

FCC TEST REPORT

(PART 27)

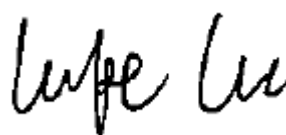
Applicant:	Otis High Rise Elevator (Shanghai) Co., Ltd.
Address:	Room 101, Building 3, No. 1599, Xinqin Road, China (Shanghai) Pilot Free Trade Zone.

Manufacturer or Supplier:	Otis High Rise Elevator (Shanghai) Co., Ltd.
Address:	Room 101, Building 3, No. 1599, Xinqin Road, China (Shanghai) Pilot Free Trade Zone.
Product:	4G IoT Wireless Gateway
Brand Name:	Otis ONE®
Model Name:	C9200-4L
FCC ID:	2AUTDC9200-4L
Date of tests:	Oct. 23, 2019 ~ Nov. 06, 2019

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: Nov. 08, 2019	Date: Nov. 08, 2019

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Test Report No.: RF191023W005-4

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF191023W005-4	Original release	Nov. 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
2.1046 27.50(d)(4)	Maximum Peak Output Power	Compliance
2.1055 27.54	Frequency Stability	See Note
2.1049 27.53(h)	Occupied Bandwidth	See Note
27.50(d)(5)	Peak to average ratio	See Note
27.53(h)	Band Edge Measurements	See Note
2.1051 27.53(h)	Conducted Spurious Emissions	See Note
2.1053 27.53(h)	Radiated Spurious Emissions	Compliance

Note: These items please refer to the LTE module report RTWK160705001-00& RKS160908001-00A which The FCC ID is XMR201605EC25A, and the LTE module has been original certified by BACL on 08/17/2016. The LTE module added WCDMA band IV by software and has been CIIPC certified by BACL on 03/15/2017, and the LTE module has been CIIPC certified by Telefication B.V. on 06/13/2018. The host contains the LTE module.

1.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	UNCERTAINTY
Frequency Stability	$\pm 76.97\text{Hz}$
Radiated emissions & Radiated Power (30MHz~1GMHz)	$\pm 4.98\text{dB}$
Radiated emissions & Radiated Power (1GMHz ~6GMHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GMHz ~18GMHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GMHz ~40GMHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Conducted Output power	$\pm 2.06\text{dB}$
Band Edge Measurements	$\pm 4.70\text{dB}$
Peak to average ratio	$\pm 0.76\text{dB}$

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

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 26,19	Feb. 25,20
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 26,19	Feb. 25,20
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 26,19	Feb. 25,20
Horn Antenna (1GHz-18GHz)	ETS-LINDGREN	3117	00168692	Nov. 30, 18	Nov. 29, 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	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. 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	Jun. 24,19	Jun. 23,20
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	Jun. 24,19	Jun. 23,20
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 26,19	Feb. 25,20
Power Divider	MCLI/USA	PS2-15	24880	Jul. 09,19	Jul. 08,20

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	4G IoT Wireless Gateway	
BRAND NAME	Otis ONE[®]	
MODEL NAME	C9200-4L	
NOMINAL VOLTAGE	DC 12V	
MODULATION TECHNOLOGY	WCDMA	BPSK, QPSK
	LTE	QPSK, 16QAM
FREQUENCY RANGE	WCDMA IV	1712.4MHz ~ 1752.6MHz
	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	WCDMA IV	4M15F9W
	LTE Band 4 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D 16QAM: 1M11W7D
	LTE Band 4 Channel Bandwidth: 3MHz	QPSK: 2M75G7D 16QAM: 2M76W7D
	LTE Band 4 Channel Bandwidth: 5MHz	QPSK: 4M52G7D 16QAM: 4M52W7D
	LTE Band 4 Channel Bandwidth: 10MHz	QPSK: 9M08G7D 16QAM: 9M08W7D
	LTE Band 4 Channel Bandwidth: 15MHz	QPSK: 13M5G7D 16QAM: 13M5W7D

EMISSION DESIGNATOR	LTE Band 4 Channel Bandwidth: 20MHz	QPSK: 18M5G7D 16QAM: 18M5W7D
	LTE Band 12 Channel Bandwidth: 1.4MHz	QPSK: 1M11G7D 16QAM: 1M10W7D
	LTE Band 12 Channel Bandwidth: 3MHz	QPSK: 2M75G7D 16QAM: 2M76W7D
	LTE Band 12 Channel Bandwidth: 5MHz	QPSK: 4M54G7D 16QAM: 4M54W7D
	LTE Band 12 Channel Bandwidth: 10MHz	QPSK: 9M12G7D 16QAM: 9M12W7D
MAX. ERP/EIRP POWER	WCDMA IV	270mW
	LTE Band 4 Channel Bandwidth: 1.4MHz	335mW
	LTE Band 4 Channel Bandwidth: 3MHz	336mW
	LTE Band 4 Channel Bandwidth: 5MHz	338mW
	LTE Band 4 Channel Bandwidth: 10MHz	341mW
	LTE Band 4 Channel Bandwidth: 15MHz	346mW
	LTE Band 4 Channel Bandwidth: 20MHz	348mW
	LTE Band 12 Channel Bandwidth: 1.4MHz	259mW
	LTE Band 12 Channel Bandwidth: 3MHz	261mW
	LTE Band 12 Channel Bandwidth: 5MHz	265mW
	LTE Band 12 Channel Bandwidth: 10MHz	267mW
ANTENNA TYPE	Fixed External Antenna	
ANTENNA GAIN	WCDMA IV : Ant0:3dBi/Ant1:3dBi LTE Band 4 : Ant0:3dBi/Ant1:3dBi LTE Band 12: Ant0:3dBi/Ant1:3dBi	
HW VERSION	V1.0.3	
SW VERSION	V1.0.0	
ACCESSORY DEVICE	Refer to note as below	
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.

3. The EUT was powered by the following adapter:

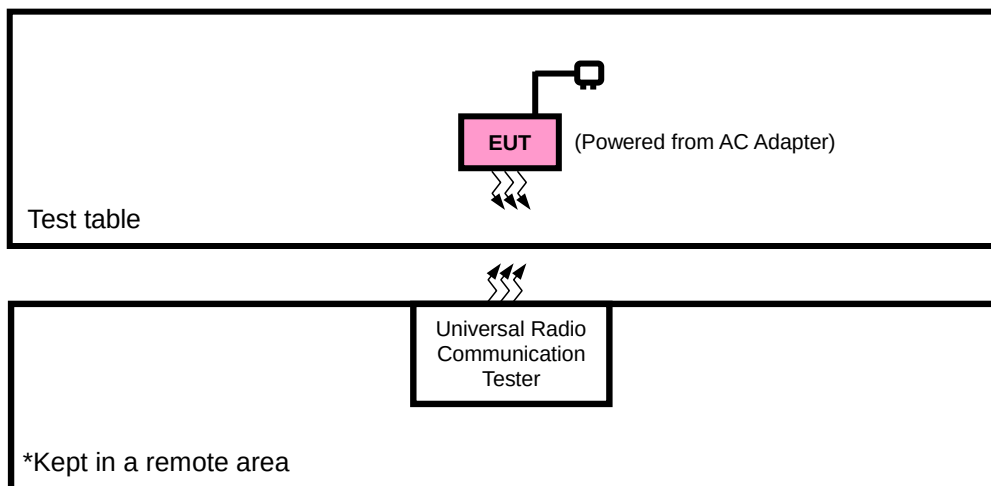
ADAPTER	
BRAND:	ShenZhen Mass Power Electronic Limited
MODEL:	NBS18C120150D5
INPUT:	AC 100-240V, 600mA
OUTPUT:	DC 12V, 1500mA
POWER CORD:	1.2 meter
MANUFACTURER:	Dongguan NB Power Electronic Limited

4. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
LTE	1TX/1RX

2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Adapter	JINGSAI	CLS-050200	N/A	N/A
2	DC source	LONG WEI	PS-6403D	010934269	N/A

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

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 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 + Adapter with LTE link
B	EUT with LTE link

WCDMA IV

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
EIRP	1312 to 1513	1312, 1413, 1513	WCDMA
RADIATED EMISSION	1312 to 1513	1312, 1413, 1513	WCDMA

LTE BAND 4

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
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
RADIATED EMISSION	19957 to 20393	20175	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	20000, 20175, 20350	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.



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LTE BAND 12

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
B	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	RADIATED EMISSION	23017 to 23173	23095	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	23060, 23095 ,23130	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 CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP	23deg. C, 70%RH	12Vdc from adapter	Star Le
RADIATED EMISSION	23deg. C, 70%RH	12Vdc from adapter	Star Le



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2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC 47 CFR Part 2

FCC 47 CFR Part 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.

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

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

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas} , typically dBW or dBm);

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

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

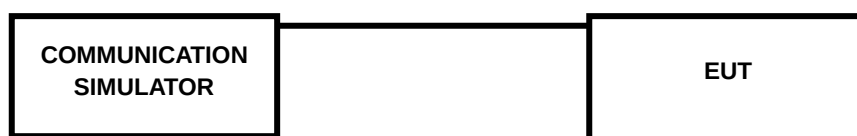
L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

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

3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

Base on verify the Conducted Power is the same with module test report RTWK160705001-00 (FCC ID: XMR201605EC25A) by lab, the test results please refer the module Report No.: RTWK160705001-00 (FCC ID: XMR201605EC25A), and the pre-scan data as below.

Band	WCDMA IV		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2K	22.51	22.72	22.62
HSPA			
HSDPA Subtest-1	21.55	21.74	21.60
HSDPA Subtest-2	21.53	21.72	21.57
HSDPA Subtest-3	21.03	21.22	21.11
HSDPA Subtest-4	21.02	21.21	21.08
DC-HSDPA Subtest-1	21.53	21.72	21.55
DC-HSDPA Subtest-2	21.51	21.70	21.53
DC-HSDPA Subtest-3	21.00	21.19	21.08
DC-HSDPA Subtest-4	20.98	21.17	21.06
HSUPA Subtest-1	21.56	21.75	21.62
HSUPA Subtest-2	19.49	19.68	19.59
HSUPA Subtest-3	20.52	20.71	20.65
HSUPA Subtest-4	19.47	19.66	19.57
HSUPA Subtest-5	21.60	21.79	21.60
HSPA+ Subtest-1	19.33	19.52	19.38

LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 19957	Mid CH 20175	High CH 20393	3GPP MPR (dB)
				Frequency 1710.7 MHz	Frequency 1732.5 MHz	Frequency 1754.3 MHz	
4/1.4	QPSK	1	0	22.17	22.25	22.21	0
		1	2	22.13	22.21	22.17	0
		1	5	22.04	22.12	22.08	0
		3	0	22.15	22.23	22.19	0
		3	1	22.11	22.19	22.15	0
		3	3	22.02	22.10	22.06	0
		6	0	21.13	21.21	21.17	1
	16QAM	1	0	21.30	21.38	21.34	1
		1	2	21.11	21.19	21.15	1
		1	5	21.04	21.12	21.08	1
		3	0	21.29	21.37	21.33	1
		3	1	21.10	21.18	21.14	1
		3	3	21.03	21.11	21.07	1
		6	0	20.24	20.32	20.28	2
BW	Modulation	RB Size	RB Offset	Low CH 19965	Mid CH 20175	High CH 20385	3GPP MPR (dB)
				Frequency 1711.5 MHz	Frequency 1732.5 MHz	Frequency 1753.5 MHz	
4/3	QPSK	1	0	22.18	22.26	22.22	0
		1	7	22.14	22.22	22.18	0
		1	14	22.05	22.13	22.09	0
		8	0	21.18	21.26	21.22	1
		8	3	21.24	21.32	21.28	1
		8	7	21.27	21.35	21.31	1
		15	0	21.14	21.22	21.18	1
	16QAM	1	0	21.31	21.39	21.35	1
		1	7	21.12	21.20	21.16	1
		1	14	21.05	21.13	21.09	1
		8	0	20.12	20.20	20.16	2
		8	3	20.27	20.35	20.31	2
		8	7	20.20	20.28	20.24	2
		15	0	20.25	20.33	20.29	2

LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 19975	Mid CH 20175	High CH 20375	3GPP MPR (dB)
				Frequency 1712.5 MHz	Frequency 1732.5 MHz	Frequency 1752.5 MHz	
4/5	QPSK	1	0	22.21	22.29	22.25	0
		1	12	22.17	22.25	22.21	0
		1	24	22.08	22.16	22.12	0
		12	0	21.21	21.29	21.25	1
		12	6	21.27	21.35	21.31	1
		12	13	21.30	21.38	21.34	1
		25	0	21.17	21.25	21.21	1
	16QAM	1	0	21.34	21.42	21.38	1
		1	12	21.15	21.23	21.19	1
		1	24	21.08	21.16	21.12	1
		12	0	20.15	20.23	20.19	2
		12	6	20.30	20.38	20.34	2
		12	13	20.23	20.31	20.27	2
		25	0	20.28	20.36	20.32	2
BW	Modulation	RB Size	RB Offset	Low CH 20000	Mid CH 20175	High CH 20350	3GPP MPR (dB)
				Frequency 1715 MHz	Frequency 1732.5 MHz	Frequency 1750 MHz	
4/10	QPSK	1	0	22.25	22.33	22.29	0
		1	24	22.21	22.29	22.25	0
		1	49	22.12	22.20	22.16	0
		25	0	21.25	21.33	21.29	1
		25	12	21.31	21.39	21.35	1
		25	25	21.34	21.42	21.38	1
		50	0	21.21	21.29	21.25	1
	16QAM	1	0	21.38	21.46	21.42	1
		1	24	21.19	21.27	21.23	1
		1	49	21.12	21.20	21.16	1
		25	0	20.19	20.27	20.23	2
		25	12	20.34	20.42	20.38	2
		25	25	20.27	20.35	20.31	2
		50	0	20.32	20.40	20.36	2

LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 20025	Mid CH 20175	High CH 20325	3GPP MPR (dB)
				Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz	
4/15	QPSK	1	0	22.31	22.39	22.35	0
		1	37	22.27	22.35	22.31	0
		1	74	22.18	22.26	22.22	0
		36	0	21.31	21.39	21.35	1
		36	19	21.37	21.45	21.41	1
		36	39	21.40	21.48	21.44	1
		75	0	21.27	21.35	21.31	1
	16QAM	1	0	21.44	21.52	21.48	1
		1	37	21.25	21.33	21.29	1
		1	74	21.18	21.26	21.22	1
		36	0	20.25	20.33	20.29	2
		36	19	20.40	20.48	20.44	2
		36	39	20.33	20.41	20.37	2
		75	0	20.38	20.46	20.42	2
BW	Modulation	RB Size	RB Offset	Low CH 20050	Mid CH 20175	High CH 20300	3GPP MPR (dB)
				Frequency 1720 MHz	Frequency 1732.5 MHz	Frequency 1745 MHz	
4/20	QPSK	1	0	22.34	22.42	22.38	0
		1	50	22.30	22.38	22.34	0
		1	99	22.21	22.29	22.25	0
		50	0	21.34	21.42	21.38	1
		50	25	21.40	21.48	21.44	1
		50	50	21.43	21.51	21.47	1
		100	0	21.30	21.38	21.34	1
	16QAM	1	0	21.47	21.55	21.51	1
		1	50	21.28	21.36	21.32	1
		1	99	21.21	21.29	21.25	1
		50	0	20.28	20.36	20.32	2
		50	25	20.43	20.51	20.47	2
		50	50	20.36	20.44	20.40	2
		100	0	20.41	20.49	20.45	2

LTE Band 12							
BW	Modulation	RB Size	RB Offset	Low CH 23017	Mid CH 23095	High CH 23173	3GPP MPR (dB)
				Frequency 699.7 MHz	Frequency 707.5 MHz	Frequency 715.3 MHz	
12/1.4	QPSK	1	0	22.94	22.96	23.02	0
		1	2	23.20	23.22	23.28	0
		1	5	23.10	23.12	23.18	0
		3	0	22.92	22.94	23.00	0
		3	1	23.18	23.20	23.26	0
		3	3	23.08	23.10	23.16	0
		6	0	22.20	22.22	22.28	1
	16QAM	1	0	21.75	21.77	21.83	1
		1	2	21.83	21.85	21.91	1
		1	5	21.80	21.82	21.88	1
		3	0	21.74	21.76	21.82	1
		3	1	21.82	21.84	21.90	1
		3	3	21.79	21.81	21.87	1
		6	0	21.12	21.14	21.20	2
BW	Modulation	RB Size	RB Offset	Low CH 23025	Mid CH 23095	High CH 23165	3GPP MPR (dB)
				Frequency 700.5 MHz	Frequency 707.5 MHz	Frequency 714.5 MHz	
12/3	QPSK	1	0	22.98	23.00	23.06	0
		1	7	23.24	23.26	23.32	0
		1	14	23.14	23.16	23.22	0
		8	0	22.25	22.27	22.33	1
		8	3	22.21	22.23	22.29	1
		8	7	22.11	22.13	22.19	1
		15	0	22.24	22.26	22.32	1
	16QAM	1	0	21.79	21.81	21.87	1
		1	7	21.87	21.89	21.95	1
		1	14	21.84	21.86	21.92	1
		8	0	21.08	21.10	21.16	2
		8	3	21.09	21.11	21.17	2
		8	7	21.20	21.22	21.28	2
		15	0	21.16	21.18	21.24	2

LTE Band 12							
BW	Modulation	RB Size	RB Offset	Low CH 23035	Mid CH 23095	High CH 23155	3GPP MPR (dB)
				Frequency 701.5 MHz	Frequency 707.5 MHz	Frequency 713.5 MHz	
12/5	QPSK	1	0	23.04	23.06	23.12	0
		1	12	23.30	23.32	23.38	0
		1	24	23.20	23.22	23.28	0
		12	0	22.31	22.33	22.39	1
		12	6	22.27	22.29	22.35	1
		12	13	22.17	22.19	22.25	1
		25	0	22.30	22.32	22.38	1
	16QAM	1	0	21.85	21.87	21.93	1
		1	12	21.93	21.95	22.01	1
		1	24	21.90	21.92	21.98	1
		12	0	21.14	21.16	21.22	2
		12	6	21.15	21.17	21.23	2
		12	13	21.26	21.28	21.34	2
		25	0	21.22	21.24	21.30	2
BW	Modulation	RB Size	RB Offset	Low CH 23060 Frequency 704 MHz	Mid CH 23095 Frequency 707.5 MHz	High CH 23130 Frequency 711 MHz	3GPP MPR (dB)
12/10	QPSK	1	0	23.07	23.09	23.15	0
		1	24	23.33	23.35	23.41	0
		1	49	23.23	23.25	23.31	0
		25	0	22.34	22.36	22.42	1
		25	12	22.30	22.32	22.38	1
		25	25	22.20	22.22	22.28	1
		50	0	22.33	22.35	22.41	1
	16QAM	1	0	21.88	21.90	21.96	1
		1	24	21.96	21.98	22.04	1
		1	49	21.93	21.95	22.01	1
		25	0	21.17	21.19	21.25	2
		25	12	21.18	21.20	21.26	2
		25	25	21.29	21.31	21.37	2
		50	0	21.25	21.27	21.33	2

EIRP

WCDMA IV

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1312	1712.4	22.51	3.00	24.31	269.77	1
1413	1732.6	22.72	3.00	24.27	267.30	1
1513	1752.6	22.62	3.00	24.36	272.90	1

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	22.17	3.00	25.17	328.85	1
20175	1732.5	22.25	3.00	25.25	334.97	1
20393	1754.3	22.21	3.00	25.21	331.89	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	21.30	3.00	24.30	269.15	1
20175	1732.5	21.38	3.00	24.38	274.16	1
20393	1754.3	21.34	3.00	24.34	271.64	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	22.18	3.00	25.18	329.61	1
20175	1732.5	22.26	3.00	25.26	335.74	1
20385	1753.5	22.22	3.00	25.22	332.66	1

CHANNEL BANDWIDTH: 3MHz 16QAM



BUREAU
VERITAS

Test Report No.: RF191023W005-4

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	21.31	2.00	23.31	214.29	1
20175	1732.5	21.39	2.00	23.39	218.27	1
20385	1753.5	21.35	2.00	23.35	216.27	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	22.21	3.00	25.21	331.89	1
20175	1732.5	22.29	3.00	25.29	338.06	1
20375	1752.5	22.25	3.00	25.25	334.97	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	21.34	3.00	24.34	271.64	1
20175	1732.5	21.42	3.00	24.42	276.69	1
20375	1752.5	21.38	3.00	24.38	274.16	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	22.25	3.00	25.25	334.97	1
18900	1732.5	22.33	3.00	25.33	341.19	1
19150	1750.0	22.29	3.00	25.29	338.06	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	21.38	3.00	24.38	274.16	1
20175	1732.5	21.46	3.00	24.46	279.25	1
20350	1750.0	21.42	3.00	24.42	276.69	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	22.31	3.00	25.31	339.63	1
20175	1732.5	22.39	3.00	25.39	345.94	1
20325	1747.5	22.35	3.00	25.35	342.77	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	21.44	3.00	24.44	278.16	2
20175	1732.5	21.52	3.00	24.52	283.14	2
20325	1747.5	21.48	3.00	24.48	280.54	2

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	22.34	3.00	25.34	341.98	2
20175	1732.5	22.42	3.00	25.42	348.34	2
20300	1745.0	22.38	3.00	25.38	345.14	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720.0	21.47	3.00	24.47	279.9	2
20175	1732.5	21.55	3.00	24.55	285.1	2
20300	1745.0	21.51	3.00	24.51	282.68	2

LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
23017	699.7	23.20	3.00	24.05	254.1	3
23095	707.5	23.22	3.00	24.07	255.27	3
23173	715.3	23.28	3.00	24.13	258.82	3

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
23017	699.7	21.83	3.00	22.68	185.35	3
23095	707.5	21.85	3.00	22.70	186.21	3
23173	715.3	21.91	3.00	22.76	188.8	3

LTE BAND 12

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
23025	700.5	23.24	3.00	24.09	256.45	3
23095	707.5	23.26	3.00	24.11	257.63	3
23165	714.5	23.32	3.00	24.17	261.22	3

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
23025	700.5	21.87	3.00	22.72	187.07	3
23095	707.5	21.85	3.00	22.70	186.21	3
23165	714.5	21.95	3.00	22.80	190.55	3

LTE BAND 12

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
23035	701.5	23.30	3.00	24.15	260.02	3
23095	707.5	23.32	3.00	24.17	261.22	3
23155	713.5	23.38	3.00	24.23	264.85	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
23035	701.5	21.93	3.00	22.78	189.67	3
23095	707.5	21.95	3.00	22.80	190.55	3
23155	713.5	22.01	3.00	22.86	193.2	3

LTE BAND 12

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
23060	704.0	23.33	3.00	24.18	261.82	3
23095	707.5	23.35	3.00	24.20	263.03	3
23130	711.0	23.41	3.00	24.26	266.69	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
23060	704.0	21.96	3.00	22.81	190.99	3
23095	707.5	21.98	3.00	22.83	191.87	3
23130	711.0	22.04	3.00	22.89	194.54	3

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

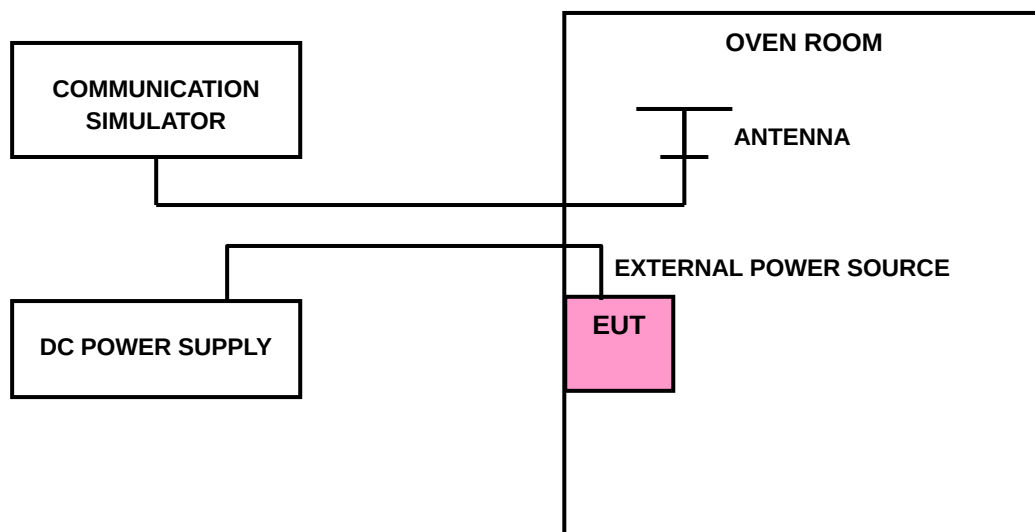
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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.: RF191023W005-4

3.2.4 TEST RESULTS

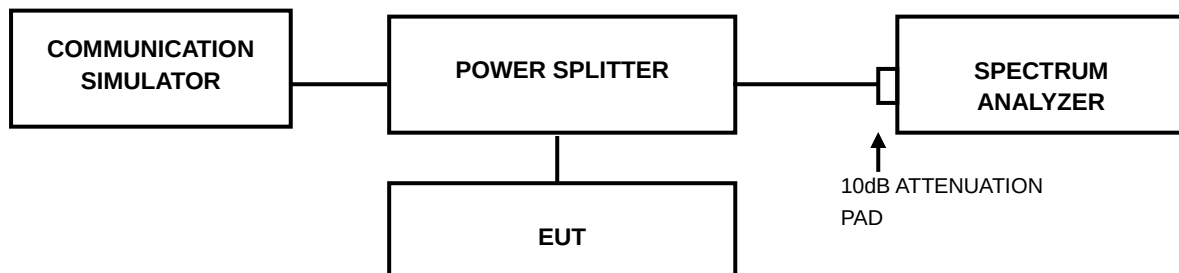
The test results was recorded in Report No.: RTWK160705001-00 (FCC ID: XMR201605EC25A).

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

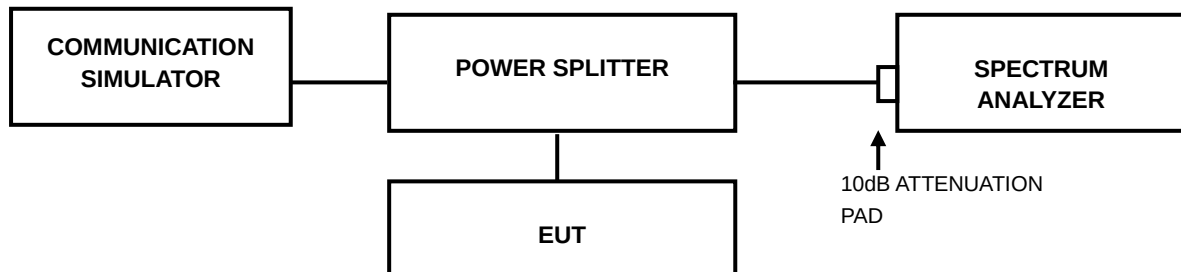
The test results was recorded in Report No.: RTWK160705001-00 (FCC ID: XMR201605EC25A).

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.: RTWK160705001-00 (FCC ID: XMR201605EC25A).

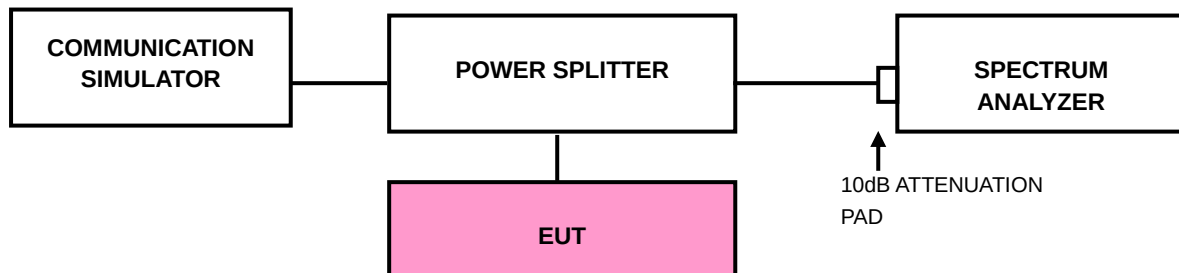
3.5 BAND EDGE MEASUREMENT

3.5.1 LIMITS OF BAND EDGE MEASUREMENT

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.

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 20kHz 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

The test results was recorded in Report No.: RTWK160705001-00 (FCC ID: XMR201605EC25A).

3.6 CONDUCTED SPURIOUS EMISSIONS

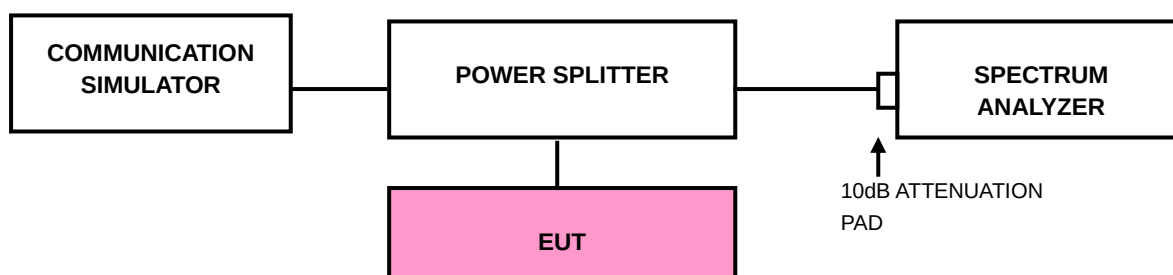
3.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

- The EUT makes a phone call to the communication simulator. All measurements were done at middle operational frequency range.
- Measuring frequency range is from 30 MHz to 19.1GHz for WCDMA Band 4 & LTE Band 4. 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.: RTWK160705001-00 (FCC ID: XMR201605EC25A).

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

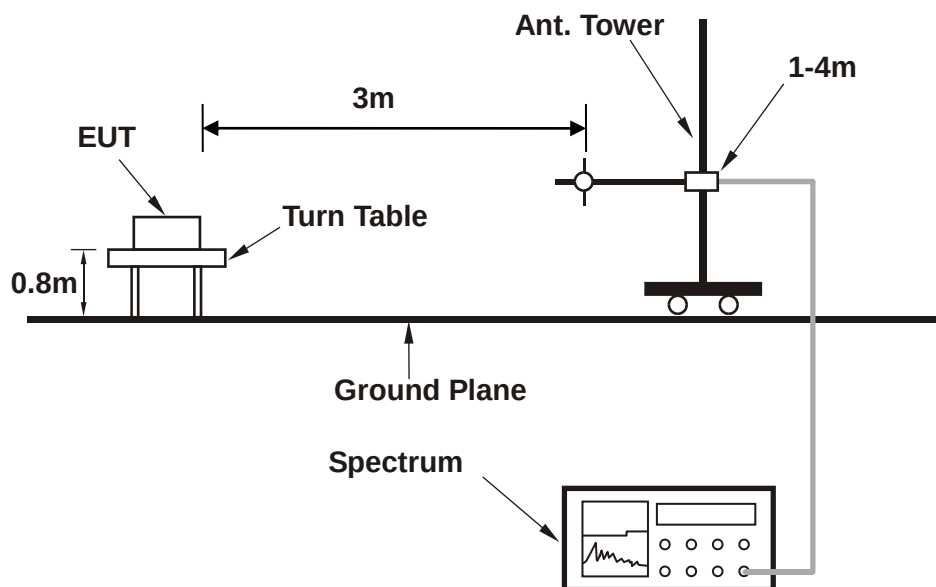
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.7.3 DEVIATION FROM TEST STANDARD

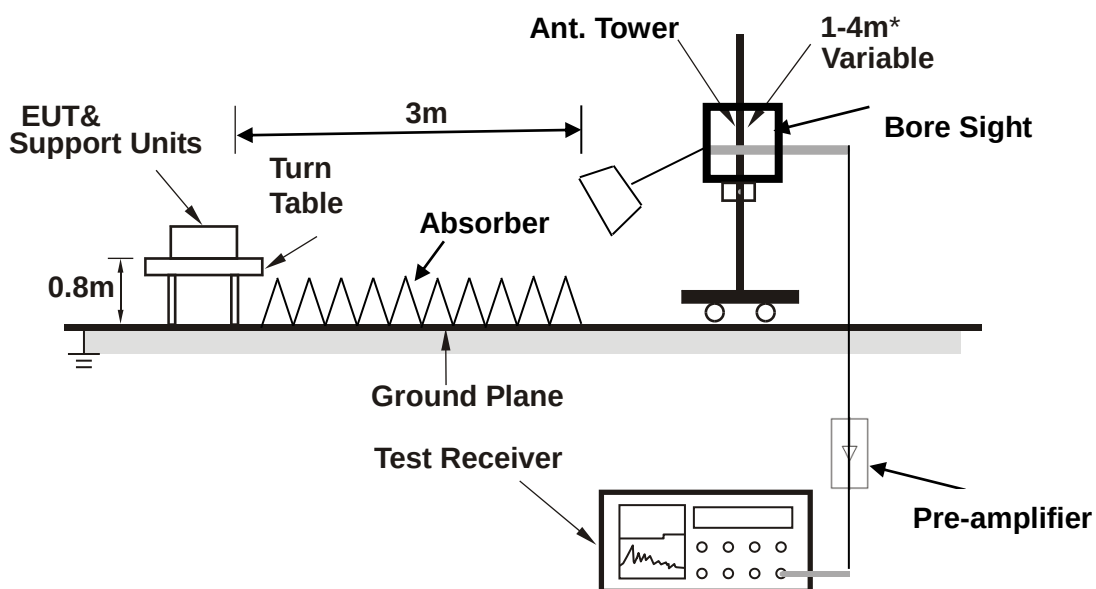
No deviation

3.7.4 TEST SETUP

< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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

3.7.5 TEST RESULTS

Ant 0

BELOW 1GHz WORST-CASE DATA

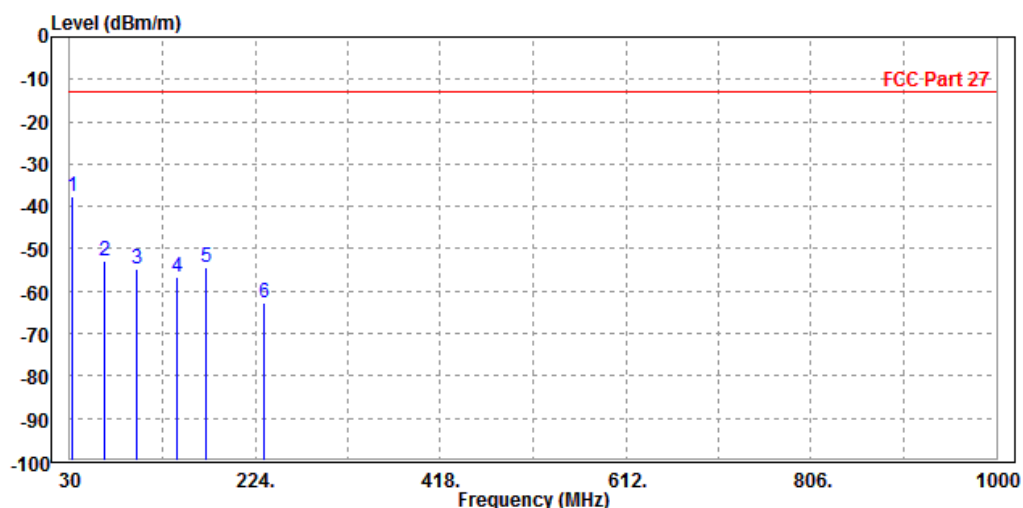
30 MHz – 1GHz data:

LTE BAND 4

CHANNEL BANDWIDTH: 10MHz / QPSK

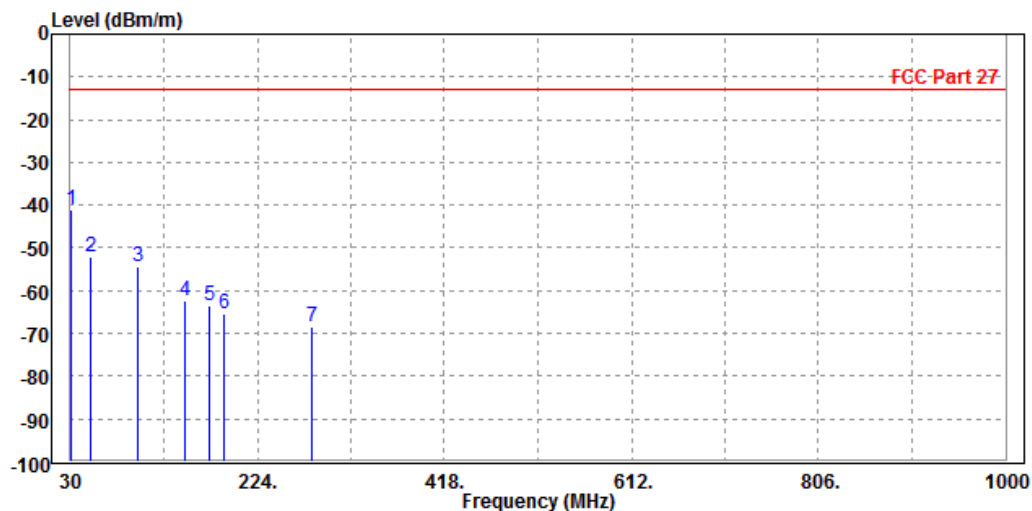
MODE	TX channel 20175	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	32.140	-37.60	-54.00	-13.00	-24.60	16.40	Peak	Horizontal
2	65.820	-52.74	-42.55	-13.00	-39.74	-10.19	Peak	Horizontal
3	99.350	-54.57	-43.56	-13.00	-41.57	-11.01	Peak	Horizontal
4	141.650	-56.76	-37.54	-13.00	-43.76	-19.22	Peak	Horizontal
5	172.650	-54.30	-36.28	-13.00	-41.30	-18.02	Peak	Horizontal
6	233.510	-62.81	-46.22	-13.00	-49.81	-16.59	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	31.260	-41.03	-44.68	-13.00	-28.03	3.65	Peak	Vertical
2	51.680	-51.96	-45.96	-13.00	-38.96	-6.00	Peak	Vertical
3	100.265	-54.37	-43.66	-13.00	-41.37	-10.71	Peak	Vertical
4	148.660	-62.32	-46.34	-13.00	-49.32	-15.98	Peak	Vertical
5	173.680	-63.43	-49.60	-13.00	-50.43	-13.83	Peak	Vertical
6	190.260	-65.44	-53.57	-13.00	-52.44	-11.87	Peak	Vertical
7	280.330	-68.61	-57.23	-13.00	-55.61	-11.38	Peak	Vertical



ABOVE 1GHz

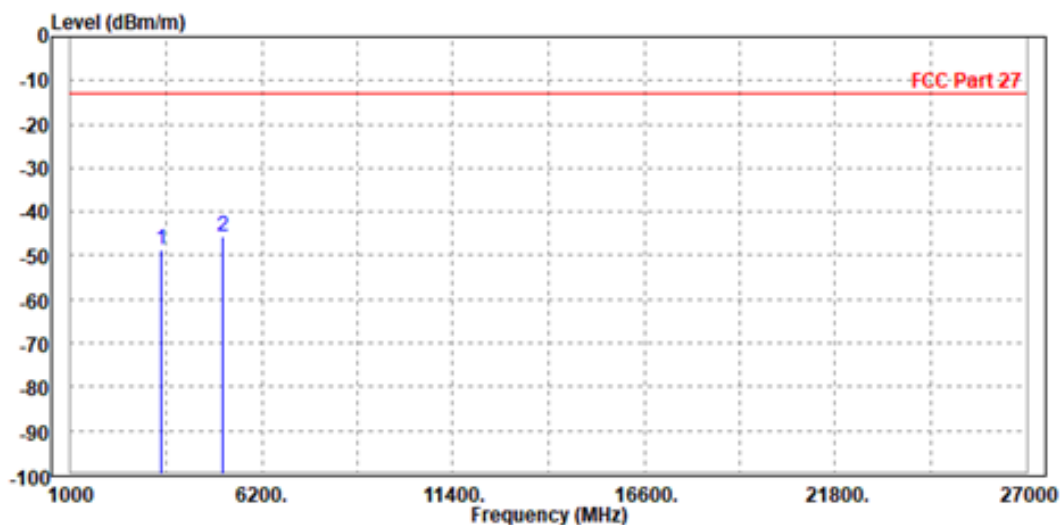
Note: For higher frequency, the emission is too low to be detected.

WCDMA Band IV:

CH 1312

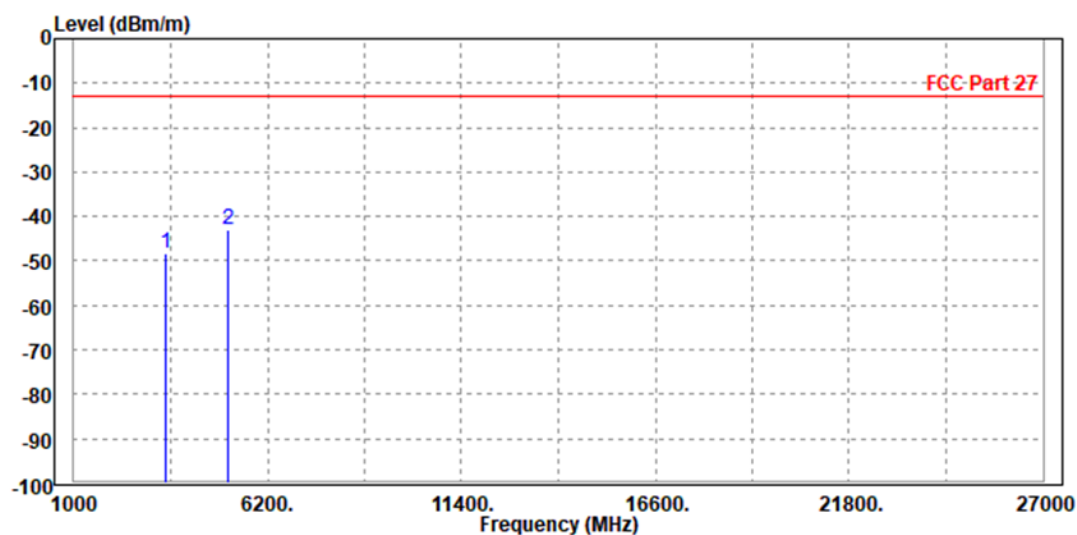
MODE	TX channel 1312	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3444.000	-48.72	-57.30	-13.00	-35.72	8.58	Peak	Horizontal
2 PP	5137.200	-45.77	-54.71	-13.00	-32.77	8.94	Peak	Horizontal



MODE	TX channel 1312	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

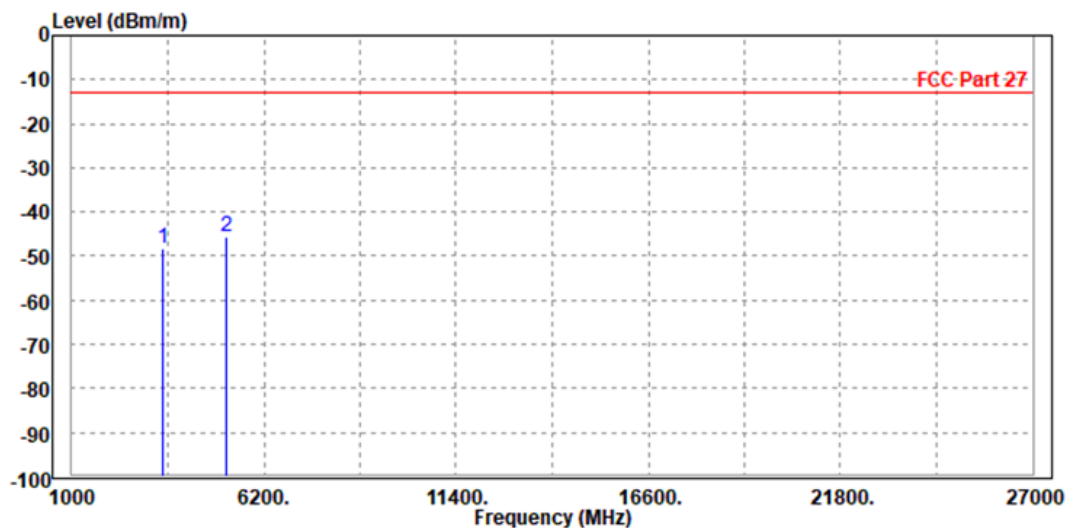
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3444.000	-48.43	-57.57	-13.00	-35.43	9.14	Peak	Vertical
2	PP 5137.200	-42.91	-52.76	-13.00	-29.91	9.85	Peak	Vertical



CH 1413

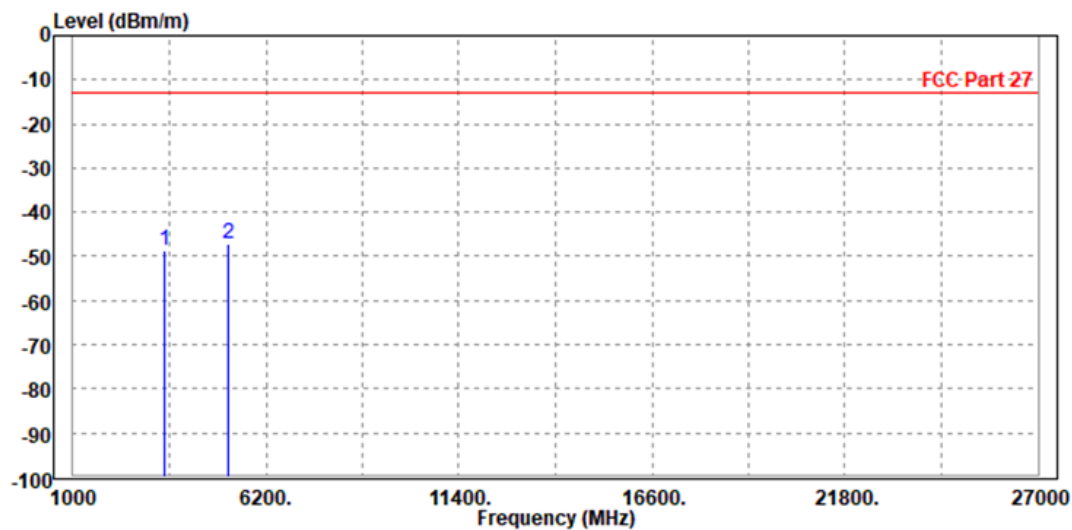
MODE	TX channel 1413	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-48.21	-56.79	-13.00	-35.21	8.58	Peak	Horizontal
2 PP	5197.800	-45.52	-54.64	-13.00	-32.52	9.12	Peak	Horizontal



MODE	TX channel 1413	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

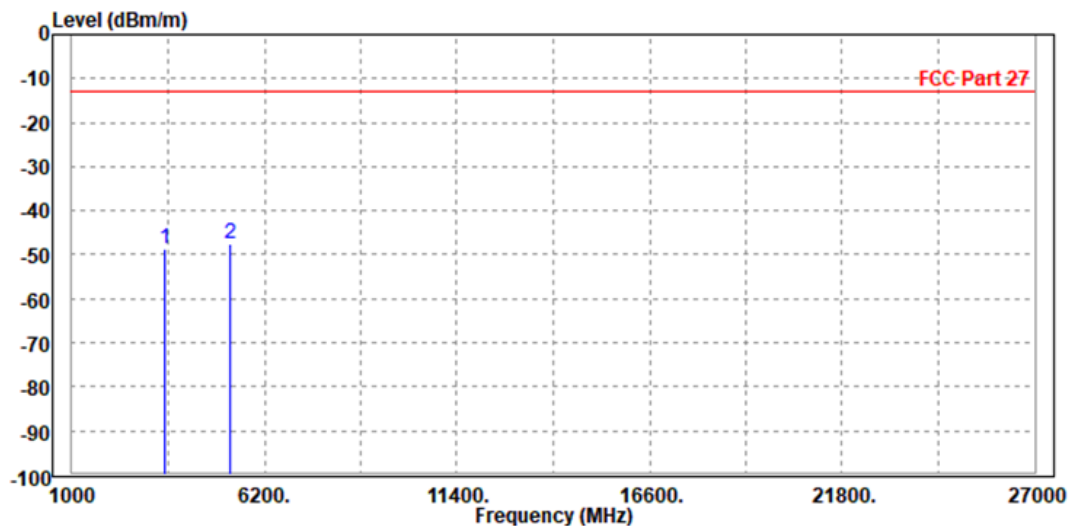
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-48.68	-57.84	-13.00	-35.68	9.16	Peak	Vertical
2 PP	5197.800	-47.07	-56.89	-13.00	-34.07	9.82	Peak	Vertical



CH 1513

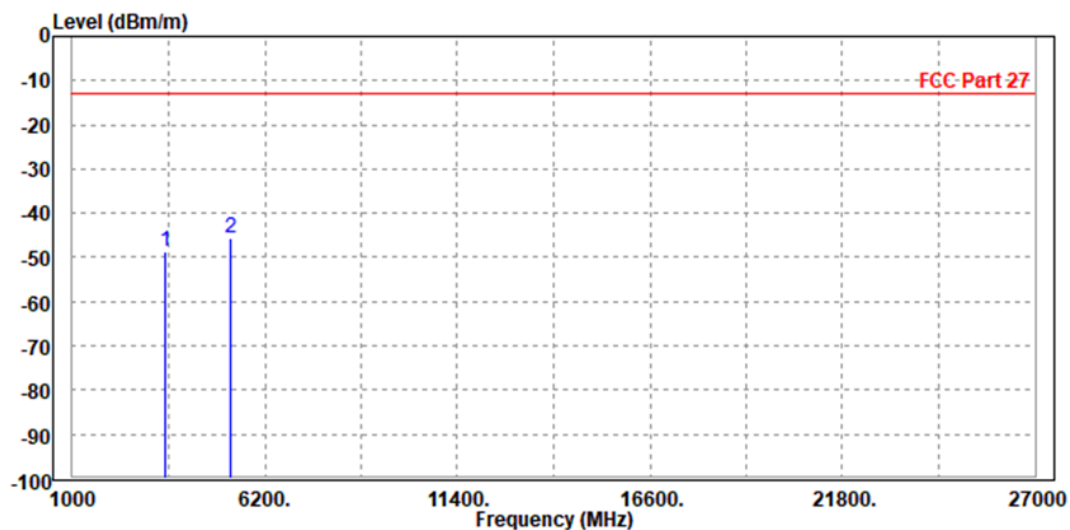
MODE	TX channel 1513	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3496.000	-48.72	-57.29	-13.00	-35.72	8.57	Peak	Horizontal
2 PP	5257.800	-47.42	-56.72	-13.00	-34.42	9.30	Peak	Horizontal



MODE	TX channel 1513	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	3496.000	-48.48	-57.67	-13.00	-35.48	9.19	Peak	Vertical
2	PP 5257.800	-45.74	-55.54	-13.00	-32.74	9.80	Peak	Vertical





**BUREAU
VERITAS**

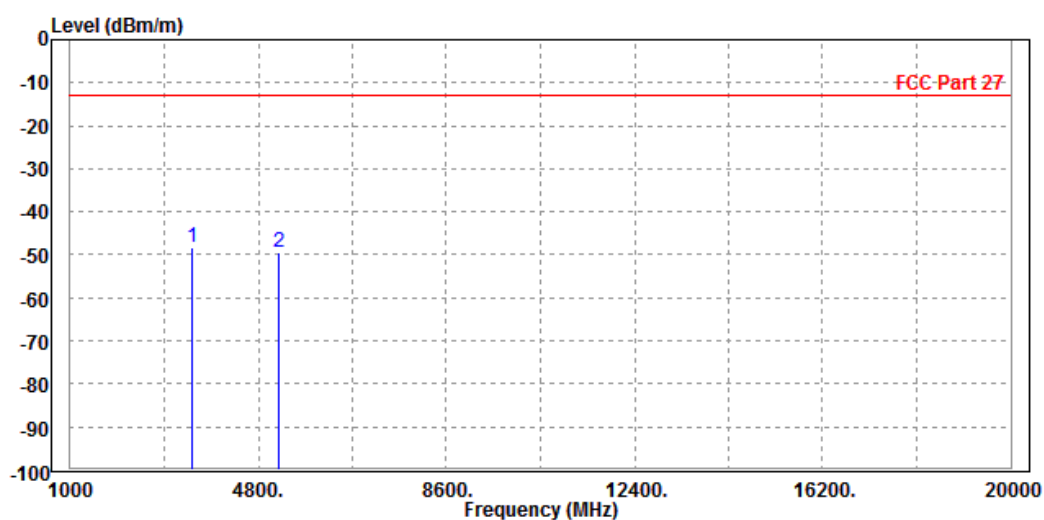
Test Report No.: RF191023W005-4

LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz / QPSK

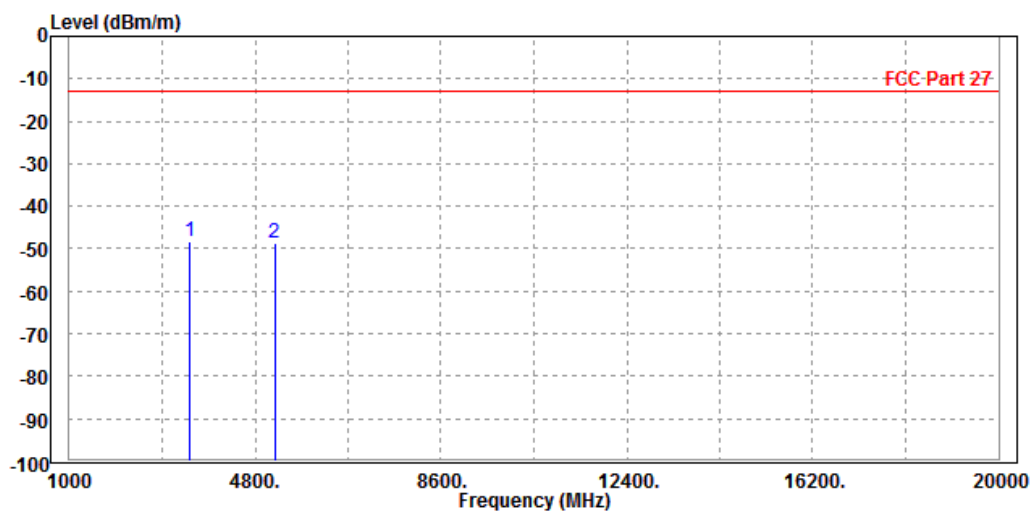
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3465.000	-48.40	-56.98	-13.00	-35.40	8.58	Peak	Horizontal
2	5199.000	-49.57	-58.69	-13.00	-36.57	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-48.17	-57.33	-13.00	-35.17	9.16	Peak	Vertical
2		5197.500	-48.85	-58.67	-13.00	-35.85	9.82	Peak	Vertical



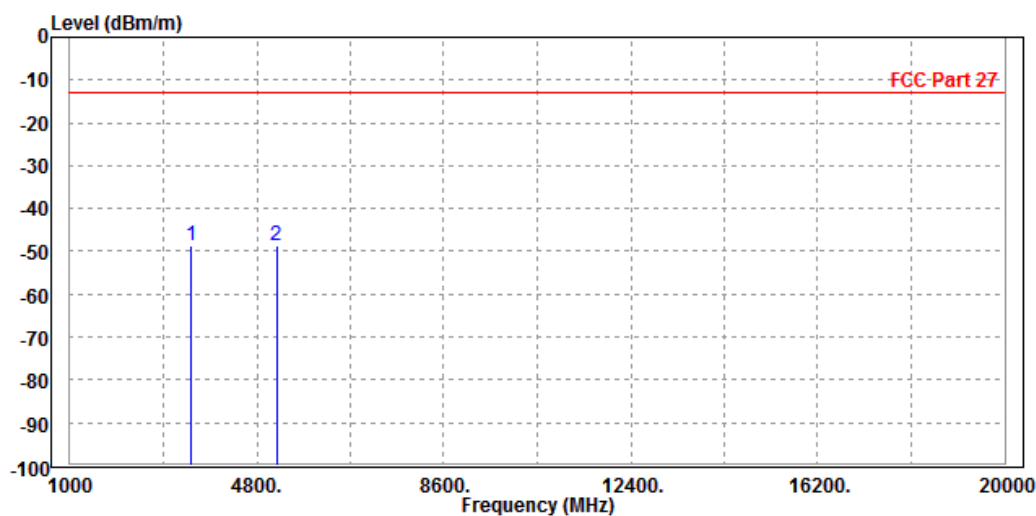


Test Report No.: RF191023W005-4

CHANNEL BANDWIDTH: 3MHz / QPSK

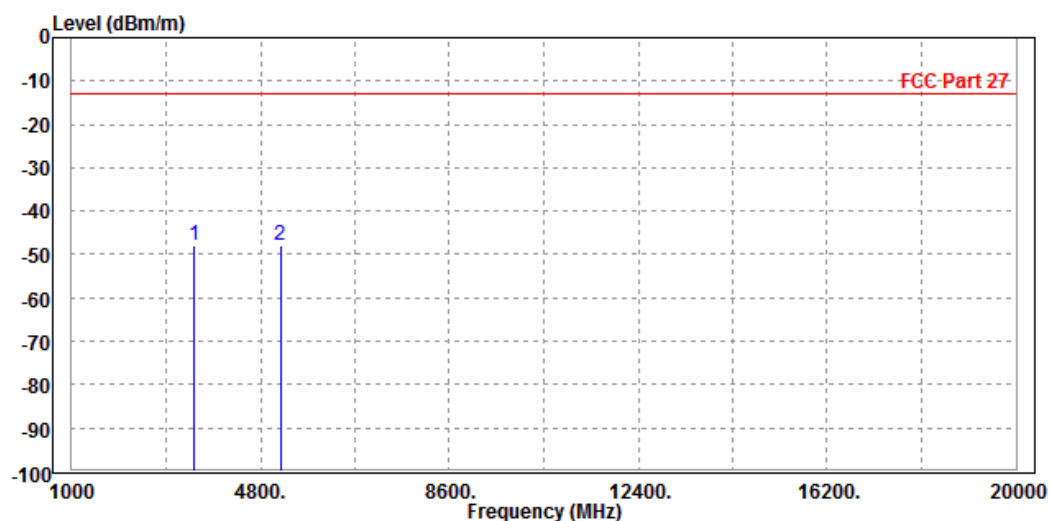
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-48.73	-57.31	-13.00	-35.73	8.58	Peak	Horizontal
2 PP	5197.500	-48.65	-57.77	-13.00	-35.65	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

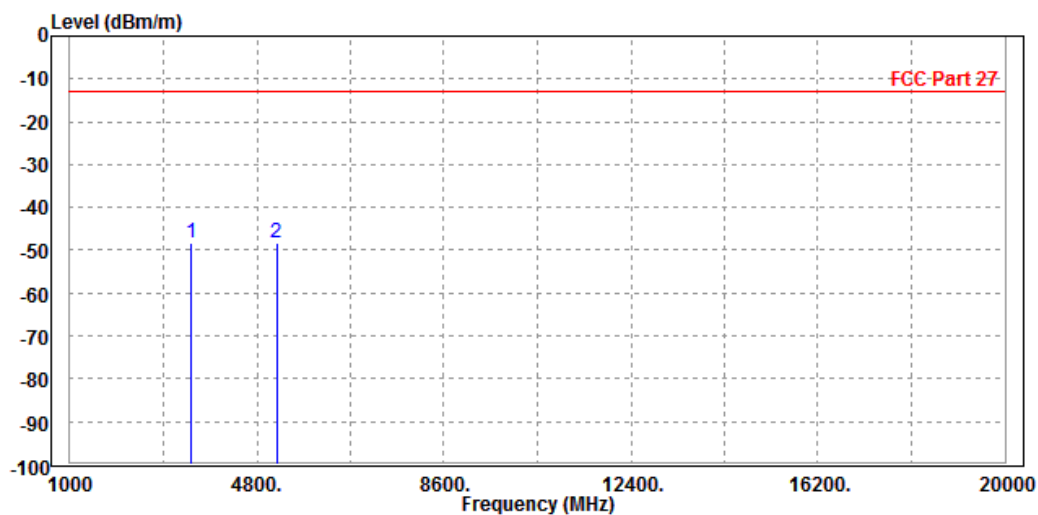
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3470.000	-47.85	-57.01	-13.00	-34.85	9.16	Peak	Vertical
2	5197.500	-48.07	-57.89	-13.00	-35.07	9.82	Peak	Vertical



CHANNEL BANDWIDTH: 5MHz / QPSK

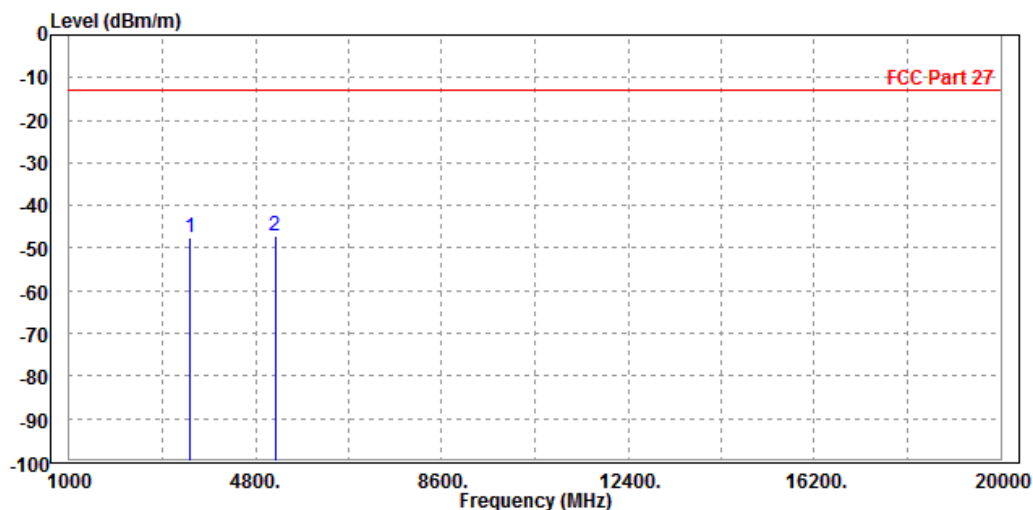
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	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	-48.11	-56.69	-13.00	-35.11	8.58	Peak	Horizontal
2	5197.500	-48.21	-57.33	-13.00	-35.21	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-47.71	-56.87	-13.00	-34.71	9.16	Peak	Vertical
2 PP	5197.500	-47.11	-56.93	-13.00	-34.11	9.82	Peak	Vertical

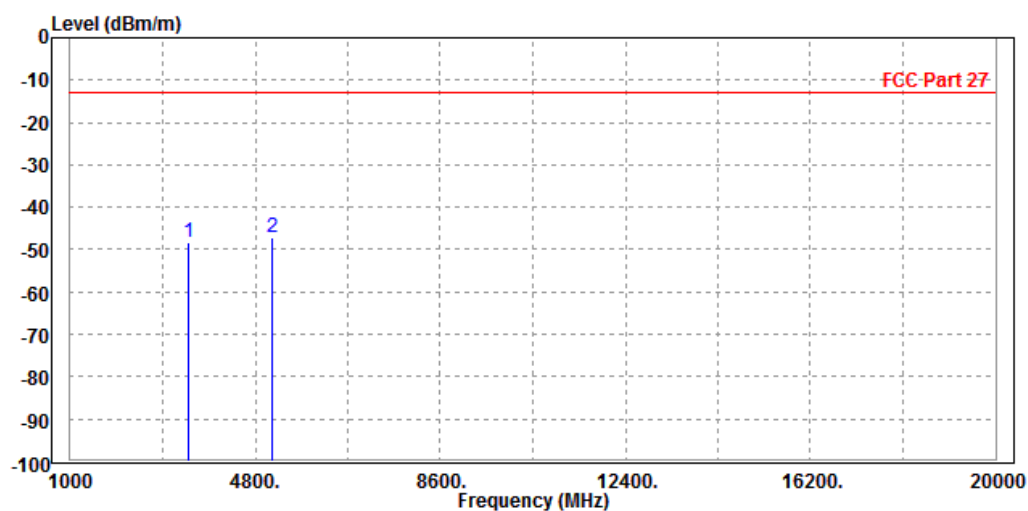


CHANNEL BANDWIDTH: 10MHz / QPSK

CH 20000

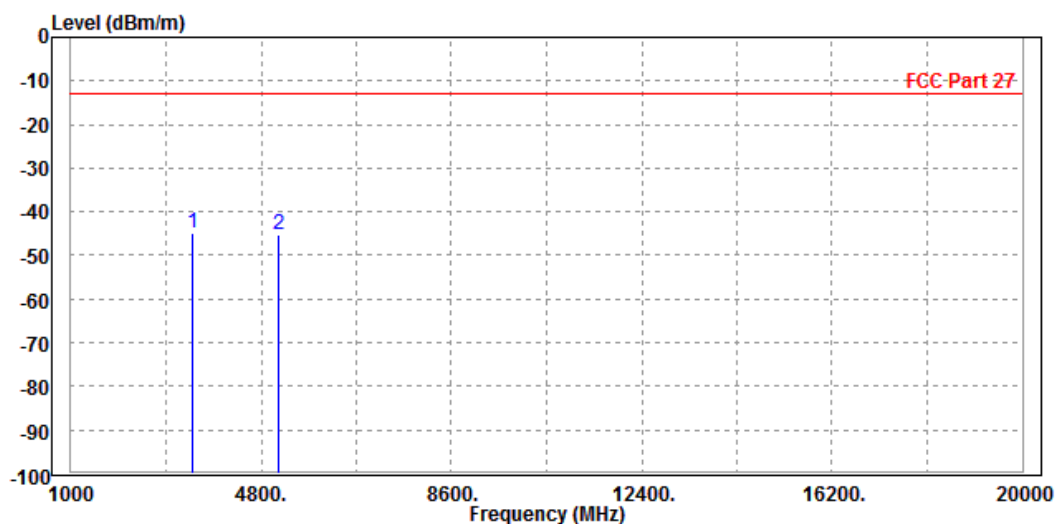
MODE	TX channel 20000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3432.000	-48.15	-56.74	-13.00	-35.15	8.59	Peak	Horizontal
2 PP	5145.000	-47.22	-56.18	-13.00	-34.22	8.96	Peak	Horizontal



MODE	TX channel 20000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	3432.000	-44.76	-53.89	-13.00	-31.76	9.13	Peak	Vertical
2		5145.000	-45.37	-55.21	-13.00	-32.37	9.84	Peak	Vertical

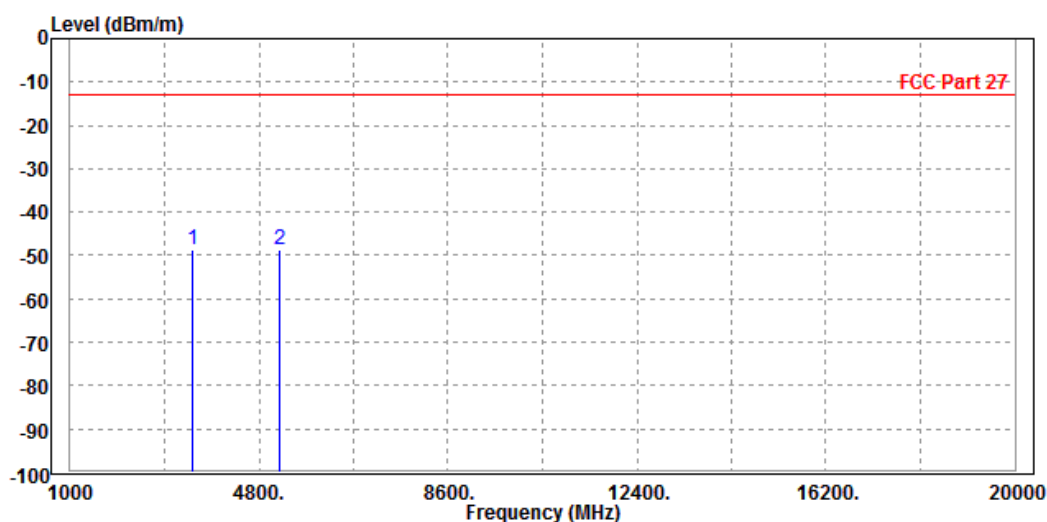


CH 20175

CH 20175

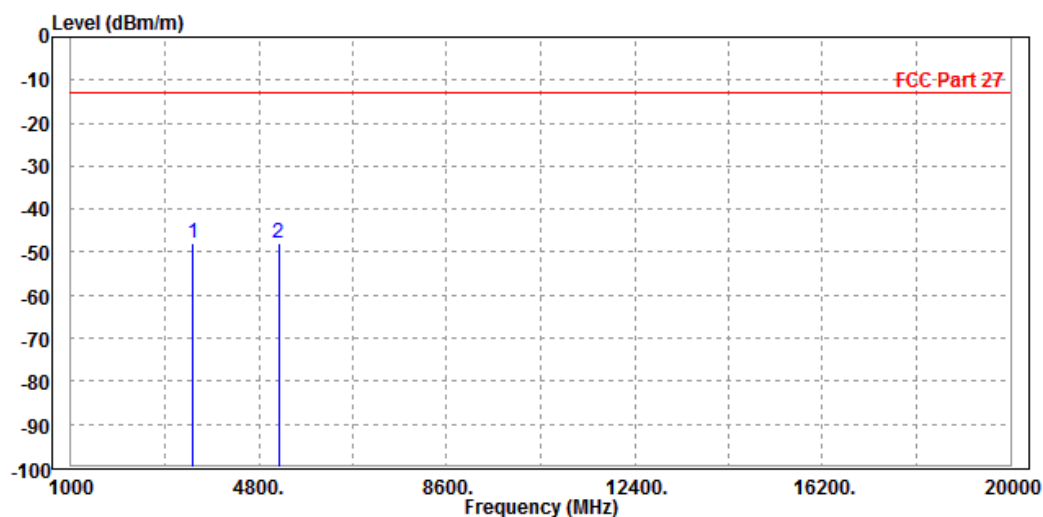
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3465.000	-48.72	-57.30	-13.00	-35.72	8.58	Peak	Horizontal
2 PP	5199.000	-48.68	-57.80	-13.00	-35.68	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-47.73	-56.89	-13.00	-34.73	9.16	Peak	Vertical
2	5197.500	-47.78	-57.60	-13.00	-34.78	9.82	Peak	Vertical

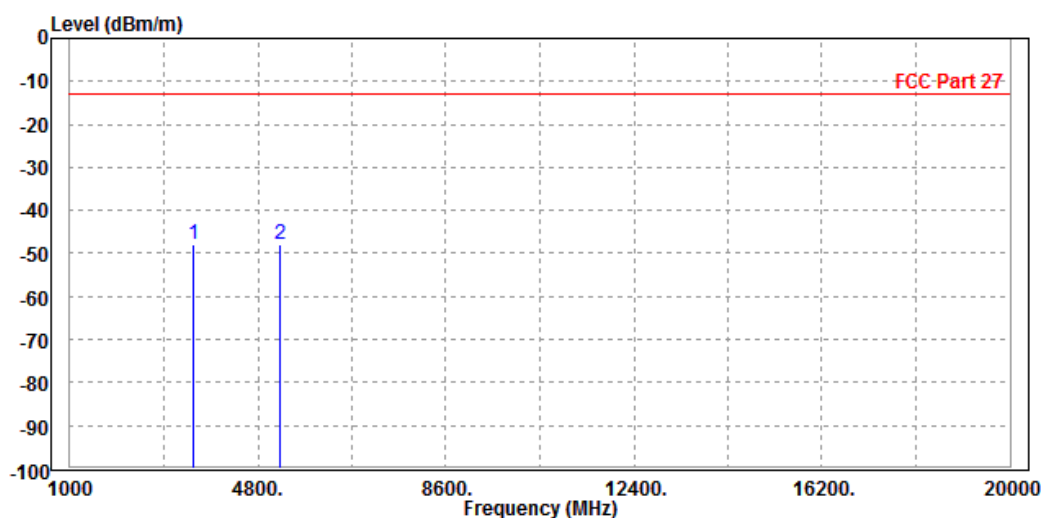


CH 20350

EN 12345

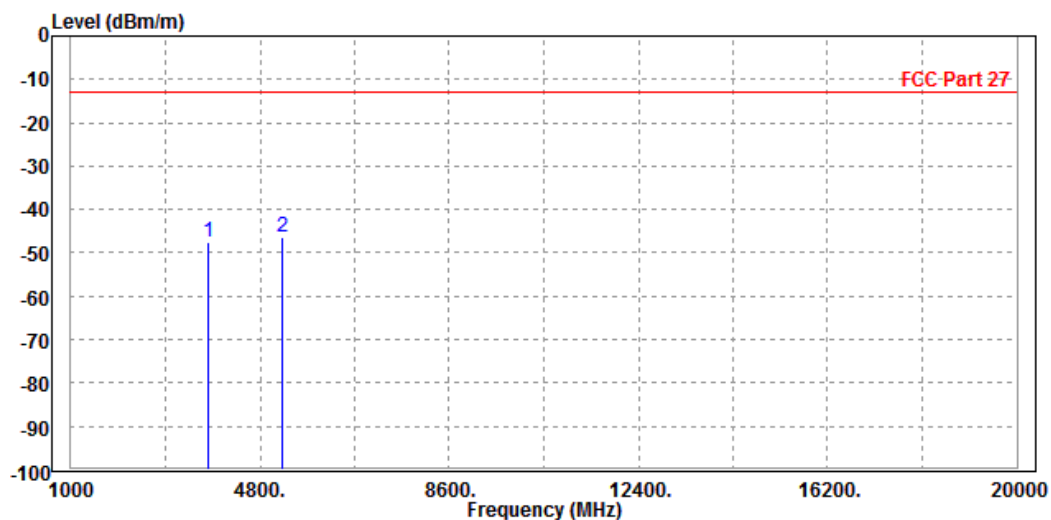
MODE	TX channel 20350	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3508.000	-47.88	-56.46	-13.00	-34.88	8.58	Peak	Horizontal
2 PP	5250.000	-47.73	-57.00	-13.00	-34.73	9.27	Peak	Horizontal



MODE	TX channel 20350	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

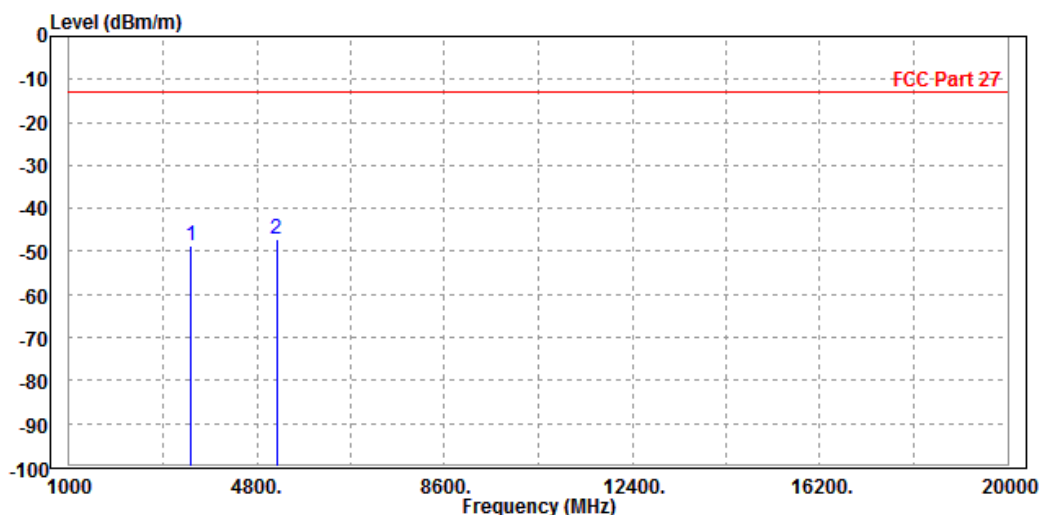
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-47.61	-56.88	-13.00	-34.61	9.27	Peak	Vertical
2 PP	5250.000	-46.24	-56.04	-13.00	-33.24	9.80	Peak	Vertical



CHANNEL BANDWIDTH: 15MHz / QPSK

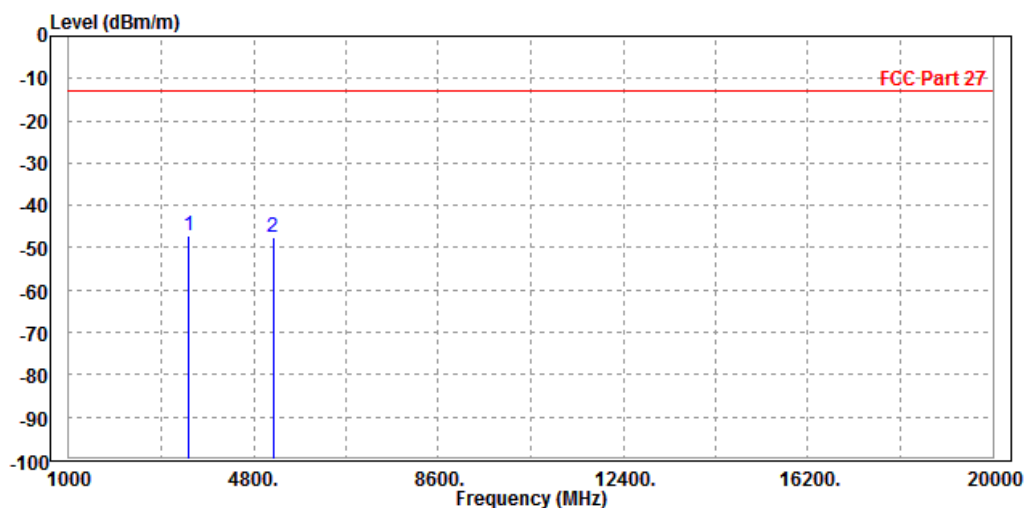
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-48.81	-57.39	-13.00	-35.81	8.58	Peak	Horizontal
2 PP	5197.500	-47.10	-56.22	-13.00	-34.10	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

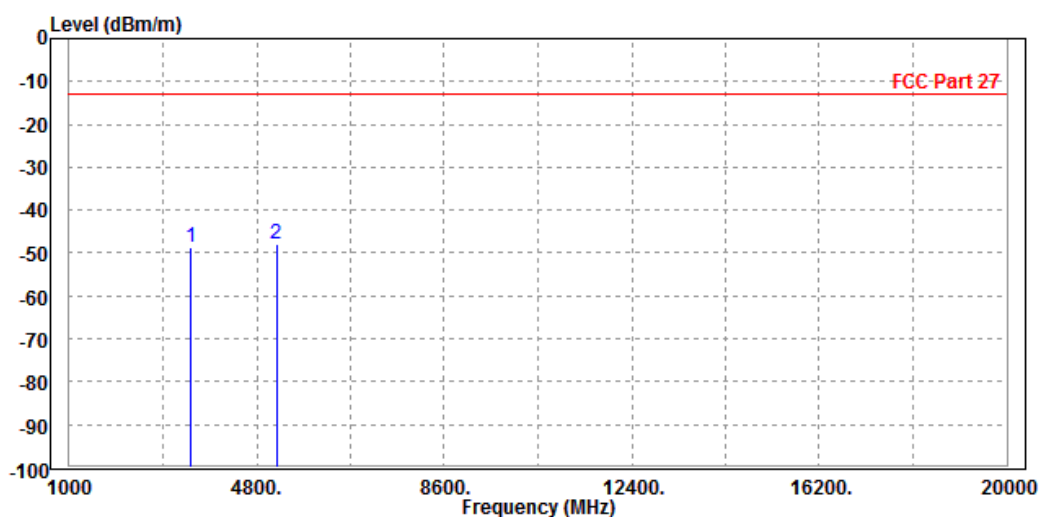
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3470.000	-47.24	-56.40	-13.00	-34.24	9.16	Peak	Vertical
2	5197.500	-47.53	-57.35	-13.00	-34.53	9.82	Peak	Vertical



CHANNEL BANDWIDTH: 20MHz / QPSK

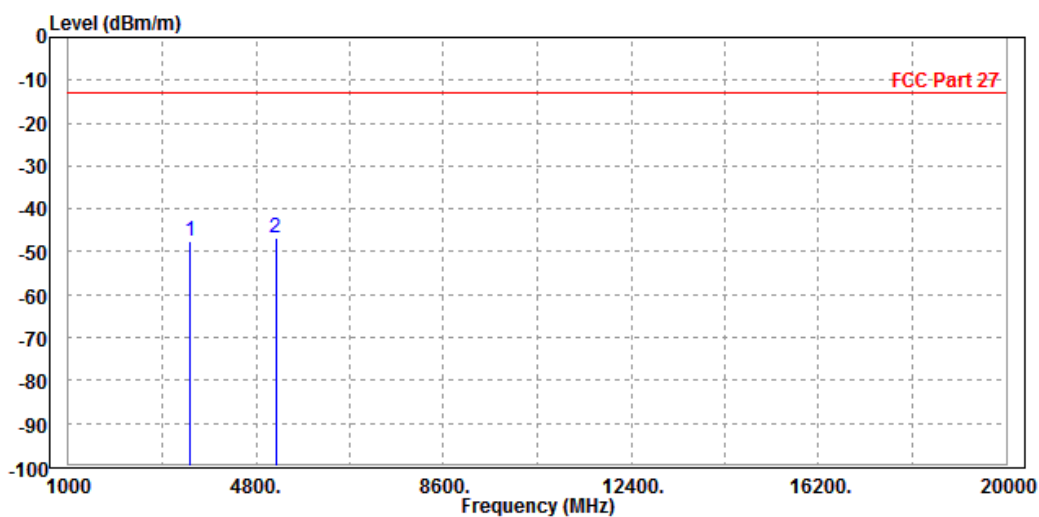
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-48.70	-57.28	-13.00	-35.70	8.58	Peak	Horizontal
2 PP	5197.500	-47.98	-57.10	-13.00	-34.98	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-47.56	-56.72	-13.00	-34.56	9.16	Peak	Vertical
2 PP	5197.500	-46.90	-56.72	-13.00	-33.90	9.82	Peak	Vertical

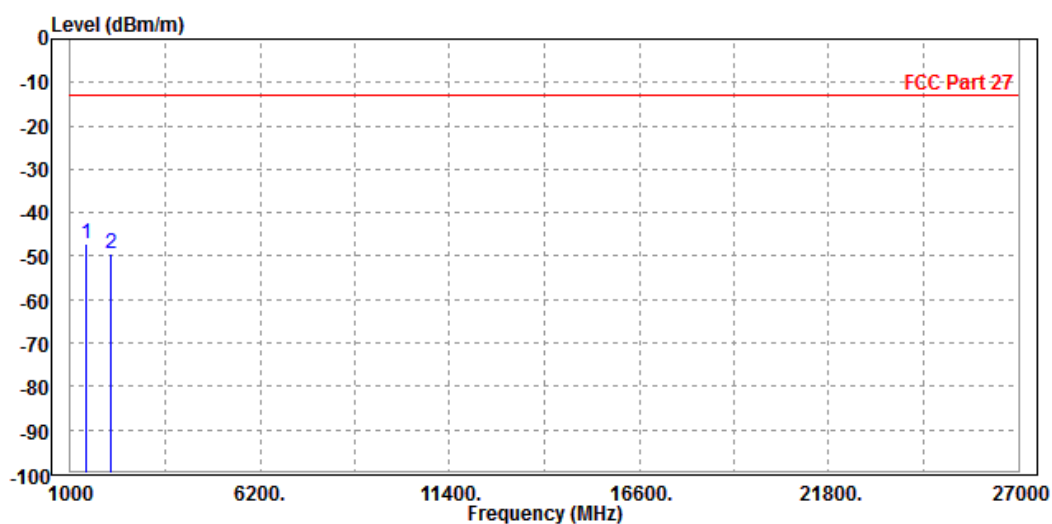


LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz / QPSK

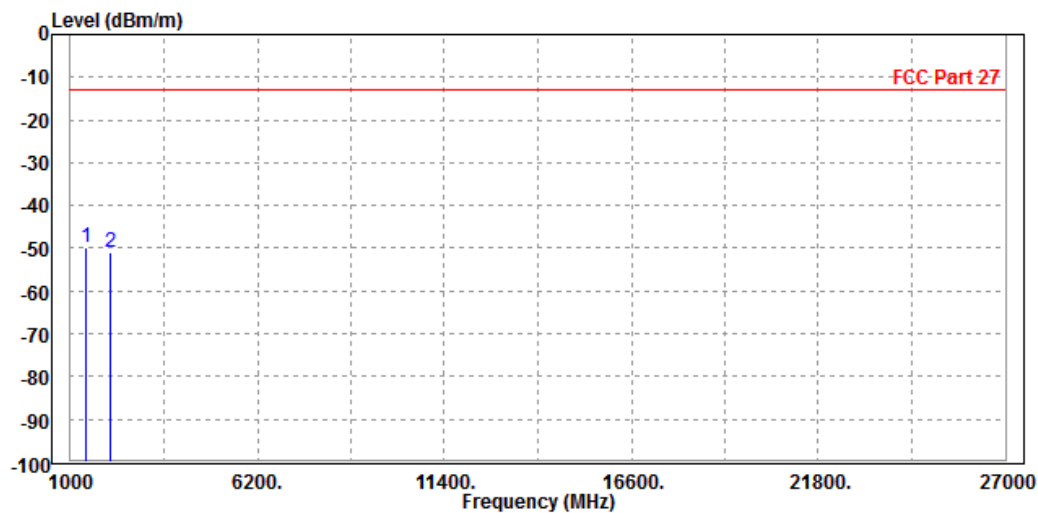
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1416.000	-47.29	-48.37	-13.00	-34.29	1.08	Peak	Horizontal
2		2122.500	-49.33	-57.00	-13.00	-36.33	7.67	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

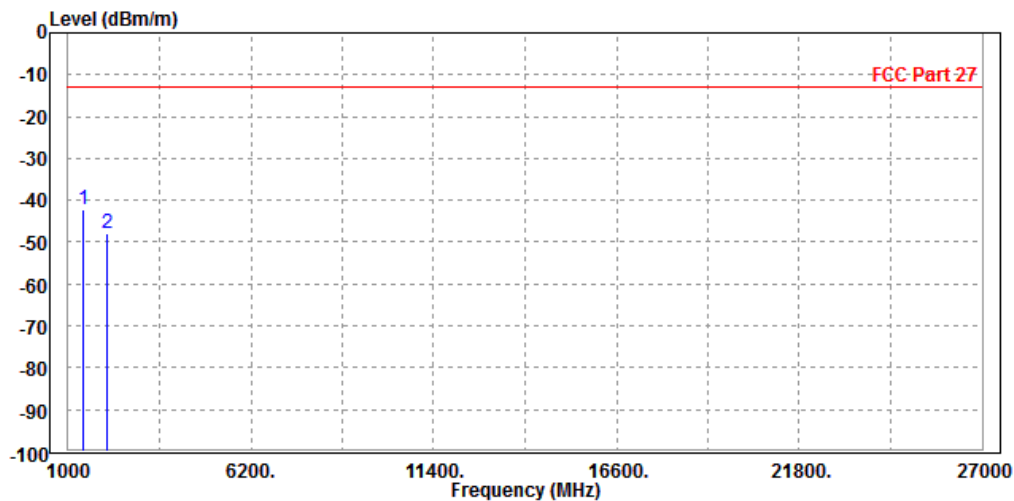
		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1416.000	-49.64	-51.33	-13.00	-36.64	1.69	Peak	Vertical
2		2122.500	-51.01	-57.70	-13.00	-38.01	6.69	Peak	Vertical



CHANNEL BANDWIDTH: 3MHz / QPSK

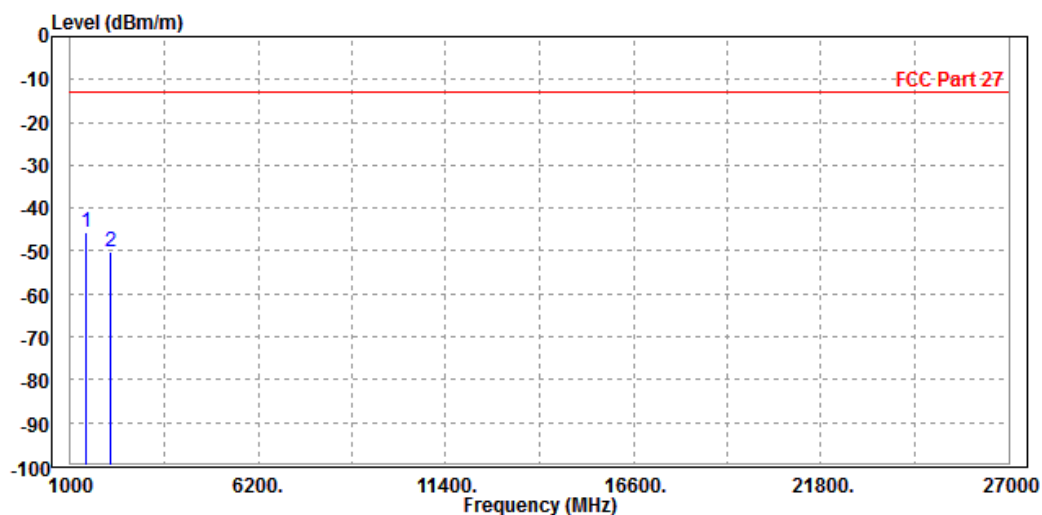
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1416.000	-42.34	-43.42	-13.00	-29.34	1.08	Peak	Horizontal
2		2122.500	-48.09	-55.76	-13.00	-35.09	7.67	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

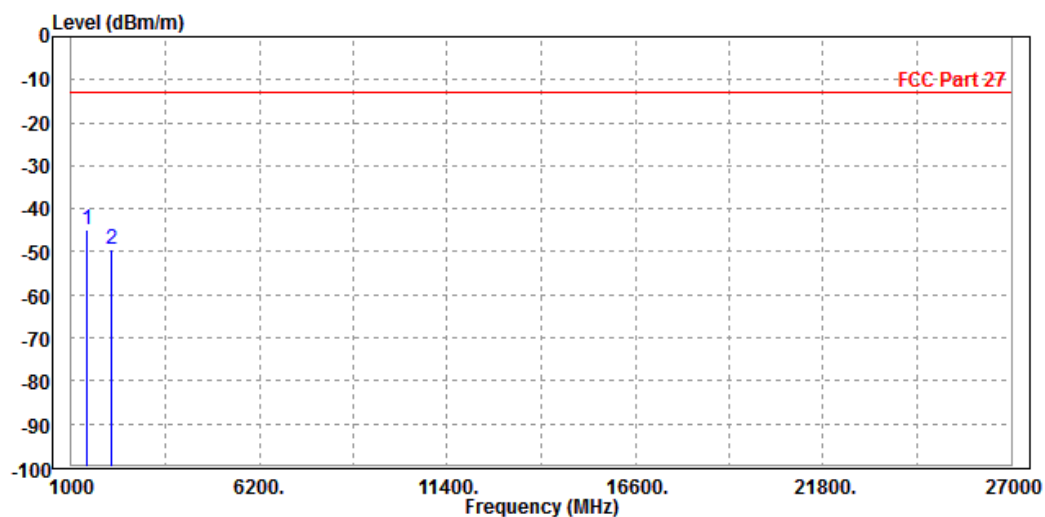
		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1416.000	-45.46	-47.15	-13.00	-32.46	1.69	Peak	Vertical
2		2122.500	-50.09	-56.78	-13.00	-37.09	6.69	Peak	Vertical



CHANNEL BANDWIDTH: 5MHz / QPSK

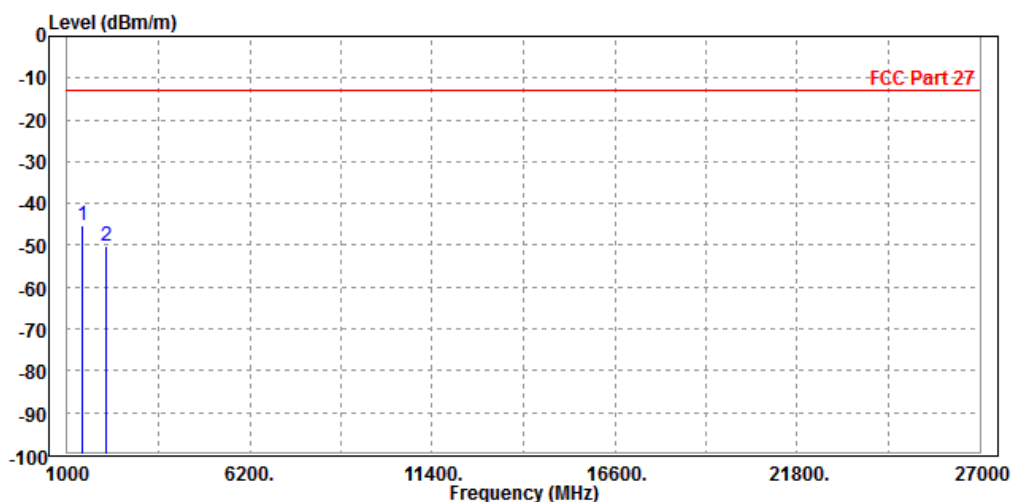
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1416.000	-45.06	-46.14	-13.00	-32.06	1.08	Peak	Horizontal
2		2122.500	-49.58	-57.25	-13.00	-36.58	7.67	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-45.14	-46.83	-13.00	-32.14	1.69	Peak	Vertical
2	2122.500	-50.10	-56.79	-13.00	-37.10	6.69	Peak	Vertical





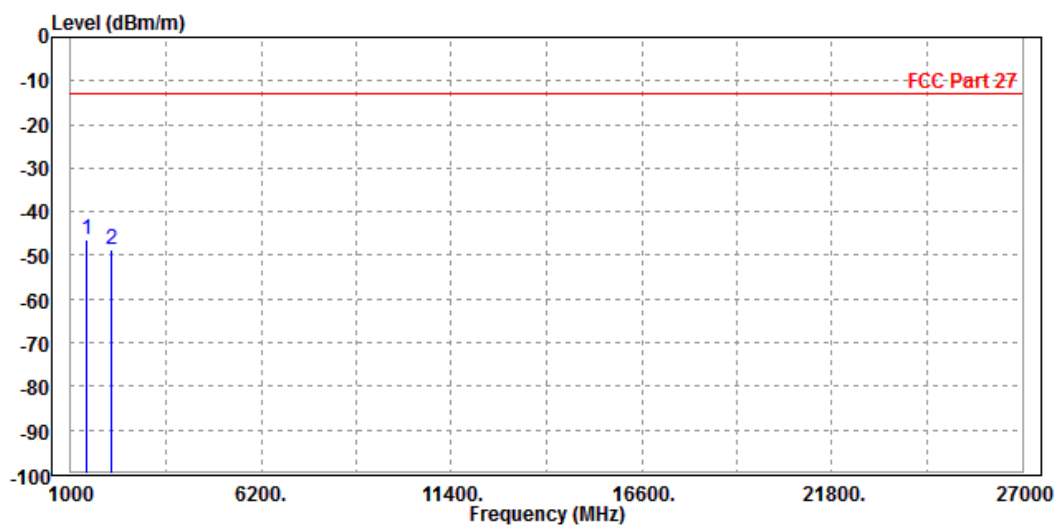
Test Report No.: RF191023W005-4

CHANNEL BANDWIDTH: 10MHz / QPSK

CH 23060

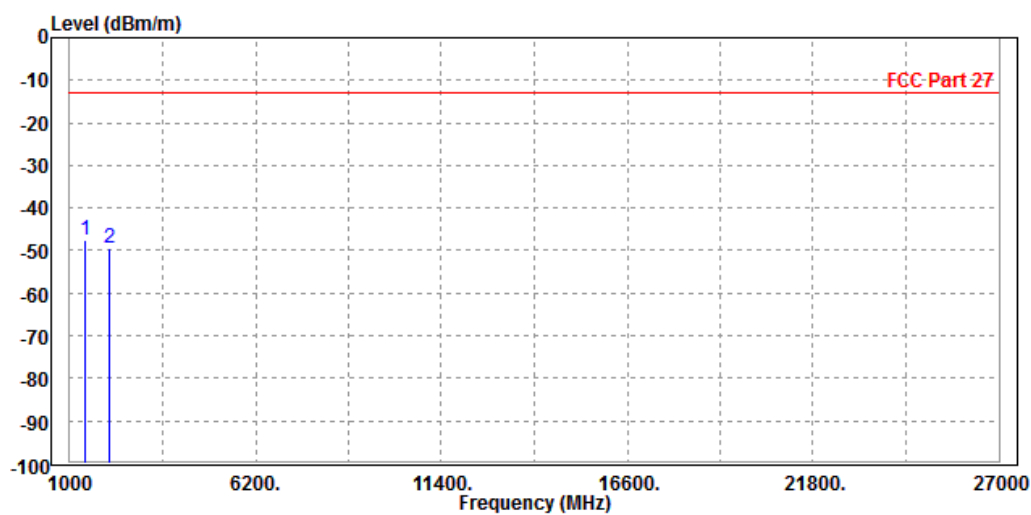
MODE	TX channel 23060	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1416.000	-46.45	-47.53	-13.00	-33.45	1.08	Peak	Horizontal
2	2112.000	-48.72	-56.38	-13.00	-35.72	7.66	Peak	Horizontal



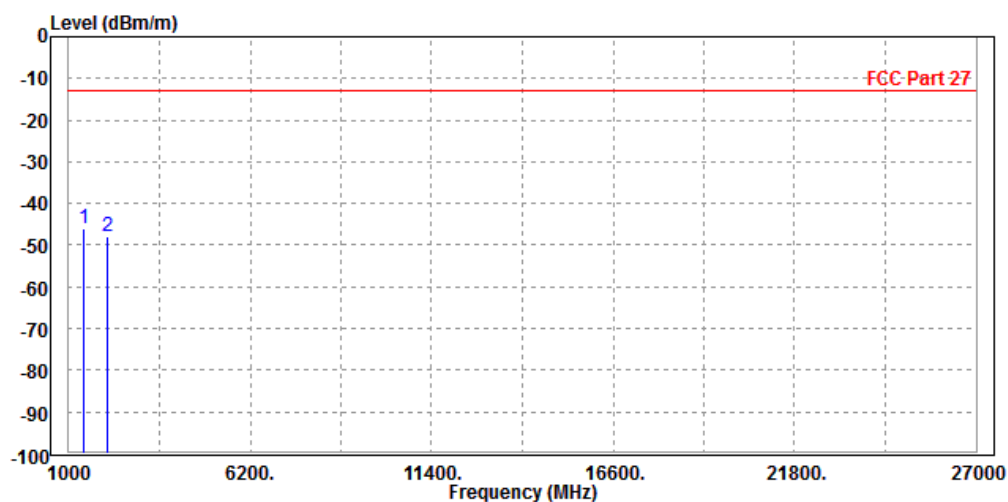
MODE	TX channel 23060	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	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	-47.67	-49.36	-13.00	-34.67	1.69	Peak	Vertical
2	2112.000	-49.36	-56.04	-13.00	-36.36	6.68	Peak	Vertical



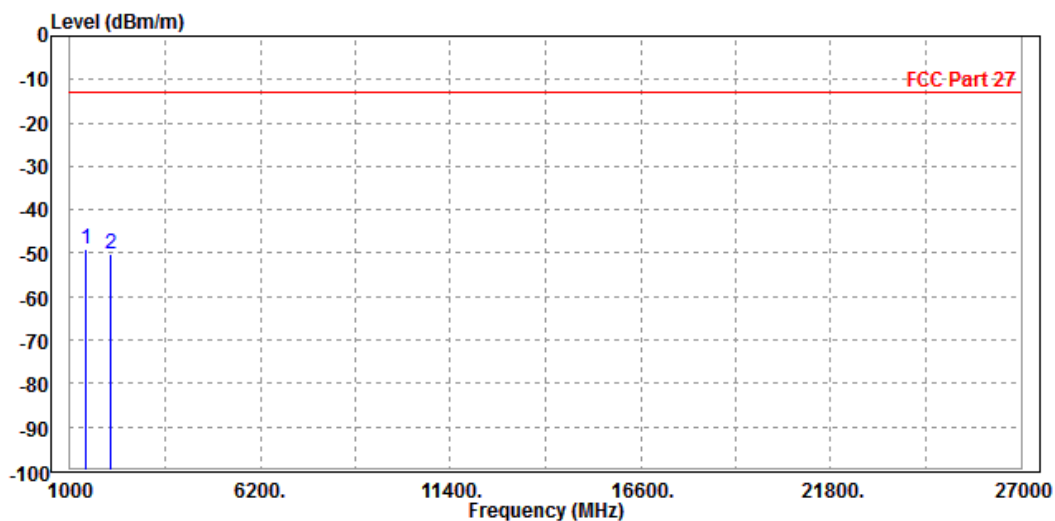
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1416.000	-46.18	-47.26	-13.00	-33.18	1.08	Peak	Horizontal
2	2122.500	-47.81	-55.48	-13.00	-34.81	7.67	Peak	Horizontal



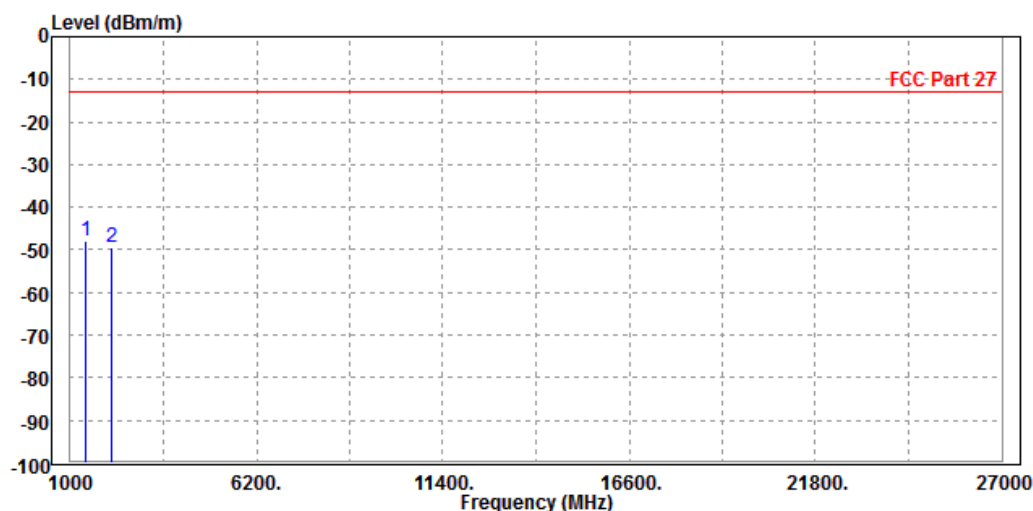
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

		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	-49.07	-50.76	-13.00	-36.07	1.69	Peak	Vertical
2		2122.500	-50.22	-56.91	-13.00	-37.22	6.69	Peak	Vertical



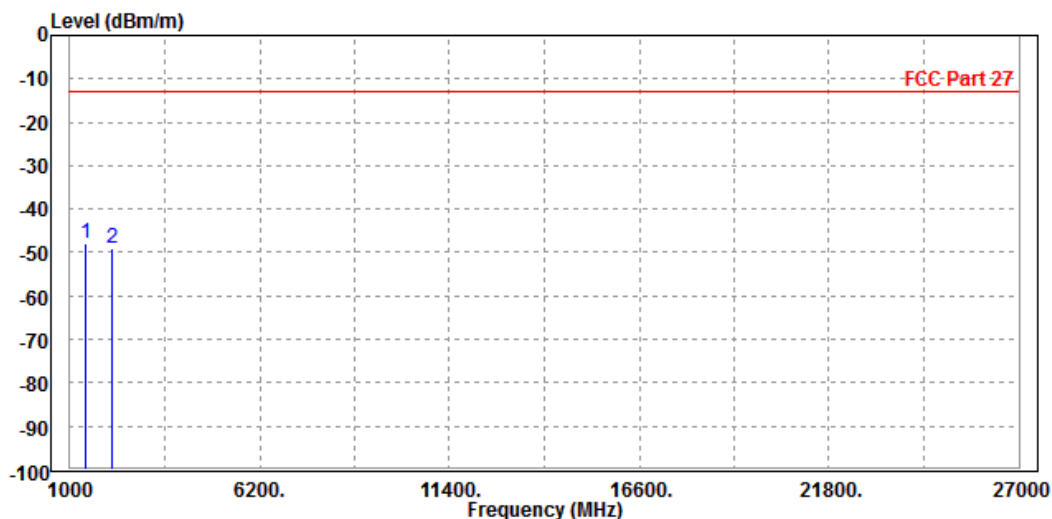
MODE	TX channel 23130	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1416.000	-47.88	-48.96	-13.00	-34.88	1.08	Peak	Horizontal
2	2140.500	-49.28	-56.97	-13.00	-36.28	7.69	Peak	Horizontal



MODE	TX channel 23130	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-47.76	-49.45	-13.00	-34.76	1.69	Peak	Vertical
2	2140.500	-49.23	-55.94	-13.00	-36.23	6.71	Peak	Vertical



Ant 1

BELOW 1GHz WORST-CASE DATA

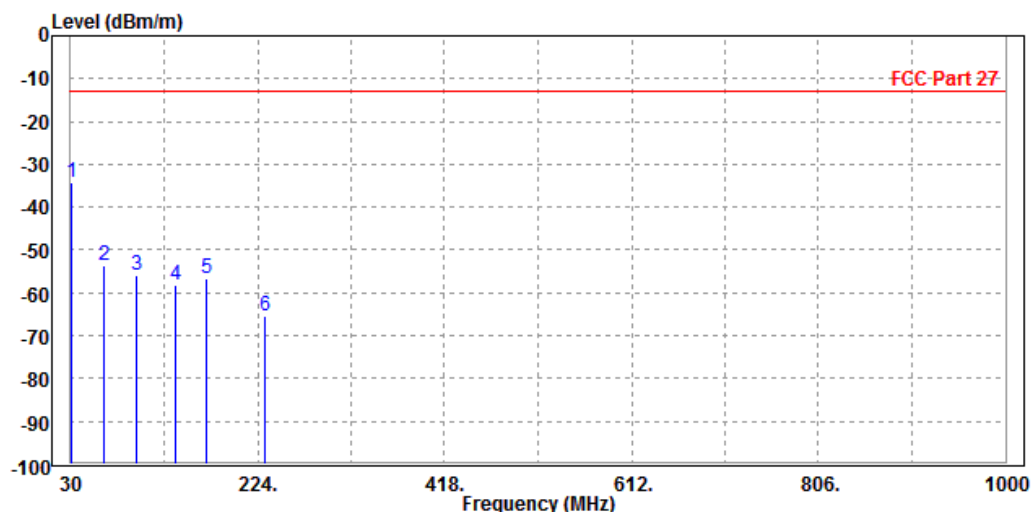
30 MHz – 1GHz data:

LTE BAND 4

CHANNEL BANDWIDTH: 10MHz / QPSK

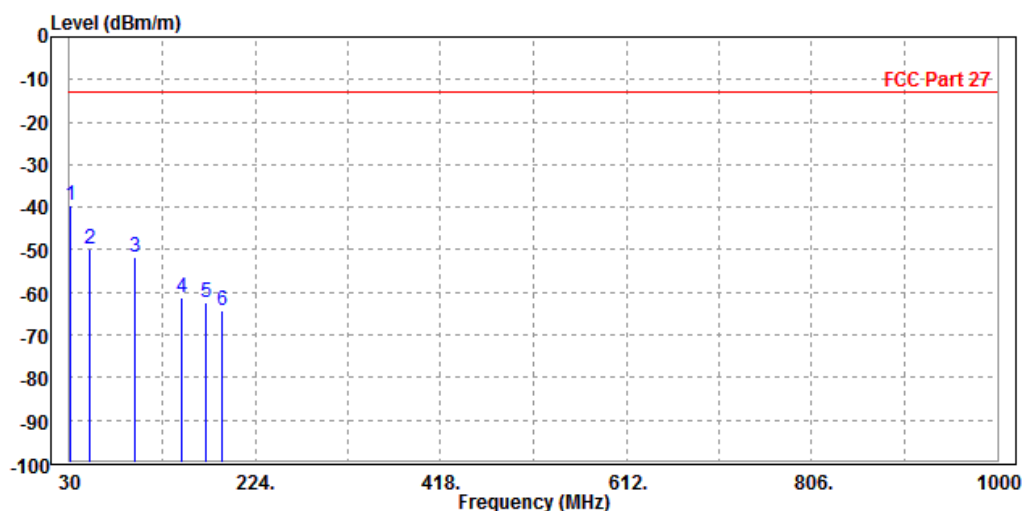
MODE	TX channel 20175	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	30.970	-34.18	-52.19	-13.00	-21.18	18.01	Peak	Horizontal
2	63.950	-53.71	-44.49	-13.00	-40.71	-9.22	Peak	Horizontal
3	97.900	-55.74	-45.03	-13.00	-42.74	-10.71	Peak	Horizontal
4	139.610	-58.13	-39.01	-13.00	-45.13	-19.12	Peak	Horizontal
5	171.620	-56.65	-38.59	-13.00	-43.65	-18.06	Peak	Horizontal
6	231.760	-65.46	-48.83	-13.00	-52.46	-16.63	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	30.970	-39.54	-43.58	-13.00	-26.54	4.04	Peak	Vertical
2		50.370	-49.95	-44.95	-13.00	-36.95	-5.00	Peak	Vertical
3		98.870	-51.86	-41.20	-13.00	-38.86	-10.66	Peak	Vertical
4		147.370	-61.17	-45.19	-13.00	-48.17	-15.98	Peak	Vertical
5		172.590	-62.28	-48.33	-13.00	-49.28	-13.95	Peak	Vertical
6		189.080	-64.39	-52.37	-13.00	-51.39	-12.02	Peak	Vertical



ABOVE 1GHz

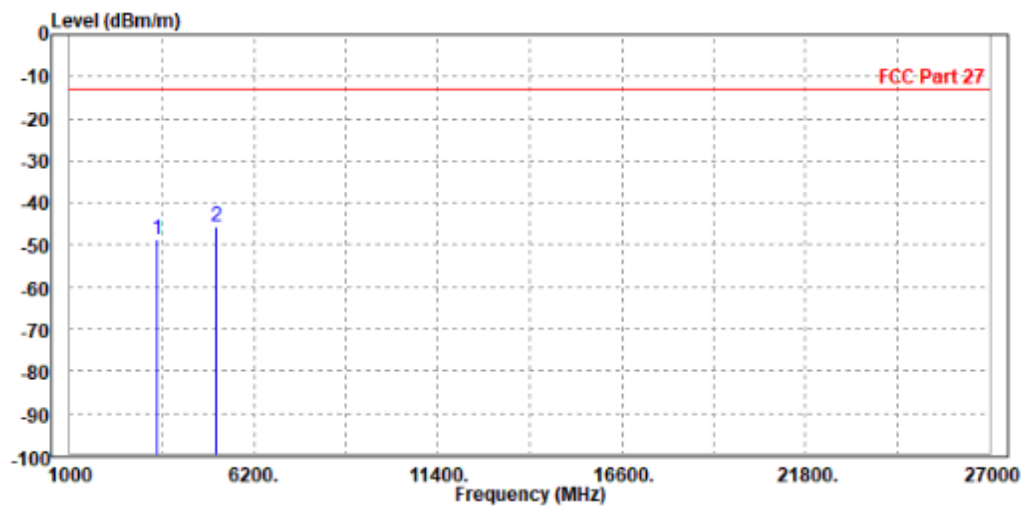
Note: For higher frequency, the emission is too low to be detected.

WCDMA Band IV:

CH 1312

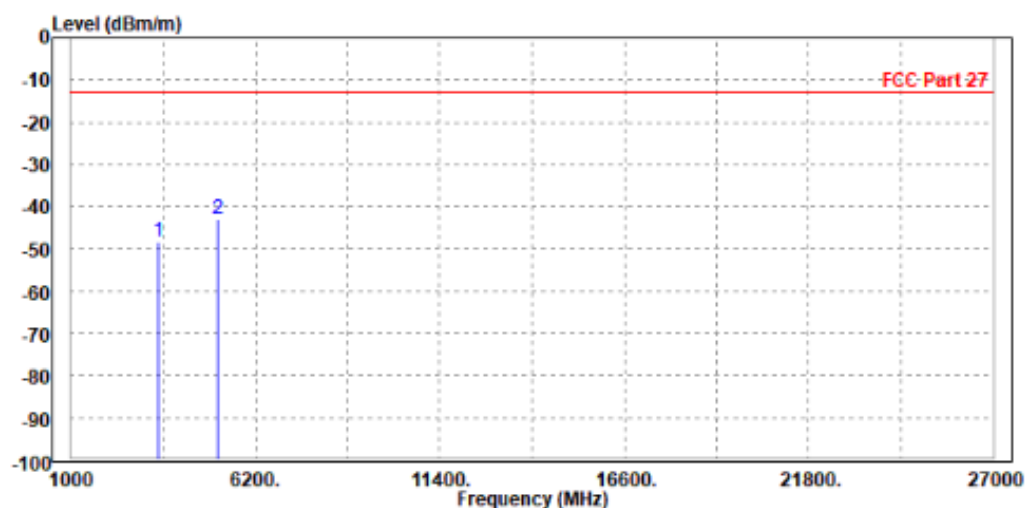
MODE	TX channel 1312	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3444.000	-48.72	-57.30	-13.00	-35.72	8.58	Peak	Horizontal
2 PP	5137.200	-45.77	-54.71	-13.00	-32.77	8.94	Peak	Horizontal



MODE	TX channel 1312	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

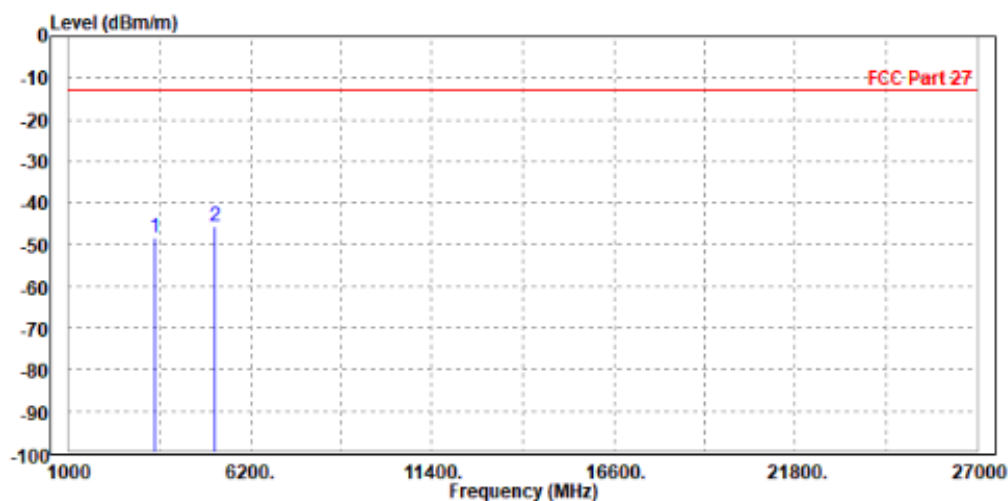
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3444.000	-48.43	-57.57	-13.00	-35.43	9.14	Peak	Vertical
2 PP	5137.200	-42.91	-52.76	-13.00	-29.91	9.85	Peak	Vertical



CH 1413

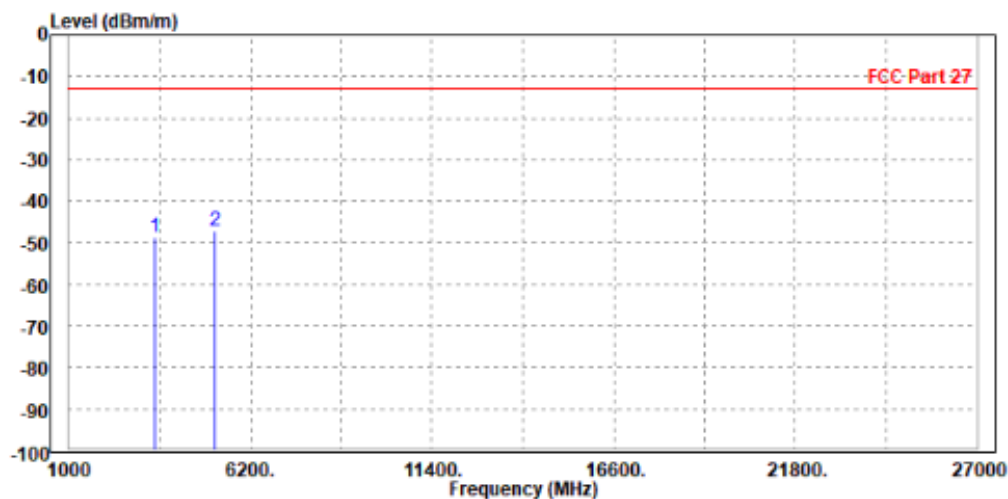
MODE	TX channel 1413	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-48.21	-56.79	-13.00	-35.21	8.58	Peak	Horizontal
2 PP	5197.800	-45.52	-54.64	-13.00	-32.52	9.12	Peak	Horizontal



MODE	TX channel 1413	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

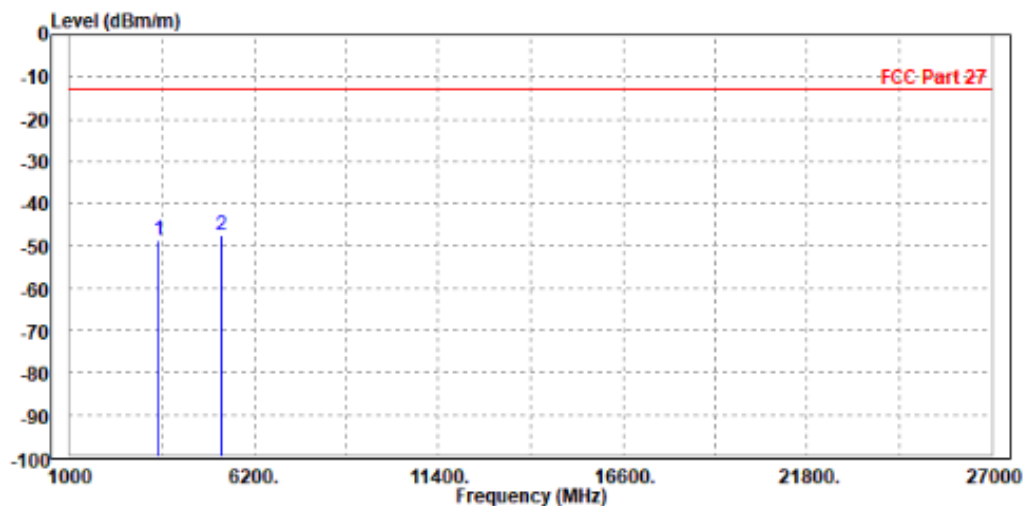
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-48.68	-57.84	-13.00	-35.68	9.16	Peak	Vertical
2 PP	5197.800	-47.07	-56.89	-13.00	-34.07	9.82	Peak	Vertical



CH 1513

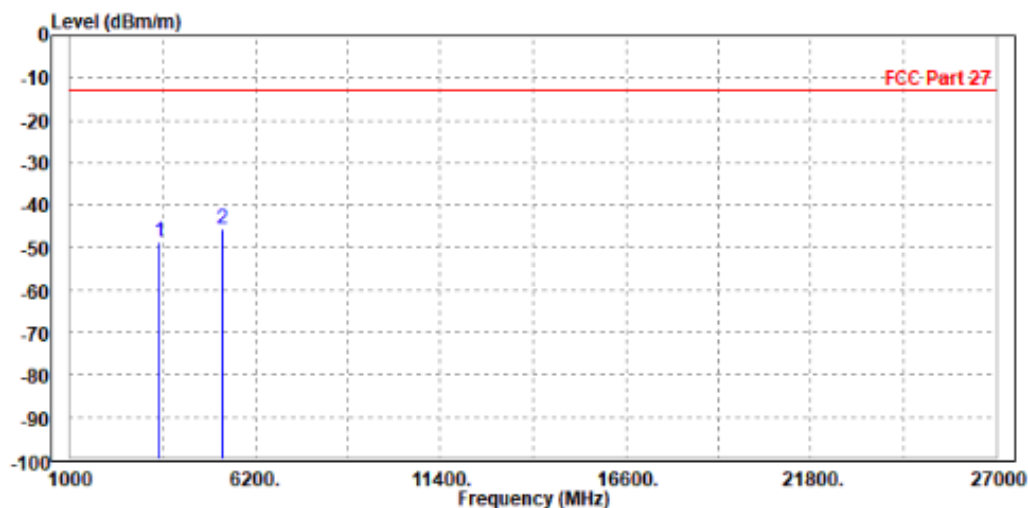
MODE	TX channel 1513	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3496.000	-48.72	-57.29	-13.00	-35.72	8.57	Peak	Horizontal
2 PP	5257.800	-47.42	-56.72	-13.00	-34.42	9.30	Peak	Horizontal



MODE	TX channel 1513	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	3496.000	-48.48	-57.67	-13.00	-35.48	9.19	Peak	Vertical
2 PP	5257.800	-45.74	-55.54	-13.00	-32.74	9.80	Peak	Vertical

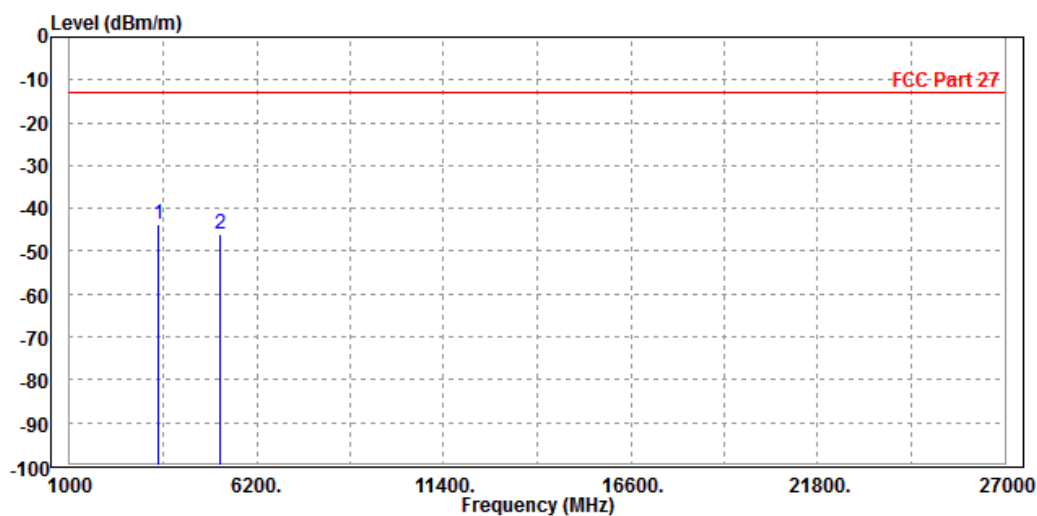


LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz / QPSK

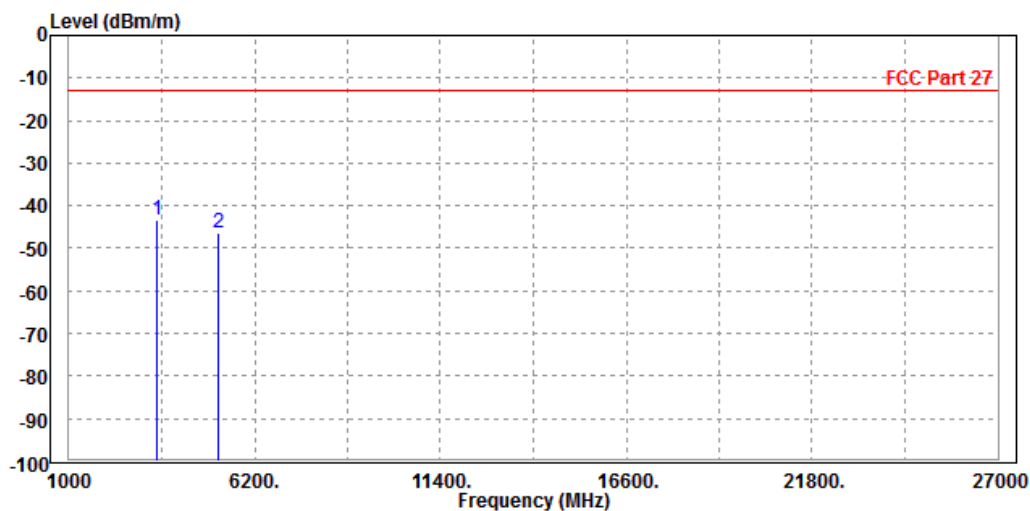
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	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	-43.60	-52.18	-13.00	-30.60	8.58	Peak	Horizontal
2	5197.500	-46.17	-55.29	-13.00	-33.17	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

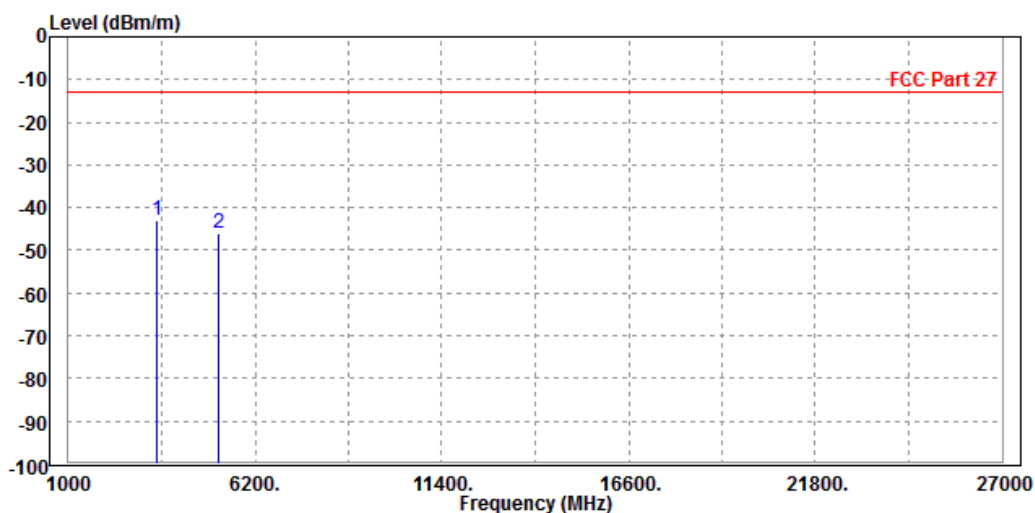
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3470.000	-43.18	-52.34	-13.00	-30.18	9.16	Peak	Vertical
2	5197.500	-46.23	-56.05	-13.00	-33.23	9.82	Peak	Vertical



CHANNEL BANDWIDTH: 3MHz / QPSK

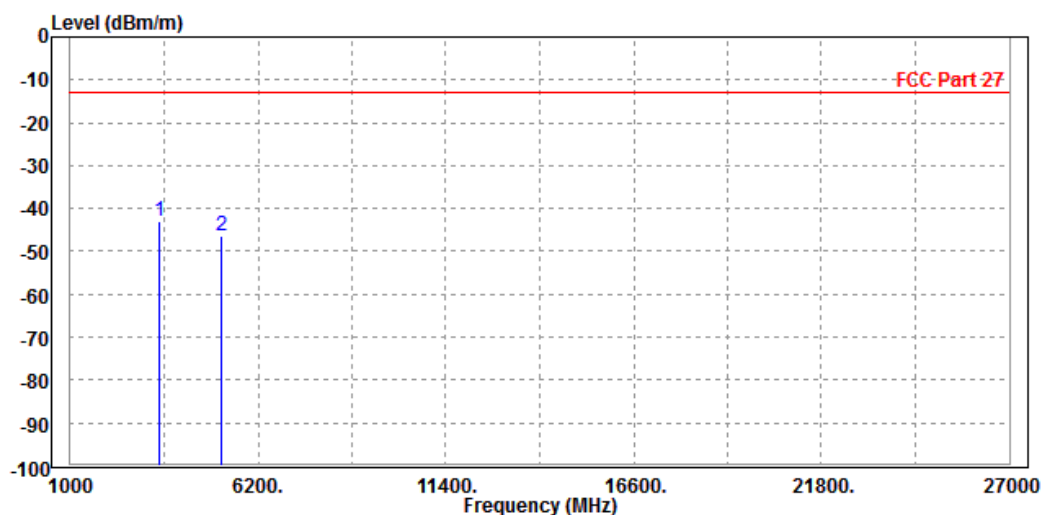
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	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	-42.90	-51.48	-13.00	-29.90	8.58	Peak	Horizontal
2	5197.500	-46.00	-55.12	-13.00	-33.00	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

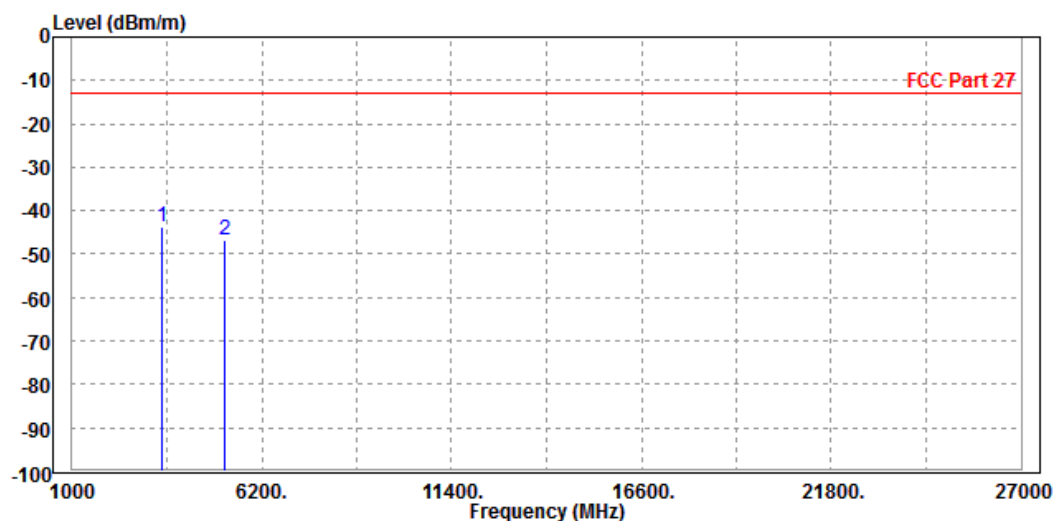
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3470.000	-42.97	-52.13	-13.00	-29.97	9.16	Peak	Vertical
2	5197.500	-46.46	-56.28	-13.00	-33.46	9.82	Peak	Vertical



CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-43.54	-52.12	-13.00	-30.54	8.58	Peak	Horizontal
2	5197.500	-46.63	-55.75	-13.00	-33.63	9.12	Peak	Horizontal

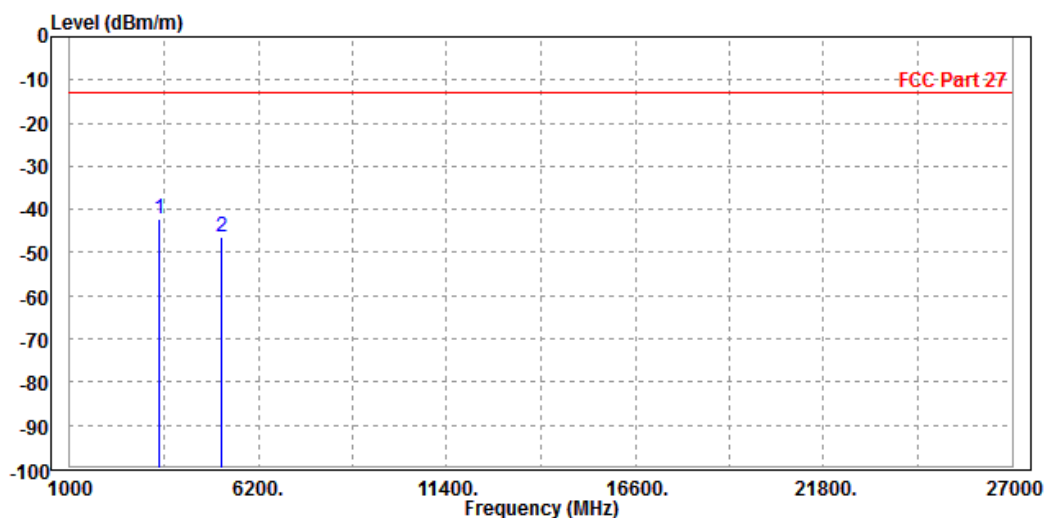




Test Report No.: RF191023W005-4

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-42.09	-51.25	-13.00	-29.09	9.16	Peak	Vertical
2		5197.500	-46.32	-56.14	-13.00	-33.32	9.82	Peak	Vertical

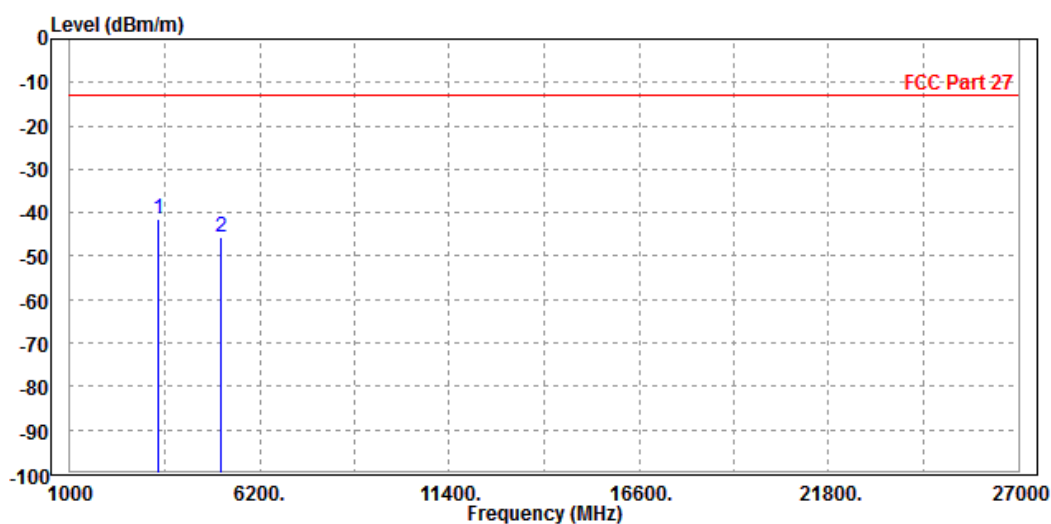


CHANNEL BANDWIDTH: 10MHz / QPSK

CH 20000

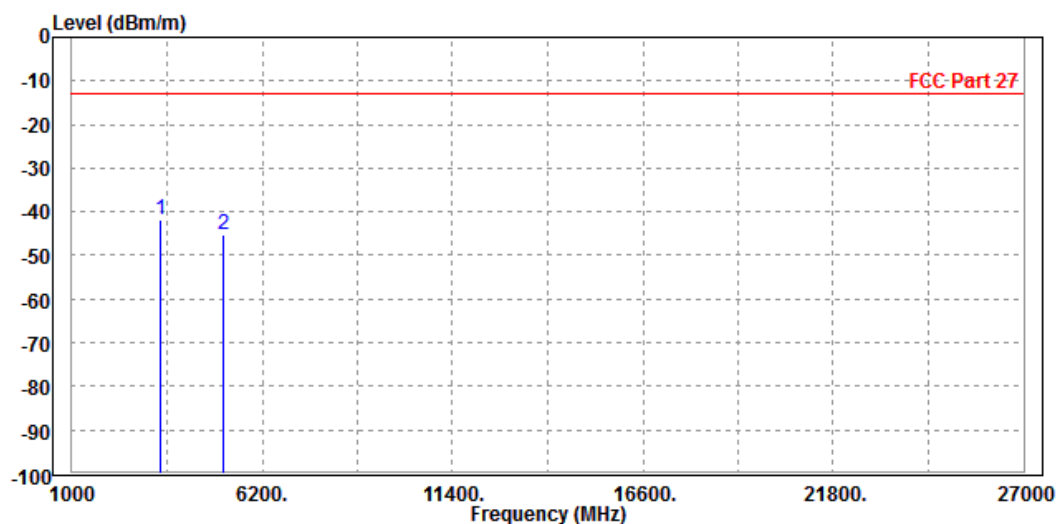
MODE	TX channel 20000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3418.000	-41.57	-50.16	-13.00	-28.57	8.59	Peak	Horizontal
2	5145.000	-45.76	-54.72	-13.00	-32.76	8.96	Peak	Horizontal



MODE	TX channel 20000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-41.91	-51.02	-13.00	-28.91	9.11	Peak	Vertical
2	5145.000	-45.34	-55.18	-13.00	-32.34	9.84	Peak	Vertical

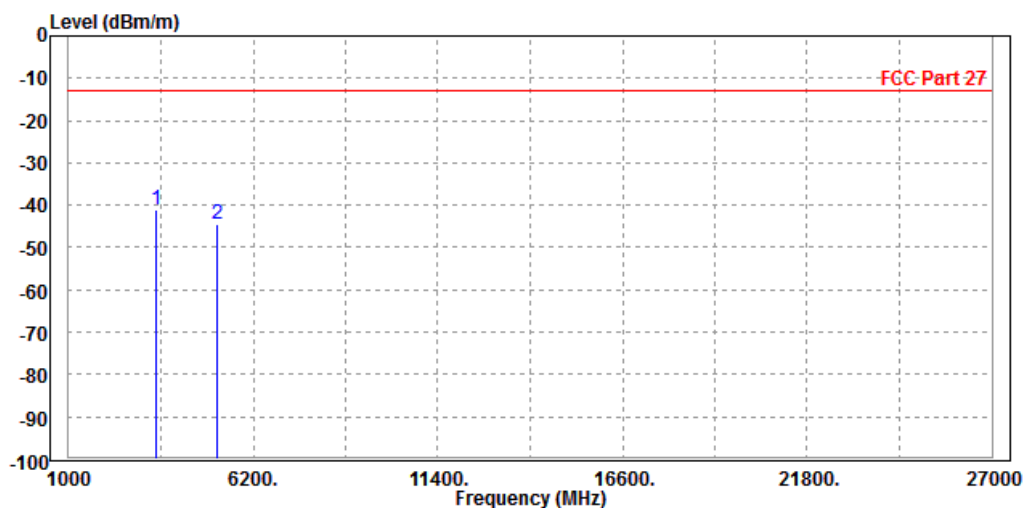


CH 20175

CH 20175

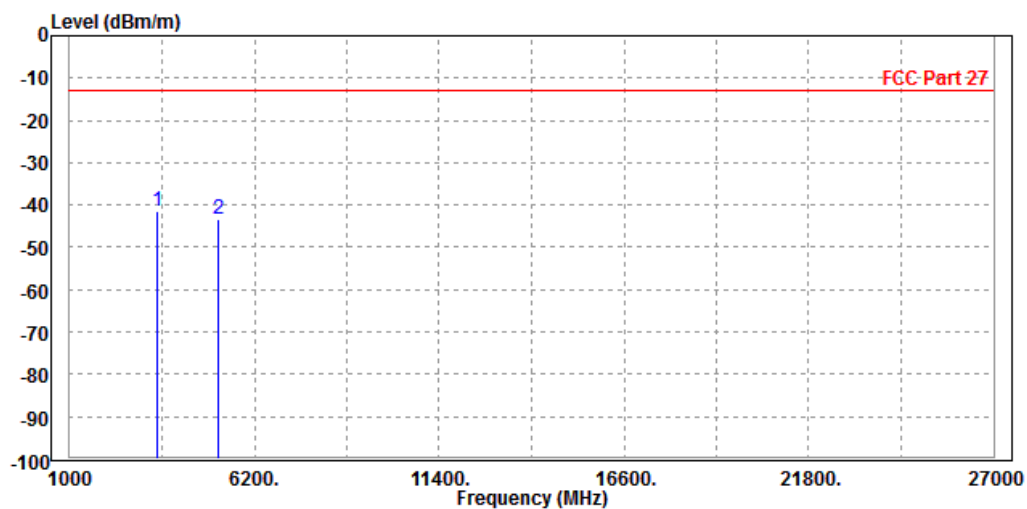
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	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	-41.05	-49.63	-13.00	-28.05	8.58	Peak	Horizontal
2	5197.500	-44.66	-53.78	-13.00	-31.66	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

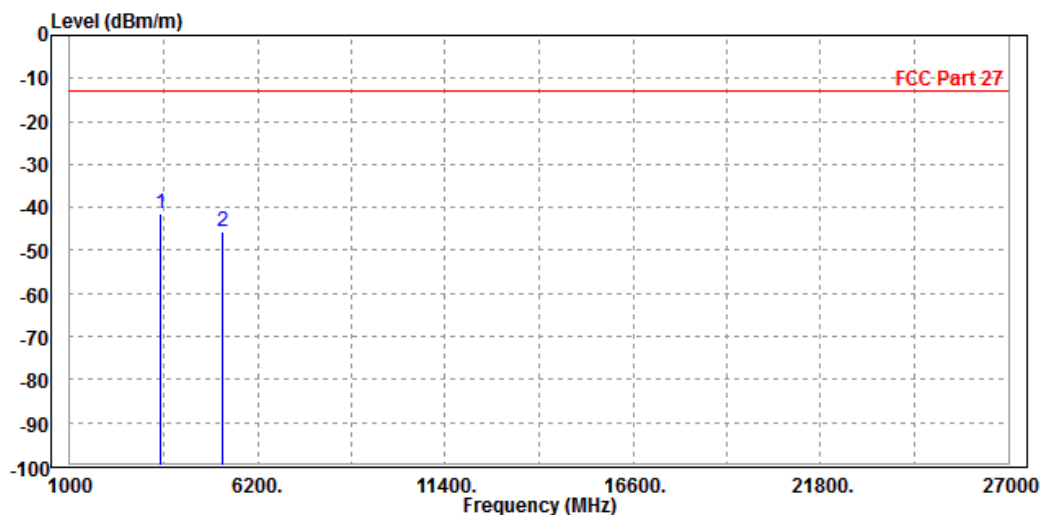
		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3470.000	-41.47	-50.63	-13.00	-28.47	9.16	Peak	Vertical
2		5197.500	-43.39	-53.21	-13.00	-30.39	9.82	Peak	Vertical



CH 20350

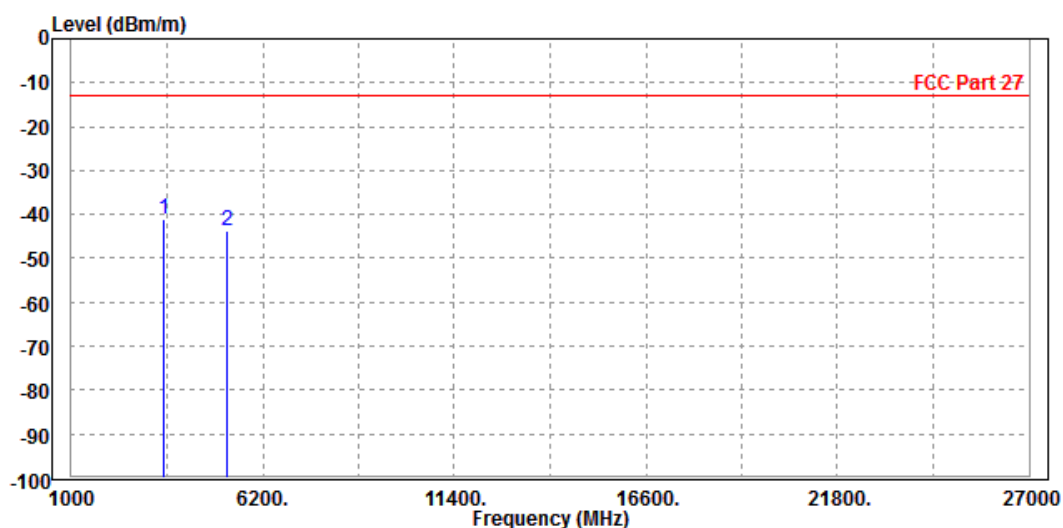
MODE	TX channel 20350	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	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	-41.57	-50.14	-13.00	-28.57	8.57	Peak	Horizontal
2	5250.000	-45.49	-54.76	-13.00	-32.49	9.27	Peak	Horizontal



MODE	TX channel 20350	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

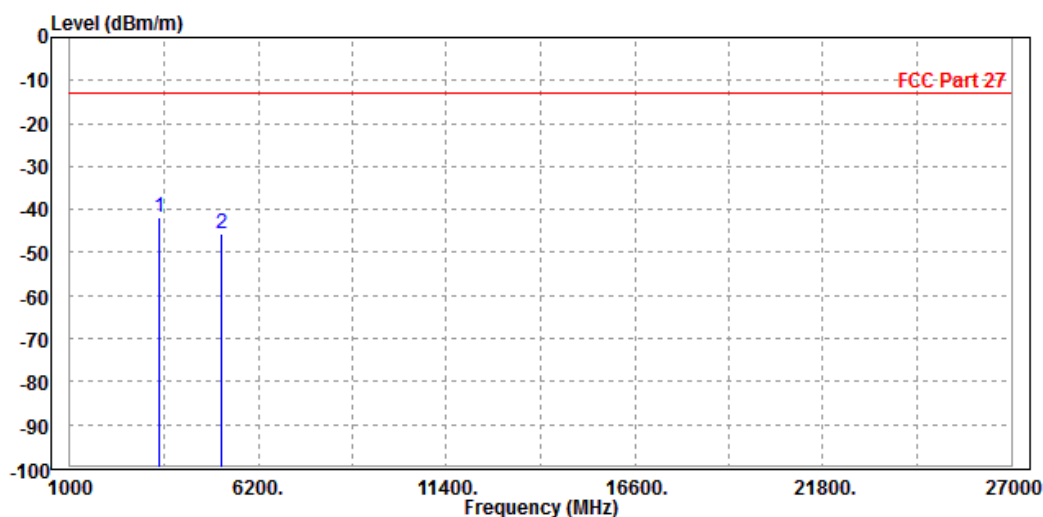
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3496.000	-41.05	-50.24	-13.00	-28.05	9.19	Peak	Vertical
2	5250.000	-43.89	-53.69	-13.00	-30.89	9.80	Peak	Vertical



CHANNEL BANDWIDTH: 15MHz / QPSK

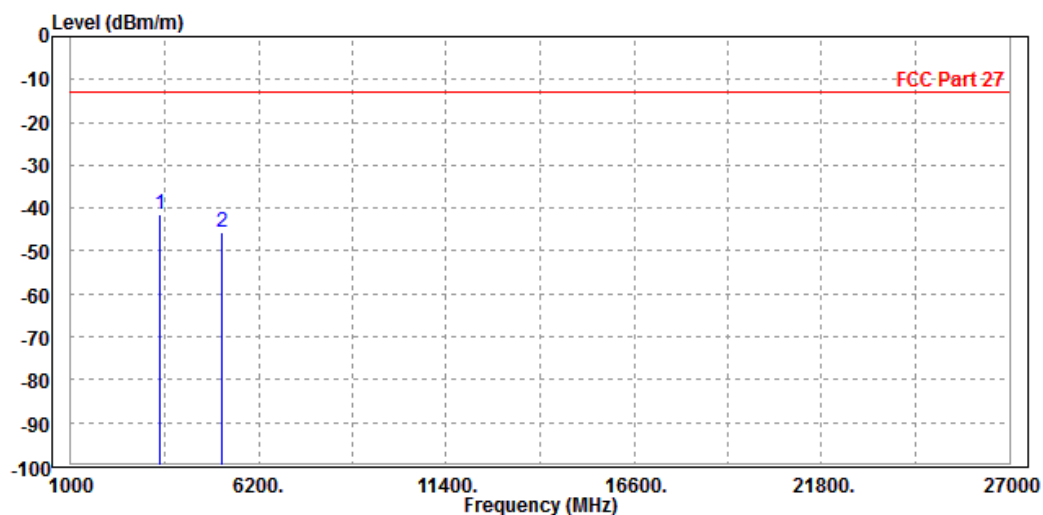
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	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	-41.74	-50.32	-13.00	-28.74	8.58	Peak	Horizontal
2	5197.500	-45.77	-54.89	-13.00	-32.77	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

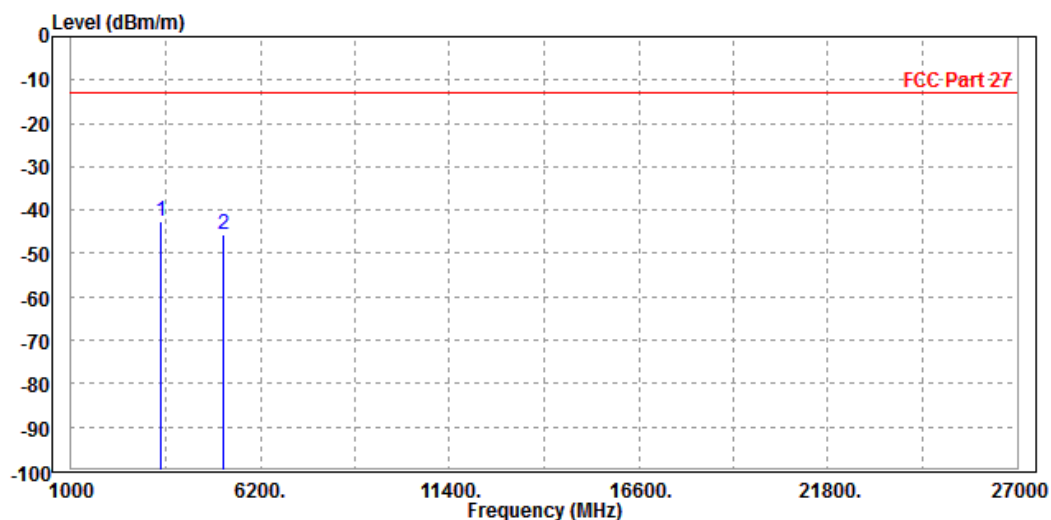
		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3470.000	-41.62	-50.78	-13.00	-28.62	9.16	Peak	Vertical
2		5197.500	-45.54	-55.36	-13.00	-32.54	9.82	Peak	Vertical



CHANNEL BANDWIDTH: 20MHz / QPSK

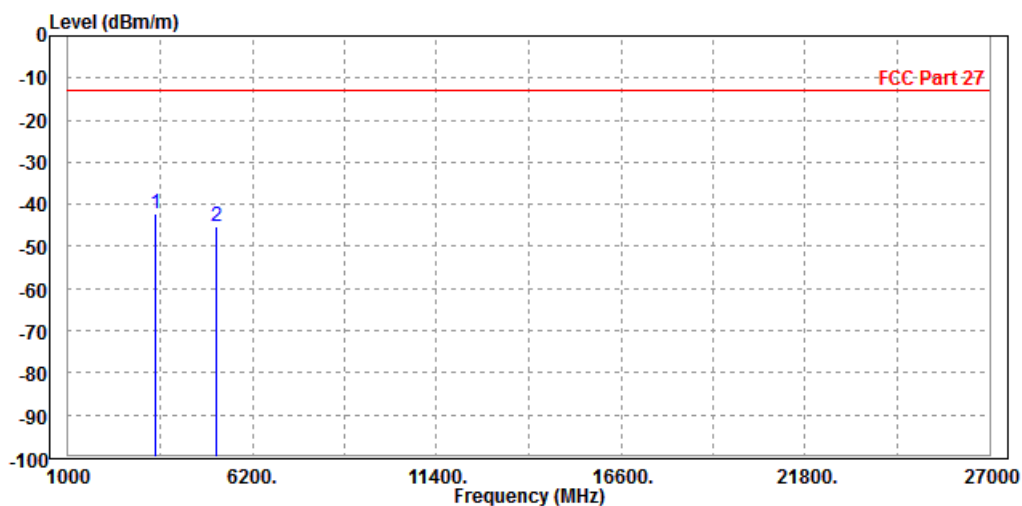
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		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	-42.69	-51.27	-13.00	-29.69	8.58	Peak	Horizontal
2		5197.500	-45.64	-54.76	-13.00	-32.64	9.12	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-42.07	-51.23	-13.00	-29.07	9.16	Peak	Vertical
2	5197.500	-45.30	-55.12	-13.00	-32.30	9.82	Peak	Vertical

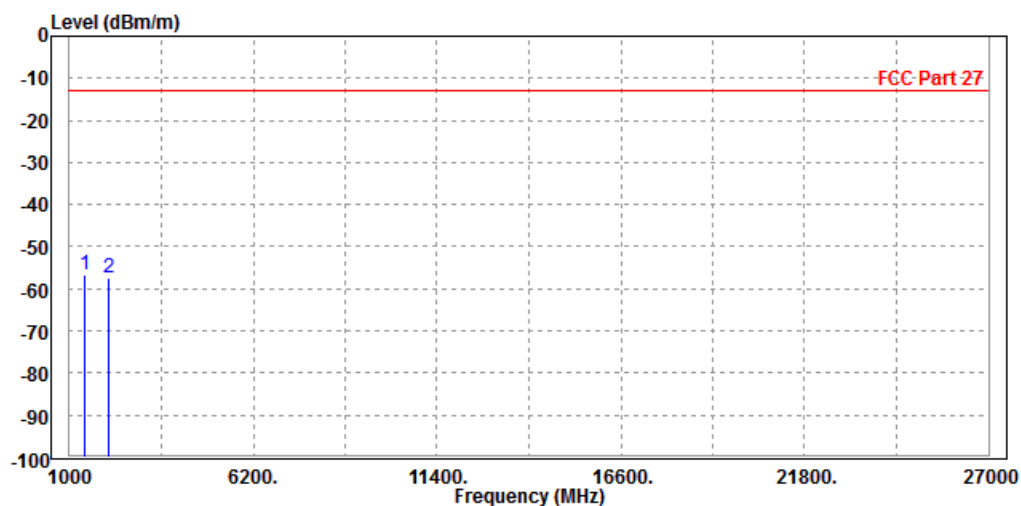


LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz / QPSK

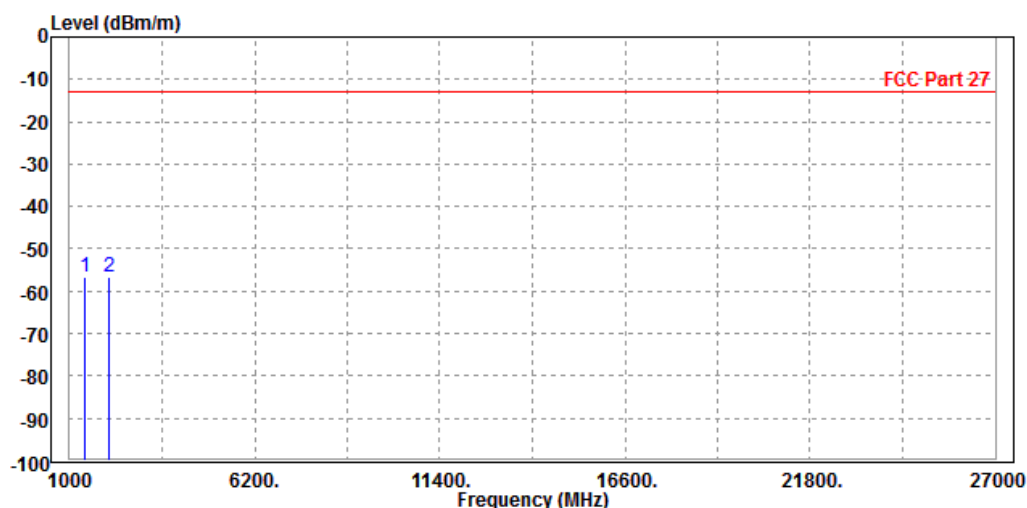
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1416.000	-56.84	-50.12	-13.00	-43.84	-6.72	Peak	Horizontal
2	2122.500	-57.28	-55.35	-13.00	-44.28	-1.93	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-56.68	-51.24	-13.00	-43.68	-5.44	Peak	Vertical
2 PP	2122.500	-56.56	-56.32	-13.00	-43.56	-0.24	Peak	Vertical

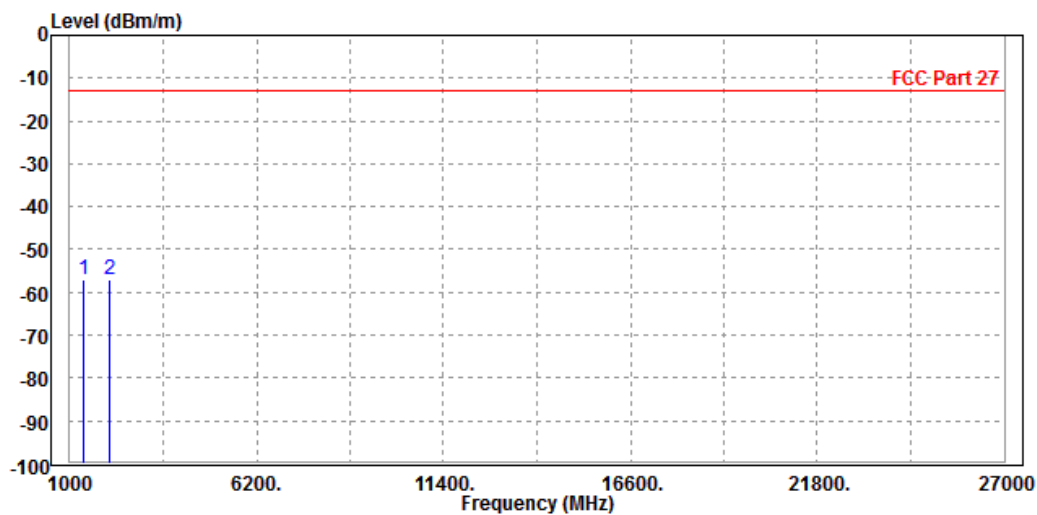


CHANNEL BANDWIDTH: 3MHz / QPSK

CH 23025

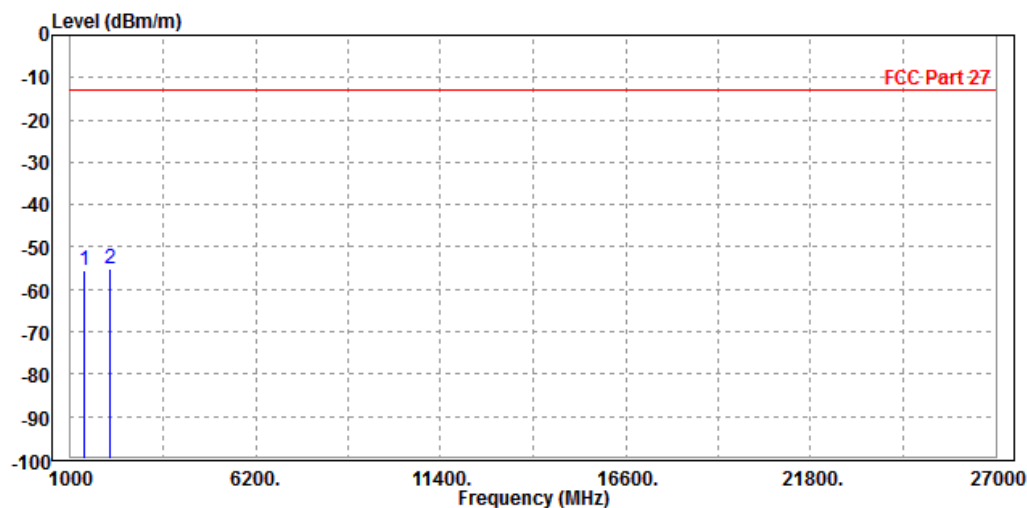
MODE	TX channel 23025	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		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	-56.96	-50.08	-13.00	-43.96	-6.88	Peak	Horizontal
2		2101.500	-57.18	-55.23	-13.00	-44.18	-1.95	Peak	Horizontal



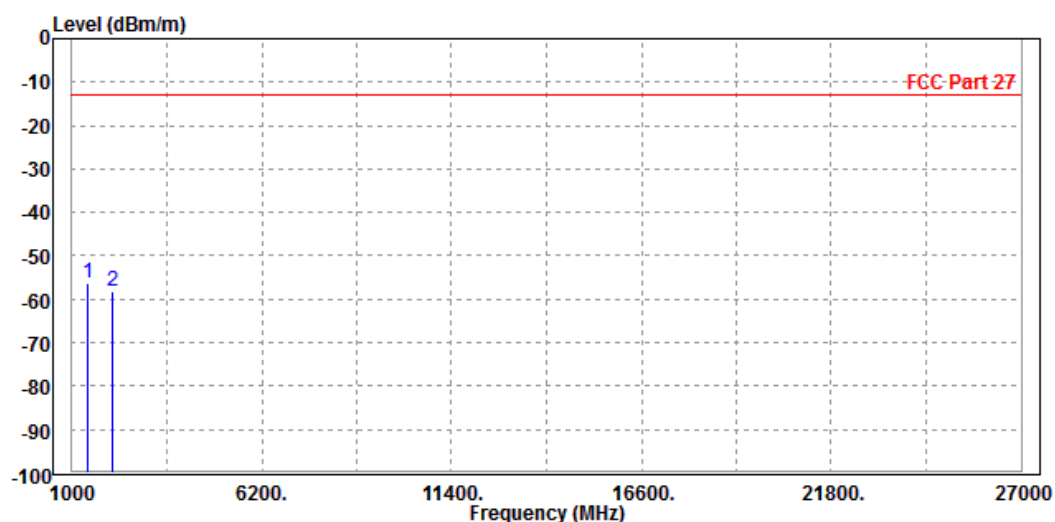
MODE	TX channel 23025	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1390.000	-55.46	-49.86	-13.00	-42.46	-5.60	Peak	Vertical
2 PP	2101.500	-54.96	-54.71	-13.00	-41.96	-0.25	Peak	Vertical



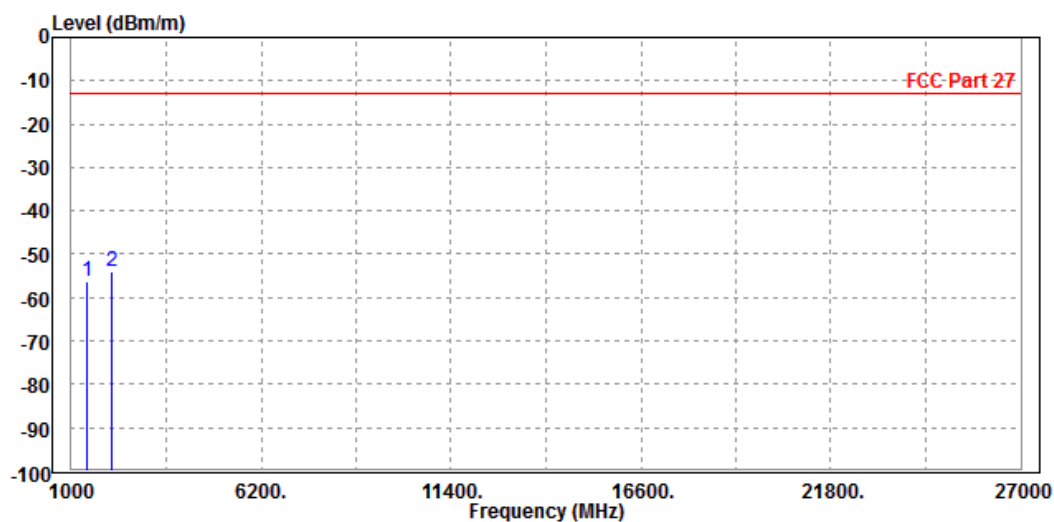
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1416.000	-56.35	-49.63	-13.00	-43.35	-6.72	Peak	Horizontal
2		2122.500	-58.05	-56.12	-13.00	-45.05	-1.93	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

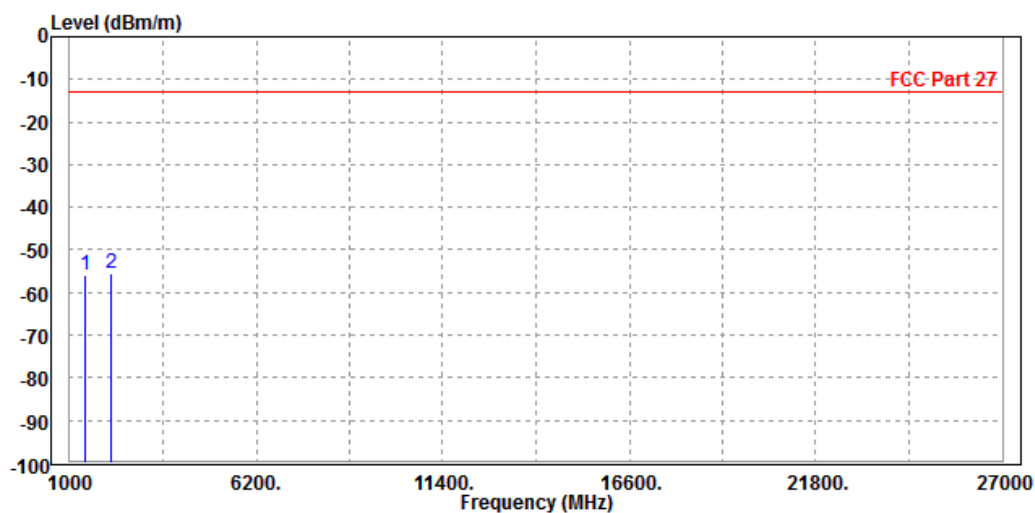
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1416.000	-56.13	-50.69	-13.00	-43.13	-5.44	Peak	Vertical
2 PP	2122.500	-53.99	-53.75	-13.00	-40.99	-0.24	Peak	Vertical



CH 23165

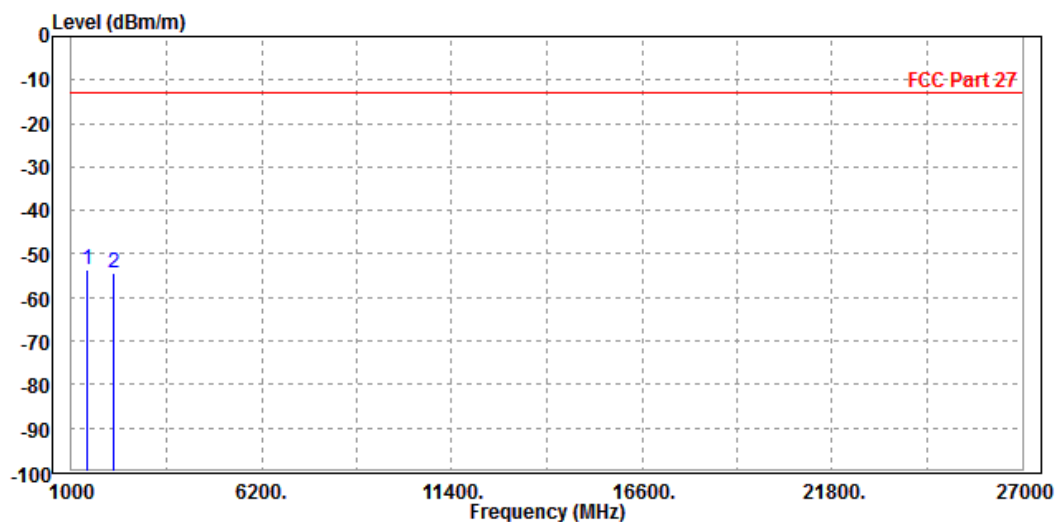
MODE	TX channel 23165	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1416.000	-56.03	-49.31	-13.00	-43.03	-6.72	Peak	Horizontal
2 PP	2143.500	-55.34	-53.42	-13.00	-42.34	-1.92	Peak	Horizontal



MODE	TX channel 23165	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

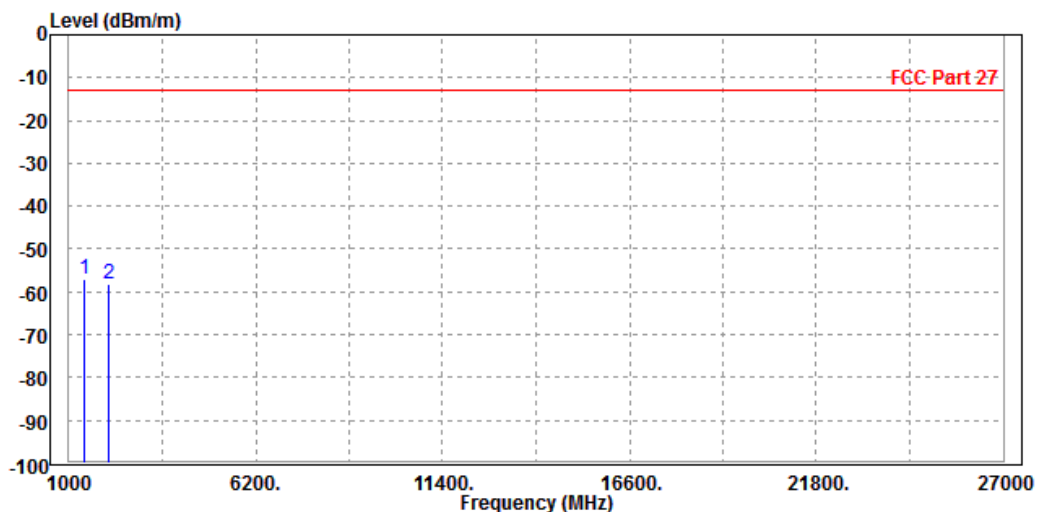
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1416.000	-53.56	-48.12	-13.00	-40.56	-5.44	Peak	Vertical
2	2143.500	-54.47	-54.23	-13.00	-41.47	-0.24	Peak	Vertical



CHANNEL BANDWIDTH: 5MHz / QPSK

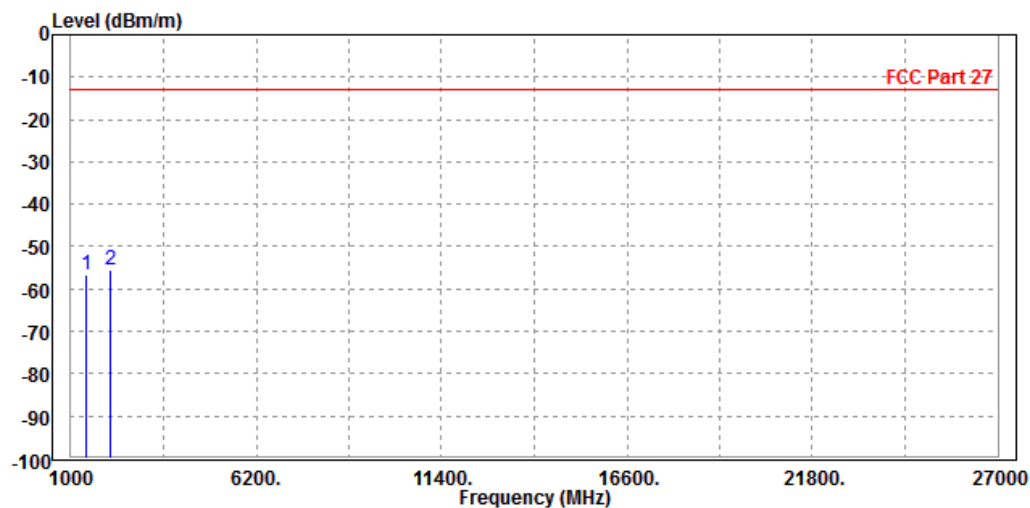
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1416.000	-57.00	-50.28	-13.00	-44.00	-6.72	Peak	Horizontal
2	2122.500	-58.07	-56.14	-13.00	-45.07	-1.93	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

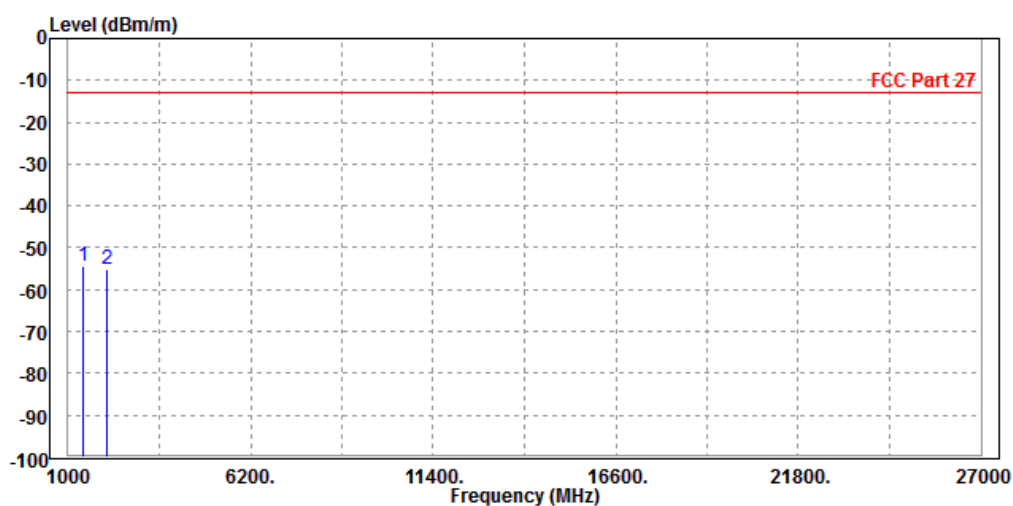
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1416.000	-56.50	-51.06	-13.00	-43.50	-5.44	Peak	Vertical
2 PP	2122.500	-55.47	-55.23	-13.00	-42.47	-0.24	Peak	Vertical



CHANNEL BANDWIDTH: 10MHz / QPSK

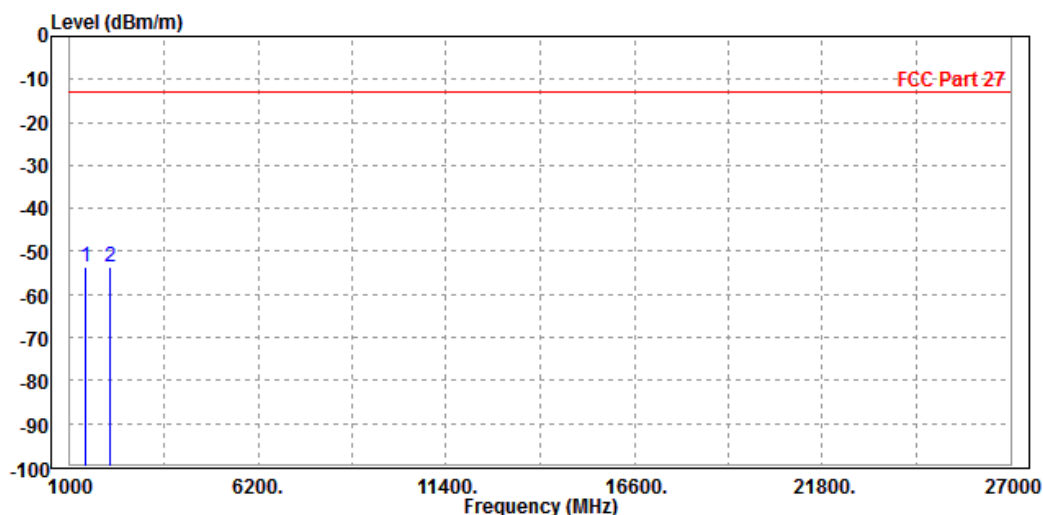
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1416.000	-54.26	-55.34	-13.00	-41.26	1.08	Peak	Horizontal
2		2122.500	-55.10	-62.77	-13.00	-42.10	7.67	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-53.64	-55.33	-13.00	-40.64	1.69	Peak	Vertical
2	PP 2122.500	-53.54	-60.23	-13.00	-40.54	6.69	Peak	Vertical





Test Report No.: RF191023W005-4

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:

Shenzhen EMC/RF Lab:

Tel: +86-755-88696566

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.



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5 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---