

FCC TEST REPORT

(PART 27)

Applicant:	PAX Technology Limited
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Manufacturer or Supplier:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.
Product:	Smart Kiosk
Brand Name:	PAX
Model Name:	SK600
Additional model:	SK800
FCC ID:	V5PSK
Date of tests:	Apr. 18, 2020 ~ May. 06, 2020

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

- ☒ FCC Part 27, Subpart C, L ☒ 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 Alex Chen Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: May. 07, 2020	 Date: May. 07, 2020

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TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1 SUMMARY OF TEST RESULTS	5
1.1 MEASUREMENT UNCERTAINTY	5
1.2 TEST SITE AND INSTRUMENTS	7
2 GENERAL INFORMATION.....	8
2.1 GENERAL DESCRIPTION OF EUT	8
2.2 CONFIGURATION OF SYSTEM UNDER TEST	11
2.3 DESCRIPTION OF SUPPORT UNITS	12
2.4 DESCRIPTION OF TEST MODES.....	12
2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS	15
3 TEST TYPES AND RESULTS	16
3.1 OUTPUT POWER MEASUREMENT	16
3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT	16
3.1.2 TEST PROCEDURES	16
3.1.3 TEST SETUP	17
3.1.4 TEST RESULTS	18
3.2 FREQUENCY STABILITY MEASUREMENT	28
3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT	28
3.2.2 TEST PROCEDURE	28
3.2.3 TEST SETUP	28
3.2.4 TEST RESULTS	28
3.3 OCCUPIED BANDWIDTH MEASUREMENT	29
3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT	29
3.3.2 TEST SETUP	29
3.3.3 TEST PROCEDURES	29
3.3.4 TEST RESULTS	29
3.4 PEAK TO AVERAGE RATIO	30
3.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT	30
3.4.2 TEST SETUP	30
3.4.3 TEST PROCEDURES	30
3.4.4 TEST RESULTS	31
3.5 BAND EDGE MEASUREMENT	31
3.5.1 LIMITS OF BAND EDGE MEASUREMENT	31
3.5.2 TEST SETUP	32
3.5.3 TEST PROCEDURES	33
3.5.4 TEST RESULTS	34
3.6 CONDUCTED SPURIOUS EMISSIONS.....	42
3.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	42
3.6.2 TEST PROCEDURE	42
3.6.3 TEST SETUP	42
3.6.4 TEST RESULTS	42
3.7 RADIATED EMISSION MEASUREMENT	43
3.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT	43
3.7.2 TEST PROCEDURES	43
3.7.3 DEVIATION FROM TEST STANDARD	43
3.7.4 TEST SETUP	44
3.7.5 TEST RESULTS	45



Test Report No.: RF200417W002-6

4	INFORMATION ON THE TESTING LABORATORIES	79
5	APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	80

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF190429W001-6	Original release	Jul 15, 2019
RF191120W002-6	Based on the original product add one model SK800, changed power module. In this report verify RSE worst case, other test date is copied from the original test report RF190429W001-6.	Dec. 10, 2019
RF200417W002-6	Based on the original report RF191120W002-6 changed the WWAN module from ME3630 to GM500_U1A, the module ME3630 and module GM500_U1A are identical in hardware, cancel LTE B17 and GSM function, no affect RF other function. In this report verify RSE worst case, update B12 band edge test data, other test data was copied from the original test report RF191120W002-6.	May. 07, 2020

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(d)(4)	Maximum Peak Output Power	PASS	Meet the requirement of limit.
2.1055 27.54	Frequency Stability	N/A	See note
2.1049 27.53(h)	Occupied Bandwidth	N/A	See note
27.50(d)(5)	Peak to average ratio	N/A	See note
27.53(h)(g)	Band Edge Measurements	PASS	Update B12 test data, B4 test data re-use from certified module, please see note.
2.1051 27.53(h)(g)	Conducted Spurious Emissions	N/A	See note
2.1053 27.53(h)(g)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -19.27dB at 99.365MHz.
Note: Test data re-use from certified module GM500_U1A, more details please refer test report RF180521W014-3(FCC ID: 2APNR-GM500U1A).			

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



Test Report No.: RF191120W002-6

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. 28,20	Feb. 27,21
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 28,20	Feb. 27,21
Bilog Antenna 1	ETS-LINDGREN	3143B	00161964	Feb. 28,20	Feb. 27,21
Bilog Antenna 2	ETS-LINDGREN	3143B	00161965	Feb. 28,20	Feb. 27,21
Horn Antenna 1	ETS-LINDGREN	3117	00168728	Feb. 28,20	Feb. 27,21
Horn Antenna 2	ETS-LINDGREN	3117	00168692	Nov. 24, 19	Nov. 23, 20
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40 -K-SG/QMS-00 361	15433	Nov. 24, 19	Nov. 23, 20
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 28,20	Feb. 27,21
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 24,19	Jun. 23,20
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 24,19	Jun. 23,20
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Jun. 24,19	Jun. 23,20
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143-1216	Feb. 28,20	Feb. 27,21
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	Jun. 24,19	Jun. 23,20
Power Meter	Anritsu	ML2495A	1506002	Feb. 28,20	Feb. 27,21
Power Sensor	Anritsu	MA2411B	1339352	Feb. 28,20	Feb. 27,21
Humid & Temp Programmable Tester	Juyi	ITH-120-45-CP -AR	IAA1504-001	Jun. 24,19	Jun. 23,20
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 28,20	Feb. 27,21

- 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	Smart Kiosk	
MODEL NAME	SK600	
ADDITIONAL MODEL	SK800	
POWER SUPPLY	AC 120V	
MODULATION TECHNOLOGY	LTE	QPSK, 16QAM
FREQUENCY RANGE	LTE Band 4 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1754.3MHz
	LTE Band 4 Channel Bandwidth: 3MHz	1711.5MHz ~ 1753.5MHz
	LTE Band 4 Channel Bandwidth: 5MHz	1712.5MHz ~ 1752.5MHz
	LTE Band 4 Channel Bandwidth: 10MHz	1715.0MHz ~ 1750.0MHz
	LTE Band 4 Channel Bandwidth: 15MHz	1717.5MHz ~ 1747.5MHz
	LTE Band 4 Channel Bandwidth: 20MHz	1720.0MHz ~ 1745.0MHz
	LTE Band 12 Channel Bandwidth: 1.4MHz	699.7MHz ~ 715.3MHz
	LTE Band 12 Channel Bandwidth: 3MHz	700.5MHz ~ 714.5MHz
	LTE Band 12 Channel Bandwidth: 5MHz	701.5MHz ~ 713.5MHz
	LTE Band 12 Channel Bandwidth: 10MHz	704.0MHz ~ 711.0MHz

EMISSION DESIGNATOR	LTE Band 4 Channel Bandwidth: 1.4MHz	QPSK: 1M09G7D 16QAM: 1M08W7D
	LTE Band 4 Channel Bandwidth: 3MHz	QPSK: 2M68G7D 16QAM: 2M69W7D
	LTE Band 4 Channel Bandwidth: 5MHz	QPSK: 4M48G7D 16QAM: 4M50W7D
	LTE Band 4 Channel Bandwidth: 10MHz	QPSK: 8M92G7D 16QAM: 8M94W7D
	LTE Band 4 Channel Bandwidth: 15MHz	QPSK: 13M4G7D 16QAM: 13M4W7D
	LTE Band 4 Channel Bandwidth: 20MHz	QPSK: 17M8G7D 16QAM: 17M8W7D
	LTE Band 12 Channel Bandwidth: 1.4MHz	QPSK: 1M09G7D 16QAM: 1M09W7D
	LTE Band 12 Channel Bandwidth: 3MHz	QPSK: 2M69G7D 16QAM: 2M69W7D
	LTE Band 12 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M48W7D
	LTE Band 12 Channel Bandwidth: 10MHz	QPSK: 8M94G7D 16QAM: 8M94W7D
MAX. ERP/EIRP POWER	LTE Band 4 Channel Bandwidth: 1.4MHz	246mW
	LTE Band 4 Channel Bandwidth: 3MHz	247mW
	LTE Band 4 Channel Bandwidth: 5MHz	233mW
	LTE Band 4 Channel Bandwidth: 10MHz	251mW
	LTE Band 4 Channel Bandwidth: 15MHz	255mW
	LTE Band 4 Channel Bandwidth: 20MHz	256mW
	LTE Band 12 Channel Bandwidth: 1.4MHz	164mW
	LTE Band 12 Channel Bandwidth: 3MHz	165mW
	LTE Band 12 Channel Bandwidth: 5MHz	168mW
	LTE Band 12 Channel Bandwidth: 10MHz	169mW
ANTENNA TYPE	Fixed Internal Antenna	
ANTENNA GAIN	1.5dBi for LTE Band 4 1dBi for LTE Band 12	



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Test Report No.: RF191120W002-6

HW VERSION	N/A
SW VERSION	N/A
ACCESSORY DEVICE	Refer to user's manual
DATA CABLE	Refer to note as below

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The hardware differences between SK800 with SK600:

Product size and weight	
SK600	Size: 660 x325 x 178 (mm) Weight: 7.8kg
SK800	Size: 965x 390x 175 (mm) Weight: 13kg

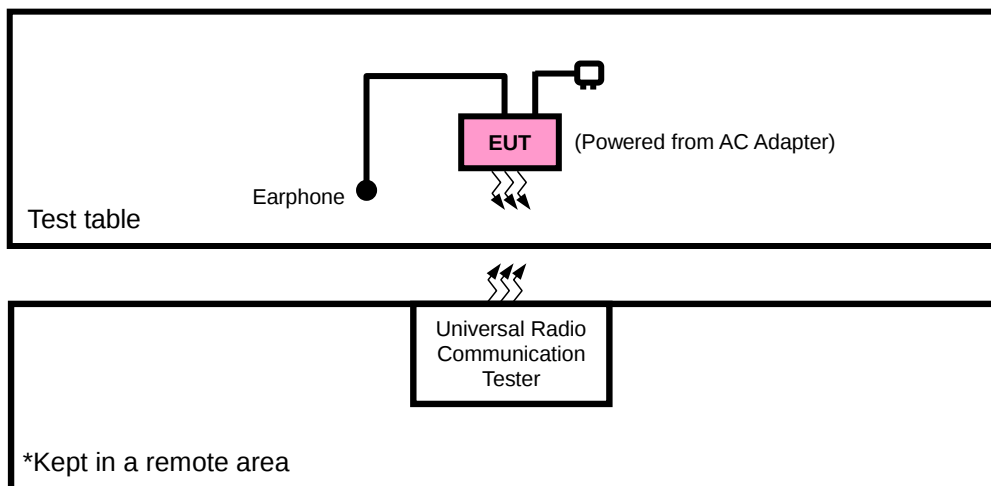
Product screen size	
SK600	screen size: 15"
SK800	screen size: 23.8"

Except Listings above, the others are the same.

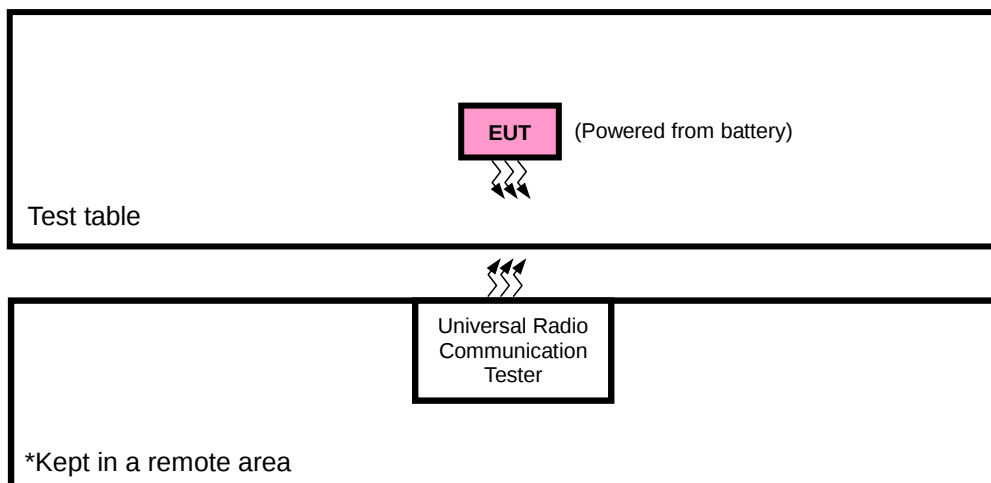
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report. SK600 was main test model for full conducted test items.

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

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

NOTE:

1. All power cords of the above support units are non shielded.

2.4 DESCRIPTION OF TEST MODES

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 in ERP/EIRP and radiated emission was found when positioned on X-plane for LTE. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT with LTE link

LTE BAND 4

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	20175	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	20175	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20175	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20175	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20175	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.

LTE BAND 12

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	ERP	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset
		23025 to 23165	23025, 23095 ,23165	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
A	BAND EDGE	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset 6 BR/ 0 RB Offset
		23025 to 23165	23025, 23095 ,23165	3MHz	QPSK,16QAM	1 RB / 0 RB Offset 12 BR/ 0 RB Offset
		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK,16QAM	1 RB / 0 RB Offset 25 BR/ 0 RB Offset
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK,16QAM	1 RB / 0 RB Offset 50 BR/ 0 RB Offset
A	RADIATED EMISSION	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK	1 RB / 0 RB Offset
		23025 to 23165	23095	3MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23095	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23095	10MHz	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.



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Test Report No.: RF191120W002-6

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP(ERP)	24deg. C, 60%RH	AC120V	Jacky Liu
BAND EDGE	24deg. C, 60%RH	AC120V	Big Wang
RADIATED EMISSION	24deg. C, 60%RH	AC120V	Jacky Liu



Test Report No.: RF191120W002-6

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

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

Portable stations (hand-held devices) operating in the 699-716 MHz bands are limited to 3 watts ERP.

3.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

- a. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RBW and VBW is 10MHz for LTE.
- b. E.I.R.P power 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 a. Record the power level of S.G
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$
- e. $E.R.P = E.I.R.P - 2.15 \text{ dB}$

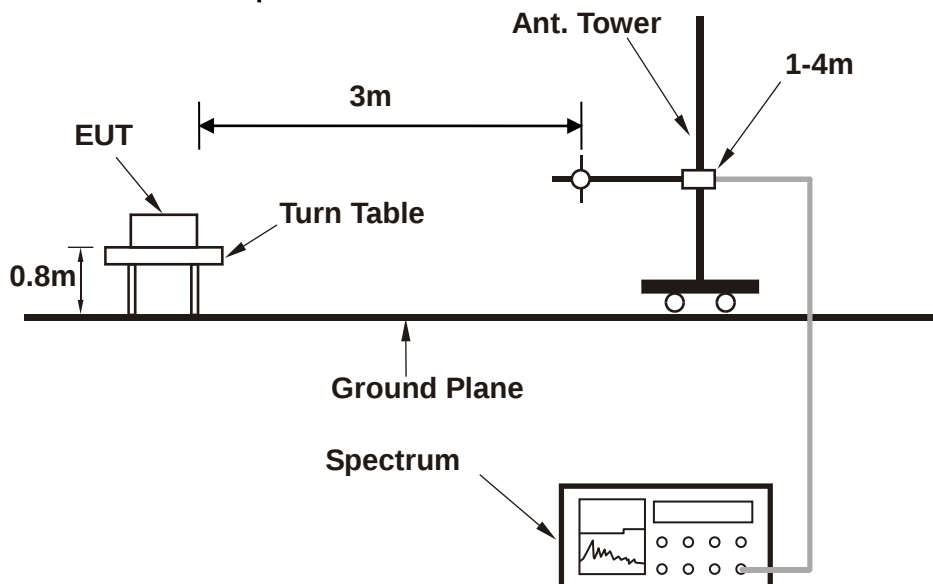
CONDUCTED POWER MEASUREMENT:

- 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.

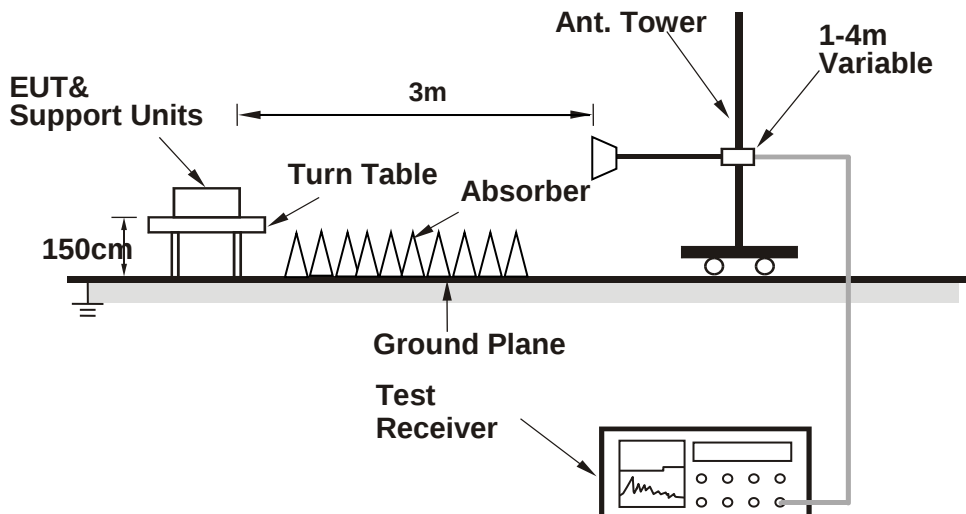
3.1.3 TEST SETUP

EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>

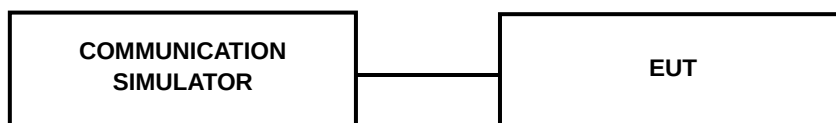


<Radiated Emission above 1 GHz>



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

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 19957	Mid CH 20175	High CH 20393	MPR
				Frequency 1710.7 MHz	Frequency 1732.5 MHz	Frequency 1754.3 MHz	
1.4MHz	QPSK	1	0	21.85	22.13	22.42	0
		1	2	21.83	22.11	22.40	0
		1	5	21.80	22.08	22.37	0
		3	0	21.83	22.11	22.40	0
		3	1	21.81	22.09	22.38	0
		3	3	21.78	22.06	22.35	0
		6	0	20.68	20.96	21.25	1
	16QAM	1	0	20.61	20.89	21.18	1
		1	2	20.60	20.88	21.17	1
		1	5	20.41	20.69	20.98	1
		3	0	20.60	20.88	21.17	1
		3	1	20.59	20.87	21.16	1
		3	3	20.40	20.68	20.97	1
		6	0	19.76	20.04	20.33	2
BW	Modulation	RB Size	RB Offset	Low CH 19965	Mid CH 20175	High CH 20385	MPR
				Frequency 1711.5 MHz	Frequency 1732.5 MHz	Frequency 1753.5 MHz	
3 MHz	QPSK	1	0	21.86	22.14	22.43	0
		1	7	21.84	22.12	22.41	0
		1	14	21.81	22.09	22.38	0
		8	0	20.88	21.16	21.45	1
		8	3	20.79	21.07	21.36	1
		8	7	20.77	21.05	21.34	1
		15	0	20.69	20.97	21.26	1
	16QAM	1	0	20.62	20.90	21.19	1
		1	7	20.61	20.89	21.18	1
		1	14	20.42	20.70	20.99	1
		8	0	19.91	20.19	20.48	2
		8	3	19.85	20.13	20.42	2
		8	7	19.82	20.10	20.39	2
		15	0	19.77	20.05	20.34	2

LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 19975	Mid CH 20175	High CH 20375	MPR
				Frequency 1712.5 MHz	Frequency 1732.5 MHz	Frequency 1752.5 MHz	
5 MHz	QPSK	1	0	21.89	22.17	22.46	0
		1	12	21.87	22.15	22.44	0
		1	24	21.84	22.12	22.41	0
		12	0	20.91	21.19	21.48	1
		12	6	20.82	21.10	21.39	1
		12	13	20.80	21.08	21.37	1
		25	0	20.72	21.00	21.29	1
	16QAM	1	0	20.65	20.93	21.22	1
		1	12	20.64	20.92	21.21	1
		1	24	20.45	20.73	21.02	1
		12	0	19.94	20.22	20.51	2
		12	6	19.88	20.16	20.45	2
		12	13	19.85	20.13	20.42	2
		25	0	19.80	20.08	20.37	2
BW	Modulation	RB Size	RB Offset	Low CH 20000	Mid CH 20175	High CH 20350	MPR
				Frequency 1715 MHz	Frequency 1732.5 MHz	Frequency 1750 MHz	
10 MHz	QPSK	1	0	21.93	22.21	22.50	0
		1	24	21.91	22.19	22.48	0
		1	49	21.88	22.16	22.45	0
		25	0	20.95	21.23	21.52	1
		25	12	20.86	21.14	21.43	1
		25	25	20.84	21.12	21.41	1
		50	0	20.76	21.04	21.33	1
	16QAM	1	0	20.69	20.97	21.26	1
		1	24	20.68	20.96	21.25	1
		1	49	20.49	20.77	21.06	1
		25	0	19.98	20.26	20.55	2
		25	12	19.92	20.20	20.49	2
		25	25	19.89	20.17	20.46	2
		50	0	19.84	20.12	20.41	2

LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 20025	Mid CH 20175	High CH 20325	MPR
				Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz	
15 MHz	QPSK	1	0	21.99	22.27	22.56	0
		1	37	21.97	22.25	22.54	0
		1	74	21.94	22.22	22.51	0
		36	0	21.01	21.29	21.58	1
		36	19	20.92	21.20	21.49	1
		36	39	20.90	21.18	21.47	1
		75	0	20.82	21.10	21.39	1
	16QAM	1	0	20.75	21.03	21.32	1
		1	37	20.74	21.02	21.31	1
		1	74	20.55	20.83	21.12	1
		36	0	20.04	20.32	20.61	2
		36	19	19.98	20.26	20.55	2
		36	39	19.95	20.23	20.52	2
		75	0	19.90	20.18	20.47	2
BW	Modulation	RB Size	RB Offset	Low CH 20050	Mid CH 20175	High CH 20300	MPR
				Frequency 1720 MHz	Frequency 1732.5 MHz	Frequency 1745 MHz	
20MHz	QPSK	1	0	22.02	22.30	22.59	0
		1	50	22.00	22.28	22.57	0
		1	99	21.97	22.25	22.54	0
		50	0	21.04	21.32	21.61	1
		50	25	20.95	21.23	21.52	1
		50	50	20.93	21.21	21.50	1
		100	0	20.85	21.13	21.42	1
	16QAM	1	0	20.78	21.06	21.35	1
		1	50	20.77	21.05	21.34	1
		1	99	20.58	20.86	21.15	1
		50	0	20.07	20.35	20.64	2
		50	25	20.01	20.29	20.58	2
		50	50	19.98	20.26	20.55	2
		100	0	19.93	20.21	20.50	2

LTE Band 12							
BW	Modulation	RB Size	RB Offset	Low CH 23017	Mid CH 23095	High CH 23173	MPR
				Frequency 699.7 MHz	Frequency 707.5 MHz	Frequency 715.3 MHz	
1.4 MHz	QPSK	1	0	23.08	23.29	23.17	0
		1	2	23.00	23.21	23.09	0
		1	5	22.91	23.12	23.00	0
		3	0	23.06	23.27	23.15	0
		3	1	22.98	23.19	23.07	0
		3	3	22.89	23.10	22.98	0
		6	0	22.02	22.23	22.11	1
	16QAM	1	0	21.70	21.91	21.79	1
		1	2	21.68	21.89	21.77	1
		1	5	21.28	21.49	21.37	1
		3	0	21.69	21.90	21.78	1
		3	1	21.67	21.88	21.76	1
		3	3	21.27	21.48	21.36	1
		6	0	21.03	21.24	21.12	2
LTE Band 12							
BW	Modulation	RB Size	RB Offset	Low CH 23025	Mid CH 23095	High CH 23165	MPR
				Frequency 700.5 MHz	Frequency 707.5 MHz	Frequency 714.5 MHz	
3 MHz	QPSK	1	0	23.12	23.33	23.21	0
		1	7	23.04	23.25	23.13	0
		1	14	22.95	23.16	23.04	0
		8	0	22.16	22.37	22.25	1
		8	3	22.13	22.34	22.22	1
		8	7	22.10	22.31	22.19	1
		15	0	22.06	22.27	22.15	1
	16QAM	1	0	21.74	21.95	21.83	1
		1	7	21.72	21.93	21.81	1
		1	14	21.32	21.53	21.41	1
		8	0	21.20	21.41	21.29	2
		8	3	21.17	21.38	21.26	2
		8	7	21.12	21.33	21.21	2
		15	0	21.07	21.28	21.16	2

LTE Band 12							
BW	Modulation	RB Size	RB Offset	Low CH 23035	Mid CH 23095	High CH 23155	MPR
				Frequency 701.5 MHz	Frequency 707.5 MHz	Frequency 713.5 MHz	
5 MHz	QPSK	1	0	23.18	23.39	23.27	0
		1	12	23.10	23.31	23.19	0
		1	24	23.01	23.22	23.10	0
		12	0	22.22	22.43	22.31	1
		12	6	22.19	22.40	22.28	1
		12	13	22.16	22.37	22.25	1
		25	0	22.12	22.33	22.21	1
	16QAM	1	0	21.80	22.01	21.89	1
		1	12	21.78	21.99	21.87	1
		1	24	21.38	21.59	21.47	1
		12	0	21.26	21.47	21.35	2
		12	6	21.23	21.44	21.32	2
		12	13	21.18	21.39	21.27	2
		25	0	21.13	21.34	21.22	2
LTE Band 12							
BW	Modulation	RB Size	RB Offset	Low CH 23060	Mid CH 23095	High CH 23130	MPR
				Frequency 704 MHz	Frequency 707.5 MHz	Frequency 711 MHz	
10 MHz	QPSK	1	0	23.21	23.42	23.30	0
		1	24	23.13	23.34	23.22	0
		1	49	23.04	23.25	23.13	0
		25	0	22.25	22.46	22.34	1
		25	12	22.22	22.43	22.31	1
		25	25	22.19	22.40	22.28	1
		50	0	22.15	22.36	22.24	1
	16QAM	1	0	21.83	22.04	21.92	1
		1	24	21.81	22.02	21.90	1
		1	49	21.41	21.62	21.50	1
		25	0	21.29	21.50	21.38	2
		25	12	21.26	21.47	21.35	2
		25	25	21.21	21.42	21.30	2
		50	0	21.16	21.37	21.25	2

EIRP

LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	21.85	1.50	23.35	216.27	1
20175	1732.5	22.13	1.50	23.63	230.67	1
20393	1754.3	22.41	1.50	23.91	246.04	1

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	20.61	1.50	22.11	162.55	1
20175	1732.5	20.89	1.50	22.39	173.38	1
20393	1754.3	21.18	1.50	22.68	185.35	1

LTE BAND 4

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	21.86	1.50	23.36	216.77	1
20175	1732.5	22.14	1.50	23.64	231.21	1
20385	1753.5	22.43	1.50	23.93	247.17	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	20.62	1.50	22.12	162.93	1
20175	1732.5	20.90	1.50	22.40	173.78	1
20385	1753.5	21.19	1.50	22.69	185.78	1

LTE BAND 4

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	21.89	1.50	23.39	218.27	1
20175	1732.5	22.17	1.50	23.67	232.81	1
20375	1752.5	22.16	1.50	23.66	232.27	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	20.65	1.50	22.15	164.06	1
20175	1732.5	20.93	1.50	22.43	174.98	1
20375	1752.5	21.22	1.50	22.72	187.07	1

LTE BAND 4

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1715.0	21.93	1.50	23.43	220.29	1
18900	1732.5	22.21	1.50	23.71	234.96	1
19150	1750.0	22.50	1.50	24.00	251.19	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715.0	20.69	1.50	22.19	165.58	1
20175	1732.5	20.97	1.50	22.47	176.60	1
20350	1750.0	21.26	1.50	22.76	188.80	1

LTE BAND 4

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	21.99	1.50	23.49	223.36	1
20175	1732.5	22.27	1.50	23.77	238.23	1
20325	1747.5	22.56	1.50	24.06	254.68	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	20.75	1.50	22.25	167.88	1
20175	1732.5	21.03	1.50	22.53	179.06	1
20325	1747.5	21.32	1.50	22.82	191.43	1

LTE BAND 4

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720.0	22.02	1.50	23.52	224.91	1
20175	1732.5	22.30	1.50	23.80	239.88	1
20300	1745.0	22.59	1.50	24.09	256.45	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720.0	20.78	1.50	22.28	169.04	1
20175	1732.5	21.06	1.50	22.56	180.30	1
20300	1745.0	21.35	1.50	22.85	192.75	1

LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23017	699.7	23.08	1.00	21.93	155.96	3
23095	707.5	23.29	1.00	22.14	163.68	3
23173	715.3	23.17	1.00	22.02	159.22	3

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23017	699.7	21.70	1.00	20.55	113.5	3
23095	707.5	21.91	1.00	20.76	119.12	3
23173	715.3	21.79	1.00	20.64	115.88	3

LTE BAND 12

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23025	700.5	23.12	1.00	21.97	157.4	3
23095	707.5	23.33	1.00	22.18	165.2	3
23165	714.5	23.21	1.00	22.06	160.69	3

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23025	700.5	21.74	1.00	20.59	114.55	3
23095	707.5	21.95	1.00	20.80	120.23	3
23165	714.5	21.83	1.00	20.68	116.95	3

LTE BAND 12

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23035	701.5	23.18	1.00	22.03	159.59	3
23095	707.5	23.39	1.00	22.24	167.49	3
23155	713.5	23.27	1.00	22.12	162.93	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23035	701.5	21.80	1.00	20.65	116.14	3
23095	707.5	22.01	1.00	20.86	121.9	3
23155	713.5	21.89	1.00	20.74	118.58	3

LTE BAND 12

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23060	704.0	23.21	1.00	22.06	160.69	3
23095	707.5	23.42	1.00	22.27	168.66	3
23130	711.0	23.30	1.00	22.15	164.06	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23060	704.0	21.83	1.00	20.68	116.95	3
23095	707.5	22.04	1.00	20.89	122.74	3
23130	711.0	21.92	1.00	20.77	119.4	3

REMARKS: 1. ERP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB) -2.15(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

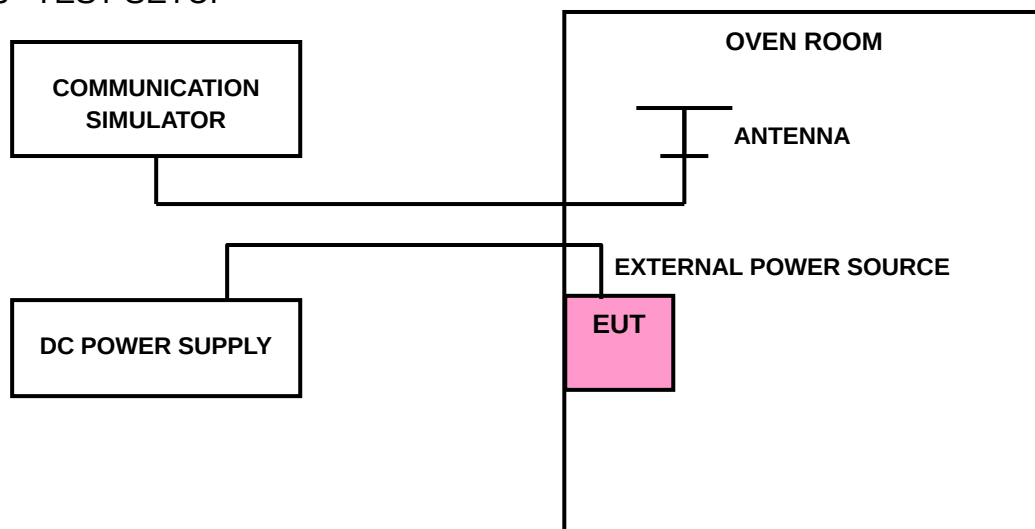
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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



3.2.4 TEST RESULTS

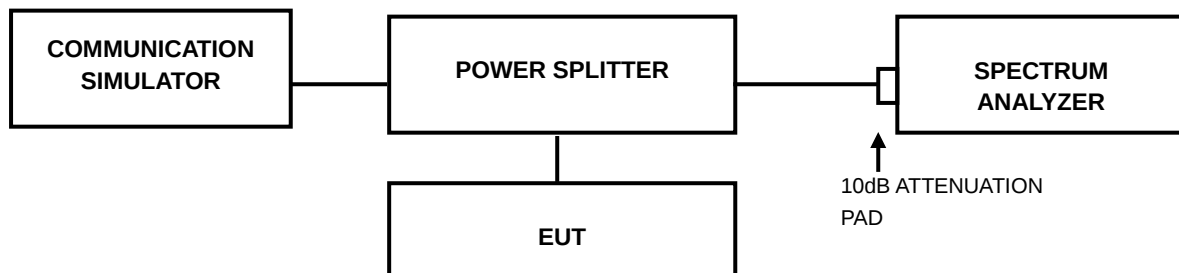
The test results was recorded in Report No.: RF180521W014-3 (FCC ID: 2APNR-GM500U1A).

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

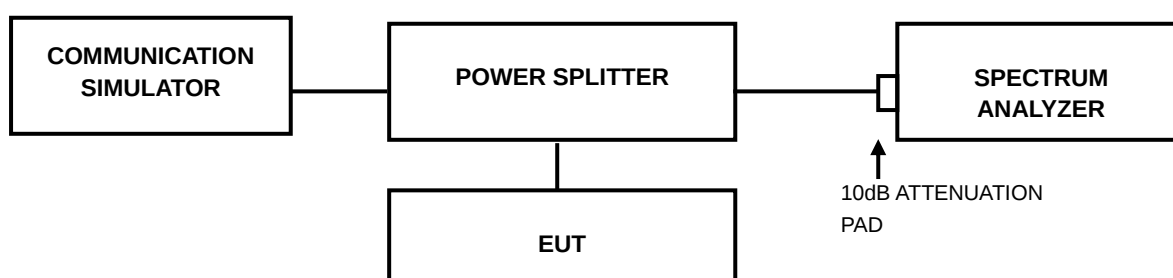
The test results was recorded in Report No.: RF180521W014-3 (FCC ID: 2APNR-GM500U1A).

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

The test results was recorded in Report No.: RF180521W014-3 (FCC ID: 2APNR-GM500U1A).

3.5 BAND EDGE MEASUREMENT

3.5.1 LIMITS OF BAND EDGE MEASUREMENT

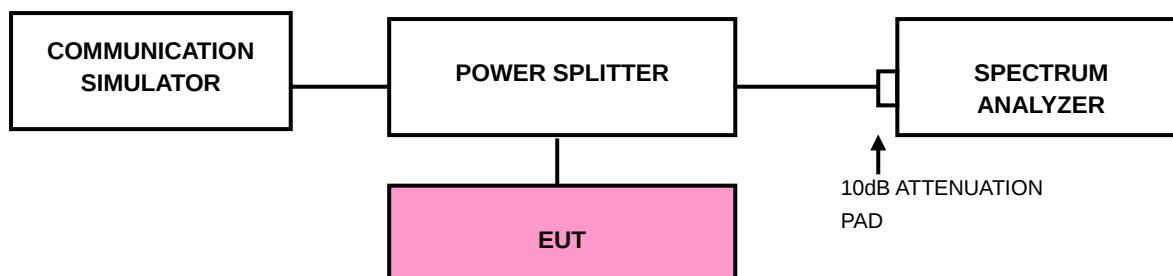
27.53(g) The power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53(h) AWS emission limits—(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

(3) Measurement procedure. (i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

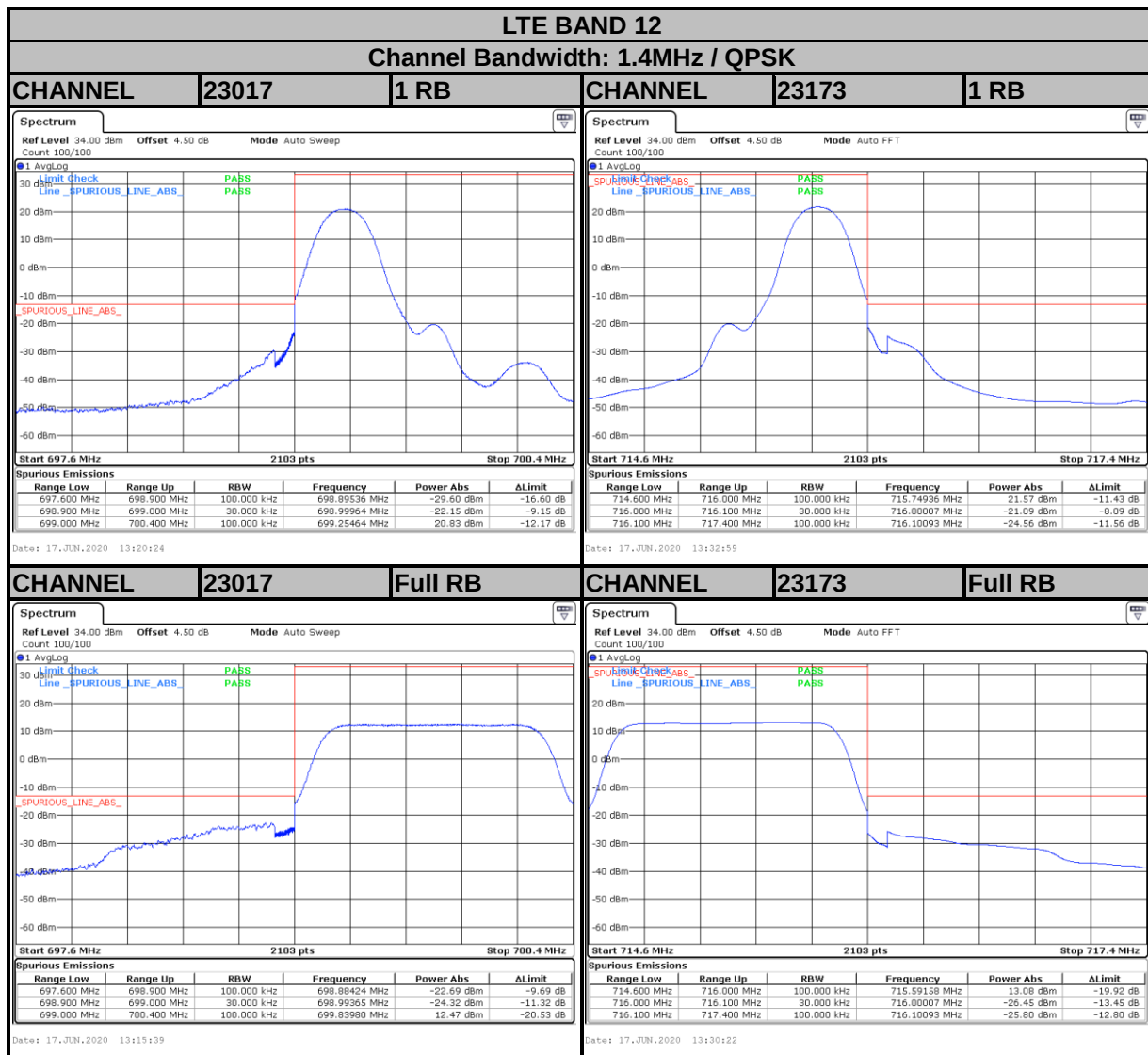
3.5.2 TEST SETUP

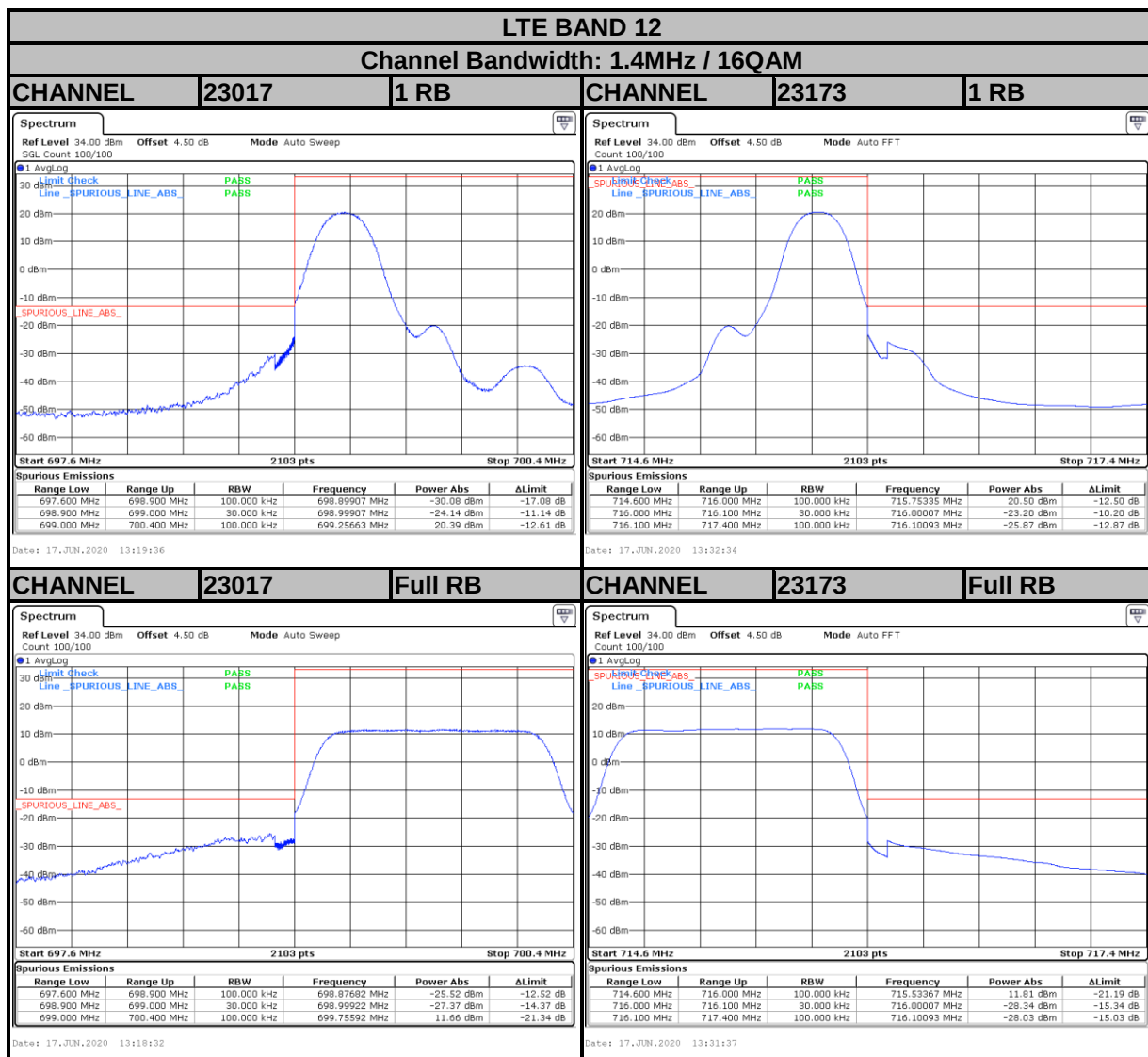


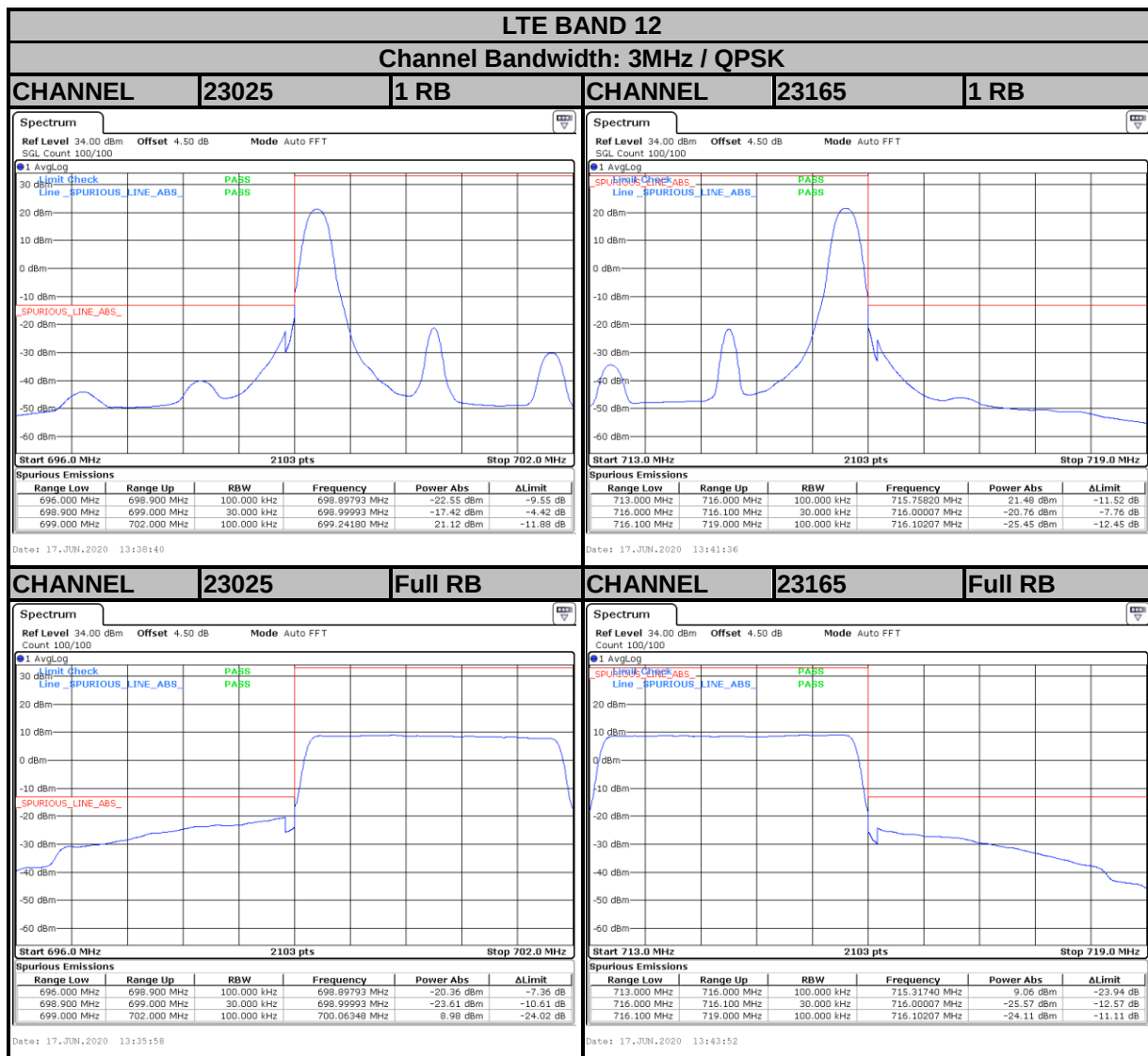
3.5.3 TEST PROCEDURES

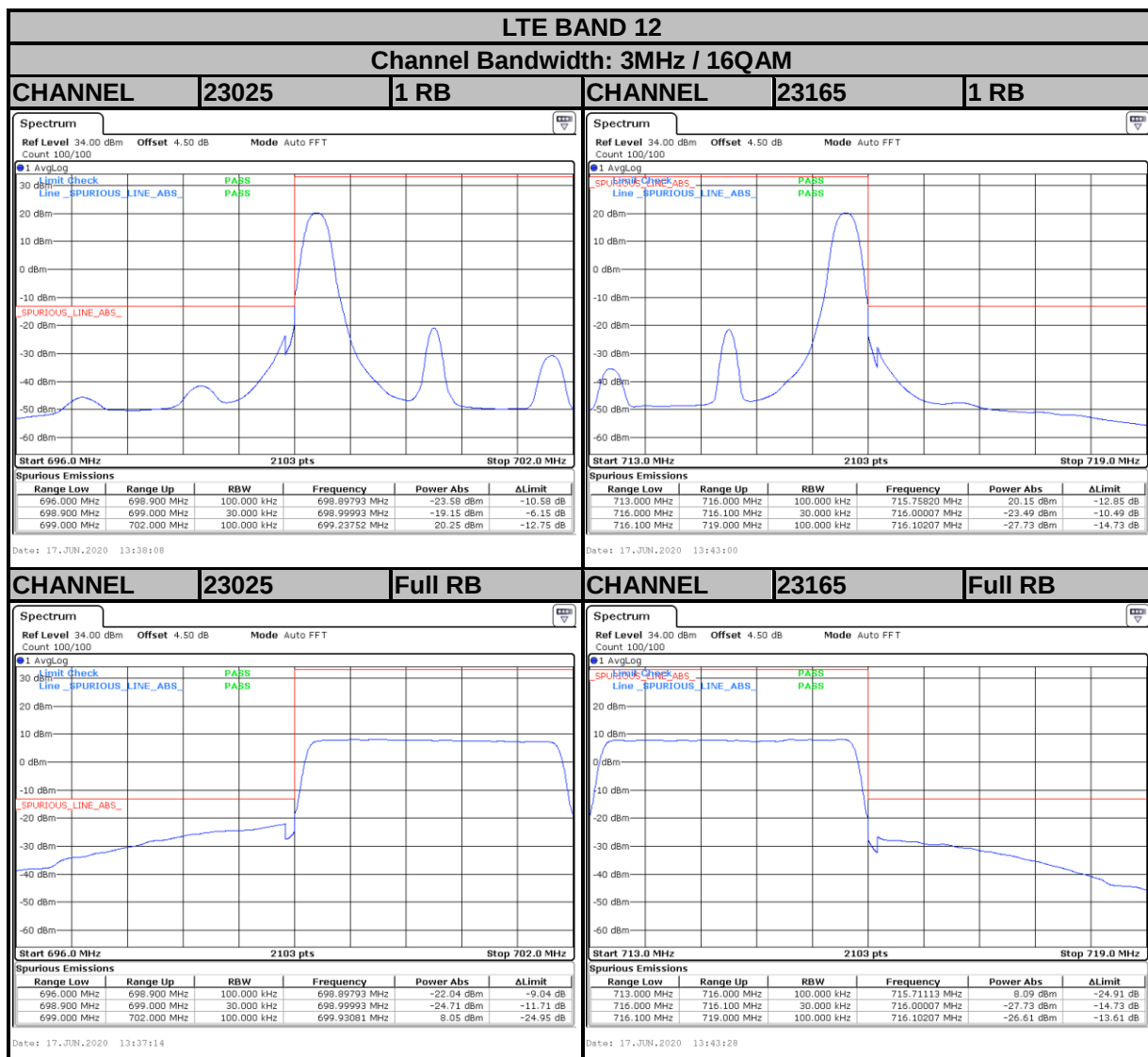
- a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 30kHz and VBW of the spectrum is 100 kHz. (LTE bandwidth 1.4MHz)
- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 30kHz and VBW of the spectrum is 100kHz. (LTE bandwidth 3MHz)
- e. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 50kHz and VBW of the spectrum is 200kHz. (LTE bandwidth 5MHz)
- f. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz. (LTE bandwidth 10MHz)
- g. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 15MHz)
- h. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 20MHz)
- i. Record the max trace plot into the test report.

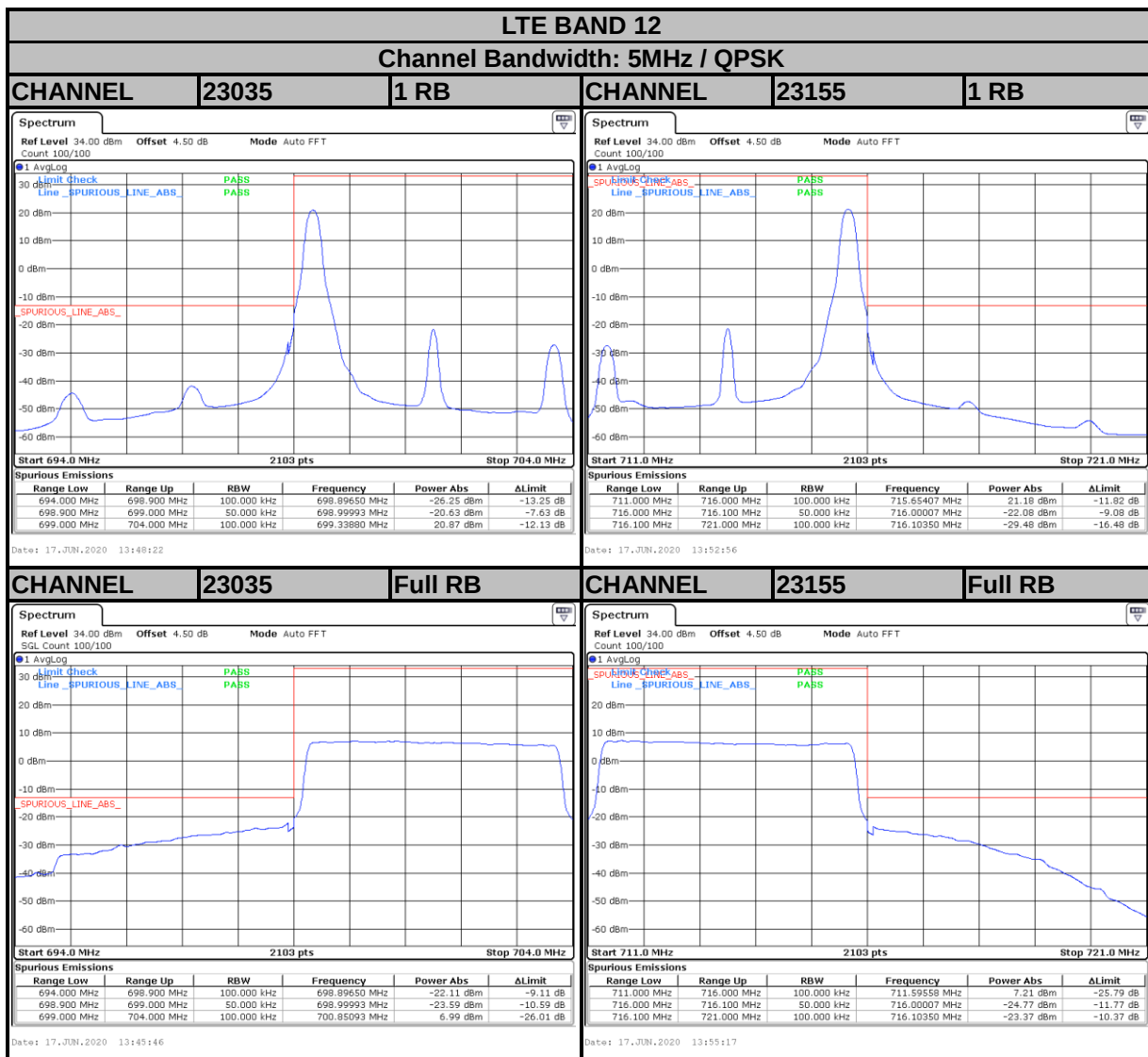
3.5.4 TEST RESULTS

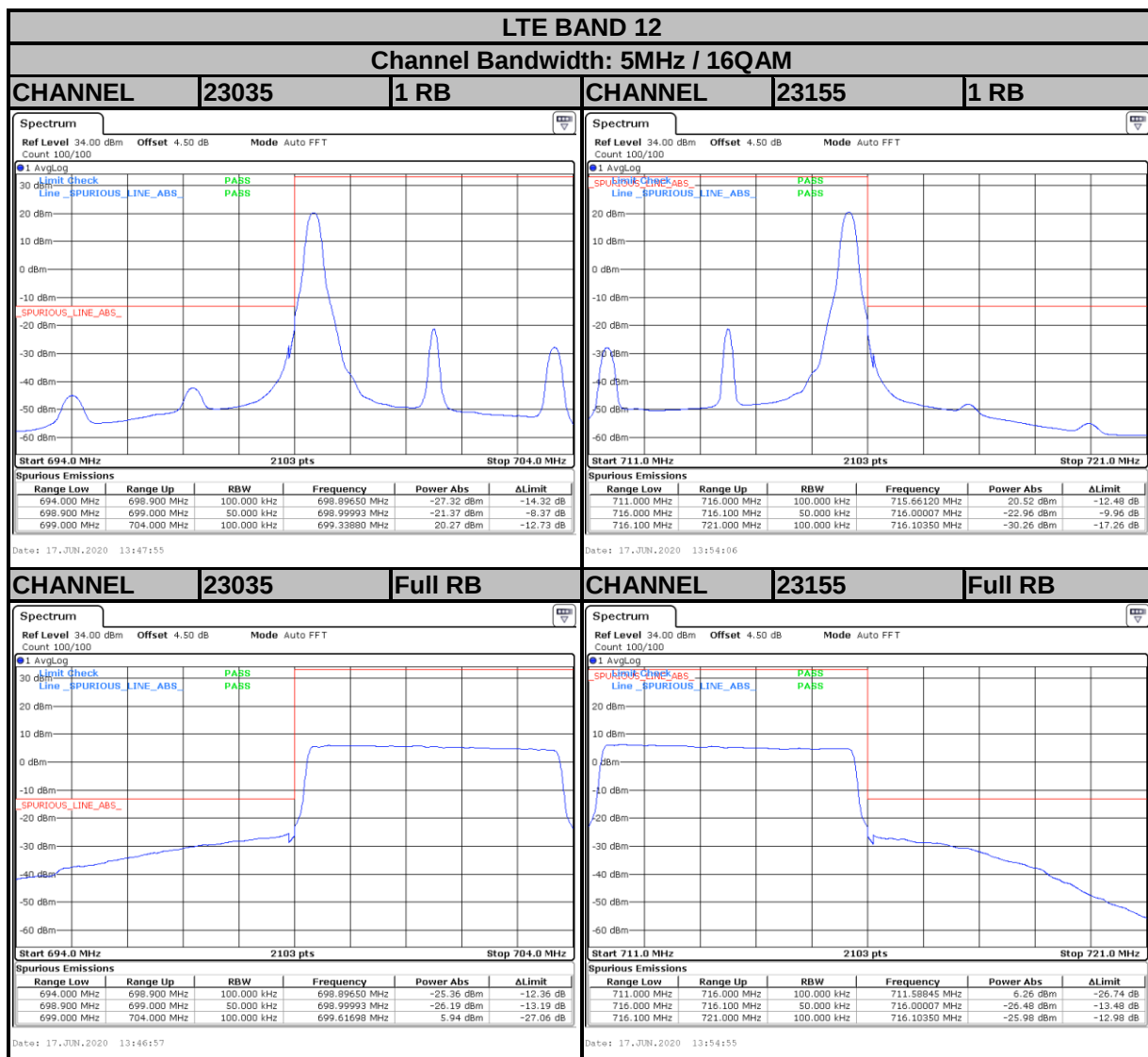


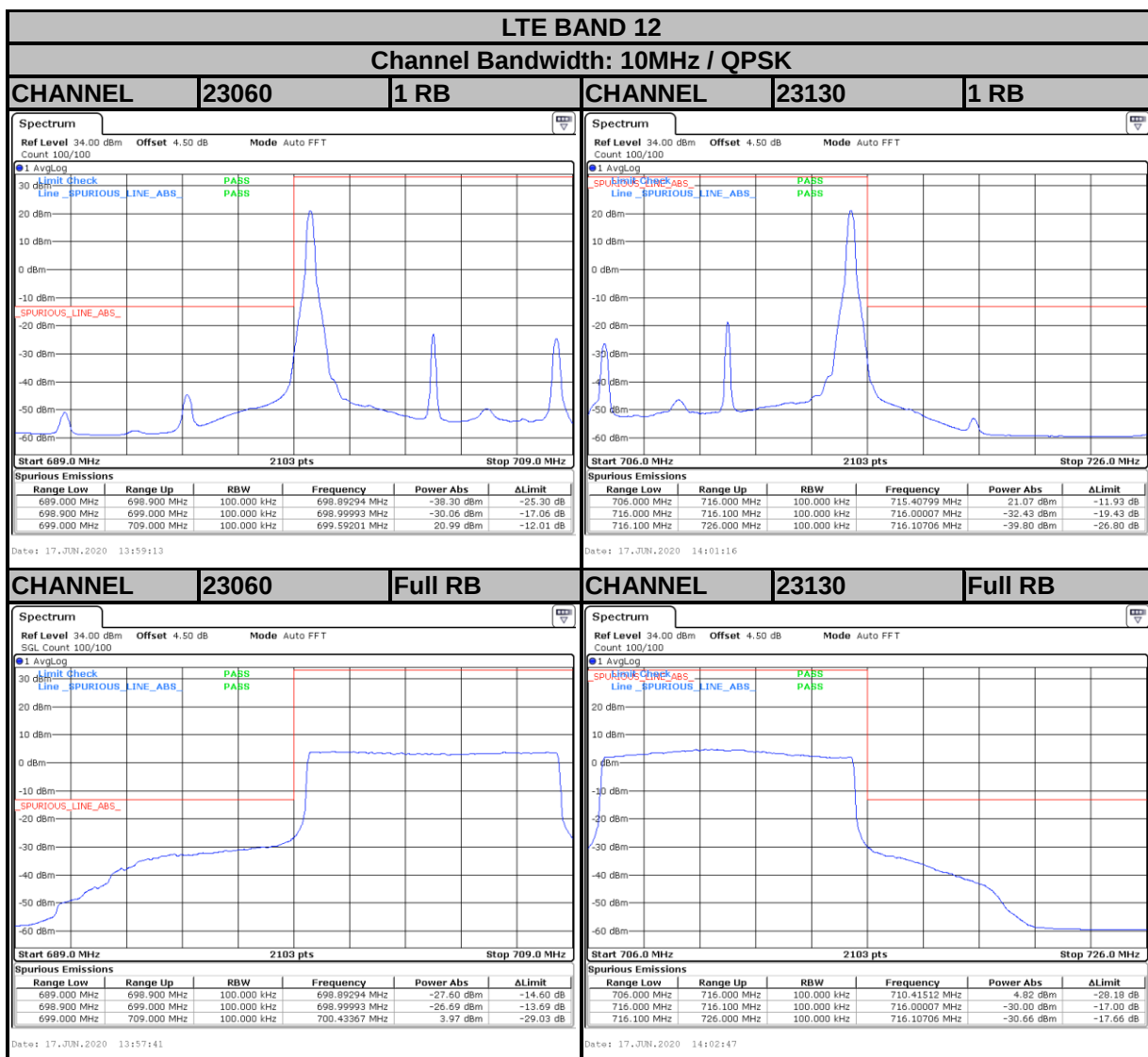


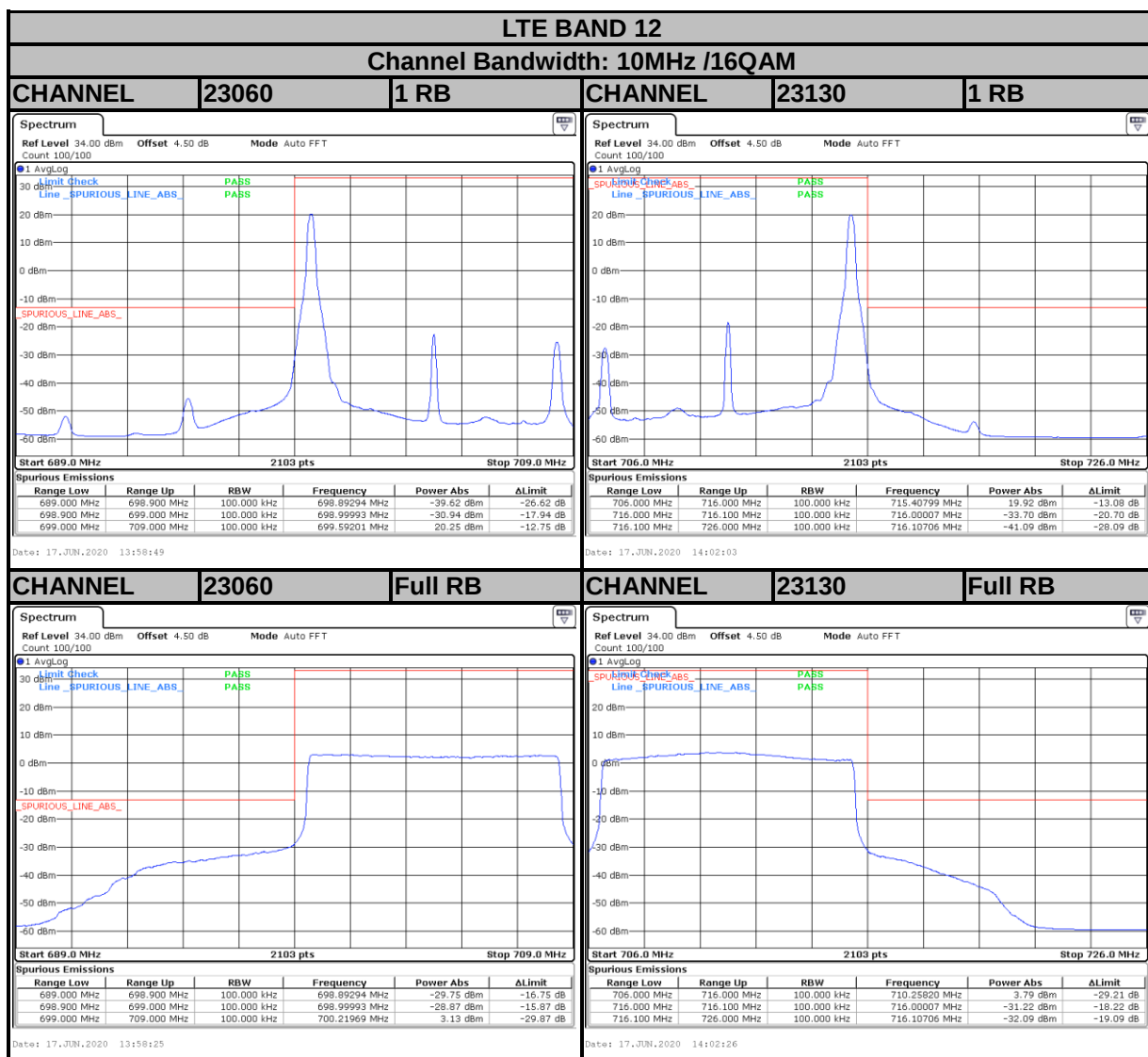












Note: The LTE B4 test results was recorded in Report No.: RF180521W014-3 (FCC ID: 2APNR-GM500U1A).

3.6 CONDUCTED SPURIOUS EMISSIONS

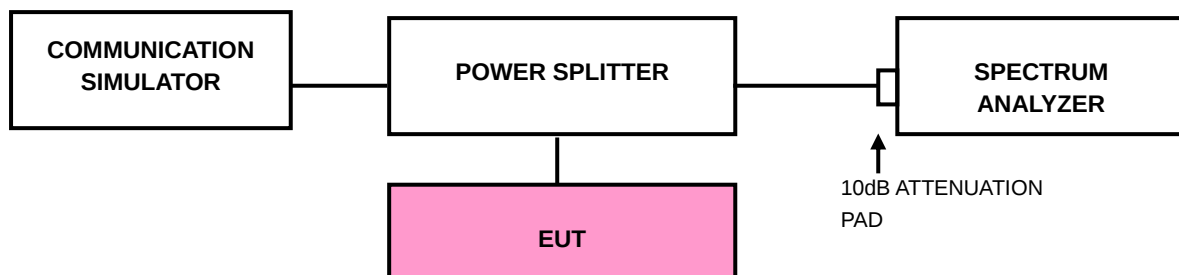
3.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

3.6.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at middle operational frequency range.
- b. Measuring frequency range is from 30 MHz to 19.1GHz for WCDMA Band 4 & LTE Band 4 and 30 MHz to 9GHz for LTE Band 12. 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

The test results was recorded in Report No.: RF180521W014-3 (FCC ID: 2APNR-GM500U1A).

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 $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

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. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}.$

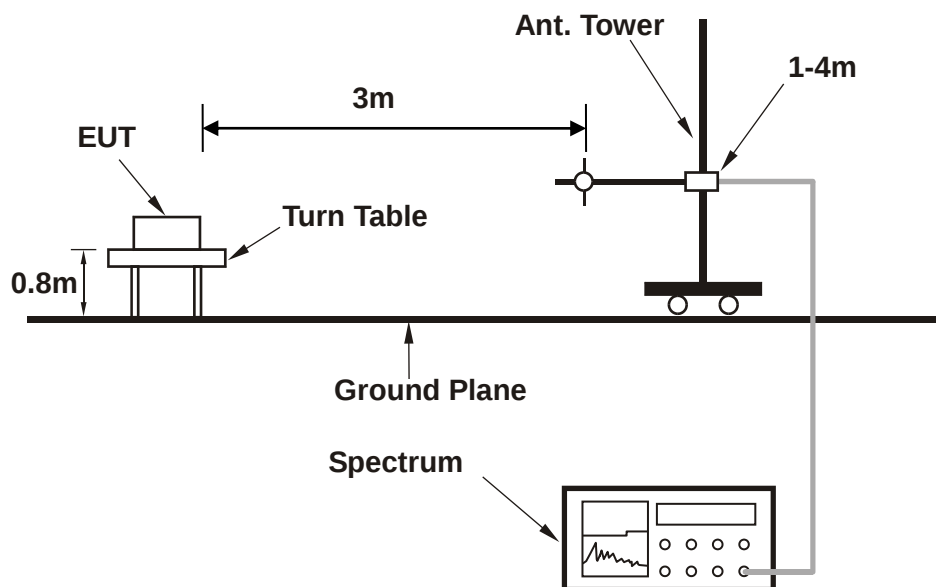
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.7.3 DEVIATION FROM TEST STANDARD

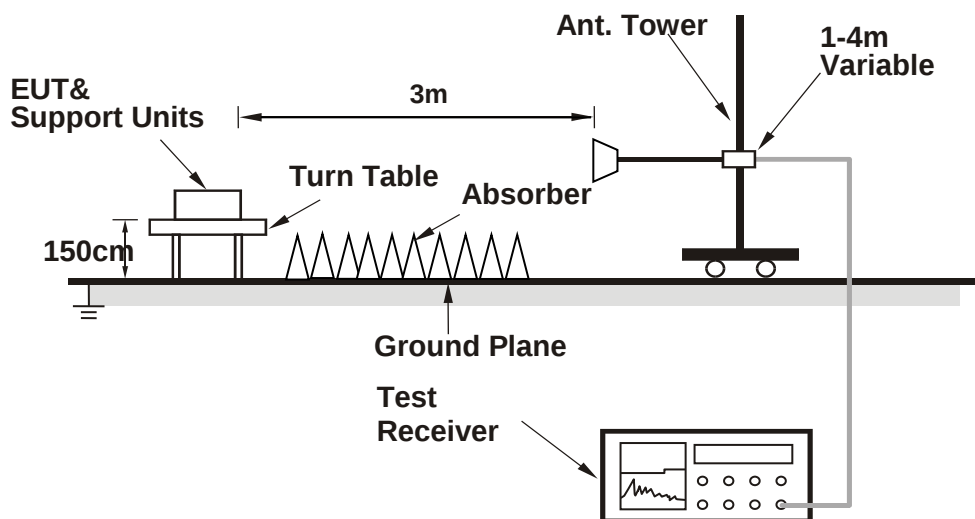
No deviation

3.7.4 TEST SETUP

< 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

SK600

BELOW 1GHz WORST-CASE DATA

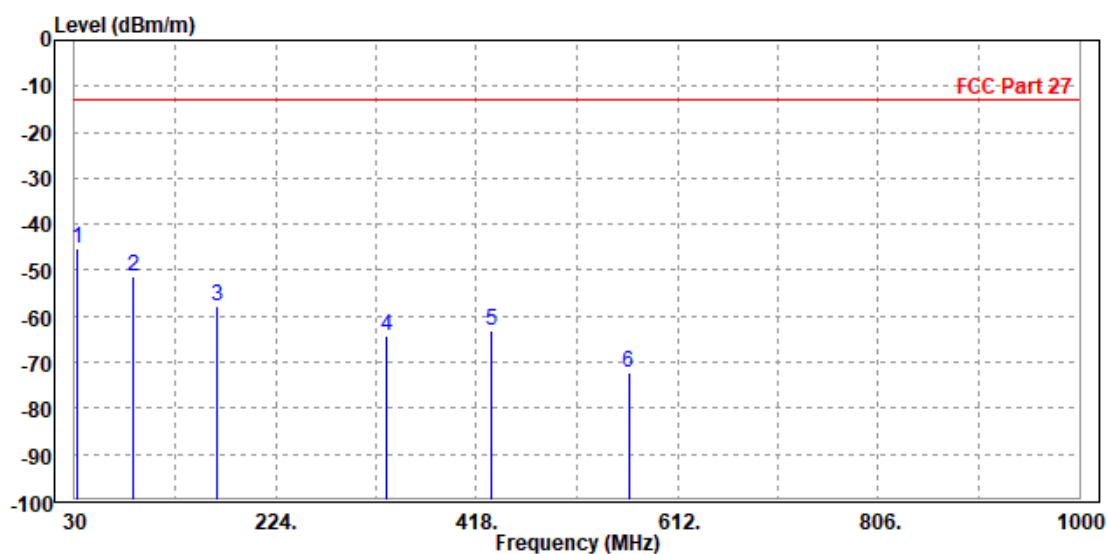
30 MHz – 1GHz data:

LTE BAND 12

CHANNEL BANDWIDTH: 5MHz / QPSK

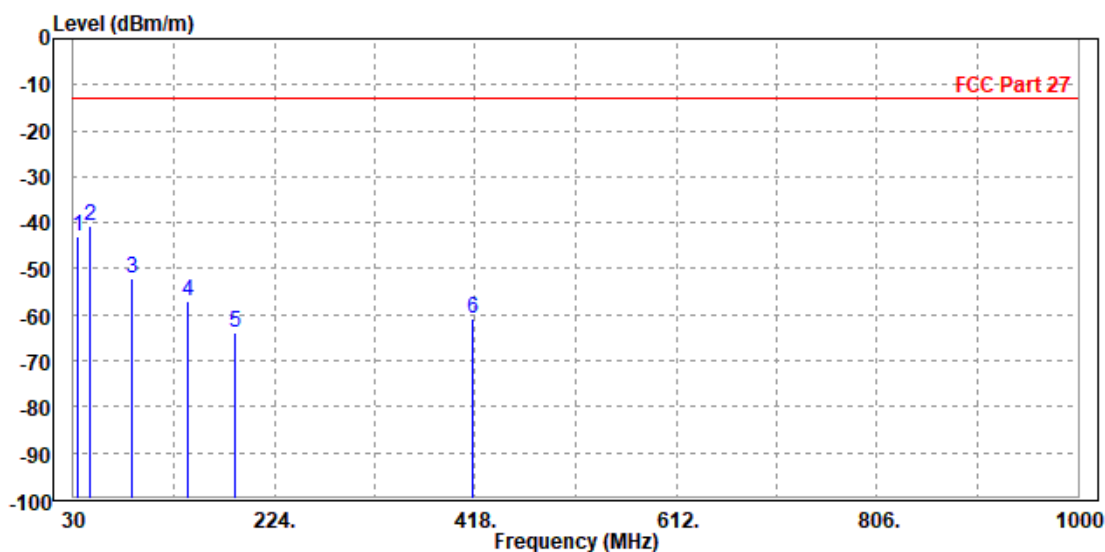
MODE	TX channel 23095	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	32.150	-45.16	-61.55	-13.00	-32.16	16.39	Peak	Horizontal
2	86.660	-51.24	-42.66	-13.00	-38.24	-8.58	Peak	Horizontal
3	167.210	-57.88	-39.67	-13.00	-44.88	-18.21	Peak	Horizontal
4	331.560	-64.40	-51.65	-13.00	-51.40	-12.75	Peak	Horizontal
5	431.660	-62.99	-52.56	-13.00	-49.99	-10.43	Peak	Horizontal
6	564.770	-72.17	-62.88	-13.00	-59.17	-9.29	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
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	33.580	-43.09	-43.66	-13.00	-30.09	0.57	Peak	Vertical
2 PP	46.260	-40.68	-37.11	-13.00	-27.68	-3.57	Peak	Vertical
3	87.310	-52.11	-41.65	-13.00	-39.11	-10.46	Peak	Vertical
4	141.260	-57.20	-41.25	-13.00	-44.20	-15.95	Peak	Vertical
5	186.360	-63.69	-51.33	-13.00	-50.69	-12.36	Peak	Vertical
6	415.850	-60.98	-50.63	-13.00	-47.98	-10.35	Peak	Vertical





Test Report No.: RF191120W002-6

ABOVE 1GHz

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

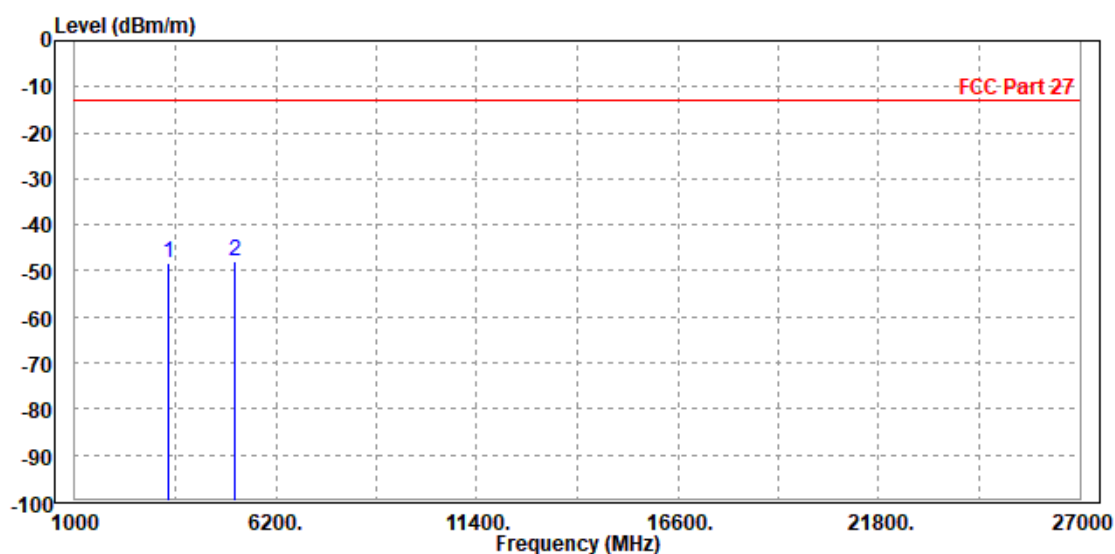
LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH 19957

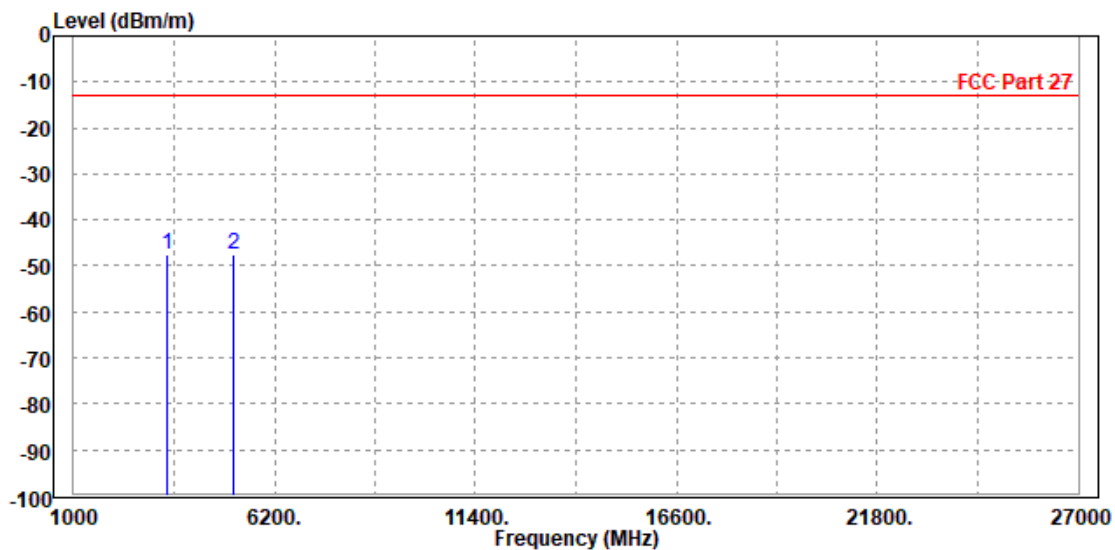
MODE	TX channel 19957	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3418.000	-48.24	-56.83	-13.00	-35.24	8.59	Peak	Horizontal
2 PP	5132.100	-47.79	-56.71	-13.00	-34.79	8.92	Peak	Horizontal



MODE	TX channel 19957	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

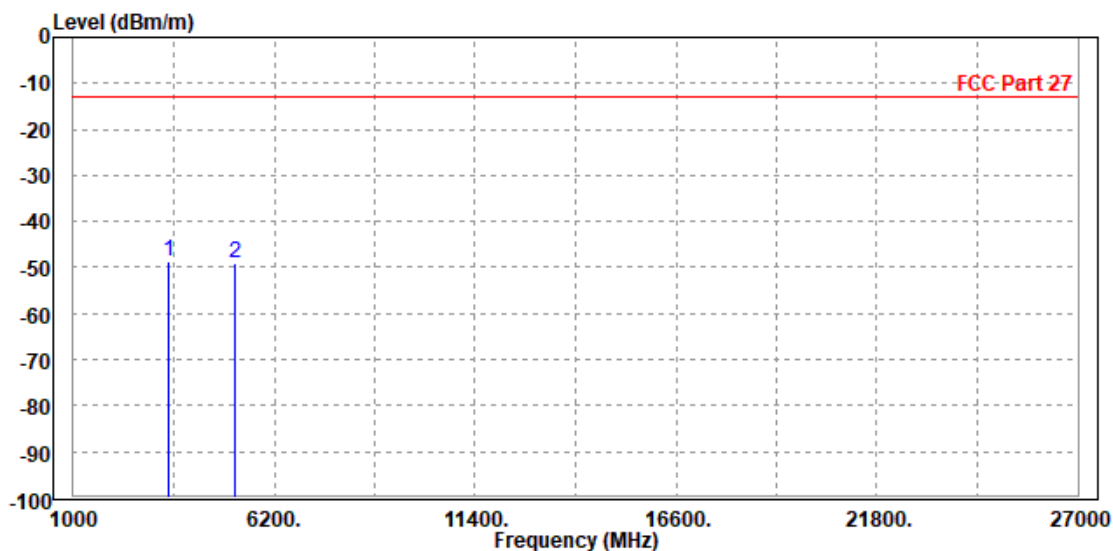
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3418.000	-47.35	-56.46	-13.00	-34.35	9.11	Peak	Vertical
2	5132.100	-47.62	-57.47	-13.00	-34.62	9.85	Peak	Vertical



CH 20175

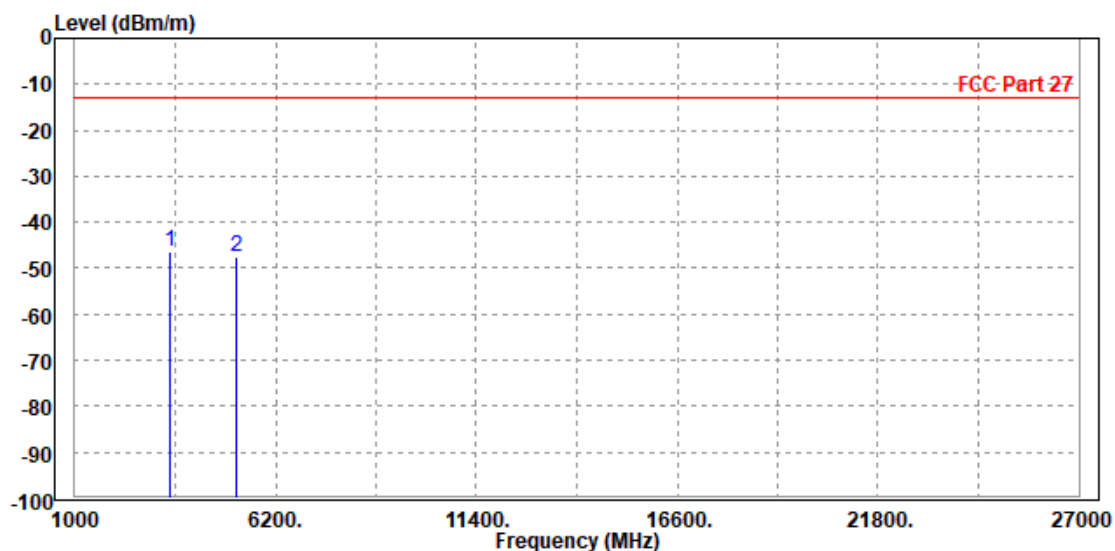
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3470.000	-48.78	-57.36	-13.00	-35.78	8.58	Peak	Horizontal
2	5197.500	-49.11	-58.23	-13.00	-36.11	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

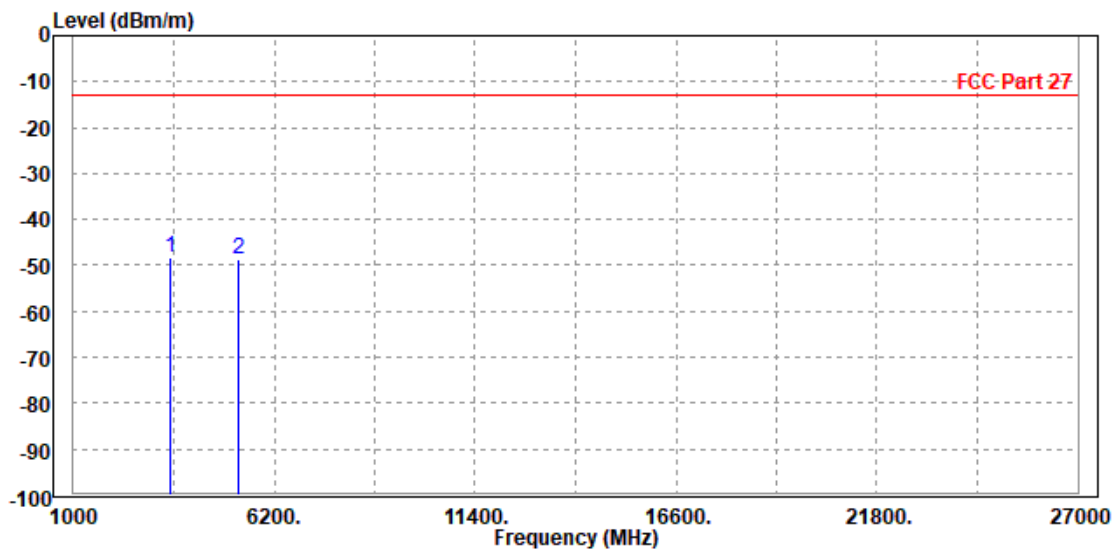
		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3470.000	-46.53	-55.69	-13.00	-33.53	9.16	Peak	Vertical
2		5197.500	-47.63	-57.45	-13.00	-34.63	9.82	Peak	Vertical



CH 20393

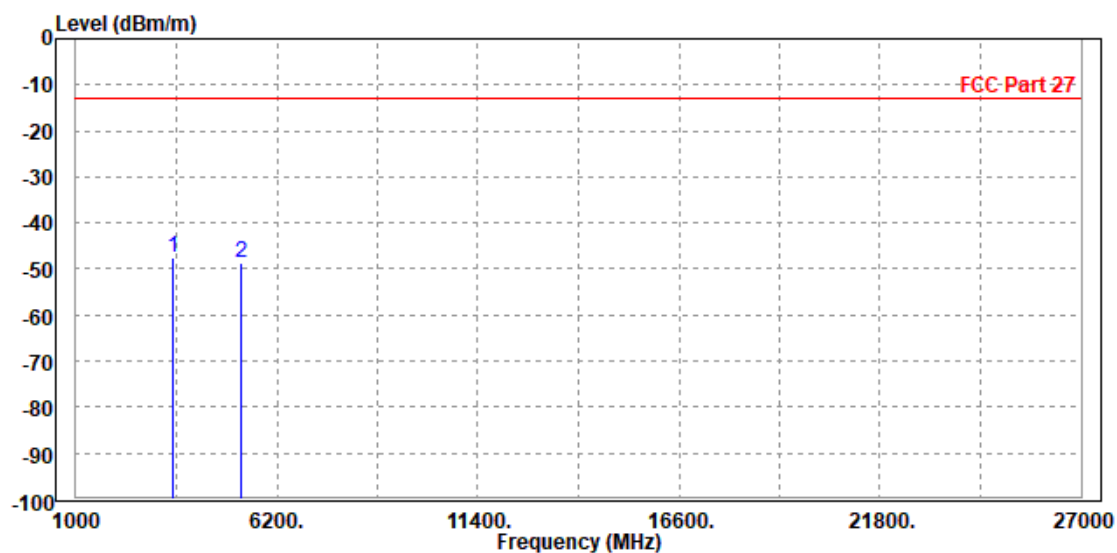
MODE	TX channel 20393	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3496.000	-48.14	-56.71	-13.00	-35.14	8.57	Peak	Horizontal
2	5262.900	-48.58	-57.89	-13.00	-35.58	9.31	Peak	Horizontal



MODE	TX channel 20393	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

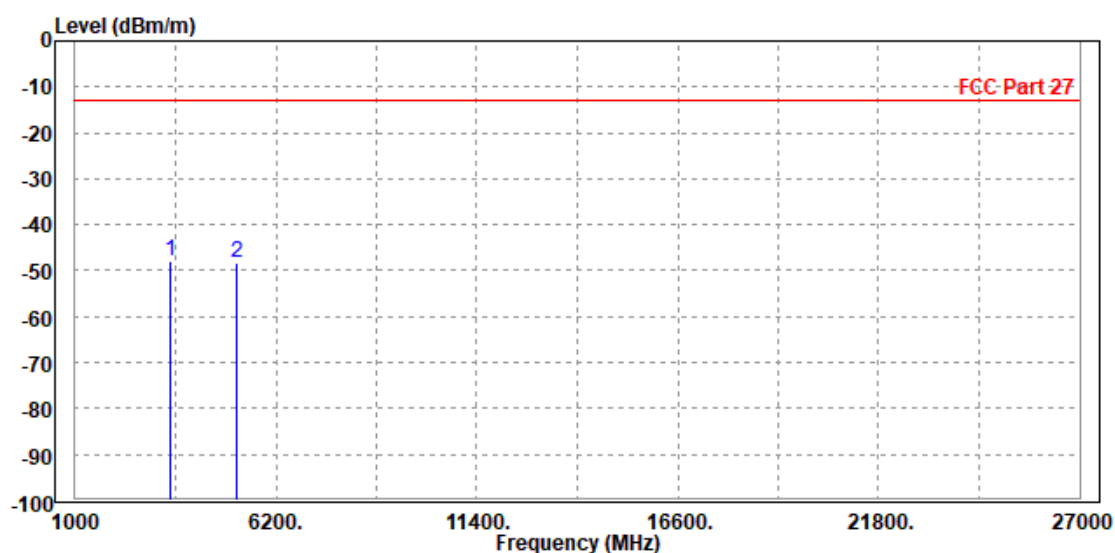
		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3496.000	-47.64	-56.83	-13.00	-34.64	9.19	Peak	Vertical
2		5262.900	-48.58	-58.38	-13.00	-35.58	9.80	Peak	Vertical



CHANNEL BANDWIDTH: 3MHz / QPSK

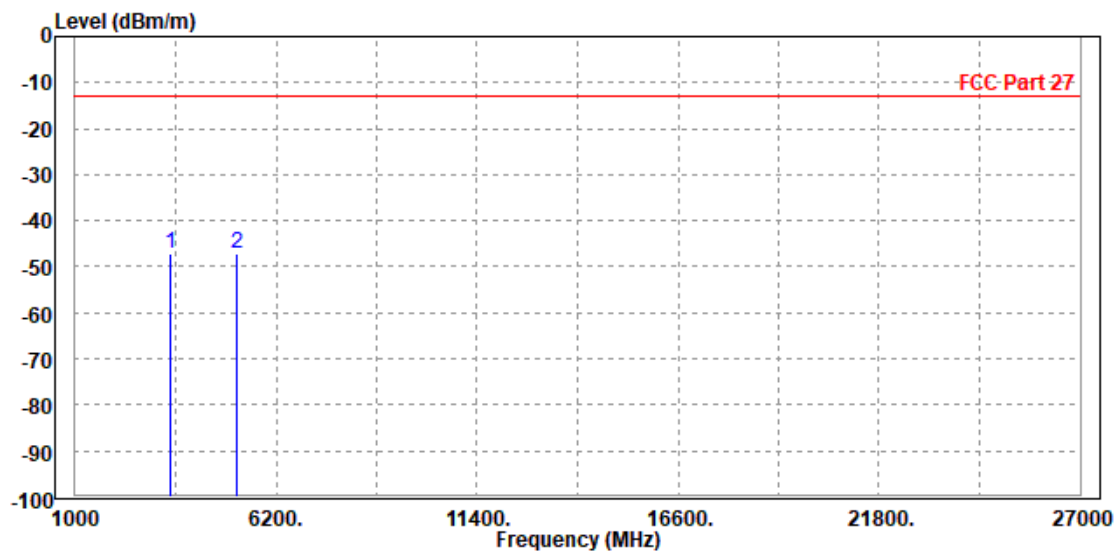
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3470.000	-47.82	-56.40	-13.00	-34.82	8.58	Peak	Horizontal
2	5197.500	-48.33	-57.45	-13.00	-35.33	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

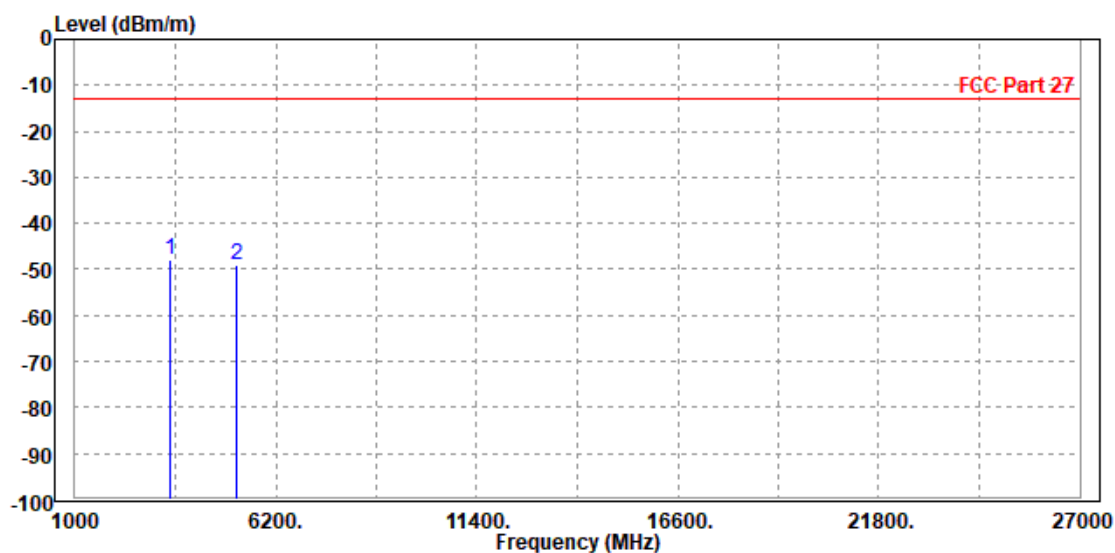
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-47.22	-56.38	-13.00	-34.22	9.16	Peak	Vertical
2 PP	5197.500	-47.15	-56.97	-13.00	-34.15	9.82	Peak	Vertical



CHANNEL BANDWIDTH: 5MHz / QPSK

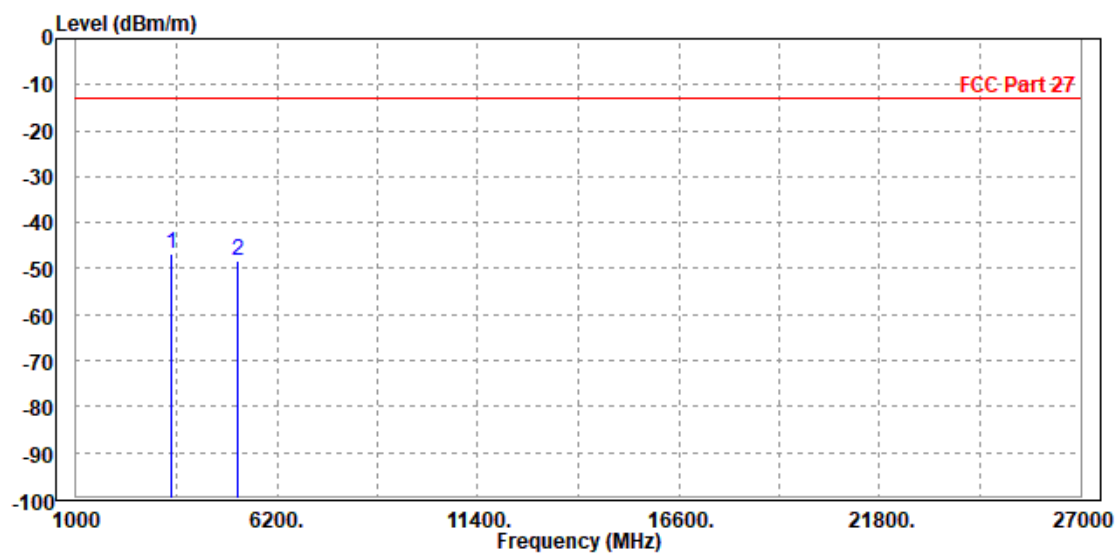
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit	Over			
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	Remark	Pol/Phase
1 PP	3470.000	-47.98	-56.56	-13.00	-34.98	8.58	Peak	Horizontal
2	5197.500	-49.00	-58.12	-13.00	-36.00	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

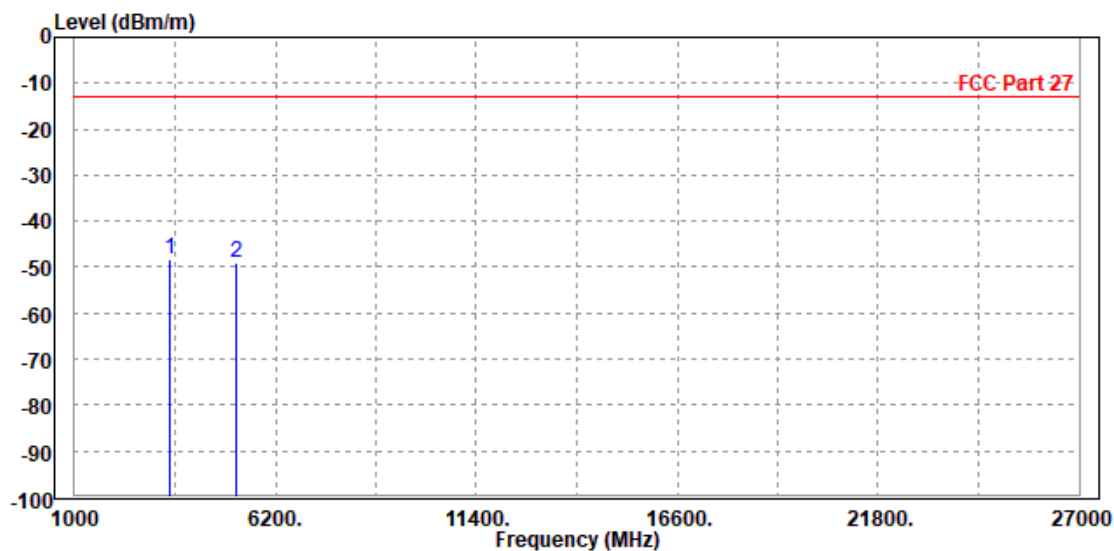
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3470.000	-46.79	-55.95	-13.00	-33.79	9.16	Peak	Vertical
2	5197.500	-48.17	-57.99	-13.00	-35.17	9.82	Peak	Vertical



CHANNEL BANDWIDTH: 10MHz / QPSK

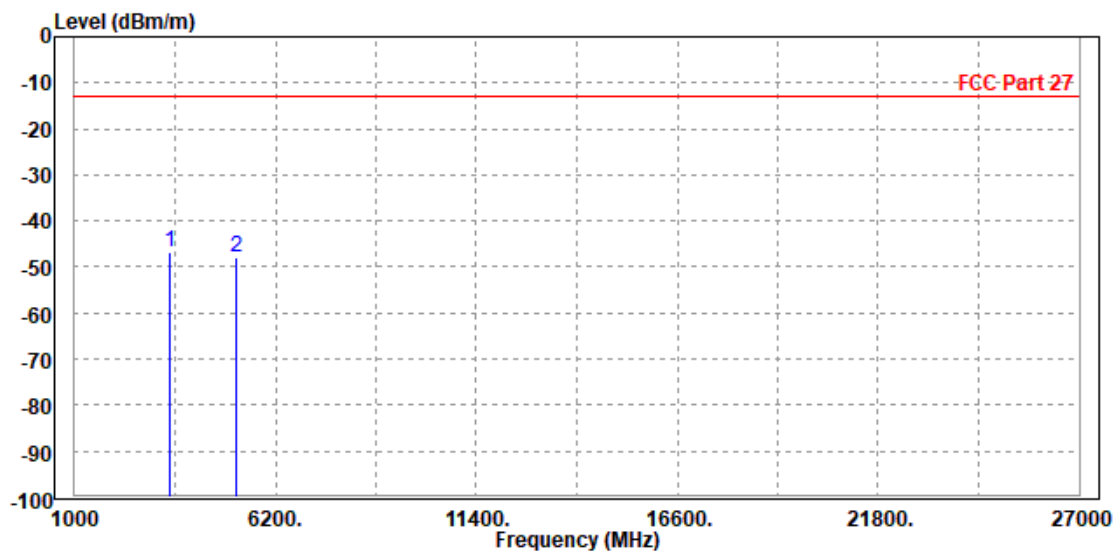
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3470.000	-48.26	-56.84	-13.00	-35.26	8.58	Peak	Horizontal
2	5197.500	-48.86	-57.98	-13.00	-35.86	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

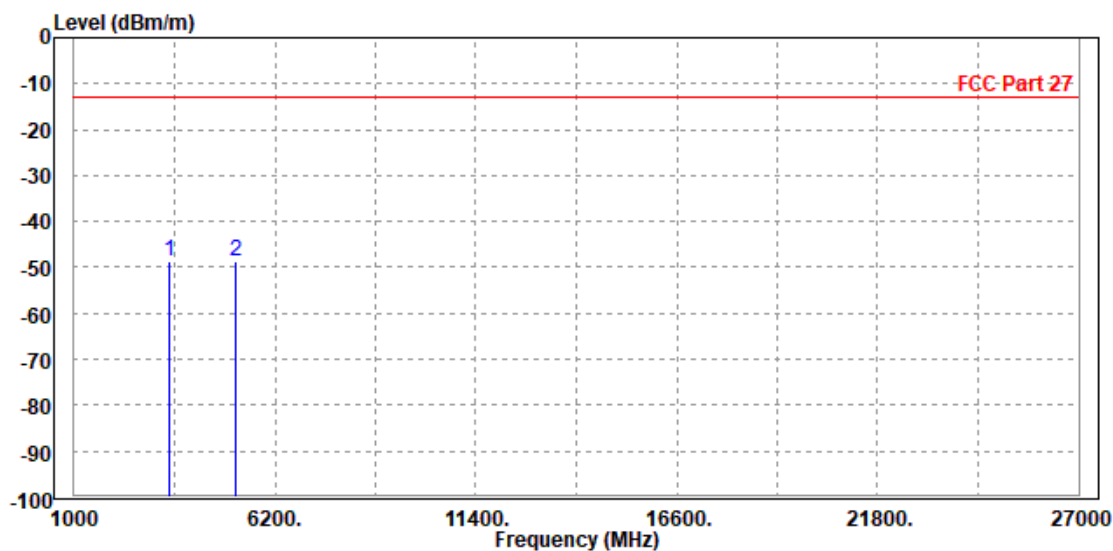
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3470.000	-46.95	-56.11	-13.00	-33.95	9.16	Peak	Vertical
2	5197.500	-48.07	-57.89	-13.00	-35.07	9.82	Peak	Vertical



CHANNEL BANDWIDTH: 15MHz / QPSK

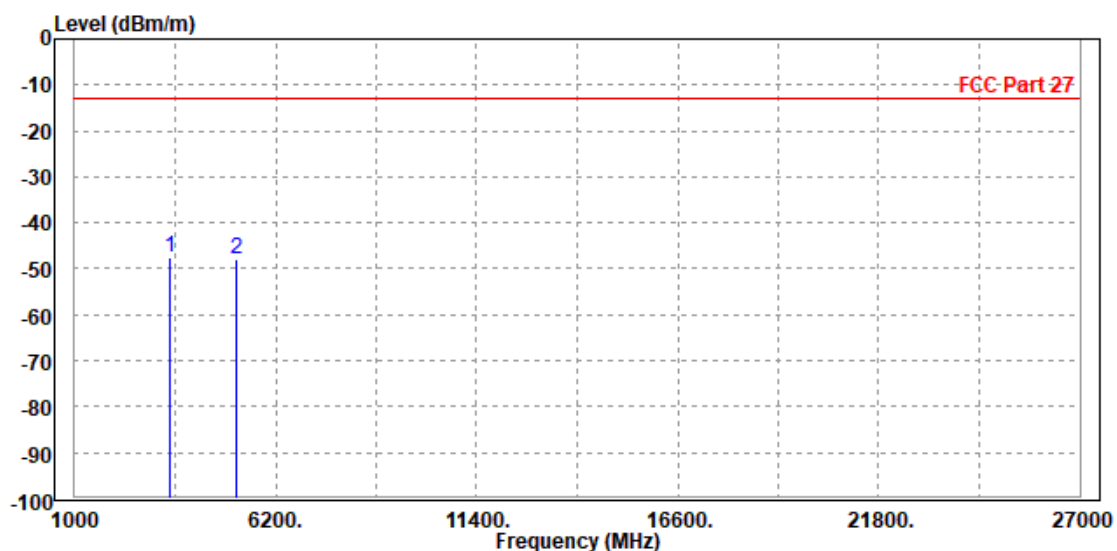
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-48.75	-57.33	-13.00	-35.75	8.58	Peak	Horizontal
2 PP	5197.500	-48.72	-57.84	-13.00	-35.72	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

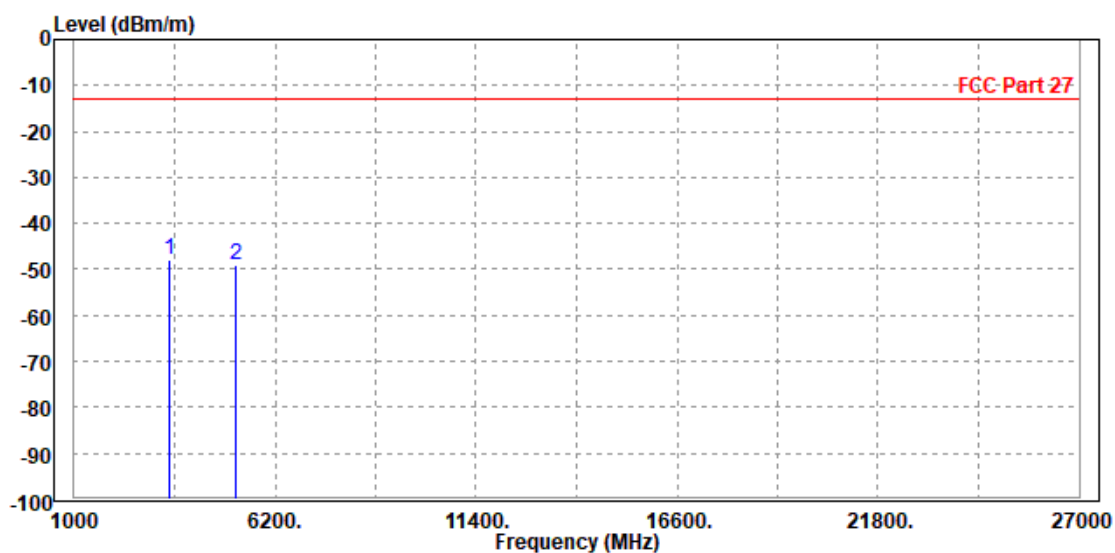
		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3470.000	-47.60	-56.76	-13.00	-34.60	9.16	Peak	Vertical
2		5197.500	-48.03	-57.85	-13.00	-35.03	9.82	Peak	Vertical



CHANNEL BANDWIDTH: 20MHz / QPSK

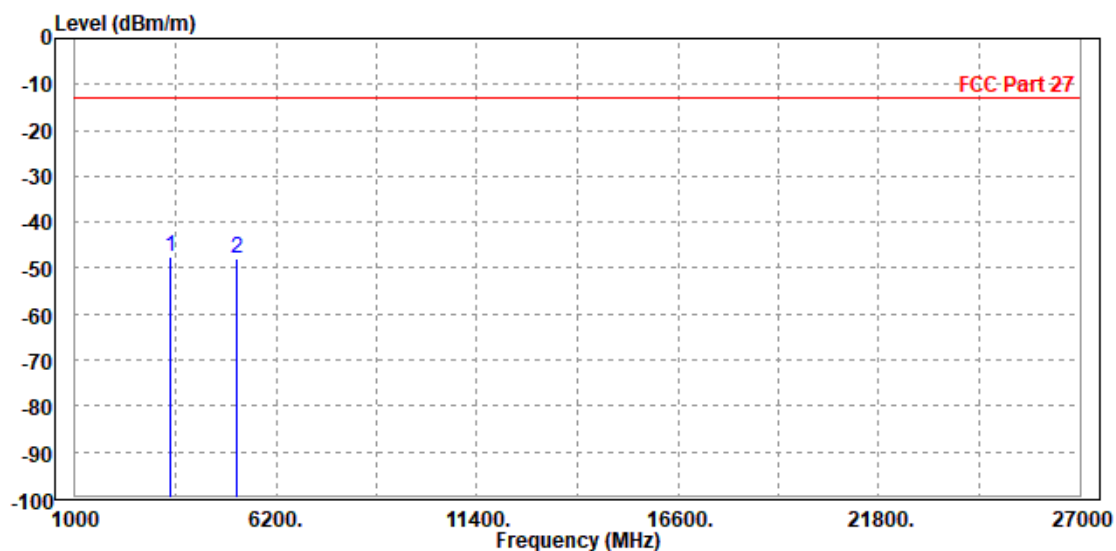
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3470.000	-47.86	-56.44	-13.00	-34.86	8.58	Peak	Horizontal
2		5197.500	-48.87	-57.99	-13.00	-35.87	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
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	3470.000	-47.36	-56.52	-13.00	-34.36	9.16	Peak	Vertical
2	5197.500	-48.04	-57.86	-13.00	-35.04	9.82	Peak	Vertical



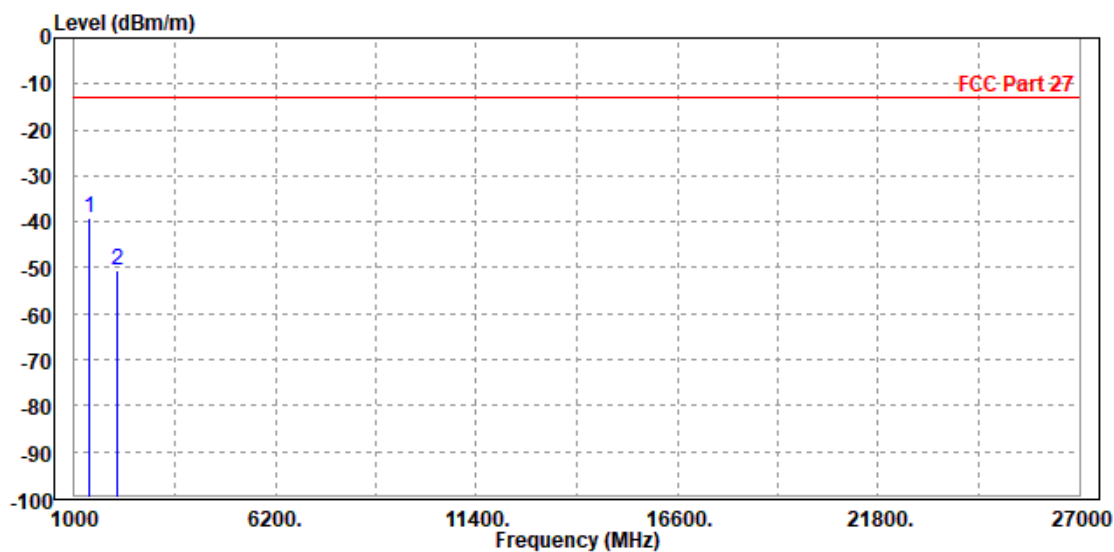
LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH 23017

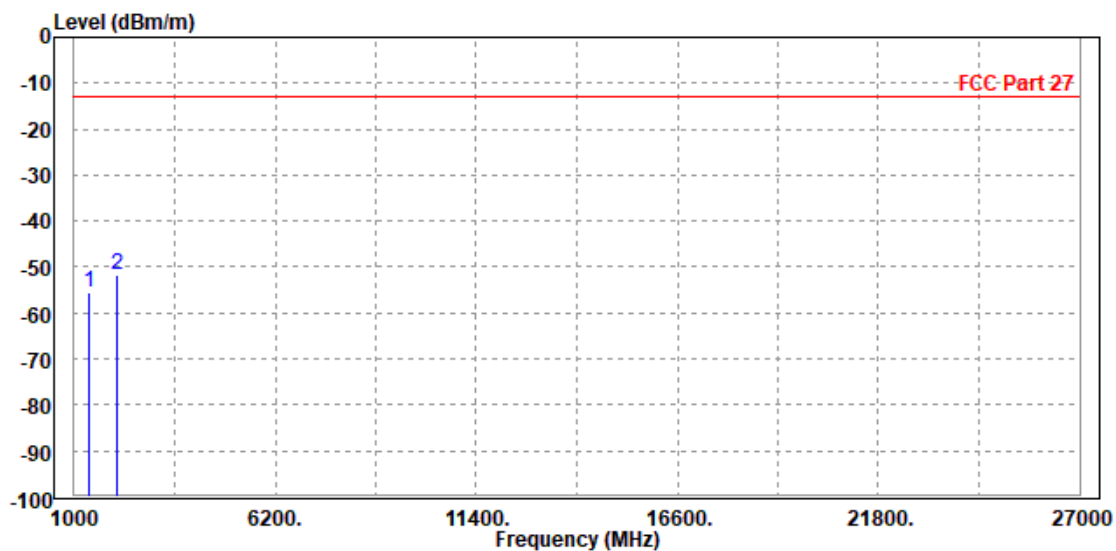
MODE	TX channel 23017	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1390.000	-39.24	-40.21	-13.00	-26.24	0.97	Peak	Horizontal
2	2099.100	-50.69	-58.34	-13.00	-37.69	7.65	Peak	Horizontal



MODE	TX channel 23017	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

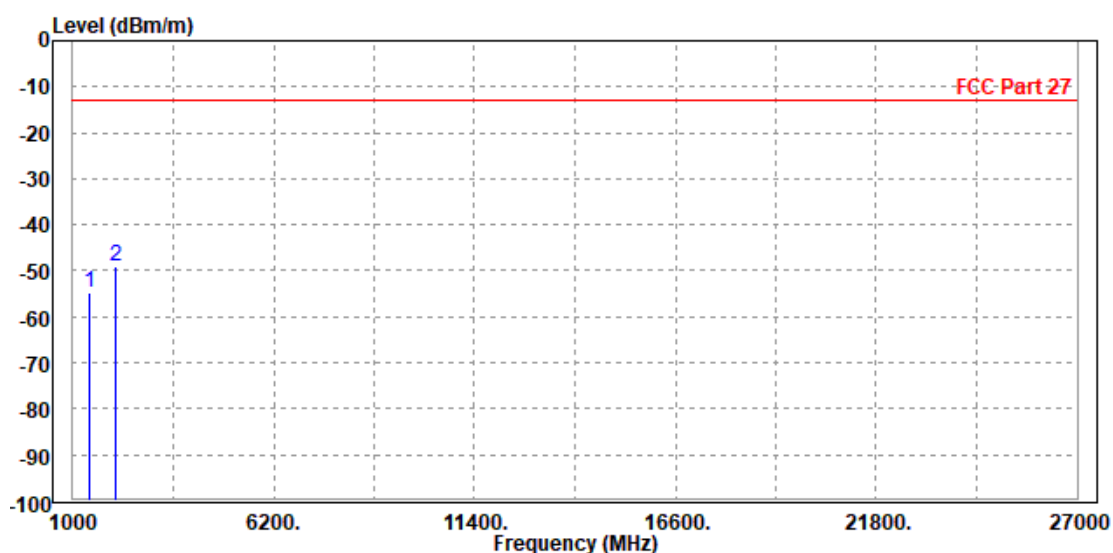
	Freq	Level	Read Level	Limit	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1390.000	-55.49	-57.07	-13.00	-42.49	1.58	Peak	Vertical
2 PP	2099.100	-51.59	-58.25	-13.00	-38.59	6.66	Peak	Vertical



CH 23095

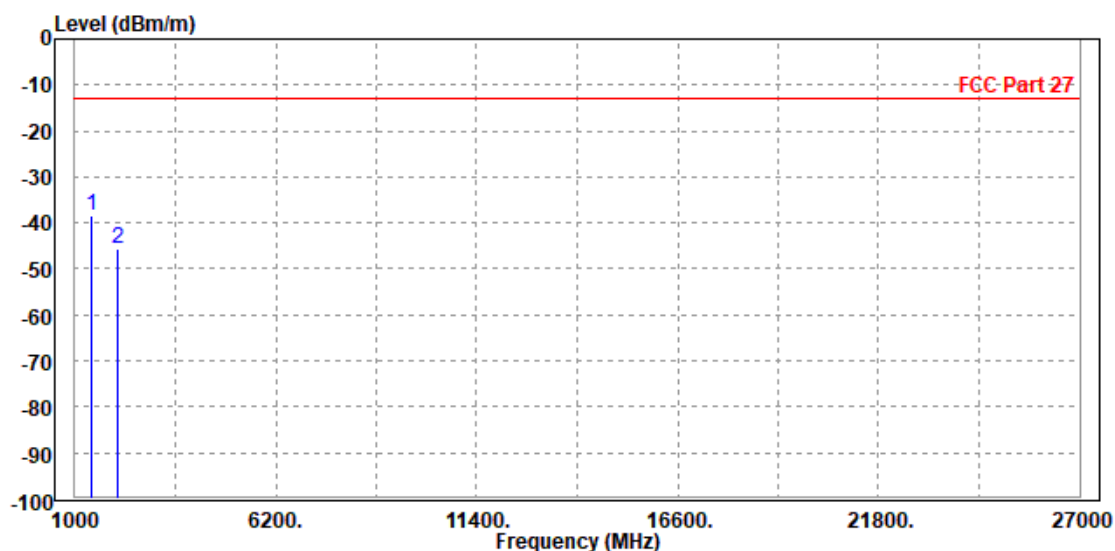
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1416.000	-54.61	-55.69	-13.00	-41.61	1.08	Peak	Horizontal
2 PP	2122.500	-48.94	-56.61	-13.00	-35.94	7.67	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

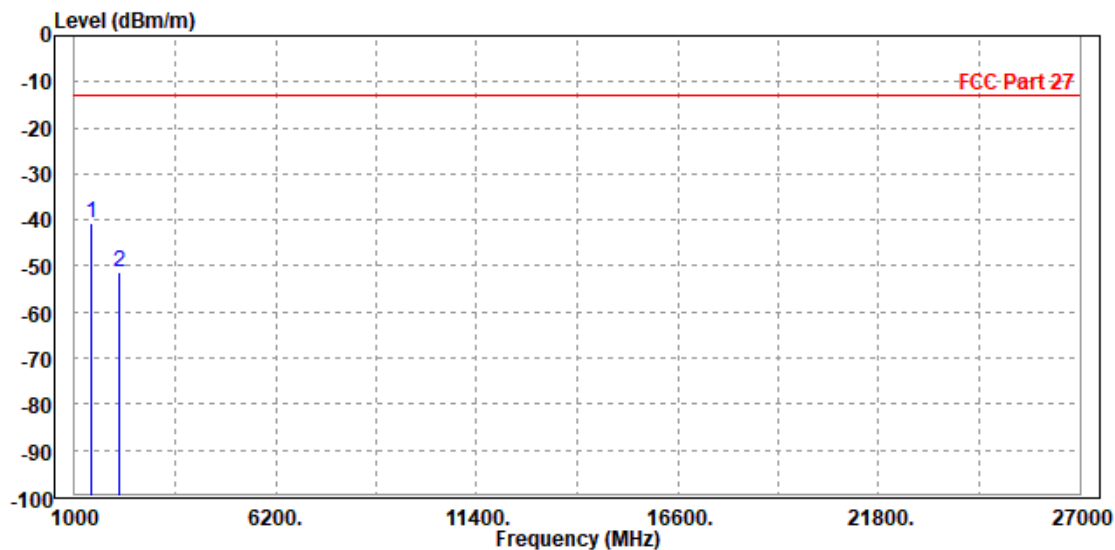
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1416.000	-38.44	-40.13	-13.00	-25.44	1.69	Peak	Vertical
2	2122.500	-45.48	-52.17	-13.00	-32.48	6.69	Peak	Vertical



CH 23173

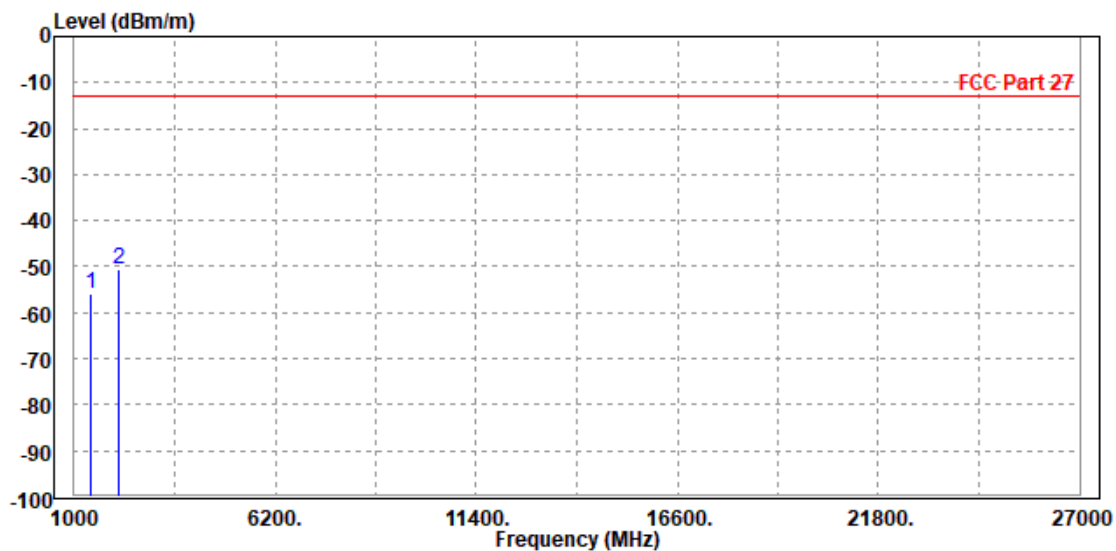
MODE	TX channel 23173	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1442.000	-40.77	-41.96	-13.00	-27.77	1.19	Peak	Horizontal
2	2145.900	-51.40	-59.09	-13.00	-38.40	7.69	Peak	Horizontal



MODE	TX channel 23173	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

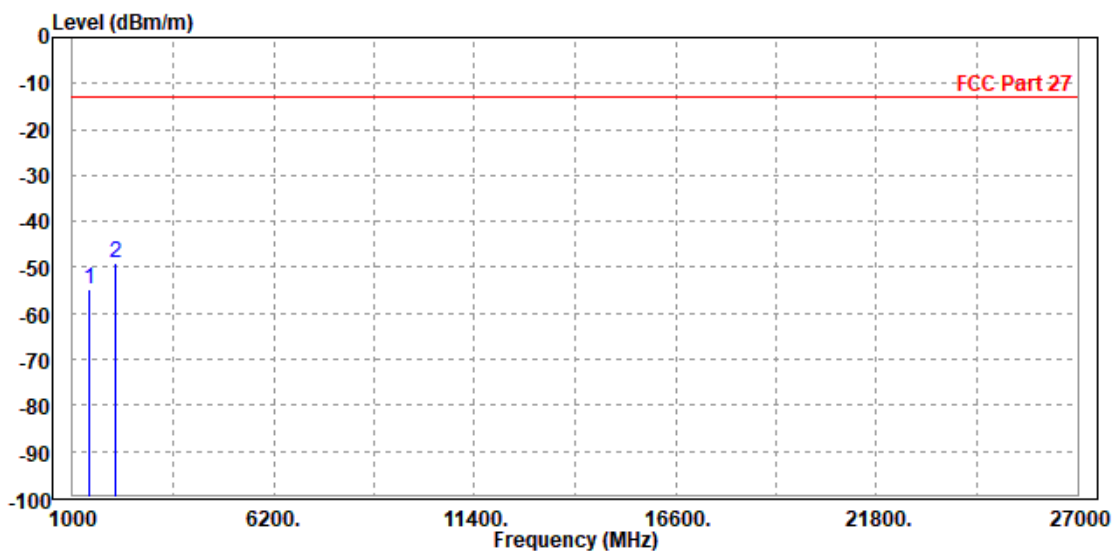
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1442.000	-55.76	-57.56	-13.00	-42.76	1.80	Peak	Vertical
2 PP	2145.900	-50.43	-57.14	-13.00	-37.43	6.71	Peak	Vertical



CHANNEL BANDWIDTH: 3MHz / QPSK

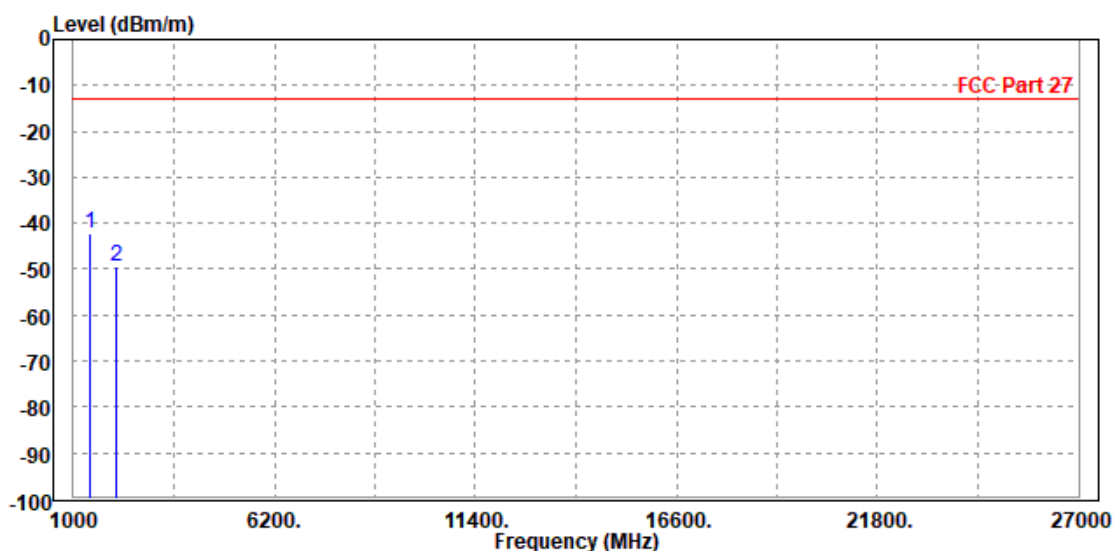
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1416.000	-54.82	-55.90	-13.00	-41.82	1.08	Peak	Horizontal
2 PP	2122.500	-49.01	-56.68	-13.00	-36.01	7.67	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

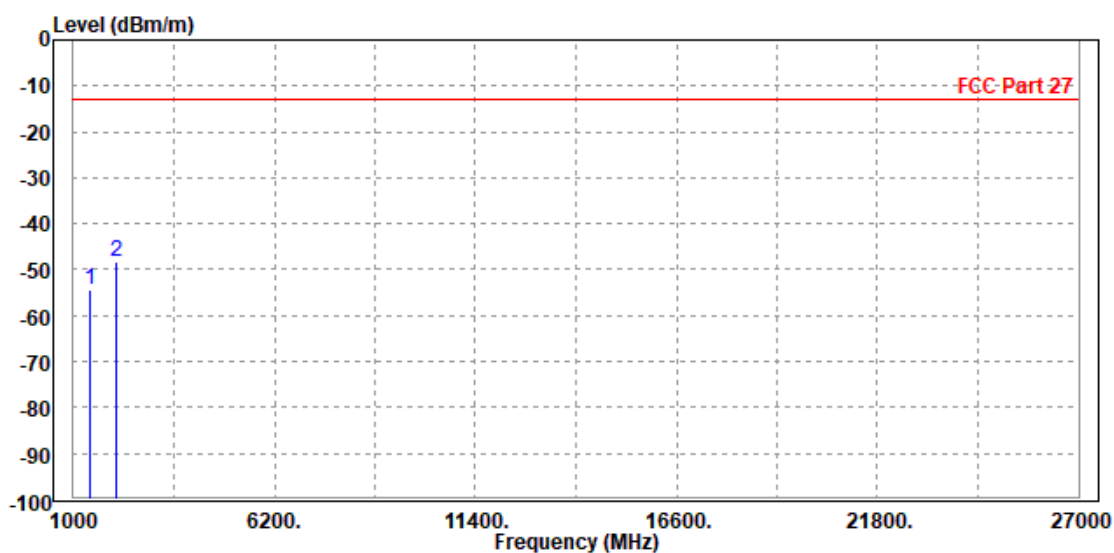
		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1416.000	-42.26	-43.95	-13.00	-29.26	1.69	Peak	Vertical
2		2122.500	-49.33	-56.02	-13.00	-36.33	6.69	Peak	Vertical



CHANNEL BANDWIDTH: 5MHz / QPSK

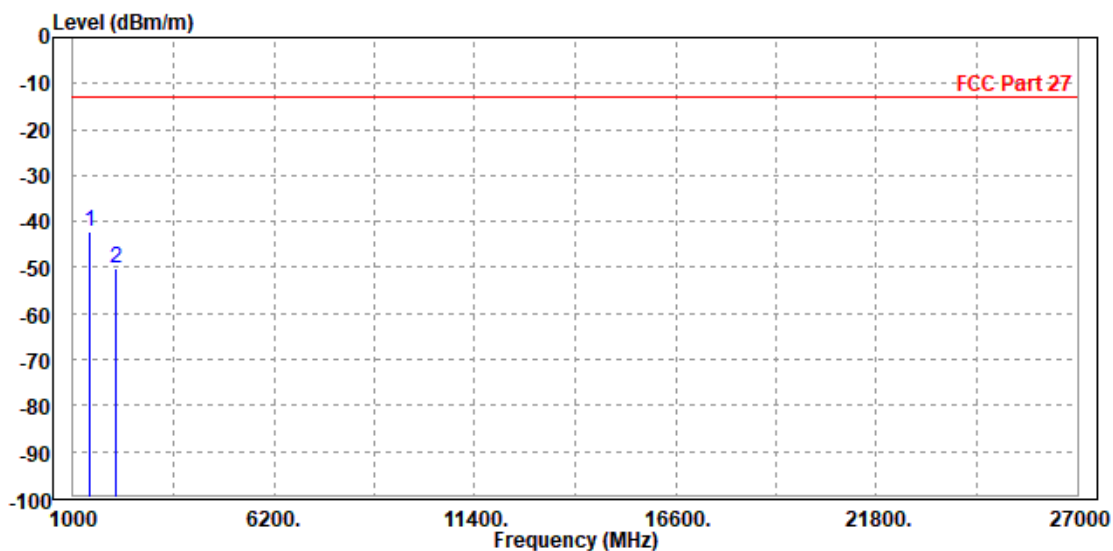
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1416.000	-54.35	-55.43	-13.00	-41.35	1.08	Peak	Horizontal
2 PP	2122.500	-48.25	-55.92	-13.00	-35.25	7.67	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

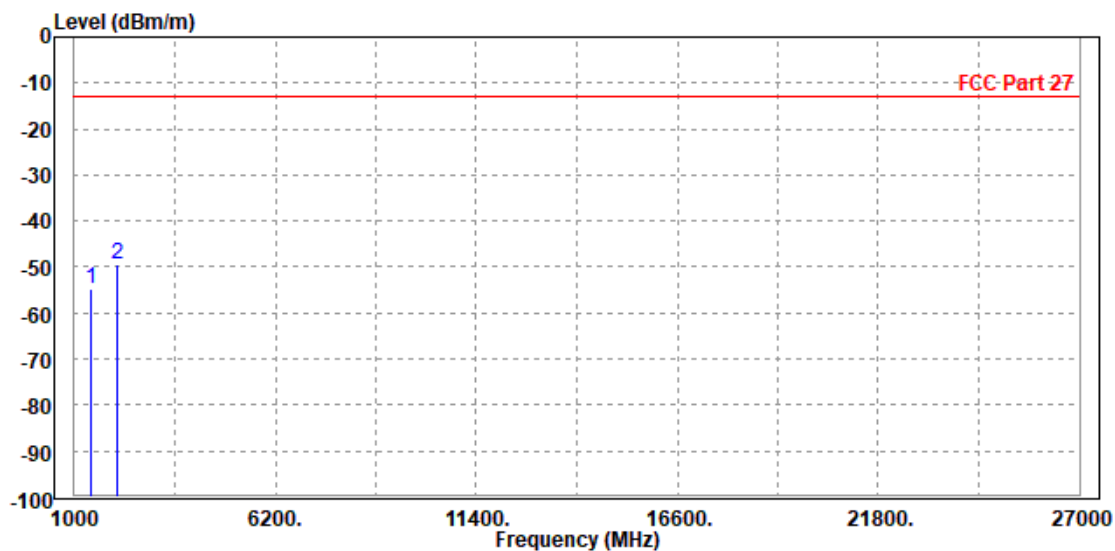
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1416.000	-42.26	-43.95	-13.00	-29.26	1.69	Peak	Vertical
2	2122.500	-50.26	-56.95	-13.00	-37.26	6.69	Peak	Vertical



CHANNEL BANDWIDTH: 10MHz / QPSK

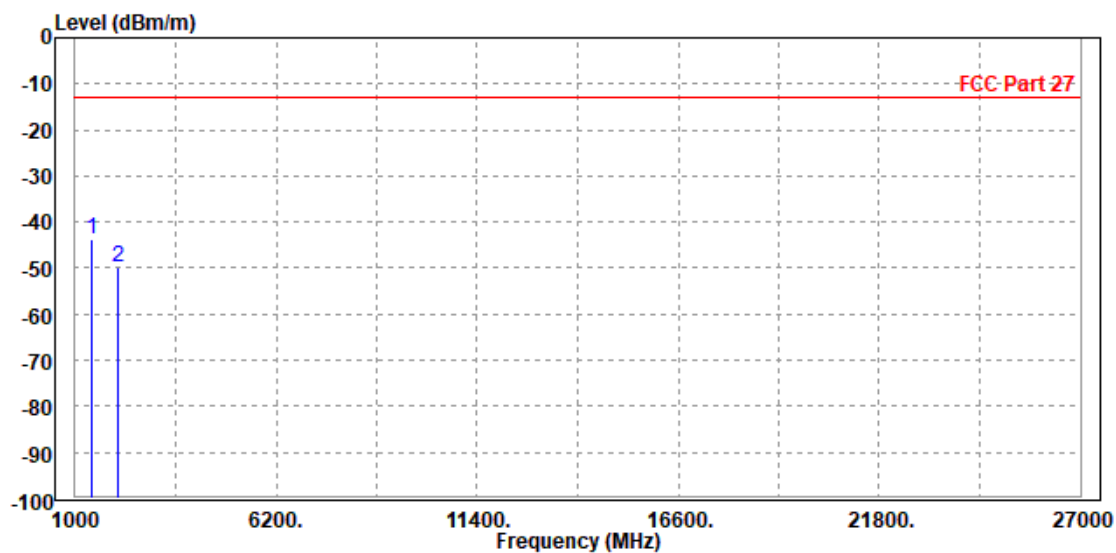
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1416.000	-54.75	-55.83	-13.00	-41.75	1.08	Peak	Horizontal
2 PP	2122.500	-49.42	-57.09	-13.00	-36.42	7.67	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
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	1416.000	-43.58	-45.27	-13.00	-30.58	1.69	Peak	Vertical
2		2122.500	-49.91	-56.60	-13.00	-36.91	6.69	Peak	Vertical



SK800

ABOVE 1GHz

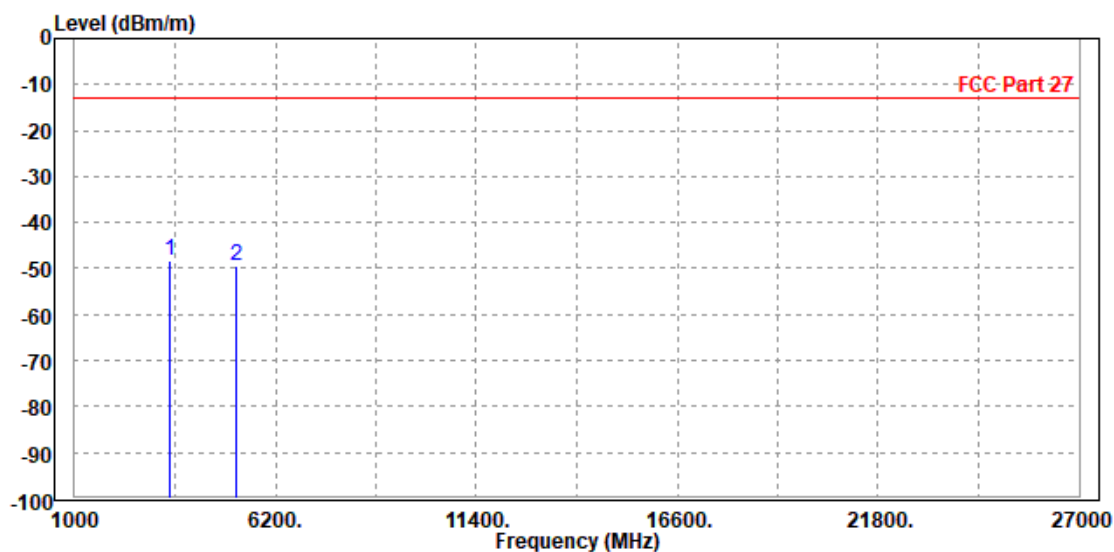
Note: For higher frequency, the emission is too low to be detected.

LTE BAND 4

CHANNEL BANDWIDTH: 15MHz / QPSK

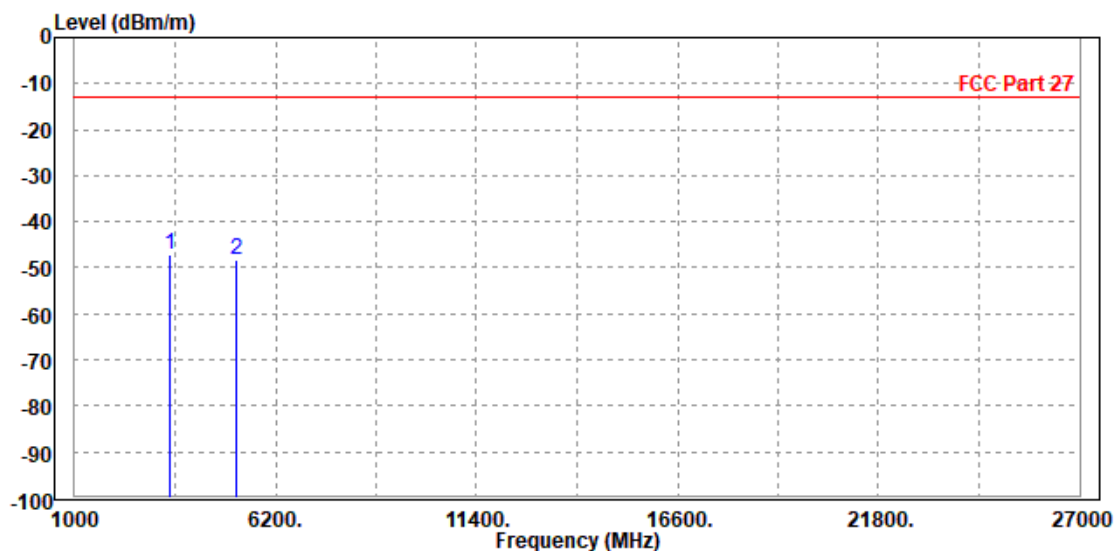
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3470.000	-48.38	-56.96	-13.00	-35.38	8.58	Peak	Horizontal
2		5197.500	-49.47	-58.59	-13.00	-36.47	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
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	3470.000	-47.24	-56.40	-13.00	-34.24	9.16	Peak	Vertical
2	5197.500	-48.34	-58.16	-13.00	-35.34	9.82	Peak	Vertical

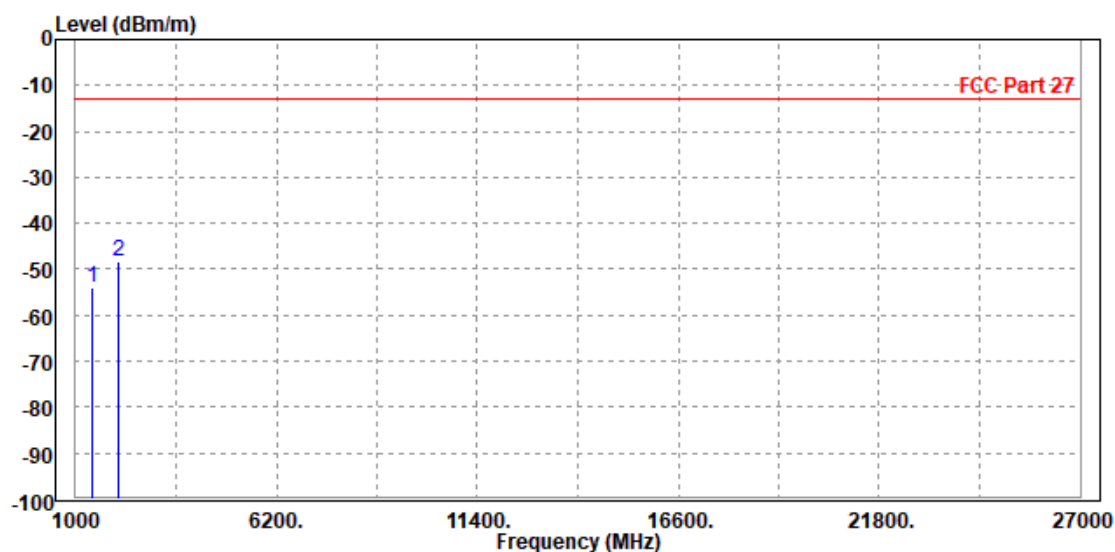


LTE BAND 12

CHANNEL BANDWIDTH: 5MHz / QPSK

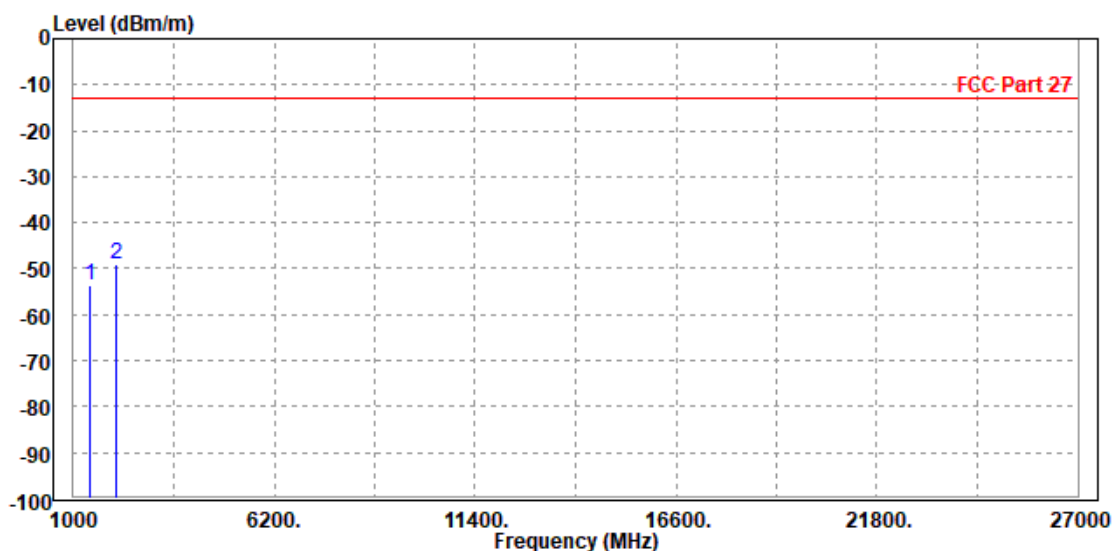
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1416.000	-53.88	-54.96	-13.00	-40.88	1.08	Peak	Horizontal
2 PP	2122.500	-48.15	-55.82	-13.00	-35.15	7.67	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V
TESTED BY	Jacky Liu		
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	1416.000	-53.77	-55.46	-13.00	-40.77	1.69	Peak	Vertical
2 PP	2122.500	-49.15	-55.84	-13.00	-36.15	6.69	Peak	Vertical





Test Report No.: RF191120W002-6

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.

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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.: RF191120W002-6

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

No modifications were made to the EUT by the lab during the test.

---END---