20.51	12.99	Peak	Vertical



CHANNEL BANDWIDTH: 10MHz / QPSK

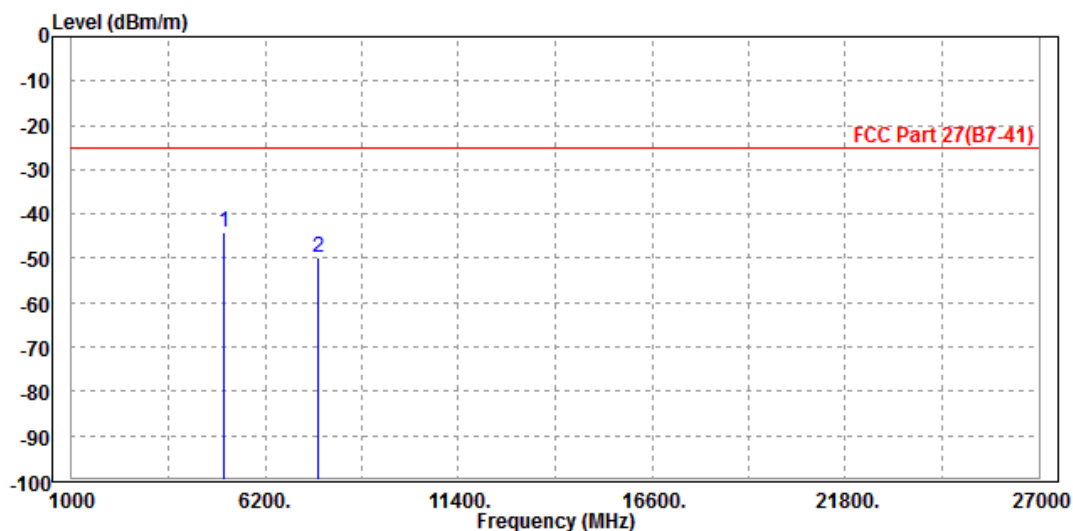
MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5082.000	-45.21	-53.68	-25.00	-20.21	8.47	Peak	Horizontal
2	7605.000	-48.01	-61.49	-25.00	-23.01	13.48	Peak	Horizontal



MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
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	PP 5082.000	-44.18	-52.17	-25.00	-19.18	7.99	Peak	Vertical
2	7605.000	-49.86	-62.85	-25.00	-24.86	12.99	Peak	Vertical

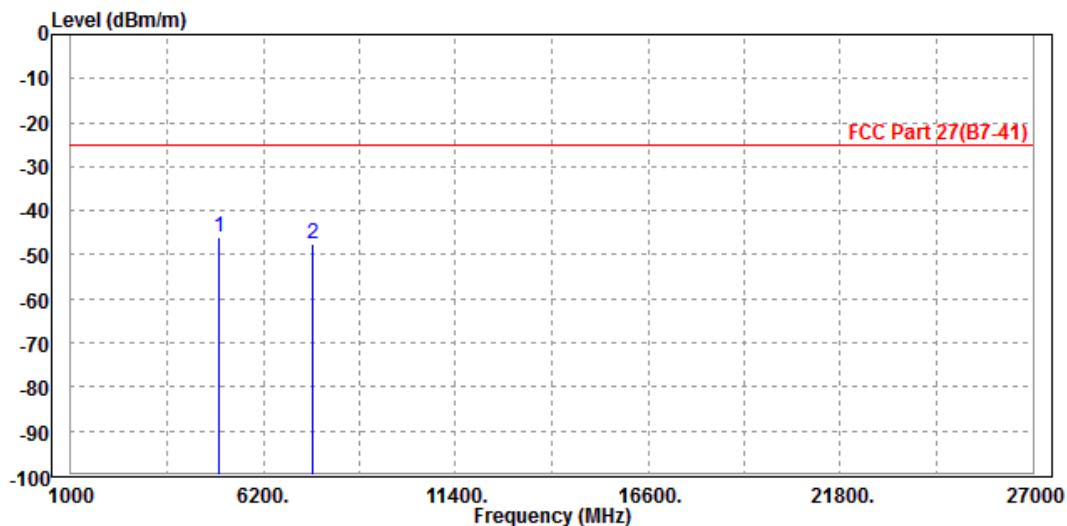


CHANNEL BANDWIDTH: 15MHz / QPSK

CH 20825

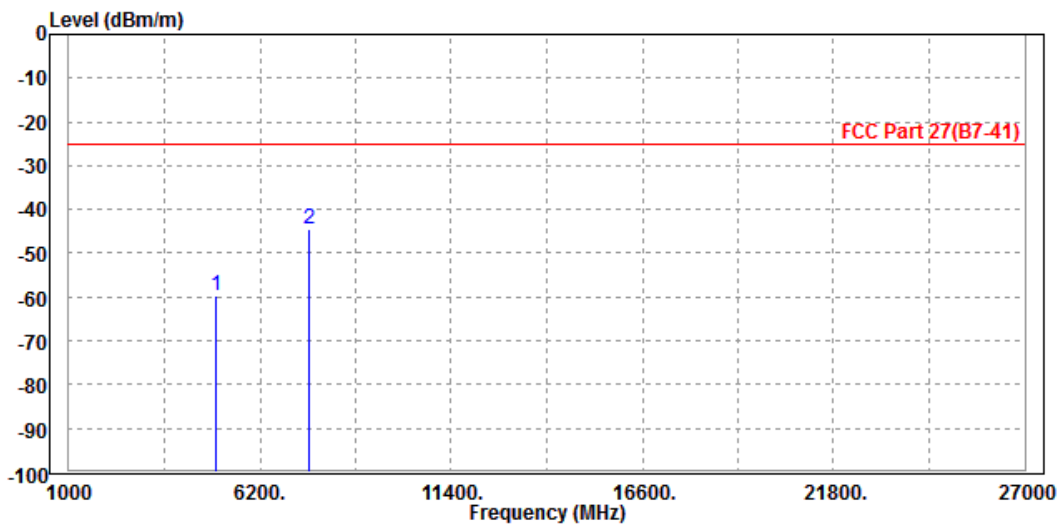
MODE	TX channel 20825	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5004.000	-45.84	-54.22	-25.00	-20.84	8.38	Peak	Horizontal
2	7522.500	-47.45	-60.81	-25.00	-22.45	13.36	Peak	Horizontal



MODE	TX channel 20825	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

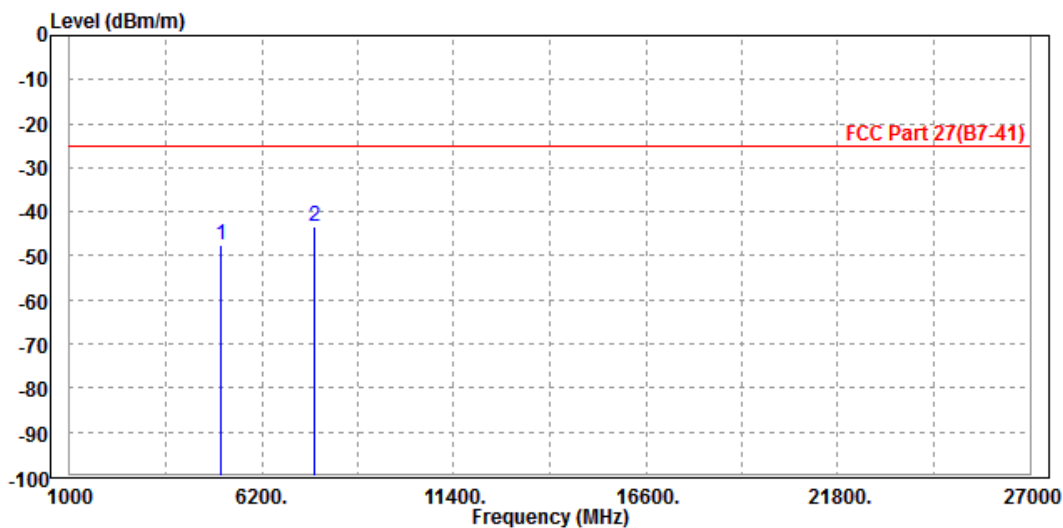
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5004.000	-59.53	-67.52	-25.00	-34.53	7.99	Peak	Vertical
2 PP	7522.500	-44.59	-57.43	-25.00	-19.59	12.84	Peak	Vertical



CH 21100

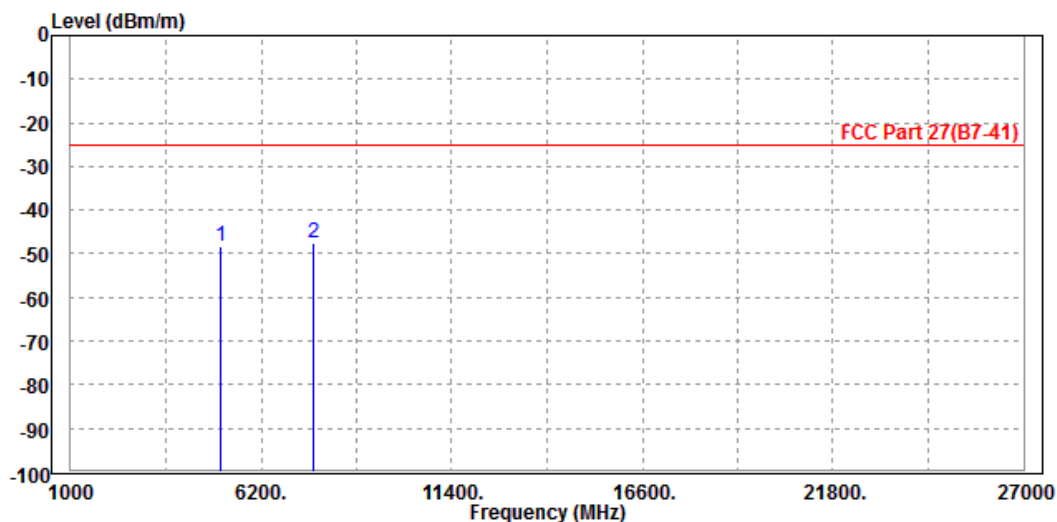
MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5082.000	-47.36	-55.83	-25.00	-22.36	8.47	Peak	Horizontal
2 PP	7605.000	-43.48	-56.96	-25.00	-18.48	13.48	Peak	Horizontal



MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

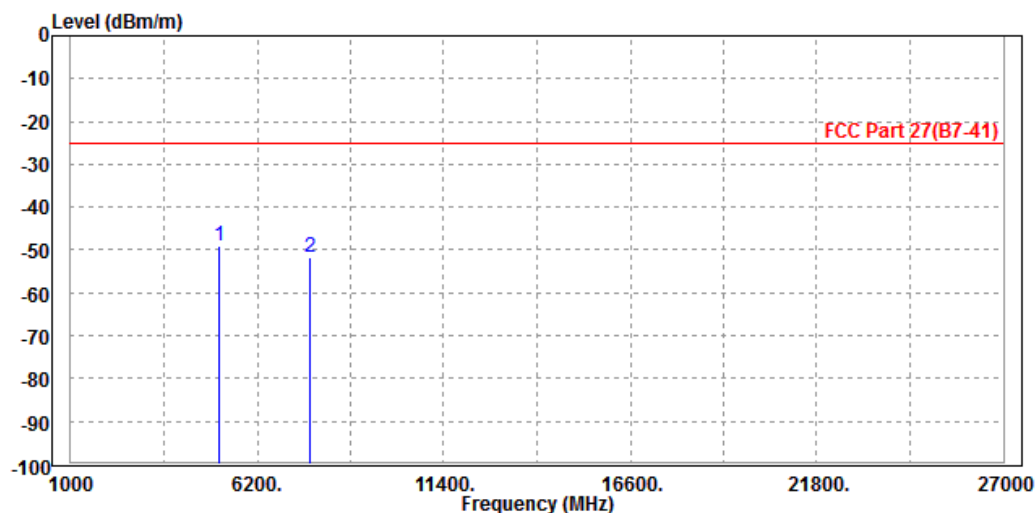
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5082.000	-48.36	-56.35	-25.00	-23.36	7.99	Peak	Vertical
2 PP	7605.000	-47.45	-60.44	-25.00	-22.45	12.99	Peak	Vertical



CH 21375

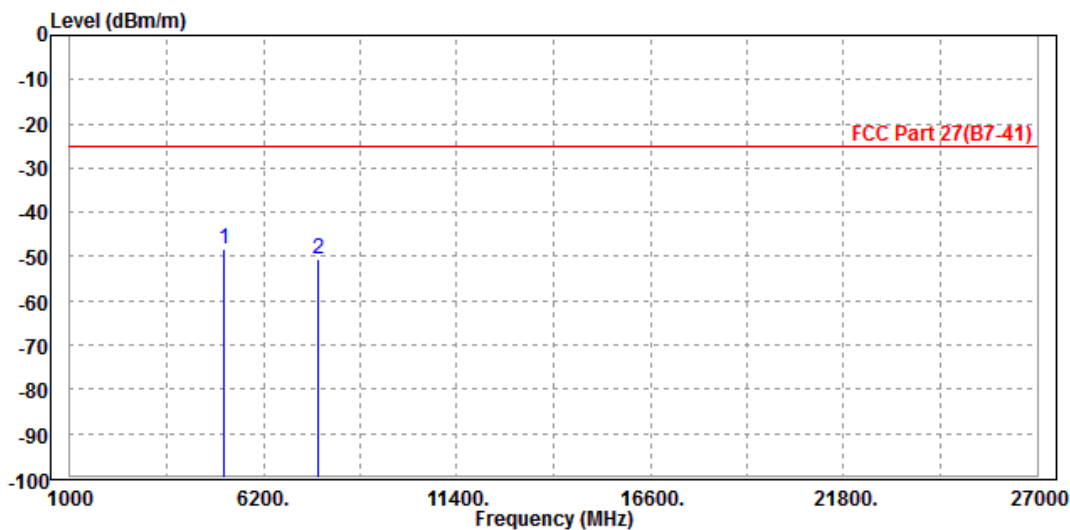
MODE	TX channel 21375	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	5134.000	-49.03	-57.56	-25.00	-24.03	8.53	Peak	Horizontal
2	7687.500	-51.57	-65.17	-25.00	-26.57	13.60	Peak	Horizontal



MODE	TX channel 21375	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

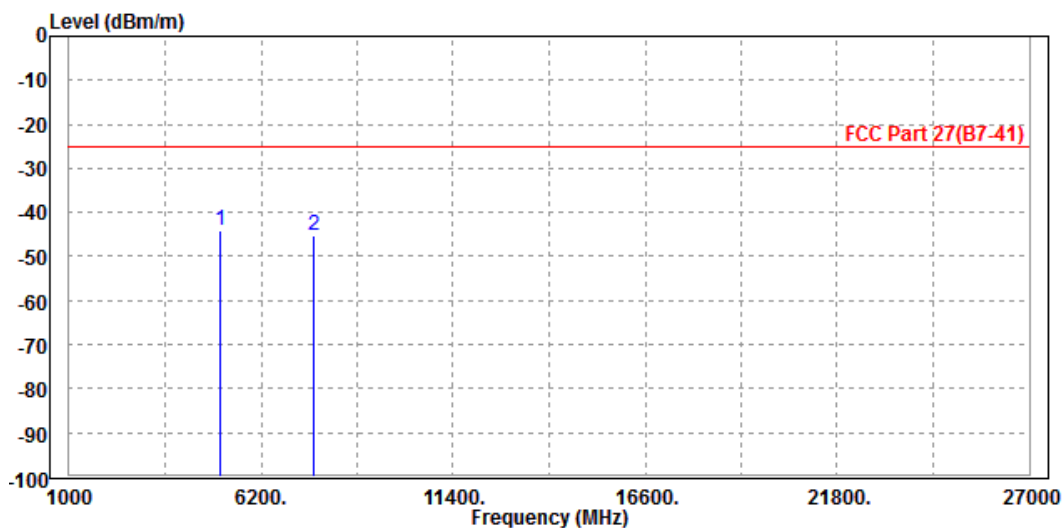
			Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5134.000	-48.18	-56.17	-25.00	-23.18	7.99	Peak	Vertical
2	7687.500	-50.72	-63.85	-25.00	-25.72	13.13	Peak	Vertical



CHANNEL BANDWIDTH: 20MHz / QPSK

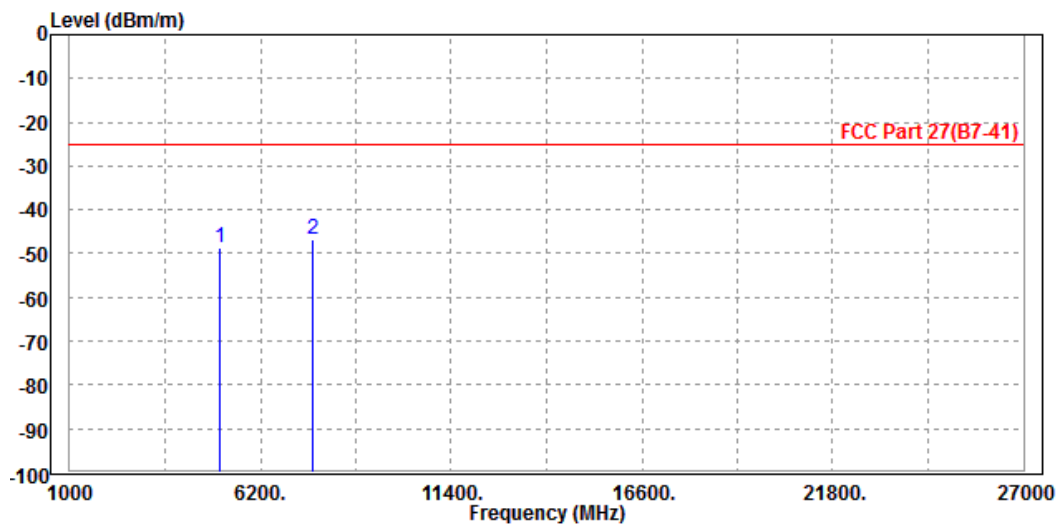
MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	5082.000	-43.92	-52.39	-25.00	-18.92	8.47	Peak	Horizontal
2	7605.000	-45.19	-58.67	-25.00	-20.19	13.48	Peak	Horizontal



MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

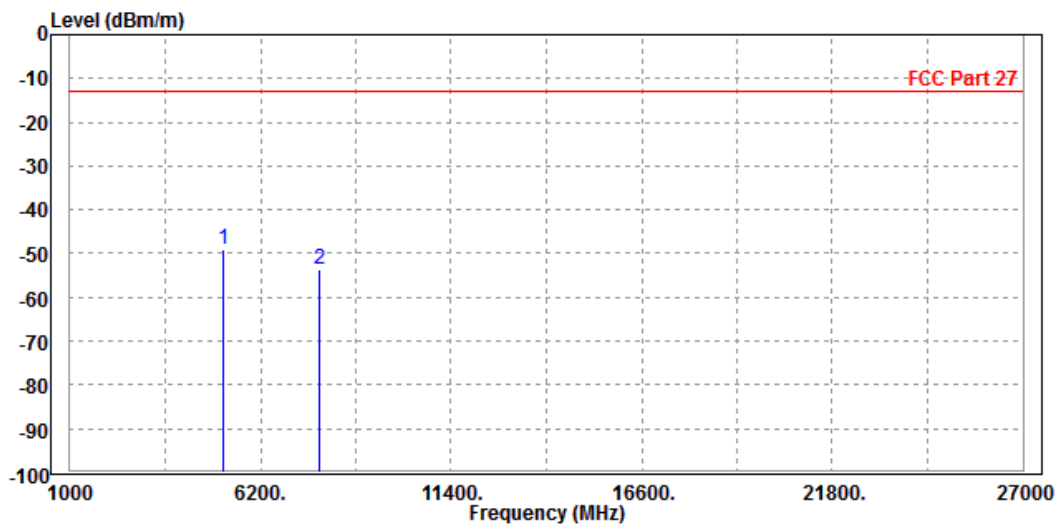
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5082.000	-48.59	-56.58	-25.00	-23.59	7.99	Peak	Vertical
2 PP	7605.000	-46.95	-59.94	-25.00	-21.95	12.99	Peak	Vertical



LTE Band 38
CHANNEL BANDWIDTH: 5MHz / QPSK

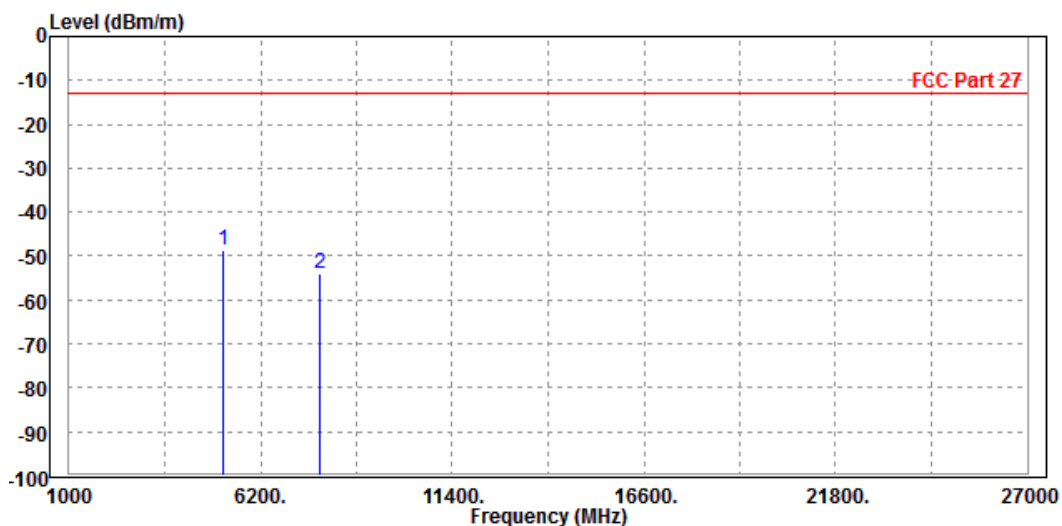
MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	5186.000	-49.04	-57.63	-13.00	-36.04	8.59	Peak	Horizontal
2	7785.000	-53.68	-67.42	-13.00	-40.68	13.74	Peak	Horizontal



MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
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 PP	5186.000	-48.55	-56.53	-13.00	-35.55	7.98	Peak	Vertical
2	7785.000	-53.82	-67.12	-13.00	-40.82	13.30	Peak	Vertical

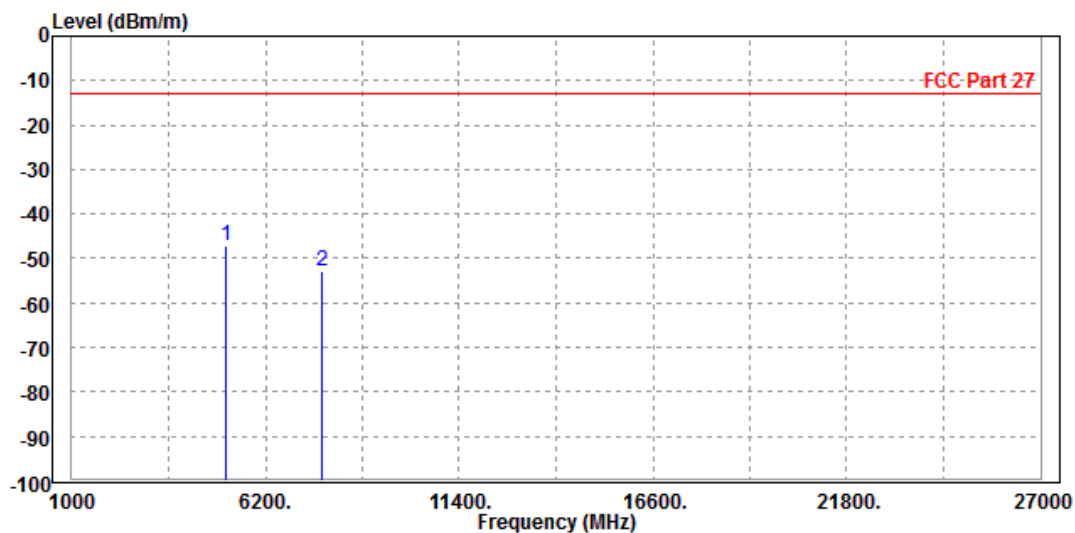


CHANNEL BANDWIDTH: 10MHz / QPSK

CH 37800

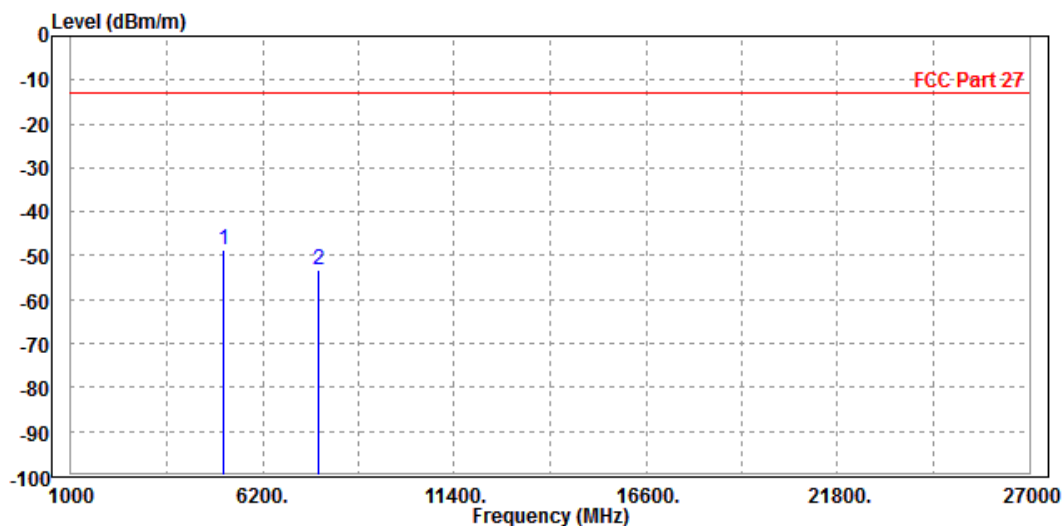
MODE	TX channel 37800	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	5160.000	-47.26	-55.82	-13.00	-34.26	8.56	Peak	Horizontal
2	7725.000	-52.77	-66.42	-13.00	-39.77	13.65	Peak	Horizontal



MODE	TX channel 37800	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

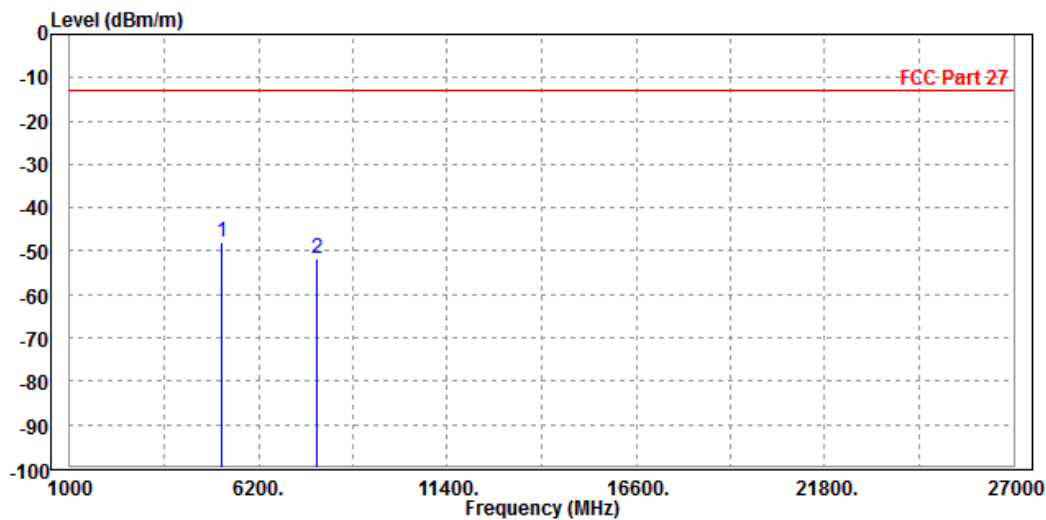
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5160.000	-48.77	-56.75	-13.00	-35.77	7.98	Peak	Vertical
2	7725.000	-53.12	-66.32	-13.00	-40.12	13.20	Peak	Vertical



CH 38000

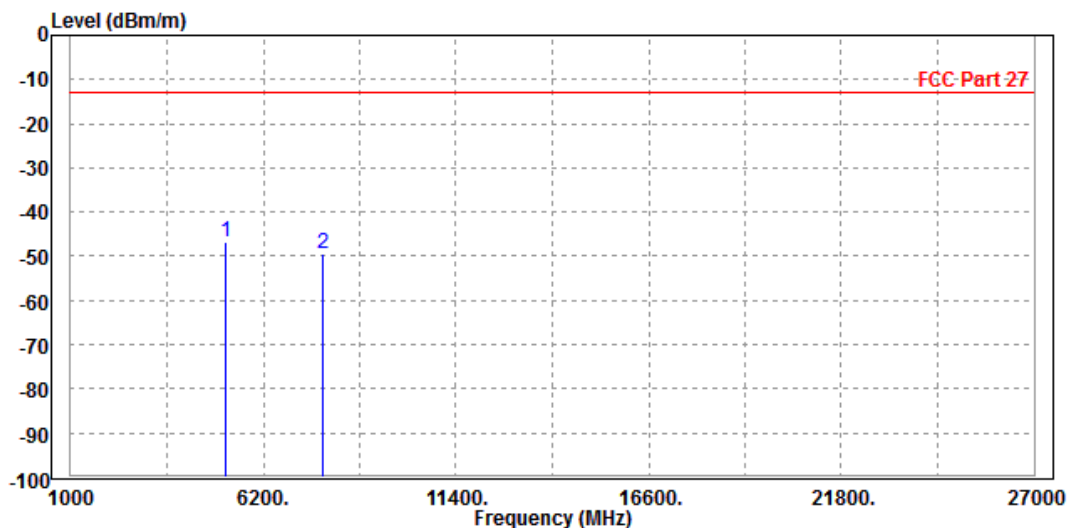
MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	5186.000	-47.95	-56.54	-13.00	-34.95	8.59	Peak	Horizontal
2	7785.000	-51.88	-65.62	-13.00	-38.88	13.74	Peak	Horizontal



MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

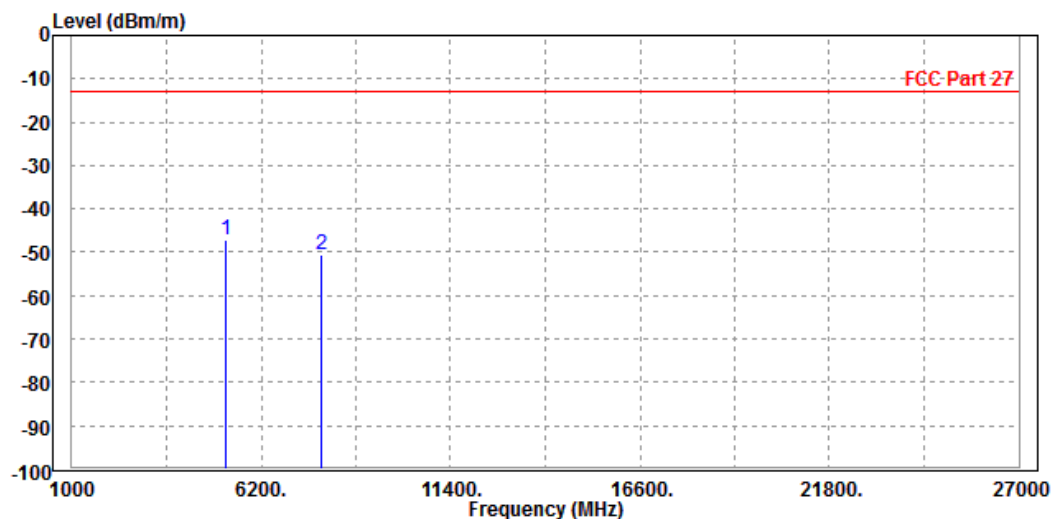
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	5186.000	-46.71	-54.69	-13.00	-33.71	7.98	Peak	Vertical
2	7785.000	-49.26	-62.56	-13.00	-36.26	13.30	Peak	Vertical



CH 38200

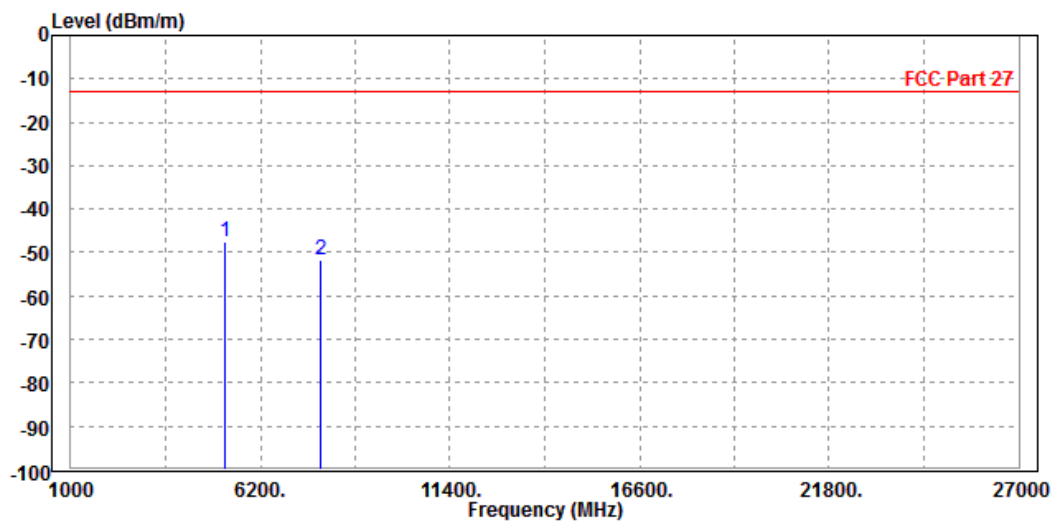
MODE	TX channel 38200	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	5238.000	-46.97	-55.62	-13.00	-33.97	8.65	Peak	Horizontal
2	7845.000	-50.41	-64.23	-13.00	-37.41	13.82	Peak	Horizontal



MODE	TX channel 38200	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

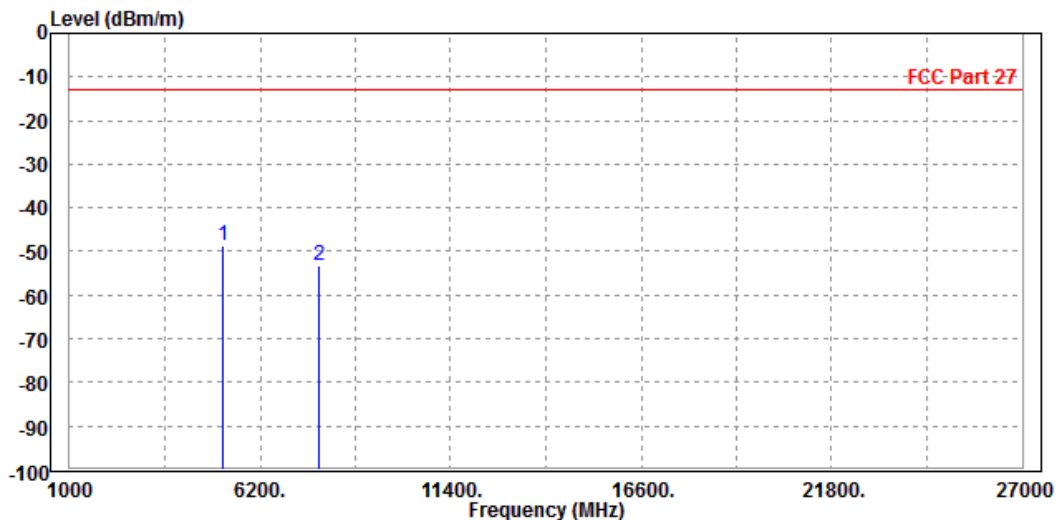
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5238.000	-47.66	-55.64	-13.00	-34.66	7.98	Peak	Vertical
2	7845.000	-51.84	-65.25	-13.00	-38.84	13.41	Peak	Vertical



CHANNEL BANDWIDTH: 15MHz / QPSK

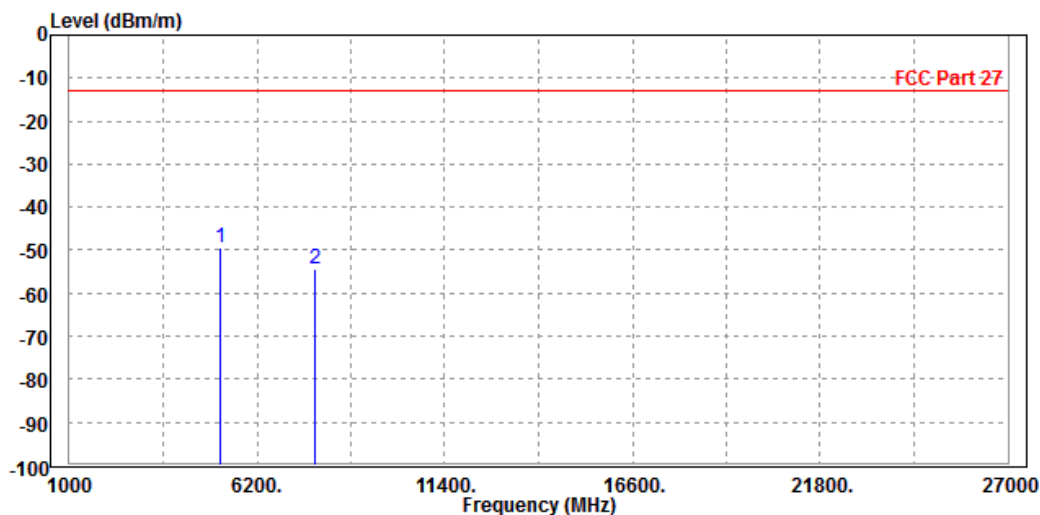
MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

			Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5186.000	-48.62	-57.21	-13.00	-35.62	8.59	Peak	Horizontal
2	7785.000	-53.08	-66.82	-13.00	-40.08	13.74	Peak	Horizontal



MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

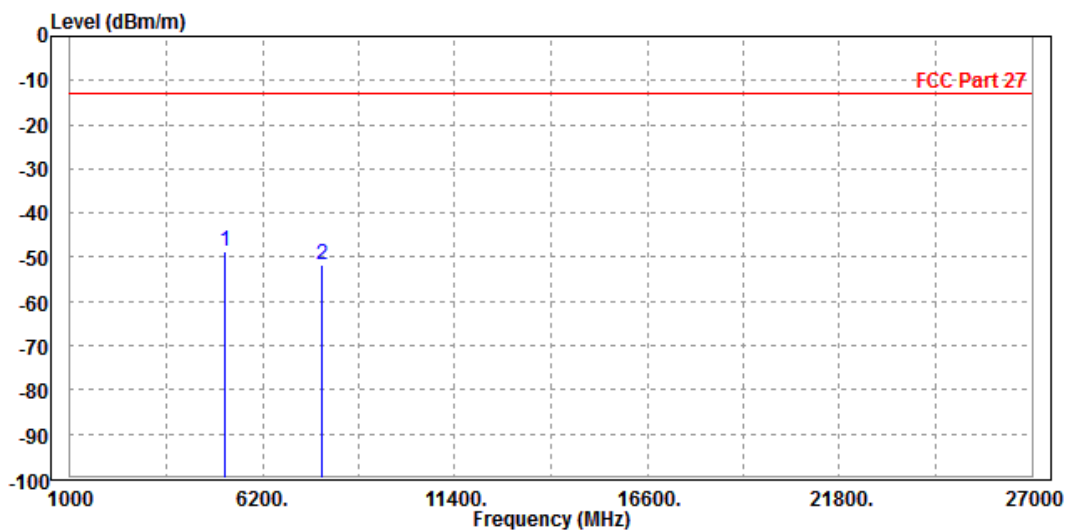
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5186.000	-49.28	-57.26	-13.00	-36.28	7.98	Peak	Vertical
2	7785.000	-54.31	-67.61	-13.00	-41.31	13.30	Peak	Vertical



CHANNEL BANDWIDTH: 20MHz / QPSK

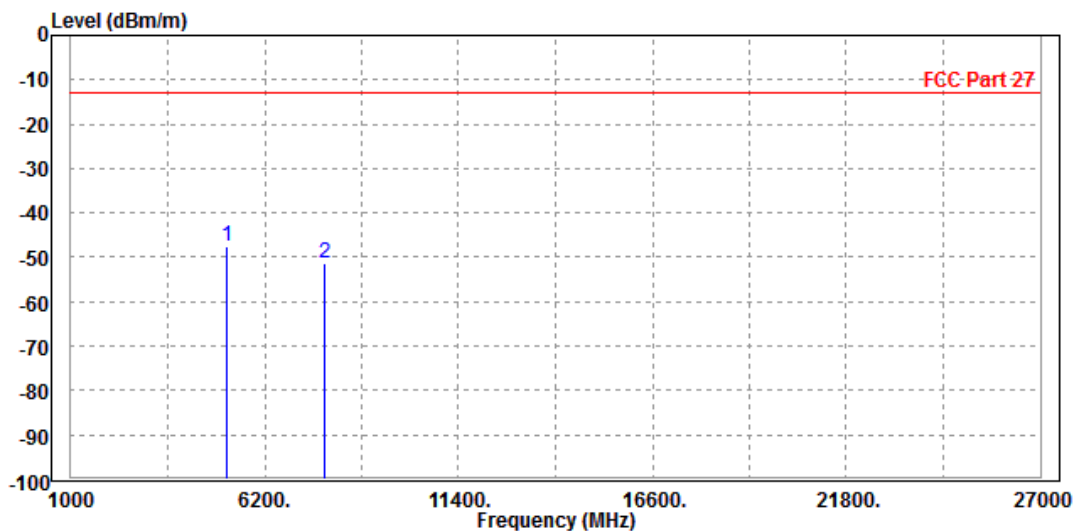
MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5186.000	-48.64	-57.23	-13.00	-35.64	8.59	Peak	Horizontal
2	7785.000	-51.71	-65.45	-13.00	-38.71	13.74	Peak	Horizontal



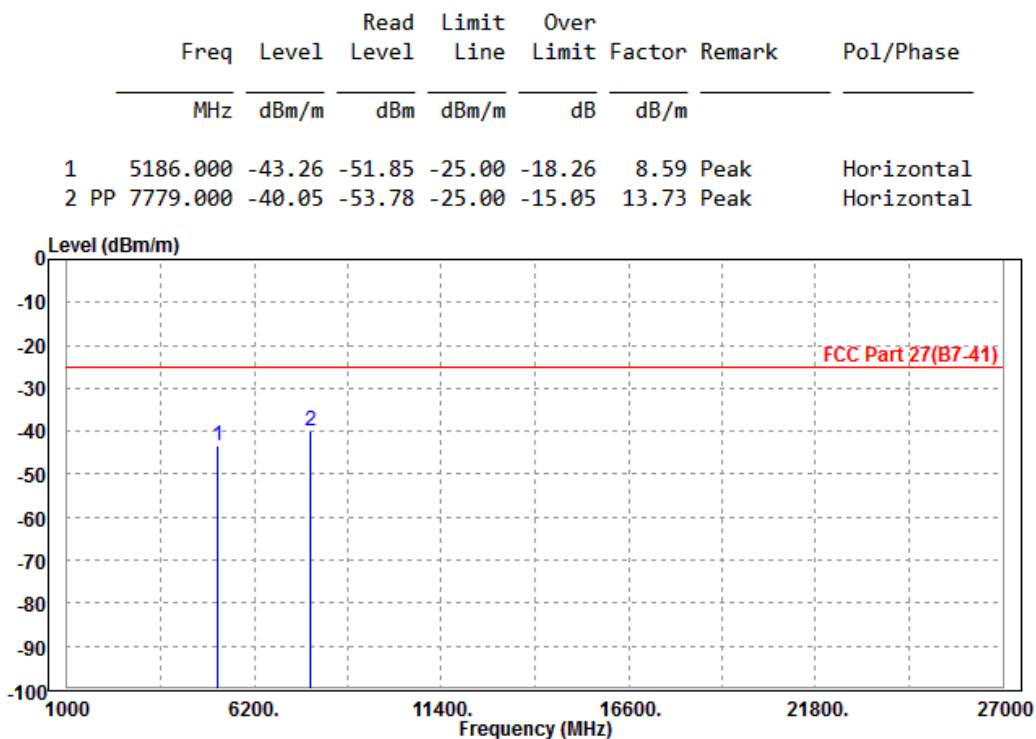
MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	5186.000	-47.63	-55.61	-13.00	-34.63	7.98	Peak	Vertical
2	7785.000	-51.45	-64.75	-13.00	-38.45	13.30	Peak	Vertical



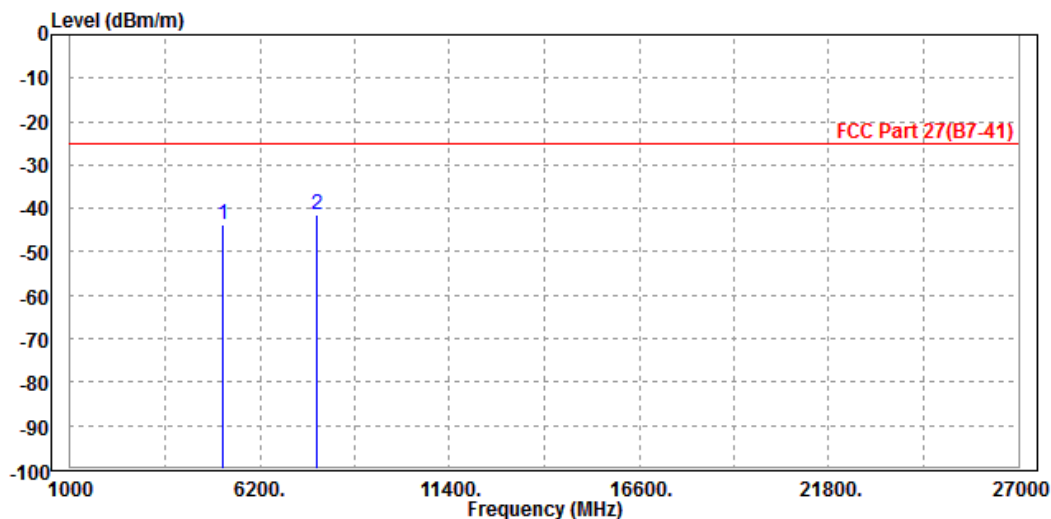
LTE Band 41
CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			



MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
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	5186.000	-43.69	-51.67	-25.00	-18.69	7.98	Peak	Vertical
2 PP	7779.000	-41.33	-54.62	-25.00	-16.33	13.29	Peak	Vertical

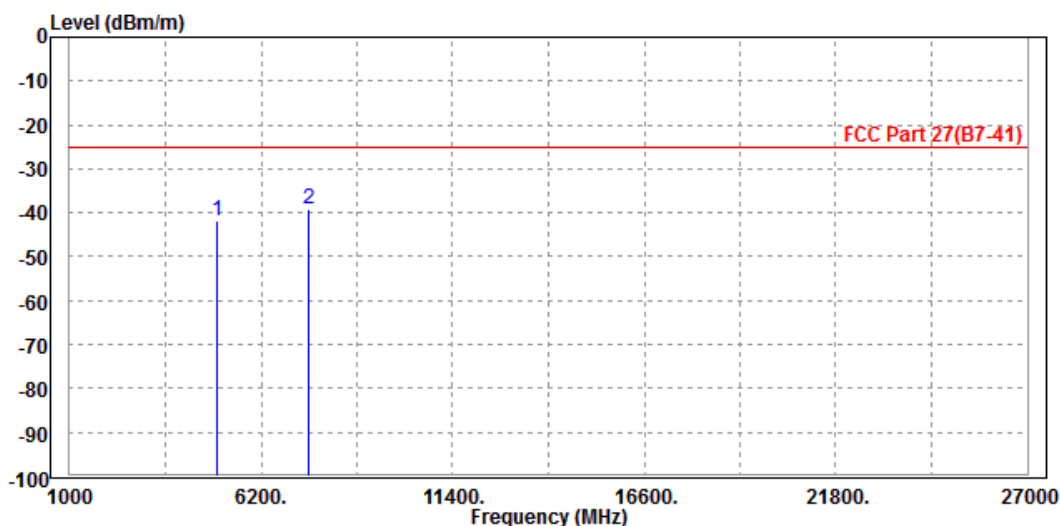


CHANNEL BANDWIDTH: 10MHz / QPSK

CH39700

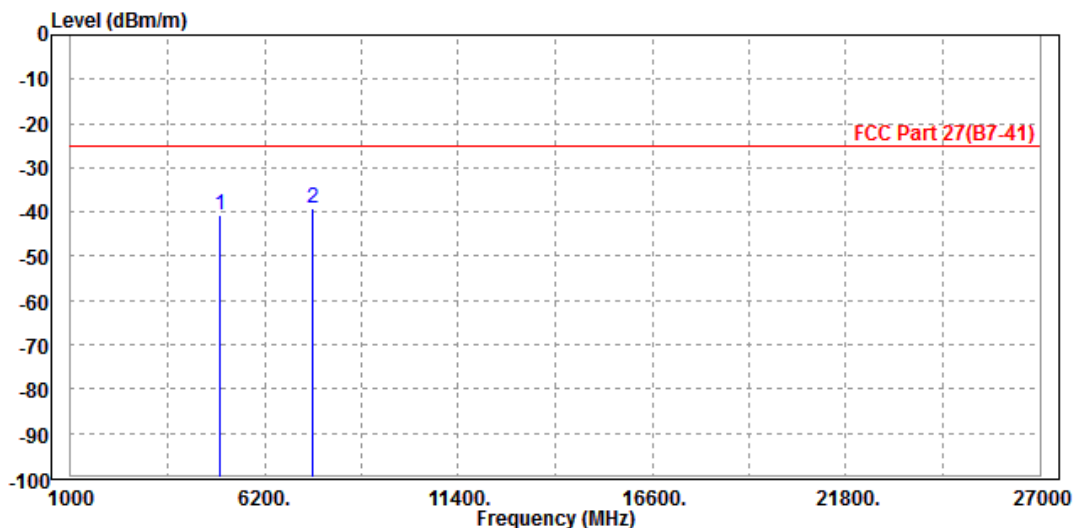
MODE	TX channel 39700	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5004.000	-41.93	-50.31	-25.00	-16.93	8.38	Peak	Horizontal
2 PP	7503.000	-39.32	-52.66	-25.00	-14.32	13.34	Peak	Horizontal



MODE	TX channel 39700	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

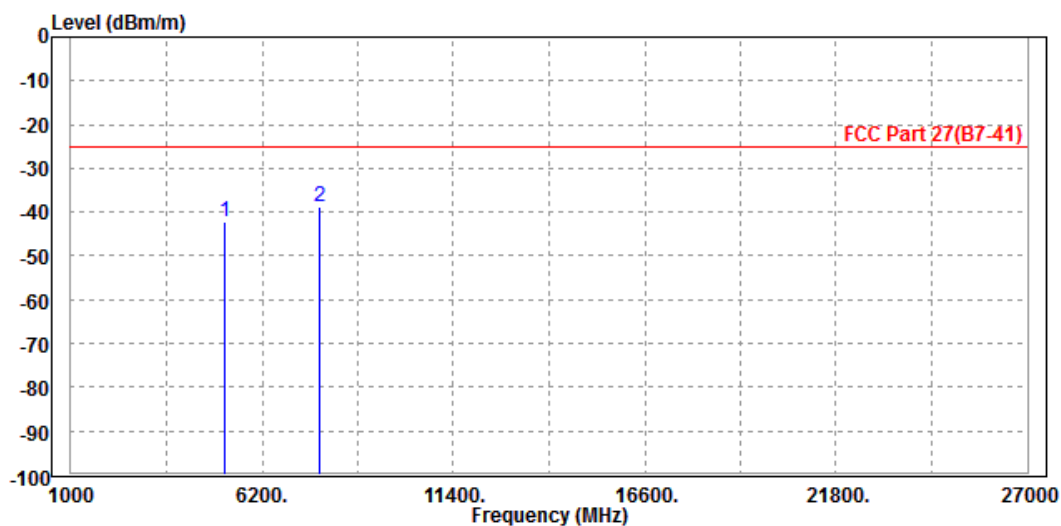
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5004.000	-40.70	-48.69	-25.00	-15.70	7.99	Peak	Vertical
2 PP	7503.000	-39.19	-52.00	-25.00	-14.19	12.81	Peak	Vertical



CH40620

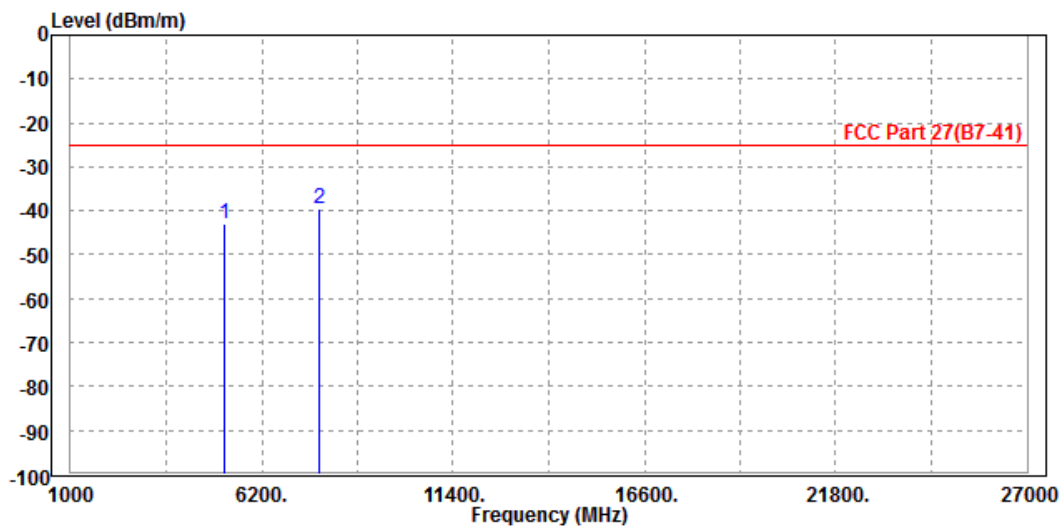
MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5186.000	-42.13	-50.72	-25.00	-17.13	8.59	Peak	Horizontal
2 PP	7779.000	-38.85	-52.58	-25.00	-13.85	13.73	Peak	Horizontal



MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

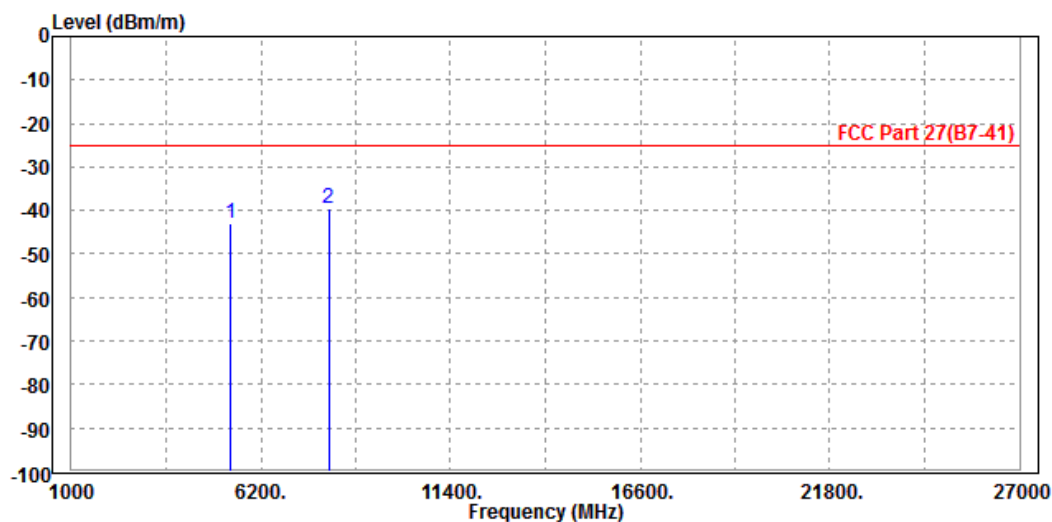
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5186.000	-42.98	-50.96	-25.00	-17.98	7.98	Peak	Vertical
2 PP	7779.000	-39.46	-52.75	-25.00	-14.46	13.29	Peak	Vertical



CH41540

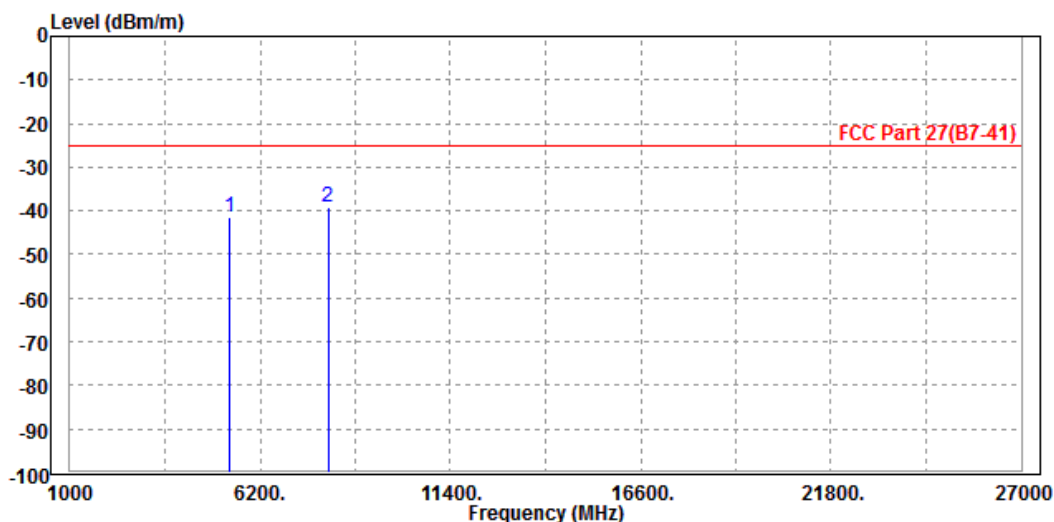
MODE	TX channel 41540	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5368.000	-42.78	-51.59	-25.00	-17.78	8.81	Peak	Horizontal
2 PP	8055.000	-39.43	-53.64	-25.00	-14.43	14.21	Peak	Horizontal



MODE	TX channel 41540	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

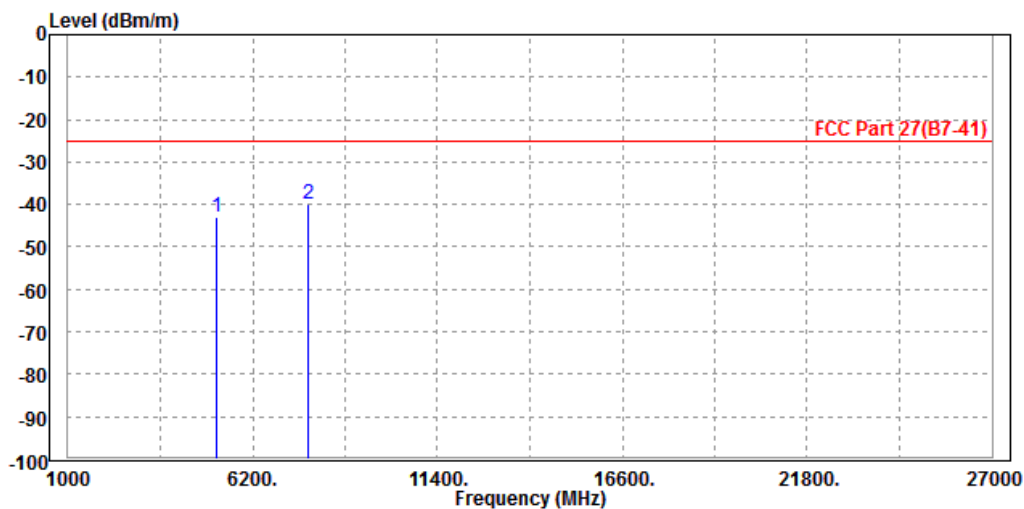
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5368.000	-41.27	-49.25	-25.00	-16.27	7.98	Peak	Vertical
2 PP	8055.000	-39.16	-52.98	-25.00	-14.16	13.82	Peak	Vertical



CHANNEL BANDWIDTH: 15MHz / QPSK

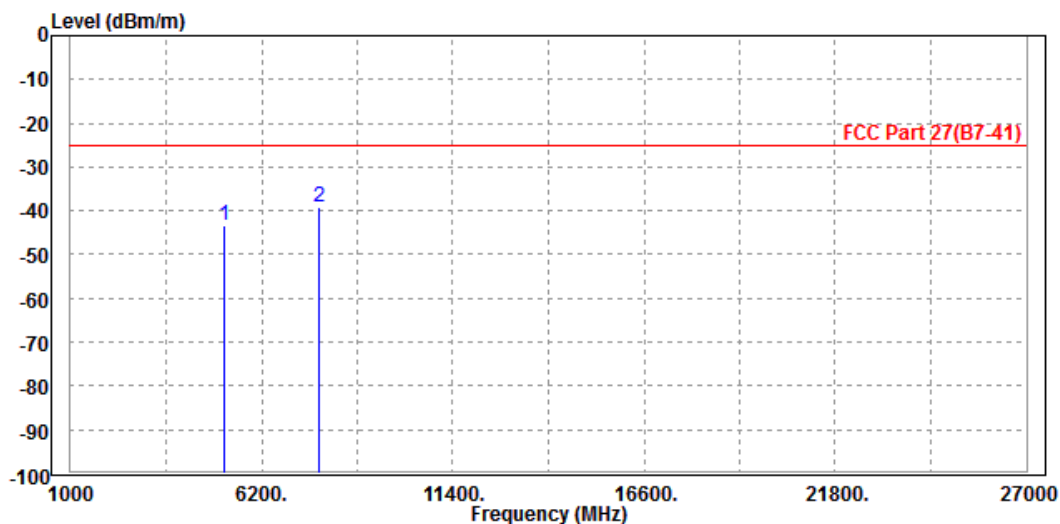
MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5186.000	-42.89	-51.48	-25.00	-17.89	8.59	Peak	Horizontal
2 PP	7779.000	-39.88	-53.61	-25.00	-14.88	13.73	Peak	Horizontal



MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

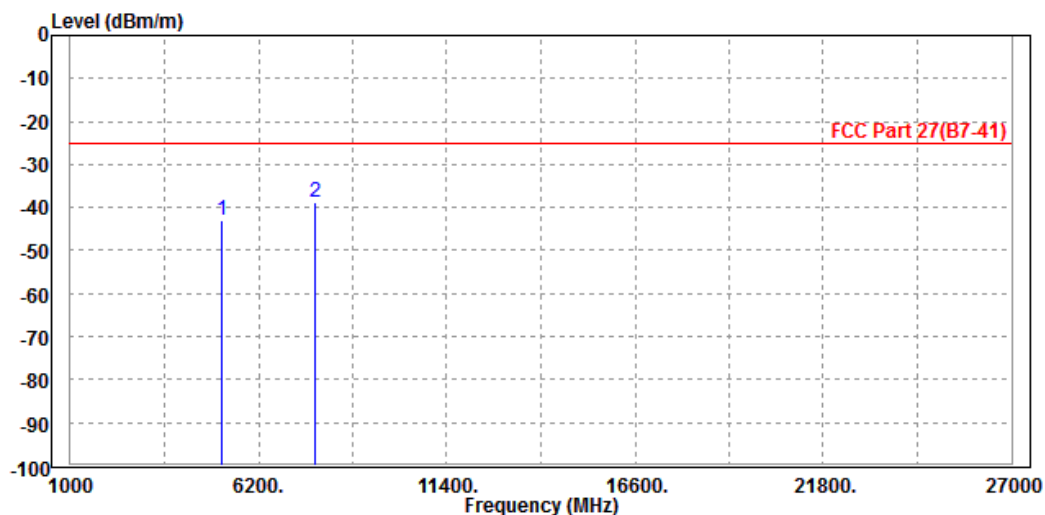
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5186.000	-43.48	-51.46	-25.00	-18.48	7.98	Peak	Vertical
2 PP	7779.000	-39.27	-52.56	-25.00	-14.27	13.29	Peak	Vertical



CHANNEL BANDWIDTH: 20MHz / QPSK

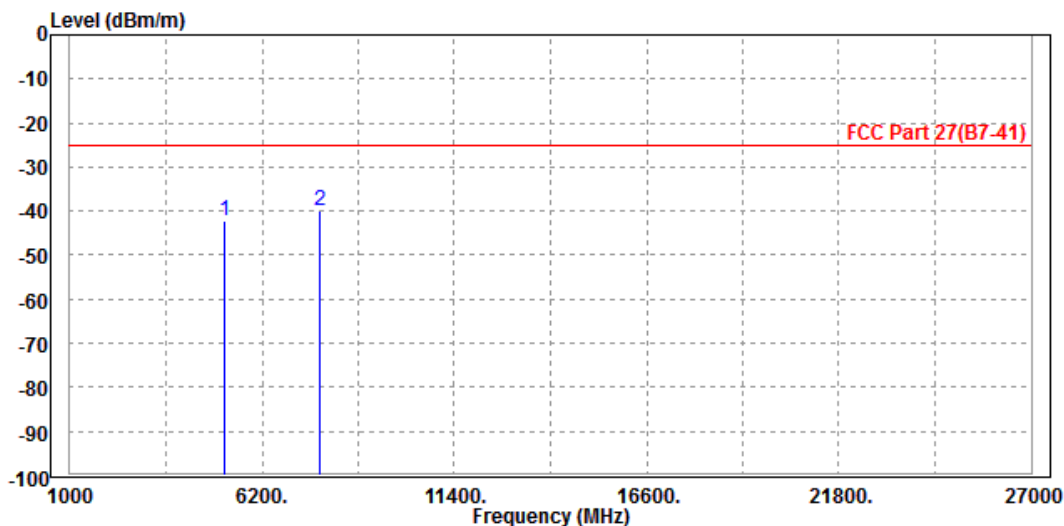
MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5186.000	-42.83	-51.42	-25.00	-17.83	8.59	Peak	Horizontal
2 PP	7779.000	-38.91	-52.64	-25.00	-13.91	13.73	Peak	Horizontal



MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.3V
TESTED BY	Rose Ma		
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	5186.000	-42.38	-50.36	-25.00	-17.38	7.98	Peak	Vertical
2 PP	7779.000	-39.96	-53.25	-25.00	-14.96	13.29	Peak	Vertical





Test Report No.: RF190318W003-4

4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Fax: +86-755-88696577

Email: customerservice.dg@cn.bureauveritas.com

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.



Test Report No.: RF190318W003-4

5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---