

FCC TEST REPORT

(PART 24)

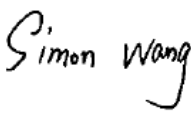
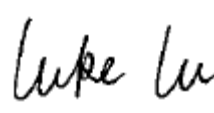
Applicant:	Particle Industries, Inc
Address:	325 9th Street, San Francisco, CA 94103, United States Of America

Manufacturer or Supplier:	Particle Industries, Inc
Address:	325 9th Street, San Francisco, CA 94103, United States Of America
Product:	B SoM
Brand Name:	Particle
Model Name:	B504
FCC ID:	2AEMI-B504
Date of tests:	Jun. 05, 2024 ~ Jun. 20, 2024

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

☒ **FCC PART 24, Subpart E** ☒ **FCC PART 2**
☒ **ANSI/TIA/EIA-603-D** ☒ **ANSI/TIA/EIA-603-E** ☒ **ANSI C63.26-2015**

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

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
	
Date: Jun. 20, 2024	Date: Jun. 20, 2024

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Test Report No.: W7L-P24060002RF02

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P24060002RF02	Original release	Jun. 20, 2024

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 24 & Part 2		
STANDARD SECTION	TEST TYPE	RESULT
§2.1046	Conducted Output Power	Compliance
§24.232(c)	Equivalent Isotropic Radiated Power	Compliance
§2.1055 §24.235	Frequency Stability	See note
§2.1049	Occupied Bandwidth	See note
§24.232(d)	Peak to average ratio	See note
§24.238(a)(b)	Band Edge Measurements	See note
§2.1051 §24.238(a)(b)	Conducted Spurious Emissions	See note
§2.1053 §24.238(a)(b)	Radiated Spurious Emissions	Compliance

NOTE: please refer to the module report R1907A0406-R2/ R1907A0406-R6(FCC-ID: XMR201909EG91NAX)

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
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions & Radiated Power (30MHz~1GHz)	±4.98dB
Radiated emissions & Radiated Power (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted Output power	±2.06dB

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	Mar. 28,24	Mar. 27,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.09,24	May.08,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,23	Sep.02,24
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Feb. 18,24	Feb. 17,25
Horn Antenna	ETS-LINDGRE N	3117	00168692	Feb. 18,24	Feb. 17,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Sep.04, 23	Sep.03, 24
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,24	Feb. 13,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 05,24	May. 04,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.09,24	May.08,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,24	Feb.16,25
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	Euroshieldpn- CT0001143-121 6	Nov. 14,23	Nov. 13,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 05,24	May. 04,25
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,24	Feb. 13,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,24	Feb. 13,25
Temperature Chamber	ESPEC	SH-242	93000855	May. 05,24	May. 04,25
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14,24	Feb. 13,25
Base station R&S CMW500	Rohde&Schwa rz	CMW500	153085	May.09,24	May.08,25
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 11,23	Aug. 10,24

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

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	B SoM	
BRAND NAME	Particle	
MODEL NAME	B504	
NOMINAL VOLTAGE	VCC: 3.8V. 3V3:3.3V	
MODULATION TYPE	WCDMA: BPSK, QPSK LTE Band 2/25: QPSK, 16QAM	
FREQUENCY RANGE	WCDMA	1852.4MHz ~ 1907.6MHz
	LTE Band 2 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1909.3MHz
	LTE Band 2 Channel Bandwidth: 3MHz	1851.5MHz ~ 1908.5MHz
	LTE Band 2 Channel Bandwidth: 5MHz	1852.5MHz ~ 1907.5MHz
	LTE Band 2 Channel Bandwidth: 10MHz	1855.0MHz ~ 1905.0MHz
	LTE Band 2 Channel Bandwidth: 15MHz	1857.5MHz ~ 1902.5MHz
	LTE Band 2 Channel Bandwidth: 20MHz	1860.0MHz ~ 1900.0MHz
	LTE Band 25 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1914.3MHz
	LTE Band 25 Channel Bandwidth: 3MHz	1851.5MHz ~ 1913.5MHz
	LTE Band 25 Channel Bandwidth: 5MHz	1852.5MHz ~ 1912.5MHz
	LTE Band 25 Channel Bandwidth: 10MHz	1855.0MHz ~ 1910.0MHz
	LTE Band 25 Channel Bandwidth: 15MHz	1857.5MHz ~ 1907.5MHz
	LTE Band 25 Channel Bandwidth: 20MHz	1860.0MHz ~ 1905.0MHz

MAX. EIRP POWER	WCDMA	721.11mW
	LTE Band 2 Channel Bandwidth: 1.4MHz	770.9mW
	LTE Band 2 Channel Bandwidth: 3MHz	753.36mW
	LTE Band 2 Channel Bandwidth: 5MHz	767.36mW
	LTE Band 2 Channel Bandwidth: 10MHz	760.33mW
	LTE Band 2 Channel Bandwidth: 15MHz	751.62mW
	LTE Band 2 Channel Bandwidth: 20MHz	776.25mW
	LTE Band 25 Channel Bandwidth: 1.4MHz	781.63mW
	LTE Band 25 Channel Bandwidth: 3MHz	778.04mW
	LTE Band 25 Channel Bandwidth: 5MHz	788.86mW
	LTE Band 25 Channel Bandwidth: 10MHz	779.83mW
	LTE Band 25 Channel Bandwidth: 15MHz	796.16mW
	LTE Band 25 Channel Bandwidth: 20MHz	797.99mW
EMISSION DESIGNATOR	WCDMA	4M12F9W
	LTE Band 2 Channel Bandwidth: 1.4MHz	QPSK: 1M13G7D 16QAM: 333KW7D
	LTE Band 2 Channel Bandwidth: 3MHz	QPSK: 2M74G7D 16QAM: 411KW7D
	LTE Band 2 Channel Bandwidth: 5MHz	QPSK: 4M53G7D 16QAM: 497KW7D
	LTE Band 2 Channel Bandwidth: 10MHz	QPSK: 9M05G7D 16QAM: 915KW7D
	LTE Band 2 Channel Bandwidth: 15MHz	QPSK: 13M5G7D 16QAM: 1M17W7D



EMISSION DESIGNATOR	LTE Band 2 Channel Bandwidth: 20MHz	QPSK: 17M9G7D 16QAM: 1M26W7D
	LTE Band 25 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D 16QAM: 1M10W7D
	LTE Band 25 Channel Bandwidth: 3MHz	QPSK: 2M72G7D 16QAM: 2M70W7D
	LTE Band 25 Channel Bandwidth: 5MHz	QPSK: 4M52G7D 16QAM: 4M53W7D
	LTE Band 25 Channel Bandwidth: 10MHz	QPSK: 8M99G7D 16QAM: 4M75W7D
	LTE Band 25 Channel Bandwidth: 15MHz	QPSK: 13M4G7D 16QAM: 1M14W7D
	LTE Band 25 Channel Bandwidth: 20MHz	QPSK: 17M9G7D 16QAM: 1M23W7D
ANTENNA TYPE	FPC Antenna with 5.3dBi gain for WCDMA II/LTE B2/B25	
HW VERSION	R1.0	
SW VERSION	EG91NAXGAR07A03M1G	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	
EXTREME TEMPERATURE	-35-75 °C	
EXTREME VOLTAGE	VCC: 3.3V. 3V3:3.0V - VCC: 4.3V. 3V3:3.6V	

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

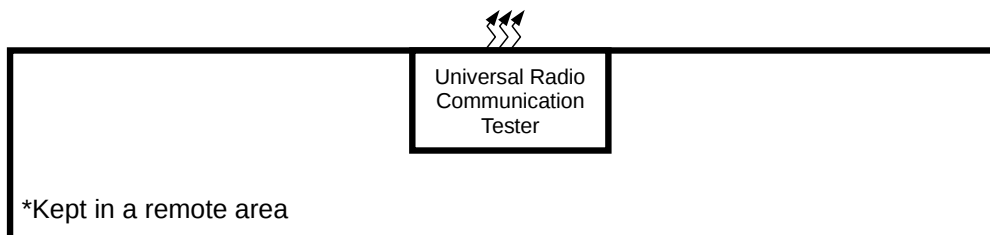
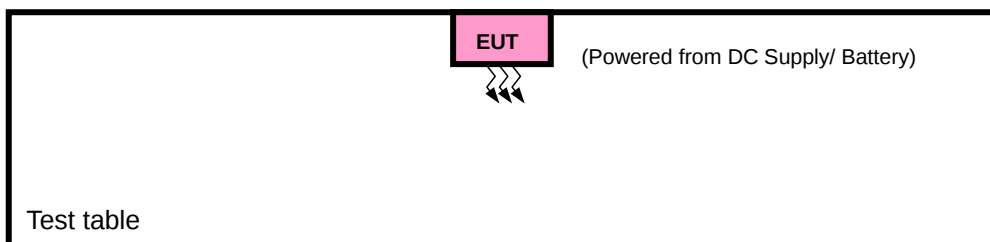
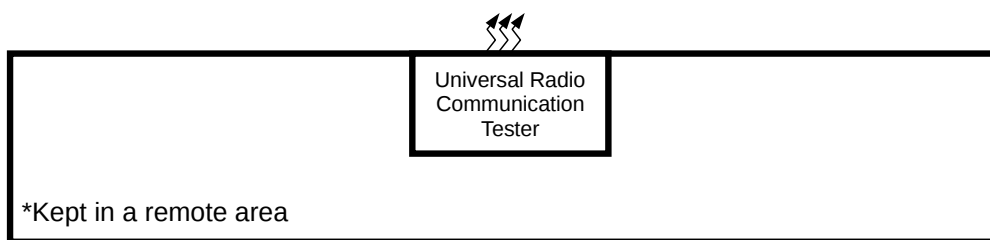
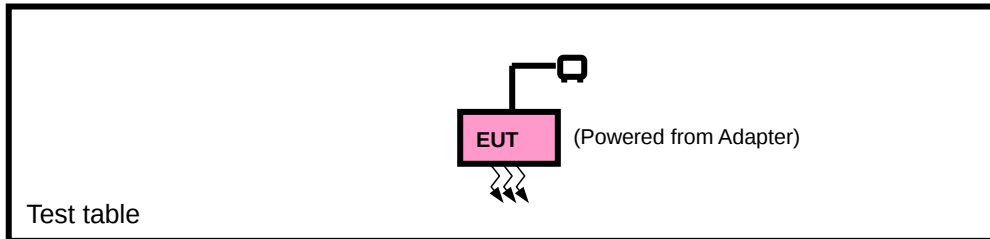
MODULATION MODE	TX FUNCTION
WCDMA	1TX/1RX
LTE	1TX/1RX

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.



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	DC source	Kikusui/JP	PMX18-5A	0000001	N/A

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

2.4 TEST ITEM AND TEST CONFIGURATION

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

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with WCDMA or LTE link

WCDMA

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
A	RADIATED EMISSION	9262 to 9538	9262, 9400, 9538	WCDMA

LTE BAND 2 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset

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

2. LTE Band 2 are covered by LTE Band 25, Because it is a subset of LTE Band 25 with the same output power and supported bandwidths, So RSE test data please refer to LTE Band 25

LTE BAND 25 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK	1 RB / 0 RB Offset
		26055 to 26675	26365	3MHz	QPSK	1 RB / 0 RB Offset
		26065 to 26665	26365	5MHz	QPSK	1 RB / 0 RB Offset
		26090 to 26640	26365	10MHz	QPSK	1 RB / 0 RB Offset
		26115 to 26615	26365	15MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26365	20MHz	QPSK	1 RB / 0 RB Offset

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

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP	25deg. C, 57%RH	AC 120V/60HZ	Jace Hu
RADIATED EMISSION	23deg. C, 70%RH	AC 120V/60HZ	Jace Hu

2.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

2.6 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 24

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

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

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile and portable stations are limited to 2 watts 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.

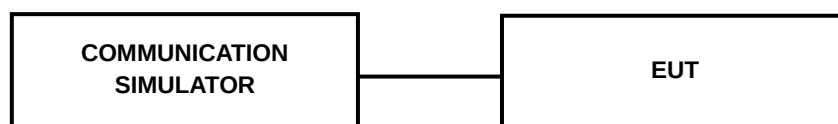
CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with WCDMA 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

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	WCDMA II		
TX Channel	9262	9400	9538
Rx Channel	9662	9800	9938
Frequency (MHz)	1852.4	1880	1907.6
RMC 12.2K	23.28	23.13	23.16
HSDPA Subtest-1	22.31	22.12	22.20
HSDPA Subtest-2	22.26	22.13	22.16
HSDPA Subtest-3	21.85	21.69	21.70
HSDPA Subtest-4	21.80	21.66	21.73
DC-HSDPA Subtest-1	22.26	22.15	22.16
DC-HSDPA Subtest-2	22.28	22.11	22.13
DC-HSDPA Subtest-3	21.76	21.66	21.66
DC-HSDPA Subtest-4	21.76	21.64	21.66
HSUPA Subtest-1	22.33	22.14	22.17
HSUPA Subtest-2	20.36	20.22	20.24
HSUPA Subtest-3	21.33	21.16	21.20
HSUPA Subtest-4	20.31	20.20	20.22
HSUPA Subtest-5	22.29	22.13	22.18



LTE BAND 2

LTE Band 2						
BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	23.49	23.29	23.60
		1	50	23.40	23.10	23.53
		1	99	23.30	23.04	23.32
		50	0	22.12	21.91	22.27
		50	25	22.35	22.02	22.44
		50	50	22.09	21.78	22.12
		100	0	22.10	21.85	22.19
	16QAM	1	0	22.22	22.00	22.40
		1	50	22.15	22.02	22.33
		1	99	21.96	21.70	22.10
		12	0	22.23	21.97	22.34
		12	42	22.36	22.20	22.44
		12	86	22.27	22.03	22.43
		27	0	21.05	20.83	21.06
BW	Modulation	Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	23.34	23.20	23.46
		1	37	23.32	22.97	23.44
		1	74	23.25	22.97	23.21
		36	0	22.03	21.83	22.23
		36	19	22.28	21.92	22.32
		36	39	22.02	21.75	22.01
		75	0	21.96	21.78	22.16
	16QAM	1	0	22.17	21.94	22.38
		1	37	22.01	21.98	22.27
		1	74	21.81	21.60	22.08
		12	0	22.09	21.88	22.29
		12	30	22.35	22.16	22.29
		12	61	22.18	22.01	22.33
		27	0	21.03	20.71	21.01

BW	Modulation	Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	23.43	23.23	23.51
		1	24	23.28	22.99	23.50
		1	49	23.26	22.95	23.29
		25	0	21.97	21.83	22.21
		25	12	22.31	21.95	22.36
		25	25	22.03	21.76	22.09
		50	0	22.06	21.73	22.15
	16QAM	1	0	22.09	21.87	22.37
		1	24	22.04	22.00	22.24
		1	49	21.84	21.64	22.01
		12	0	22.09	21.86	22.22
		12	17	22.26	22.16	22.33
		12	36	22.24	21.99	22.32
		27	0	20.91	20.82	21.05
BW	Modulation	Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	23.34	23.14	23.55
		1	12	23.33	23.03	23.46
		1	24	23.19	22.95	23.29
		12	0	22.04	21.79	22.16
		12	6	22.31	21.88	22.40
		12	13	22.04	21.63	22.03
		25	0	22.05	21.70	22.09
	16QAM	1	0	22.20	21.95	22.26
		1	12	22.13	22.00	22.28
		1	24	21.86	21.66	22.06
		12	0	21.19	20.92	21.29
		12	6	21.25	21.19	21.35
		12	13	21.17	21.01	21.32
		25	0	20.92	20.70	20.95

BW	Modulation	Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	23.39	23.16	23.47
		1	7	23.37	23.06	23.45
		1	14	23.15	22.99	23.23
		8	0	22.06	21.82	22.22
		8	3	22.29	21.87	22.30
		8	7	22.02	21.65	21.98
		15	0	22.06	21.81	22.08
	16QAM	1	0	22.07	21.93	22.32
		1	7	22.10	21.95	22.32
		1	14	21.81	21.65	21.97
		8	0	21.12	20.91	21.20
		8	3	21.30	21.05	21.34
		8	7	21.14	20.95	21.34
		15	0	21.04	20.81	20.93
BW	Modulation	Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	23.44	23.22	23.57
		1	2	23.28	23.06	23.50
		1	5	23.19	22.93	23.31
		3	0	23.09	22.84	23.25
		3	1	23.27	22.88	23.33
		3	3	23.00	22.64	23.03
		6	0	21.98	21.74	22.05
	16QAM	1	0	22.13	21.93	22.26
		1	2	22.07	22.01	22.26
		1	5	21.83	21.57	21.95
		3	0	22.20	21.91	22.20
		3	1	22.30	22.10	22.39
		3	3	22.21	21.98	22.39
		6	0	20.97	20.70	20.93



LTE BAND 25

LTE Band 25						
BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26340	26590
		Frequency (MHz)		1860	1880	1905
20M	QPSK	1	0	23.24	23.27	23.30
		1	50	23.72	23.61	23.65
		1	99	23.26	23.34	23.28
		50	0	22.18	22.06	22.11
		50	25	22.06	21.98	22.13
		50	50	22.09	22.02	22.07
		100	0	22.02	22.05	22.07
	16QAM	1	0	22.36	22.18	22.34
		1	50	21.98	22.07	22.13
		1	99	21.61	21.57	21.69
		12	0	21.83	21.88	21.97
		12	42	21.98	22.08	22.07
		12	86	21.74	21.81	21.79
		27	0	21.02	20.91	21.05
BW	Modulation	Channel		26115	26340	26615
		Frequency (MHz)		1857.5	1880	1907.5
15M	QPSK	1	0	23.21	23.25	23.15
		1	37	23.71	23.54	23.53
		1	74	23.22	23.20	23.22
		36	0	22.06	21.92	21.96
		36	19	21.95	21.88	22.00
		36	39	21.95	21.91	22.04
		75	0	21.90	21.90	21.99
	16QAM	1	0	22.23	22.15	22.21
		1	37	21.90	22.04	22.12
		1	74	21.55	21.44	21.61
		12	0	21.79	21.79	21.94
		12	30	21.87	22.06	21.92
		12	61	21.59	21.69	21.76
		27	0	20.95	20.80	20.90

BW	Modulation	Channel		26090	26340	26640
		Frequency (MHz)		1855	1880	1910
10M	QPSK	1	0	23.22	23.16	23.19
		1	24	23.62	23.57	23.50
		1	49	23.21	23.23	23.25
		25	0	22.05	22.02	22.00
		25	12	22.05	21.87	22.04
		25	25	21.95	22.01	22.00
		50	0	21.97	21.99	21.96
	16QAM	1	0	22.27	22.05	22.33
		1	24	21.89	22.03	22.09
		1	49	21.50	21.43	21.65
		12	0	21.75	21.83	21.91
		12	17	21.84	22.00	22.05
		12	36	21.70	21.69	21.68
		27	0	21.00	20.76	20.99
BW	Modulation	Channel		26065	26340	26665
		Frequency (MHz)		1852.5	1880	1912.5
5M	QPSK	1	0	23.17	23.18	23.21
		1	12	23.67	23.56	23.51
		1	24	23.18	23.28	23.14
		12	0	22.06	21.98	22.06
		12	6	21.93	21.88	22.09
		12	13	21.96	21.91	21.96
		25	0	21.93	22.01	22.00
	16QAM	1	0	22.35	22.08	22.29
		1	12	21.84	21.92	22.11
		1	24	21.48	21.44	21.64
		12	0	20.79	20.87	20.82
		12	6	20.97	20.96	20.95
		12	13	20.60	20.75	20.77
		27	0	20.92	20.84	20.94

BW	Modulation	Channel		26055	26340	26675
		Frequency (MHz)		1851.5	1880	1913.5
3M	QPSK	1	0	23.09	23.26	23.16
		1	7	23.61	23.49	23.61
		1	14	23.18	23.22	23.25
		8	0	22.08	21.95	21.96
		8	3	22.01	21.86	22.03
		8	7	21.97	21.99	21.97
		15	0	21.89	21.98	21.97
	16QAM	1	0	22.31	22.05	22.25
		1	7	21.85	21.93	21.99
		1	14	21.47	21.53	21.67
		8	0	20.70	20.73	20.94
		8	3	20.84	20.94	21.06
		8	7	20.72	20.78	20.71
		15	0	21.01	20.88	20.92
BW	Modulation	Channel		26047	26340	26683
		Frequency (MHz)		1850.7	1880	1914.3
1.4M	QPSK	1	0	23.09	23.12	23.27
		1	2	23.62	23.55	23.63
		1	5	23.11	23.24	23.20
		3	0	23.10	22.96	23.10
		3	1	22.95	22.83	23.11
		3	3	23.02	22.87	23.06
		6	0	21.95	21.98	21.98
	16QAM	1	0	22.34	22.16	22.21
		1	2	21.90	21.98	22.09
		1	5	21.49	21.46	21.62
		3	0	21.70	21.75	21.82
		3	1	21.97	22.02	22.04
		3	3	21.72	21.66	21.66
		6	0	20.88	20.76	21.04



EIRP POWER (dBm)

WCDMA II

WCDMA II						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
9262	1852.4	23.28	5.3	28.58	721.11	2
9400	1880	23.13	5.3	28.43	696.63	2
9538	1907.6	23.16	5.3	28.46	701.46	2

LTE BAND 2

LTE B2 1.4M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	23.44	5.3	28.74	748.17	2
18900	1880	23.22	5.3	28.52	711.21	2
19193	1909.3	23.57	5.3	28.87	770.9	2

LTE B2 1.4M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	22.3	5.3	27.6	575.44	2
18900	1880	22.1	5.3	27.4	549.54	2
19193	1909.3	22.39	5.3	27.69	587.49	2

LTE B2 3M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	23.39	5.3	28.69	739.61	2
18900	1880	23.16	5.3	28.46	701.46	2
19185	1908.5	23.47	5.3	28.77	753.36	2

LTE B2 3M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	22.1	5.3	27.4	549.54	2
18900	1880	21.95	5.3	27.25	530.88	2
19185	1908.5	22.32	5.3	27.62	578.1	2

LTE B2 5M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	23.34	5.3	28.64	731.14	2
18900	1880	23.14	5.3	28.44	698.23	2
19175	1907.5	23.55	5.3	28.85	767.36	2

LTE B2 5M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	22.2	5.3	27.5	562.34	2
18900	1880	22	5.3	27.3	537.03	2
19175	1907.5	22.28	5.3	27.58	572.8	2

LTE B2 10M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855	23.43	5.3	28.73	746.45	2
18900	1880	23.23	5.3	28.53	712.85	2
19150	1905	23.51	5.3	28.81	760.33	2

LTE B2 10M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855	22.26	5.3	27.56	570.16	2
18900	1880	22.16	5.3	27.46	557.19	2
19150	1905	22.37	5.3	27.67	584.79	2

LTE B2 15M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	23.34	5.3	28.64	731.14	2
18900	1880	23.2	5.3	28.5	707.95	2
19125	1902.5	23.46	5.3	28.76	751.62	2

LTE B2 15M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	22.35	5.3	27.65	582.1	2
18900	1880	22.16	5.3	27.46	557.19	2
19125	1902.5	22.38	5.3	27.68	586.14	2

LTE B2 20M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	23.49	5.3	28.79	756.83	2
18900	1880	23.29	5.3	28.59	722.77	2
19100	1900	23.6	5.3	28.9	776.25	2

LTE B2 20M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	22.36	5.3	27.66	583.45	2
18900	1880	22.2	5.3	27.5	562.34	2
19100	1900	22.44	5.3	27.74	594.29	2



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LTE BAND 25

LTE B25 1.4M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	23.62	5.3	28.92	779.83	2
26340	1880	23.55	5.3	28.85	767.36	2
26683	1914.3	23.63	5.3	28.93	781.63	2

LTE B25 1.4M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	22.34	5.3	27.64	580.76	2
26340	1880	22.16	5.3	27.46	557.19	2
26683	1914.3	22.21	5.3	27.51	563.64	2

LTE B25 3M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	23.61	5.3	28.91	778.04	2
26340	1880	23.49	5.3	28.79	756.83	2
26675	1913.5	23.61	5.3	28.91	778.04	2

LTE B25 3M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	22.31	5.3	27.61	576.77	2
26340	1880	22.05	5.3	27.35	543.25	2
26675	1913.5	22.25	5.3	27.55	568.85	2

LTE B25 5M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	23.67	5.3	28.97	788.86	2
26340	1880	23.56	5.3	28.86	769.13	2
26665	1912.5	23.51	5.3	28.81	760.33	2

LTE B25 5M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	22.35	5.3	27.65	582.1	2
26340	1880	22.08	5.3	27.38	547.02	2
26665	1912.5	22.29	5.3	27.59	574.12	2

LTE B25 10M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	23.62	5.3	28.92	779.83	2
26340	1880	23.57	5.3	28.87	770.9	2
26640	1910	23.5	5.3	28.8	758.58	2

LTE B25 10M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	22.27	5.3	27.57	571.48	2
26340	1880	22.05	5.3	27.35	543.25	2
26640	1910	22.33	5.3	27.63	579.43	2

LTE B25 15M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	23.71	5.3	29.01	796.16	2
26340	1880	23.54	5.3	28.84	765.6	2
26615	1907.5	23.53	5.3	28.83	763.84	2

LTE B25 15M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	22.23	5.3	27.53	566.24	2
26340	1880	22.15	5.3	27.45	555.9	2
26615	1907.5	22.21	5.3	27.51	563.64	2

LTE B25 20M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	23.72	5.3	29.02	797.99	2
26340	1880	23.61	5.3	28.91	778.04	2
26590	1905	23.65	5.3	28.95	785.24	2

LTE B25 20M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	22.36	5.3	27.66	583.45	2
26340	1880	22.18	5.3	27.48	559.76	2
26590	1905	22.34	5.3	27.64	580.76	2

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

3.2.2 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. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

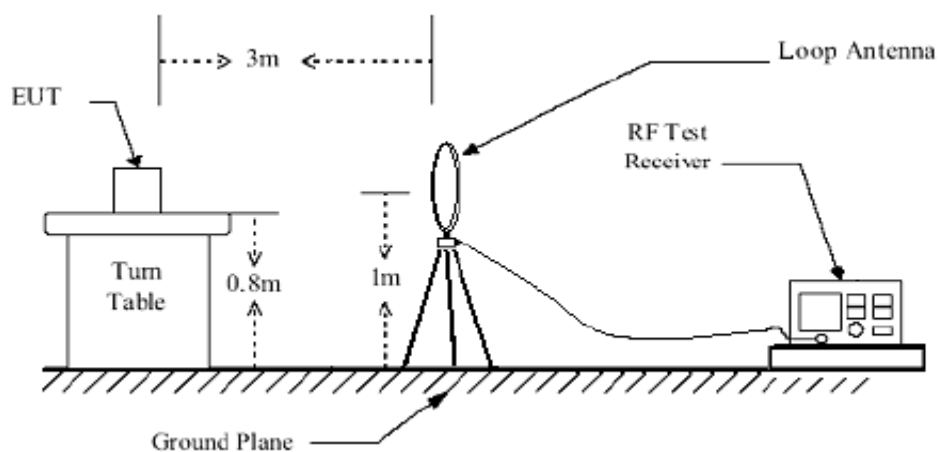
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.2.3 DEVIATION FROM TEST STANDARD

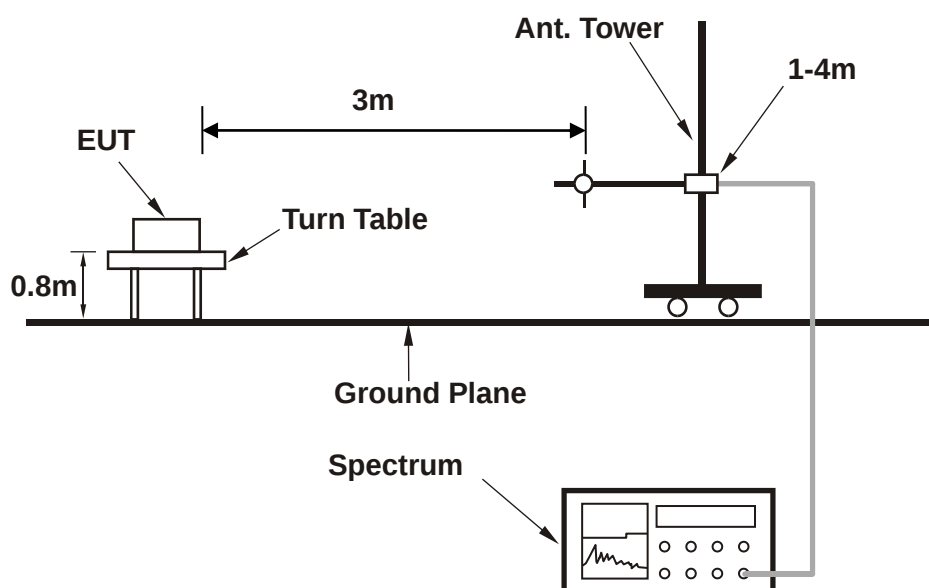
No deviation

3.2.4 TEST SETUP

< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >

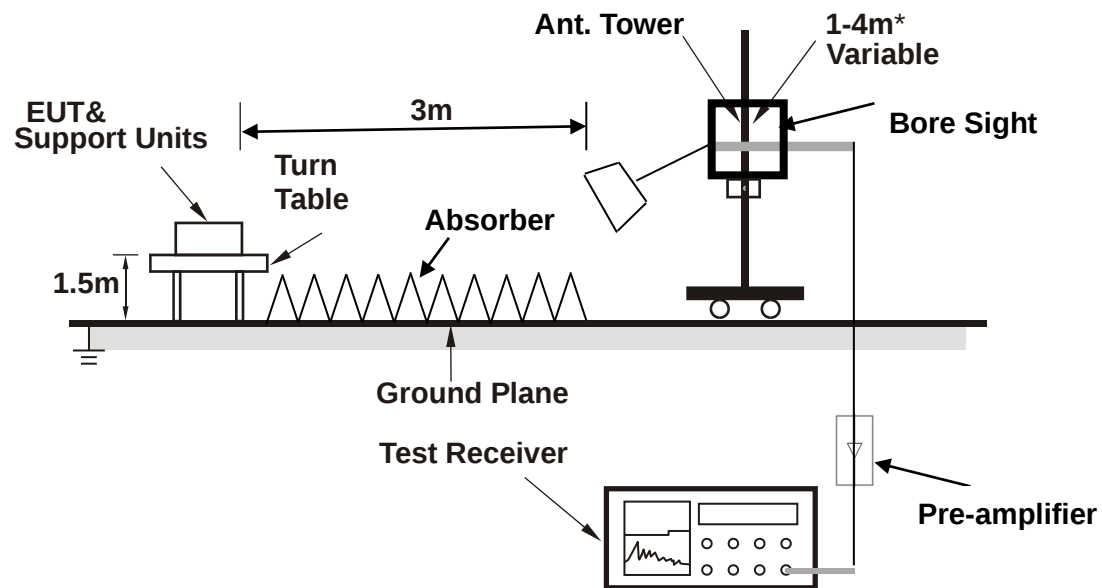




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<Frequency Range above 1GHz>



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).



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3.2.5 TEST RESULTS

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

BELOW 1GHz WORST-CASE DATA

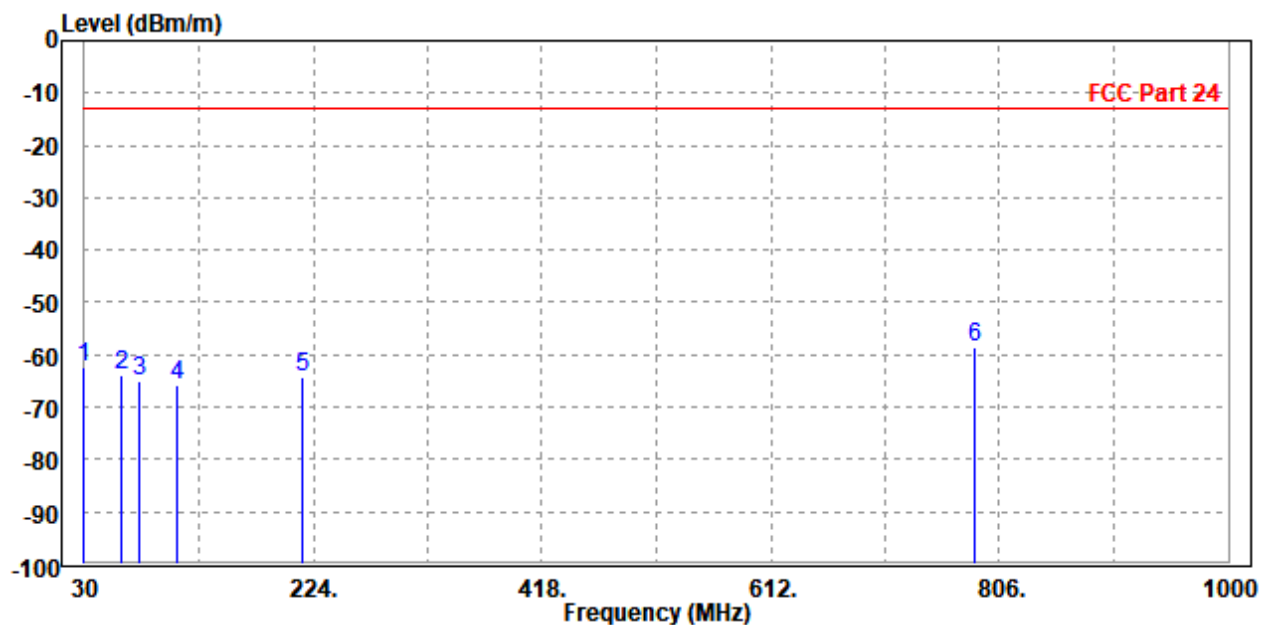
30 MHz – 1GHz data:

LTE Band 25:

CHANNEL BANDWIDTH: 1.4MHz / QPSK

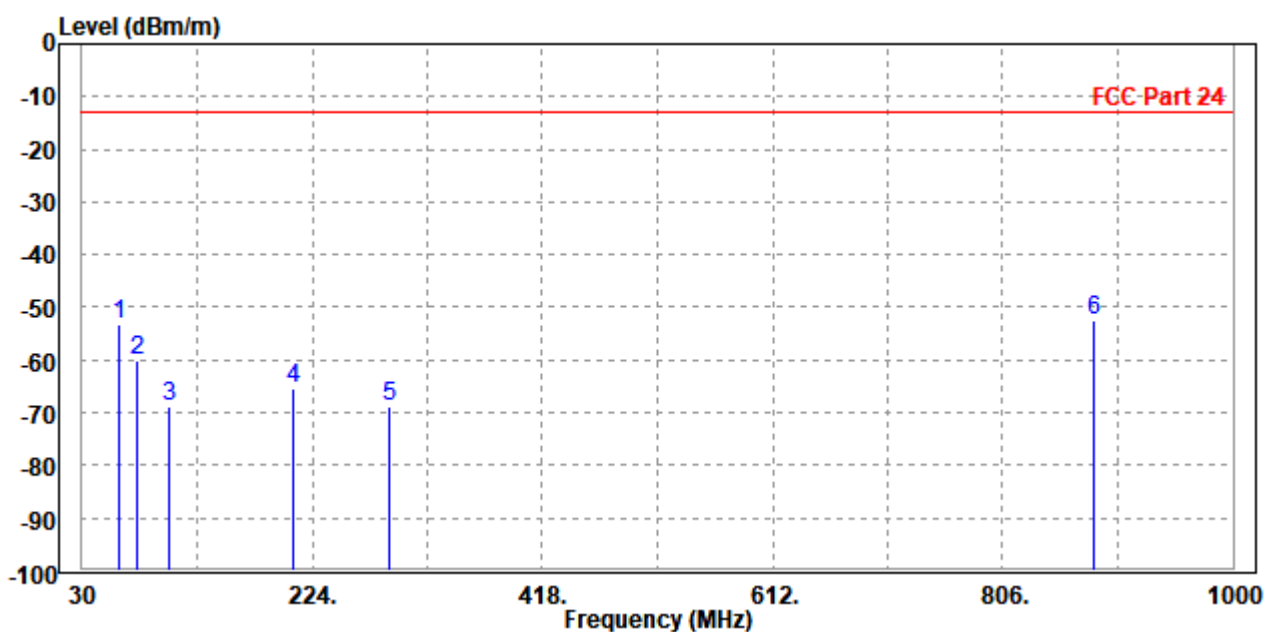
MODE	TX channel 26683	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	30.000	-62.48	-60.50	-13.00	-49.48	-1.98	Peak	Horizontal
2	62.010	-63.73	-51.33	-13.00	-50.73	-12.40	Peak	Horizontal
3	76.560	-65.16	-52.62	-13.00	-52.16	-12.54	Peak	Horizontal
4	108.570	-65.65	-51.50	-13.00	-52.65	-14.15	Peak	Horizontal
5	214.300	-64.41	-50.24	-13.00	-51.41	-14.17	Peak	Horizontal
6 PP	785.630	-58.58	-63.65	-13.00	-45.58	5.07	Peak	Horizontal



MODE	TX channel 26683	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	61.040	-53.21	-34.72	-13.00	-40.21	-18.49	Peak	Vertical
2	76.560	-59.90	-40.38	-13.00	-46.90	-19.52	Peak	Vertical
3	103.720	-68.99	-52.47	-13.00	-55.99	-16.52	Peak	Vertical
4	208.480	-65.57	-57.32	-13.00	-52.57	-8.25	Peak	Vertical
5	288.990	-68.94	-65.46	-13.00	-55.94	-3.48	Peak	Vertical
6 PP	882.630	-52.57	-63.46	-13.00	-39.57	10.89	Peak	Vertical





ABOVE 1GHz DATA

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

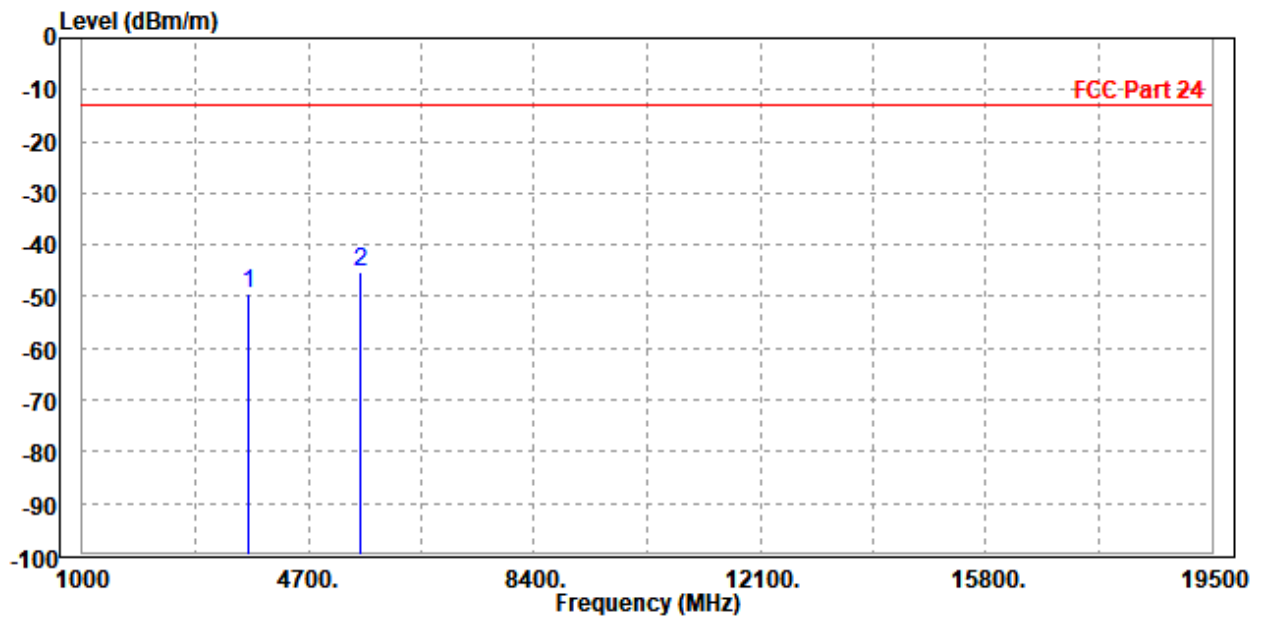
WORST-CASE DATA

WCDMA Band II

CH 9262

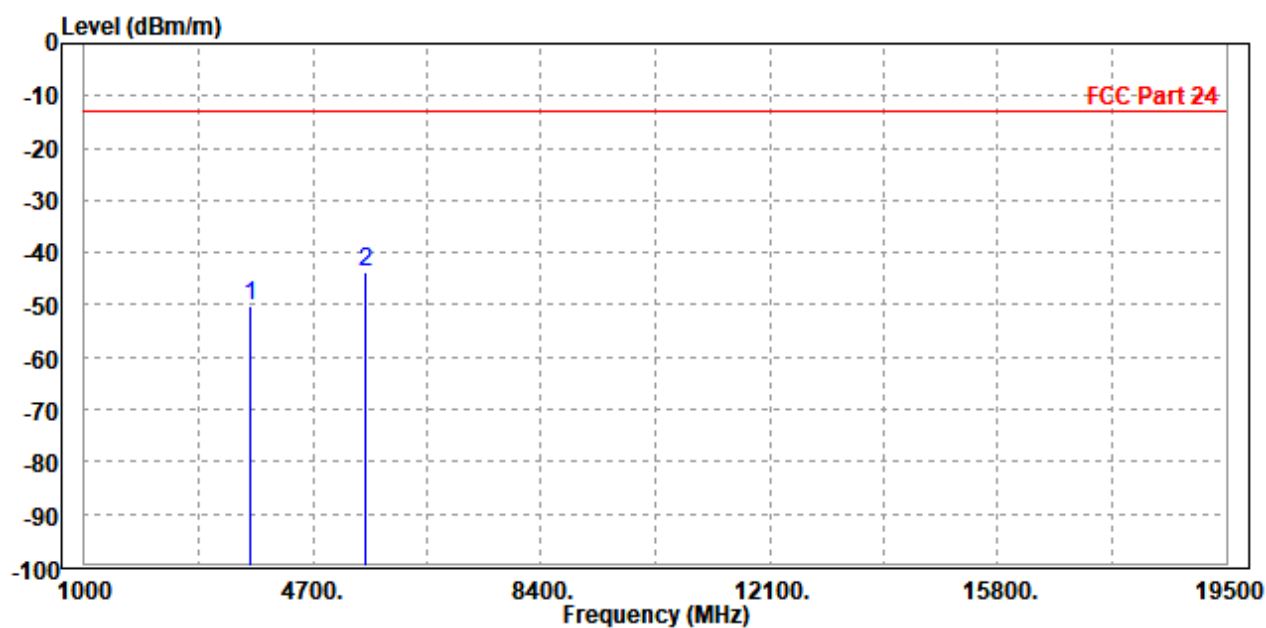
MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3704.800	-49.36	-57.76	-13.00	-36.36	8.40	Peak	Horizontal
2 PP	5551.000	-45.10	-56.90	-13.00	-32.10	11.80	Peak	Horizontal



MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

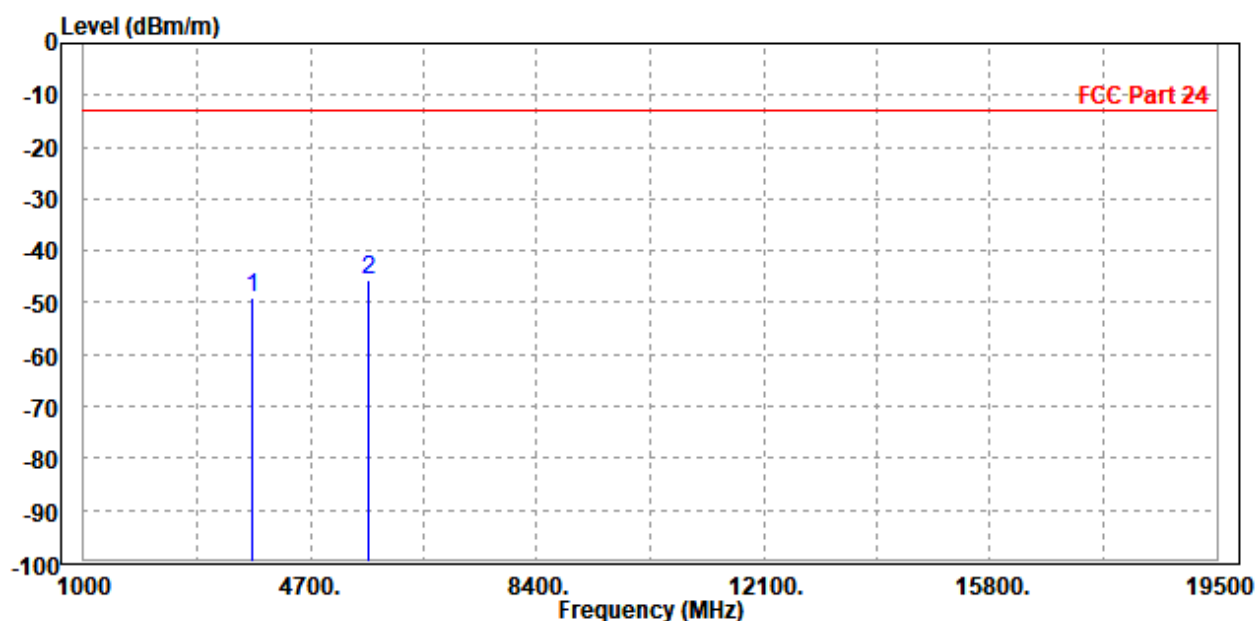
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3701.000	-50.20	-58.83	-13.00	-37.20	8.63	Peak	Vertical
2 PP	5557.200	-43.91	-56.24	-13.00	-30.91	12.33	Peak	Vertical



CH 9400

MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-49.06	-57.41	-13.00	-36.06	8.35	Peak	Horizontal
2 PP	5640.000	-45.60	-57.41	-13.00	-32.60	11.81	Peak	Horizontal



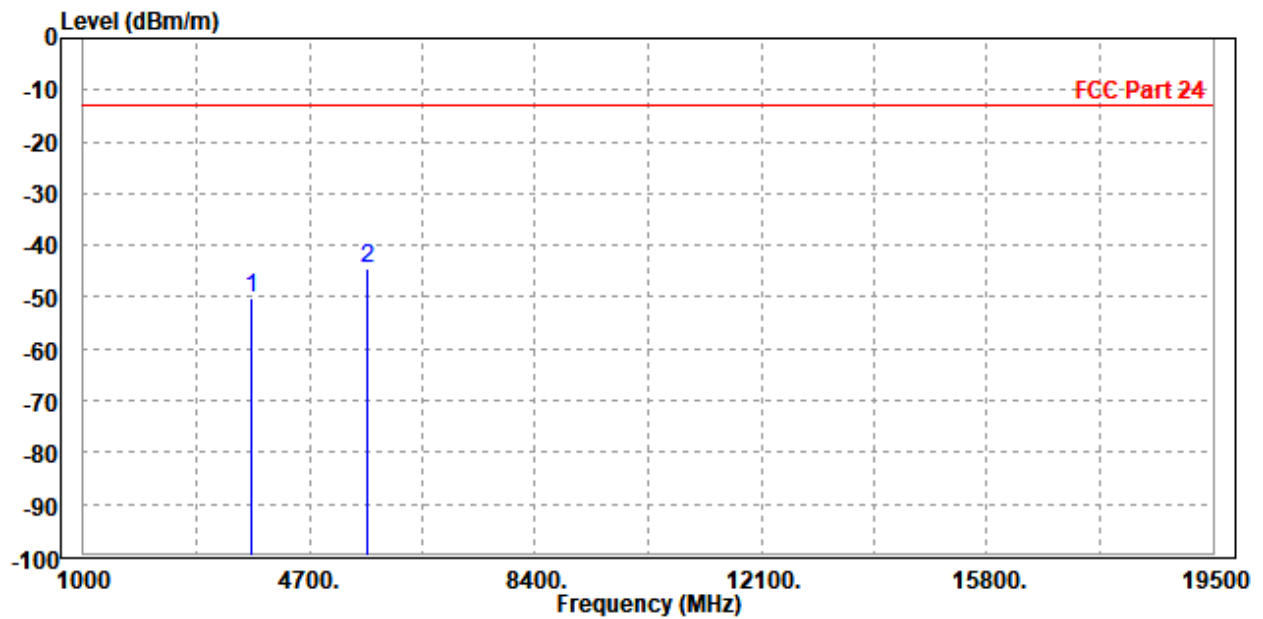


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VERITAS

Test Report No.: W7L-P24060002RF02

MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.500	-50.22	-58.85	-13.00	-37.22	8.63	Peak	Vertical
2 PP	5640.000	-44.63	-56.95	-13.00	-31.63	12.32	Peak	Vertical





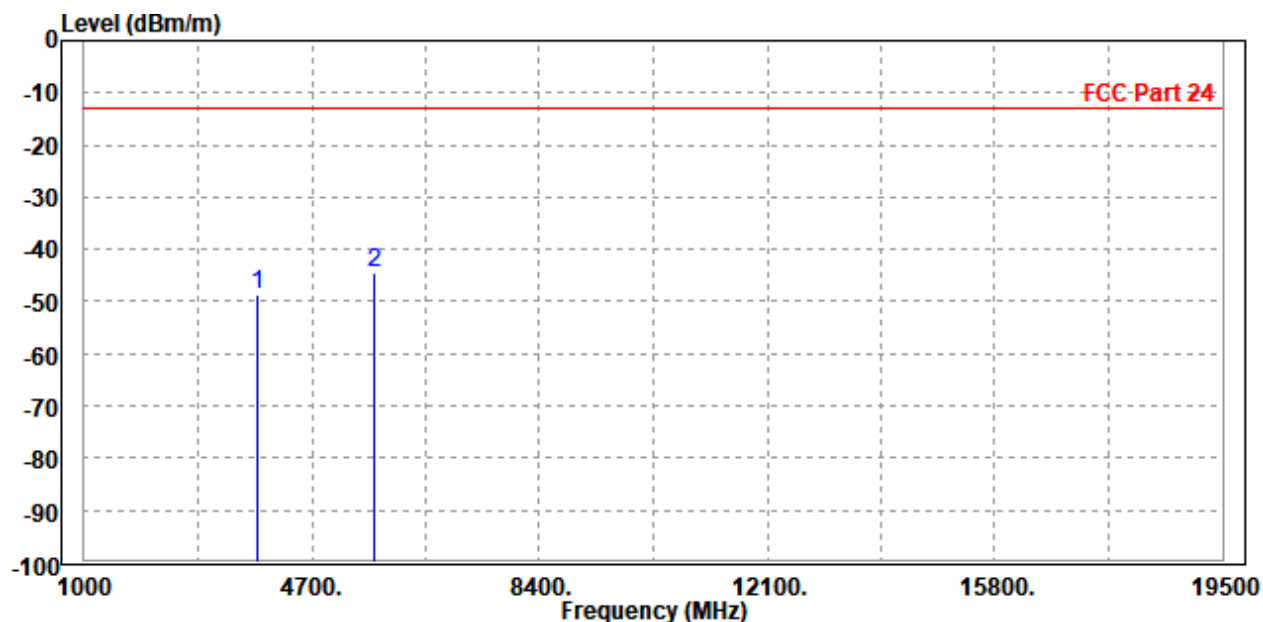
BUREAU
VERITAS

Test Report No.: W7L-P24060002RF02

CH 9538

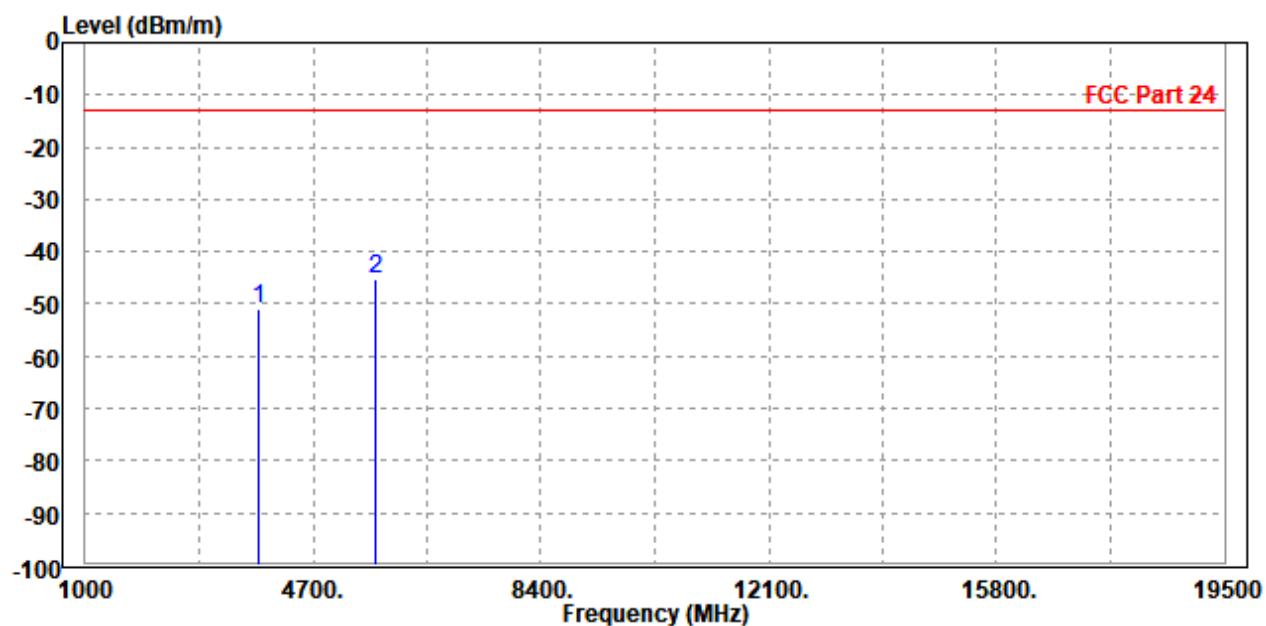
MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3815.200	-48.68	-56.99	-13.00	-35.68	8.31	Peak	Horizontal
2 PP	5717.500	-44.35	-56.17	-13.00	-31.35	11.82	Peak	Horizontal



MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-50.80	-59.43	-13.00	-37.80	8.63	Peak	Vertical
2 PP	5722.800	-45.18	-57.49	-13.00	-32.18	12.31	Peak	Vertical





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VERITAS

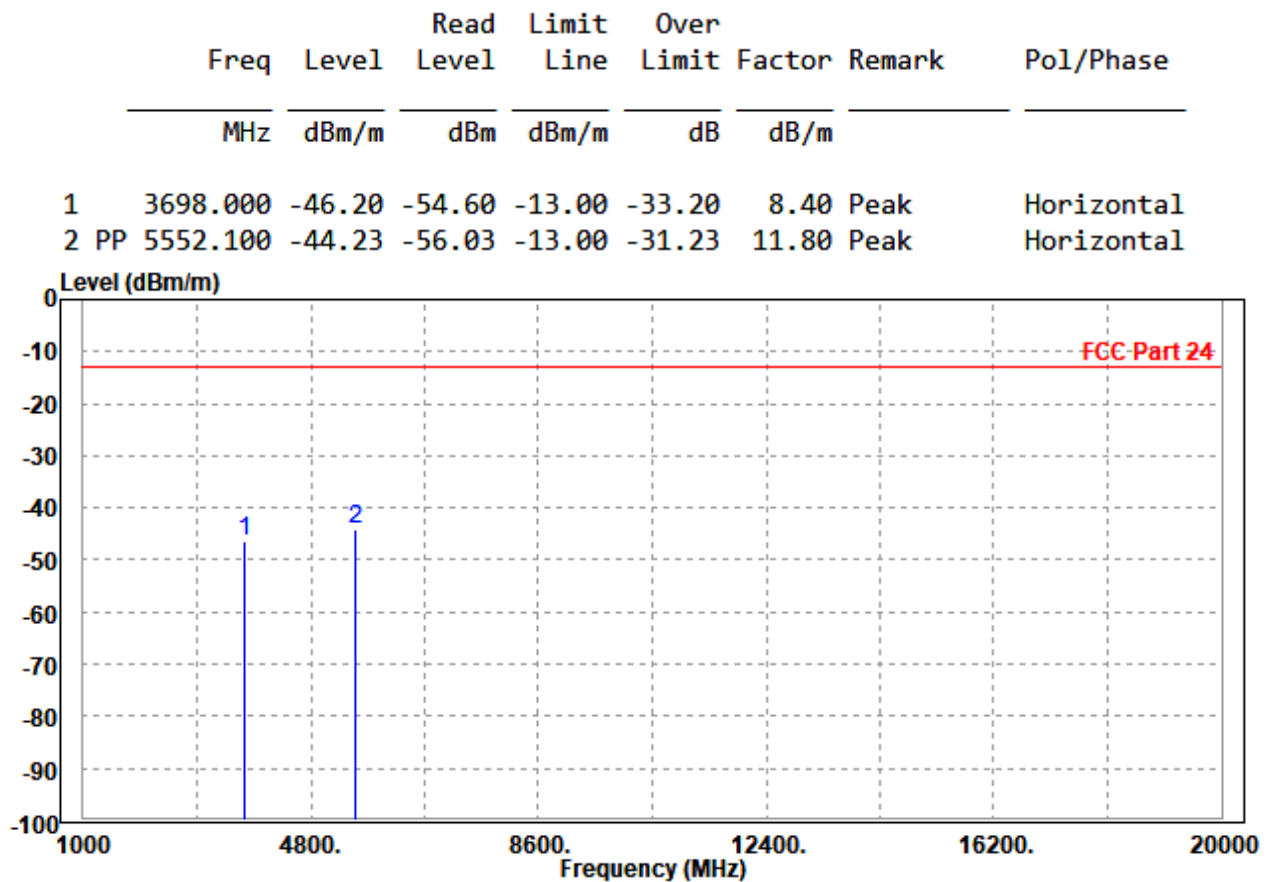
Test Report No.: W7L-P24060002RF02

LTE Band 25

CHANNEL BANDWIDTH: 1.4MHz / QPSK

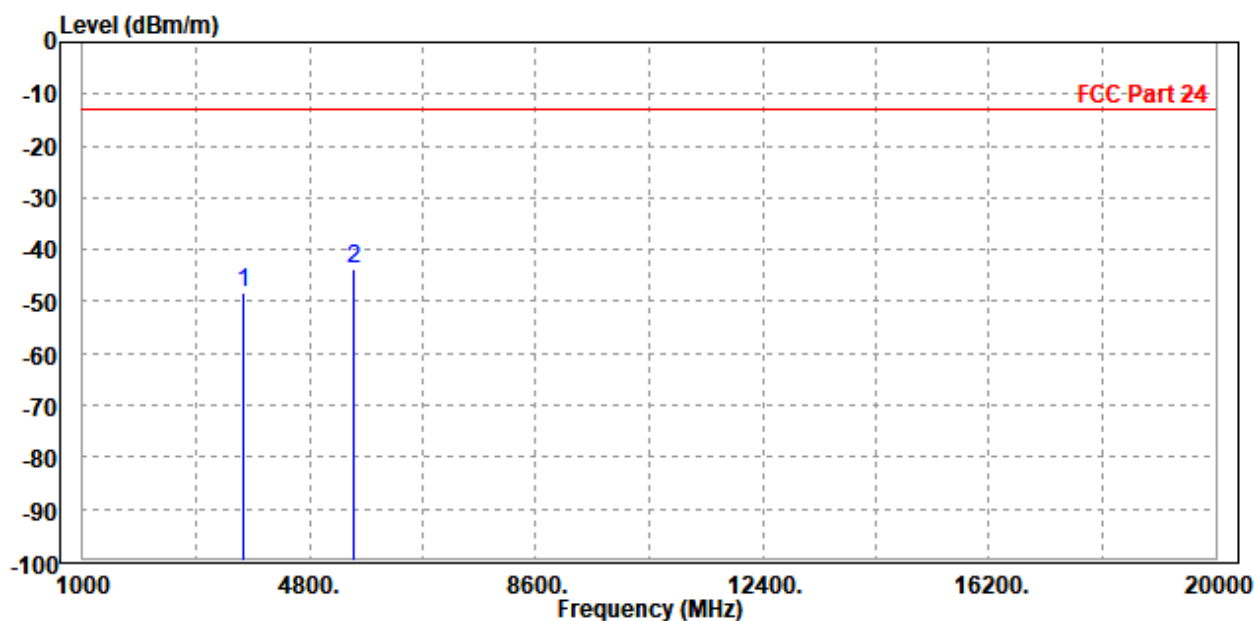
CH 26047

MODE	TX channel 26047	FREQUENCY RANGE	Above 1000MHZ
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			



MODE	TX channel 26047	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

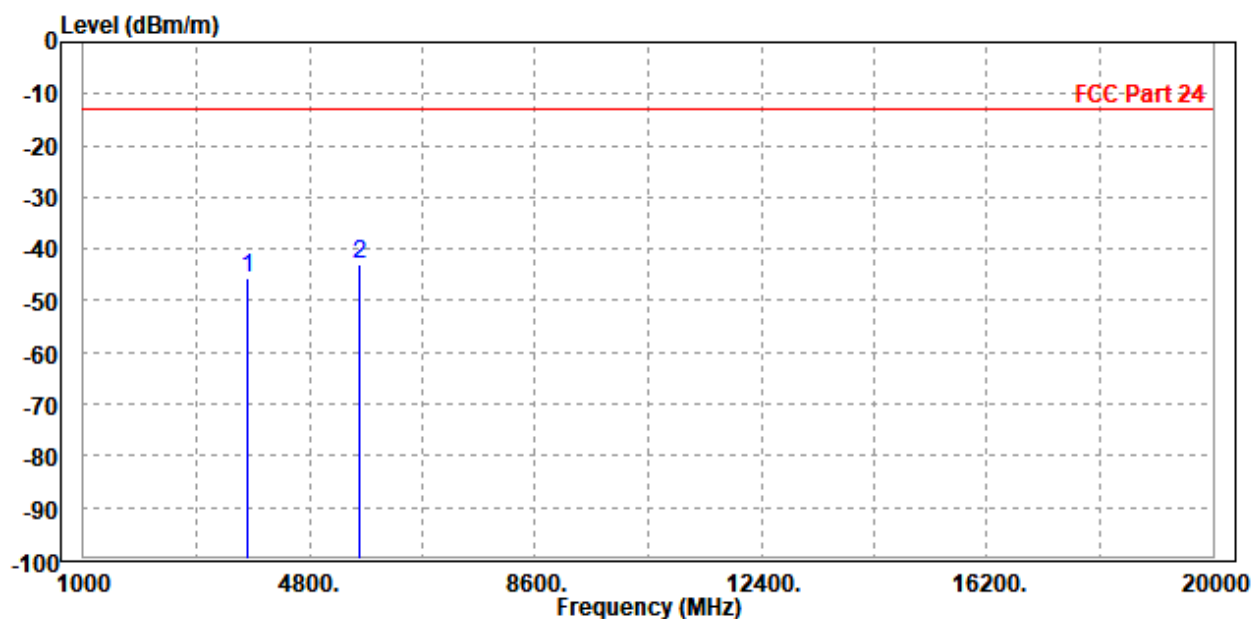
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3701.400	-48.31	-56.94	-13.00	-35.31	8.63	Peak	Vertical
2 PP	5560.000	-43.90	-56.23	-13.00	-30.90	12.33	Peak	Vertical



CH 26365

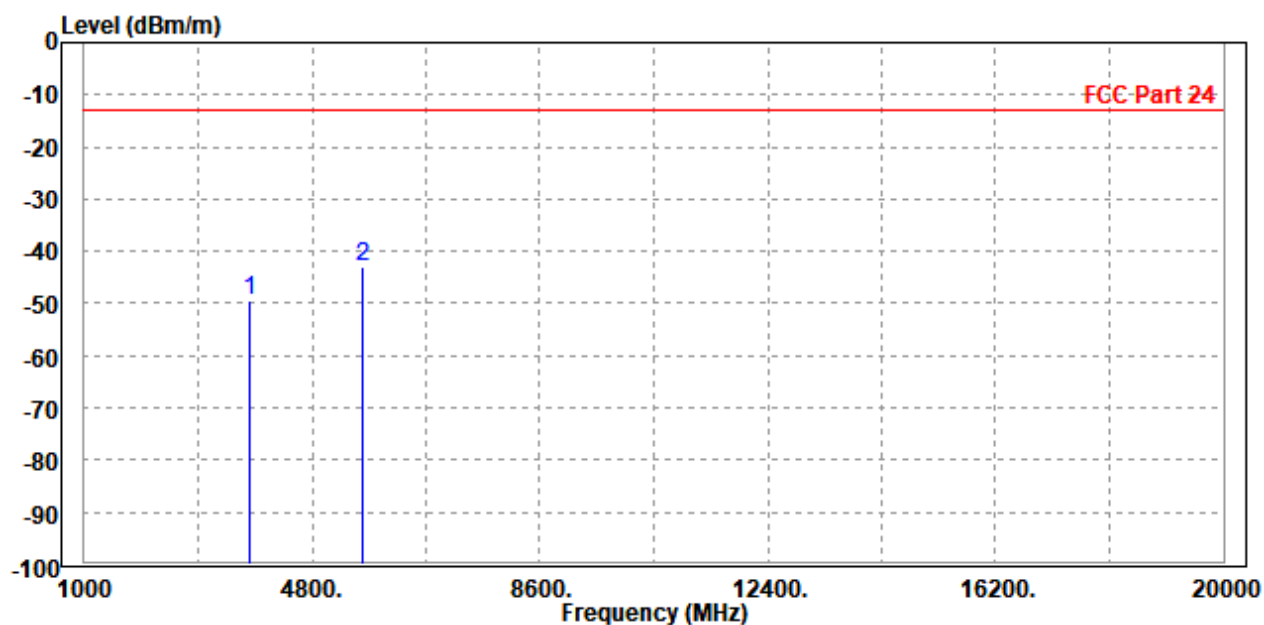
MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-45.73	-54.08	-13.00	-32.73	8.35	Peak	Horizontal
2	PP 5636.000	-42.83	-54.64	-13.00	-29.83	11.81	Peak	Horizontal



MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

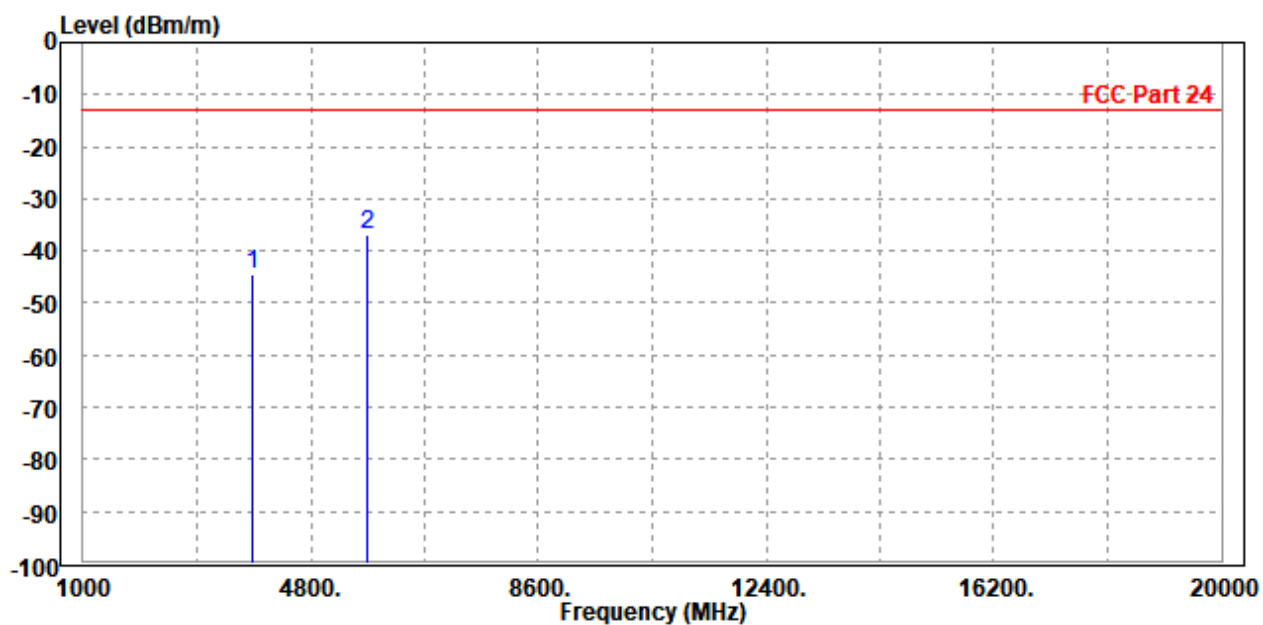
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-49.26	-57.89	-13.00	-36.26	8.63	Peak	Vertical
2 PP	5640.000	-43.08	-55.40	-13.00	-30.08	12.32	Peak	Vertical



CH 26683

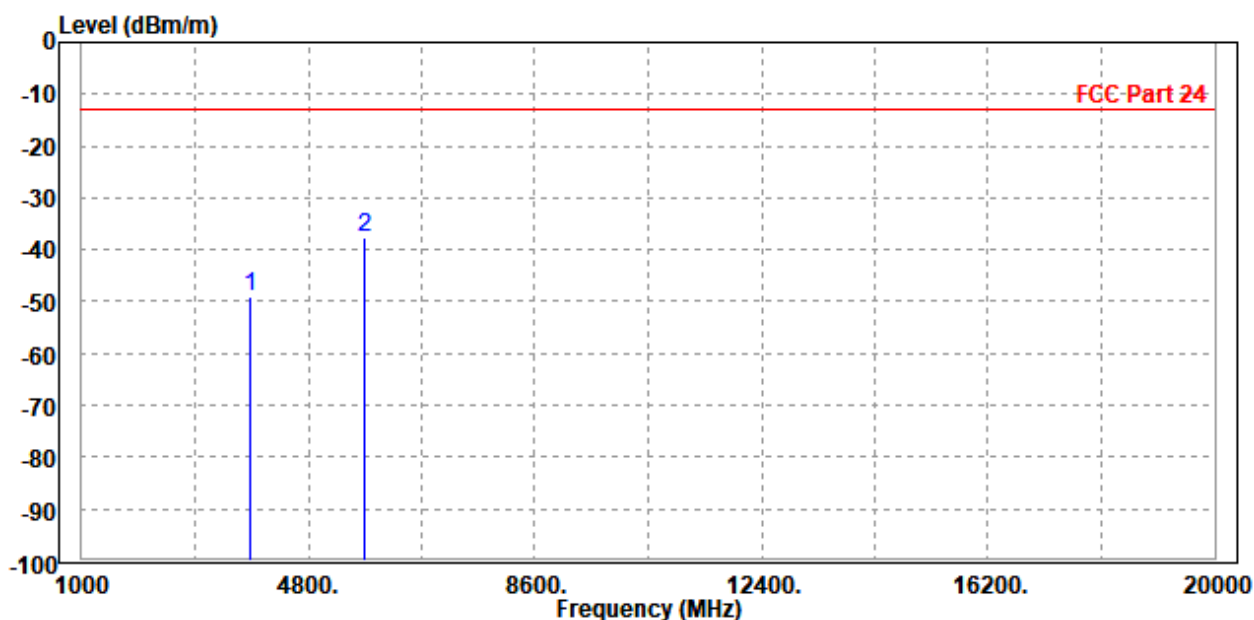
MODE	TX channel 26683	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3828.600	-44.51	-52.81	-13.00	-31.51	8.30	Peak	Horizontal
2 PP	5750.000	-36.80	-48.62	-13.00	-23.80	11.82	Peak	Horizontal



MODE	TX channel 26683	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3831.000	-49.07	-57.70	-13.00	-36.07	8.63	Peak	Vertical
2 PP	5742.900	-37.60	-49.91	-13.00	-24.60	12.31	Peak	Vertical





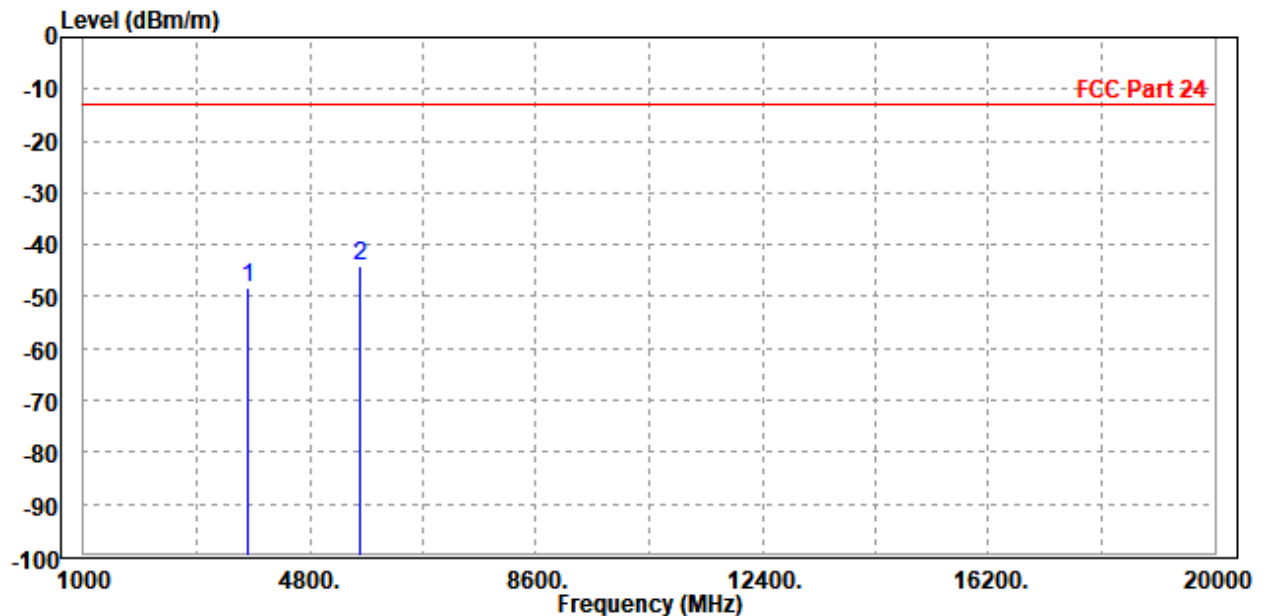
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Test Report No.: W7L-P24060002RF02

CHANNEL BANDWIDTH: 3MHz / QPSK

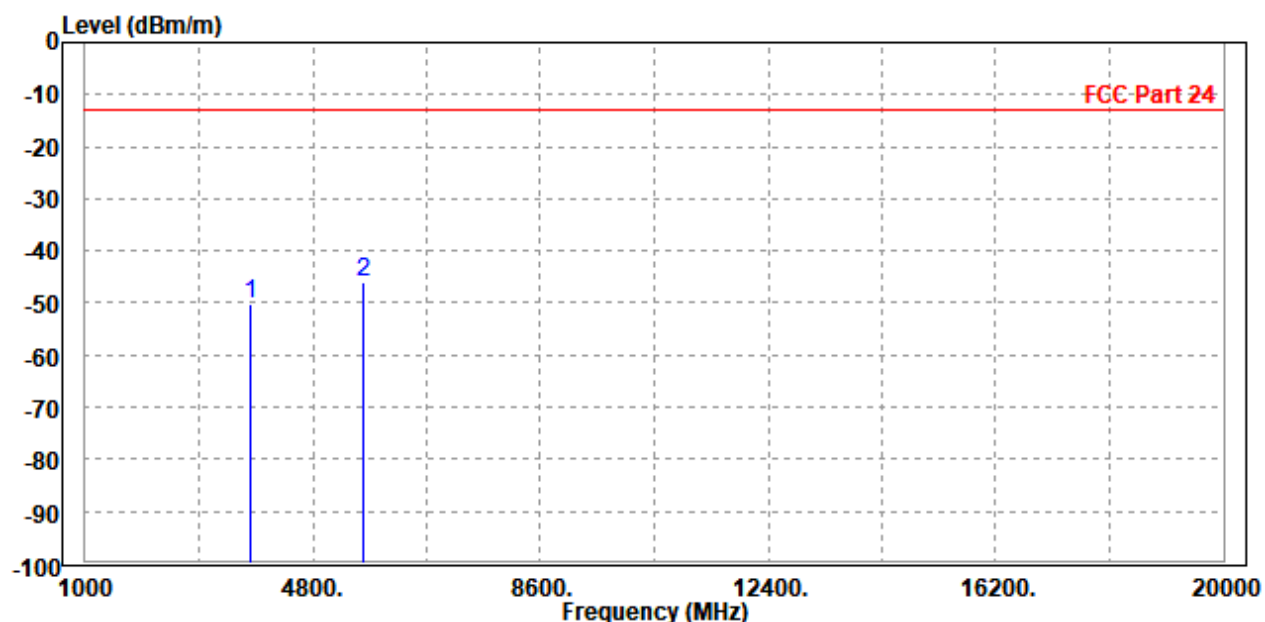
MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-48.41	-56.77	-13.00	-35.41	8.36	Peak	Horizontal
2 PP	5640.000	-44.26	-56.07	-13.00	-31.26	11.81	Peak	Horizontal



MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

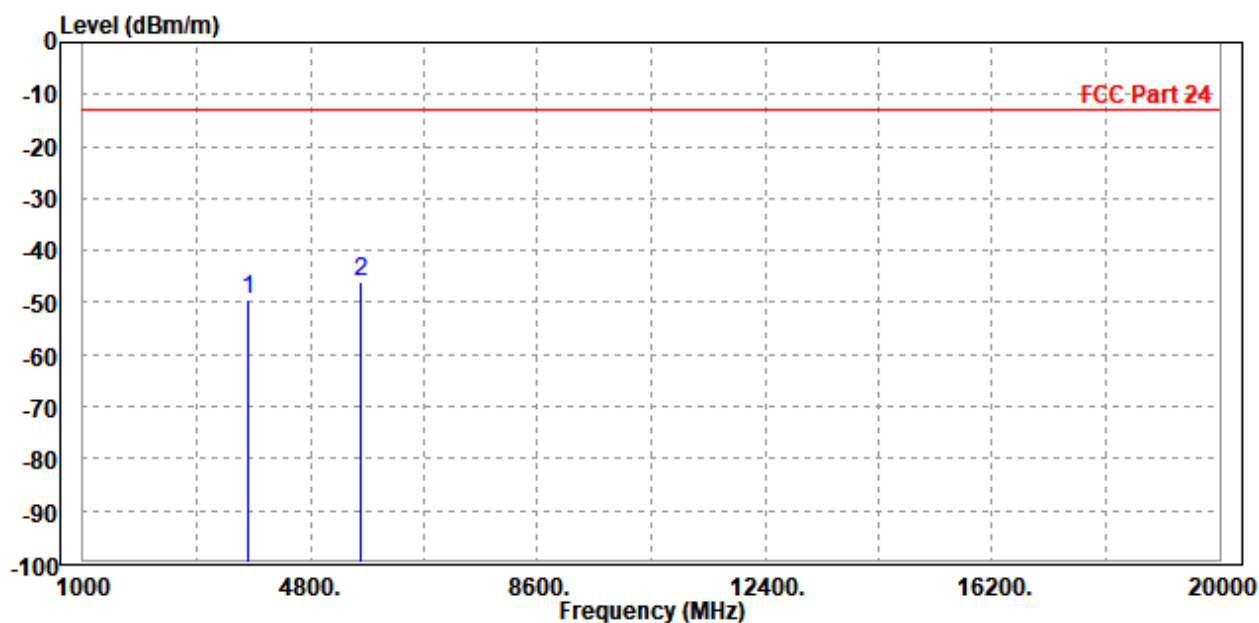
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-50.23	-58.86	-13.00	-37.23	8.63	Peak	Vertical
2 PP	5636.000	-45.96	-58.28	-13.00	-32.96	12.32	Peak	Vertical



CHANNEL BANDWIDTH: 5MHz / QPSK

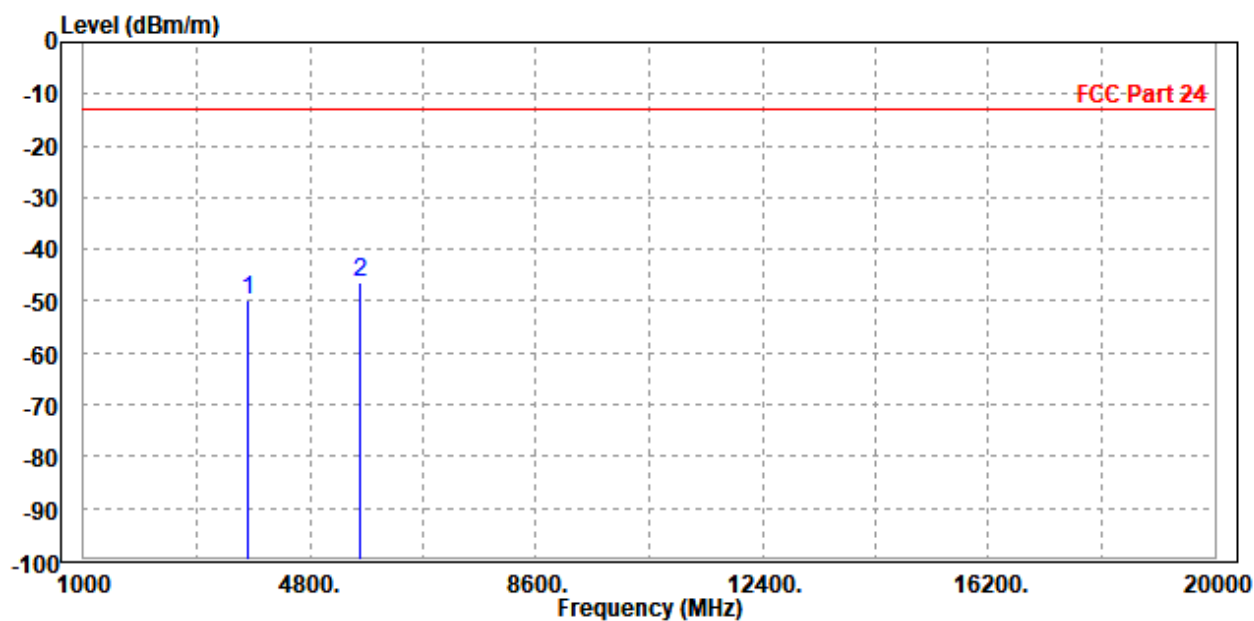
MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-49.28	-57.63	-13.00	-36.28	8.35	Peak	Horizontal
2 PP	5636.000	-45.98	-57.79	-13.00	-32.98	11.81	Peak	Horizontal



MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

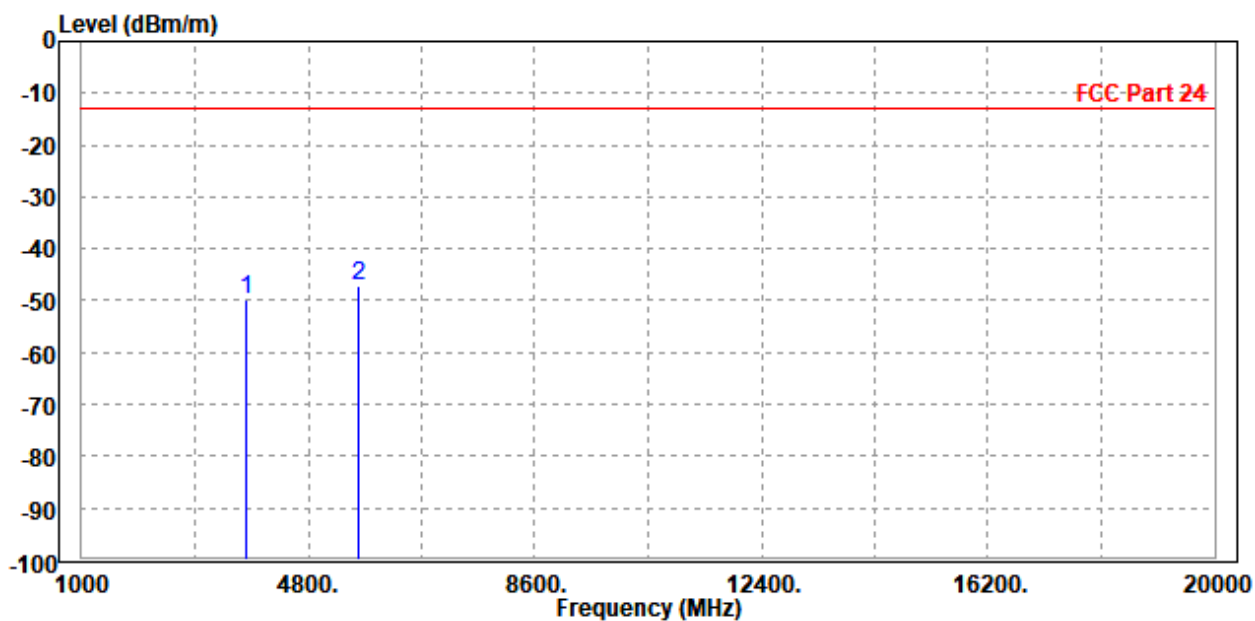
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-49.96	-58.59	-13.00	-36.96	8.63	Peak	Vertical
2 PP	5640.000	-46.53	-58.85	-13.00	-33.53	12.32	Peak	Vertical



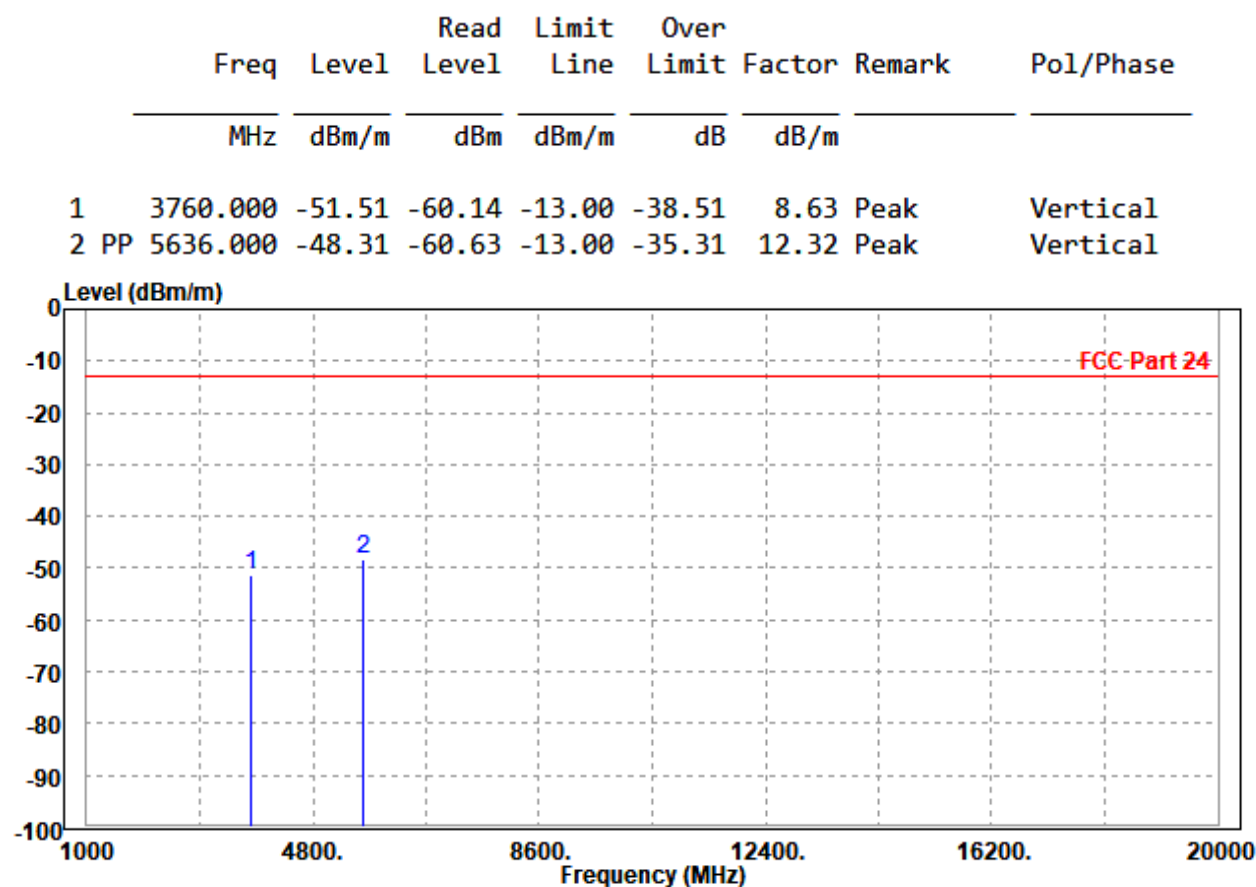
CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-49.95	-58.31	-13.00	-36.95	8.36	Peak	Horizontal
2 PP	5640.000	-47.15	-58.96	-13.00	-34.15	11.81	Peak	Horizontal



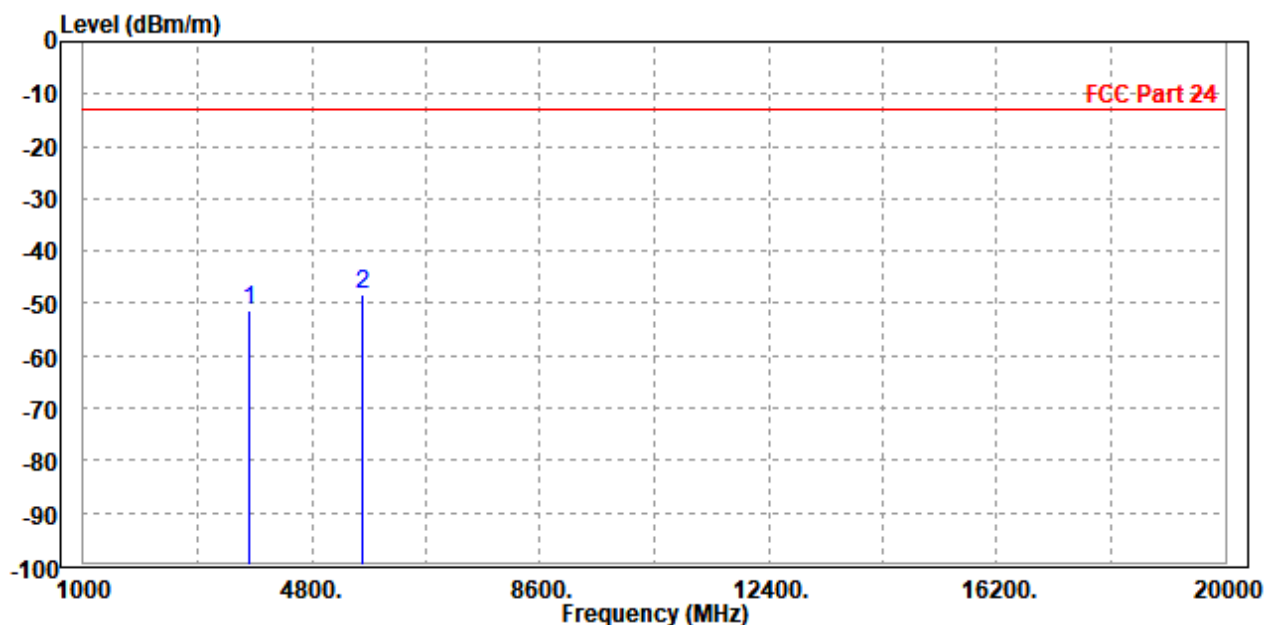
MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			



CHANNEL BANDWIDTH: 15MHz / QPSK

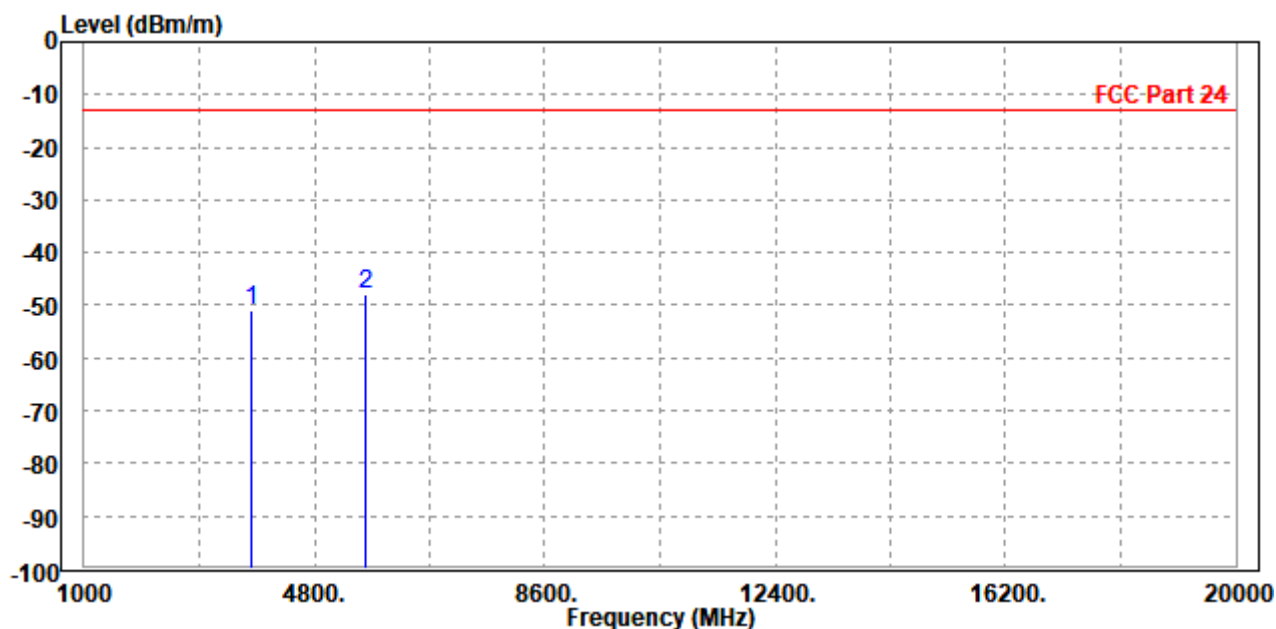
MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-51.44	-59.79	-13.00	-38.44	8.35	Peak	Horizontal
2 PP	5636.000	-48.37	-60.18	-13.00	-35.37	11.81	Peak	Horizontal



MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-51.00	-59.63	-13.00	-38.00	8.63	Peak	Vertical
2	PP 5640.000	-47.90	-60.22	-13.00	-34.90	12.32	Peak	Vertical





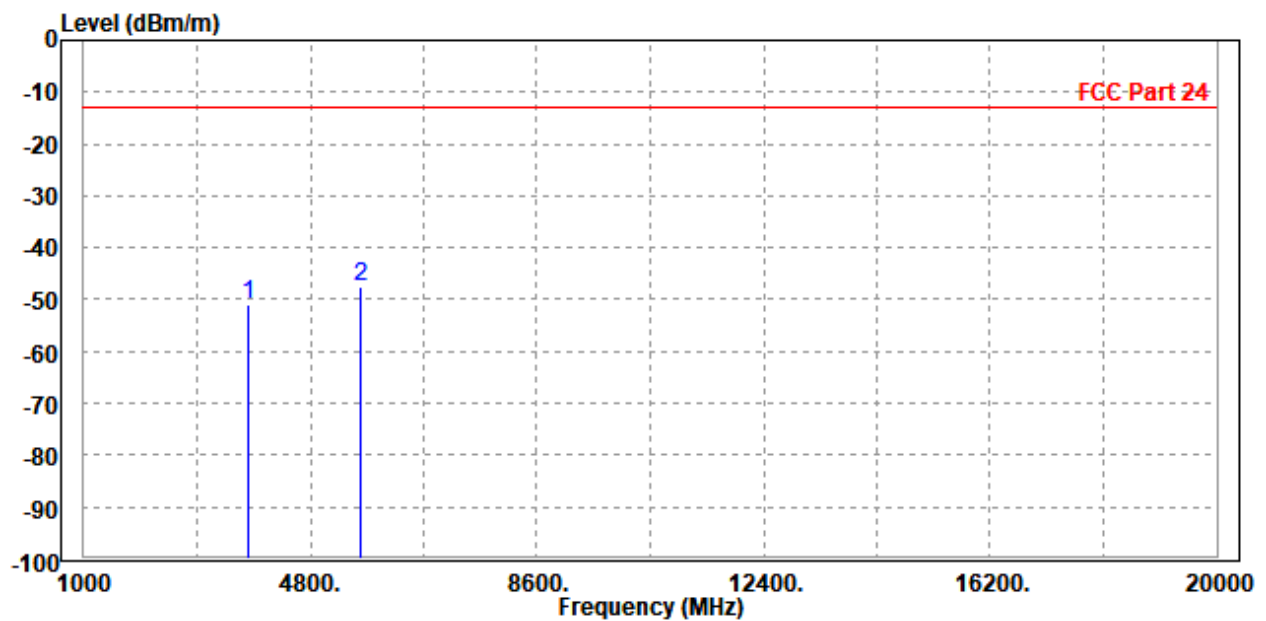
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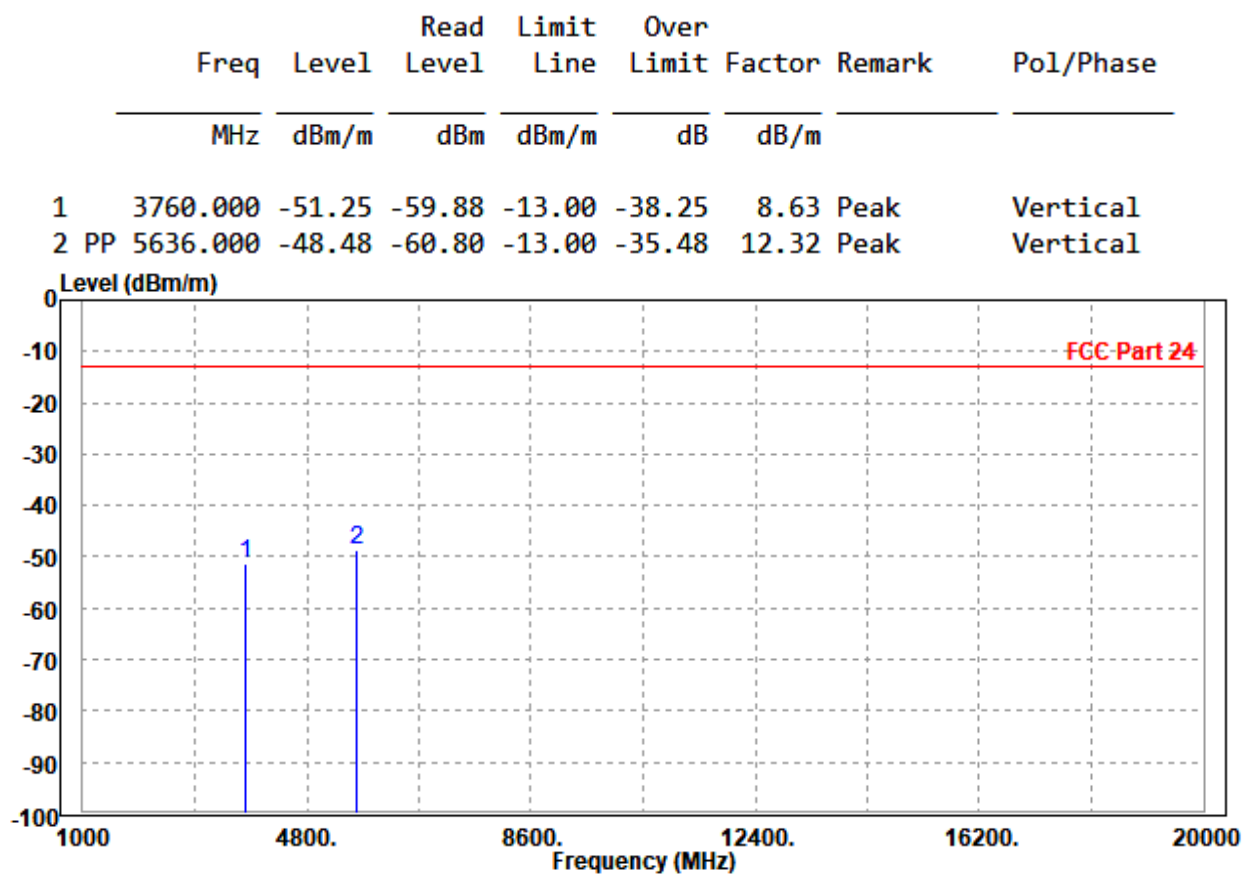
CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Read	Limit	Over				
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-51.05	-59.41	-13.00	-38.05	8.36	Peak	Horizontal
2 PP	5640.000	-47.37	-59.18	-13.00	-34.37	11.81	Peak	Horizontal



MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			





Test Report No.: W7L-P24060002RF02

4 INFORMATION ON THE TESTING LABORATORIES

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

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

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Fax: +86-755-88696577

Email: customerservice.sw@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.

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

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



Test Report No.: W7L-P24060002RF02