

FCC TEST REPORT

(PART 22)

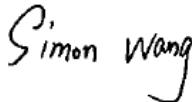
Applicant:	Particle Industries, Inc
Address:	325 9th Street, San Francisco, CA 94103, United States Of America

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 22, Subpart H** ☒ **FCC Part 2**
☒ **ANSI/TIA/EIA-603-D** ☒ **ANSI C63.26-2015**
☒ **ANSI/TIA/EIA-603-E**

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

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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Test Report No.: W7L-P24060002RF01

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P24060002RF01	Original release	Jun. 20, 2024

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2		
STANDARD SECTION	TEST TYPE	RESULT
§2.1046	Conducted Output Power	Compliance
§22.913 (a)(5)	Effective Radiated Power	Compliance
§2.1055 §22.355	Frequency Stability	See note
§2.1049	Occupied Bandwidth	See note
§22.913 (d)	Peak to average ratio*	See note
§22.917(a)	Band Edge Measurements	See note
§2.1051 §22.917(a)	Conducted Spurious Emissions	See note
§2.1053 §22.917(a)	Radiated Spurious Emissions	Compliance

* Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

NOTE: please refer to the module report R1907A0406-R4/R1907A0406-R1(FCC-ID: XMR201909EG91NAX)

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
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions & Radiated Power (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions & Radiated Power (1GHz ~6GHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GHz ~18GHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GHz ~40GHz)	$\pm 4.12\text{dB}$
Conducted Output power	$\pm 2.06\text{dB}$

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	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	QPSK, 16QAM
FREQUENCY RANGE	WCDMA	826.4MHz ~ 846.6MHz
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE Band 5 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE Band 5 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE Band 5 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE Band 26 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE Band 26 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE Band 26 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
	LTE Band 26 (Channel Bandwidth: 15MHz)	831.5MHz ~ 841.5MHz
MAX. ERP POWER	WCDMA	187.5mW
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	207.49mW
	LTE Band 5 (Channel Bandwidth: 3MHz)	206.54mW
	LTE Band 5 (Channel Bandwidth: 5MHz)	207.01mW
	LTE Band 5 (Channel Bandwidth: 10MHz)	208.45mW
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	246.04mW
	LTE Band 26 (Channel Bandwidth: 3MHz)	242.66mW
	LTE Band 26 (Channel Bandwidth: 5MHz)	246.6mW



EMISSION DESIGNATOR GOGN	LTE Band 26 (Channel Bandwidth: 10MHz)	244.91mW
	LTE Band 26 (Channel Bandwidth: 15MHz)	248.89mW
	WCDMA	4M13F9W
	LTE Band 5 Channel Bandwidth: 1.4MHz	QPSK: 1M12G7D 16QAM: 326KW7D
	LTE Band 5 Channel Bandwidth: 3MHz	QPSK: 2M76G7D 16QAM: 408KW7D
	LTE Band 5 Channel Bandwidth: 5MHz	QPSK: 4M54G7D 16QAM: 491KW7D
	LTE Band 5 Channel Bandwidth: 10MHz	QPSK: 9M02G7D 16QAM: 877KW7D
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	QPSK: 1M10G7D 16QAM: 1M10W7D
	LTE Band 26 (Channel Bandwidth: 3MHz)	QPSK: 2M71G7D 16QAM: 2M71W7D
	LTE Band 26 (Channel Bandwidth: 5MHz)	QPSK: 4M51G7D 16QAM: 4M51W7D
	LTE Band 26 (Channel Bandwidth: 10MHz)	QPSK: 8M98G7D 16QAM: 4M74W7D
	LTE Band 26 (Channel Bandwidth: 15MHz)	QPSK: 13M4G7D 16QAM: 1M11W7D
ANTENNA TYPE	FPC Antenna with 1.78dBi gain for WCDMA V/LTE B5 FPC Antenna with 2.61dBi gain for LTE B26	
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	



Test Report No.: W7L-P24060002RF01

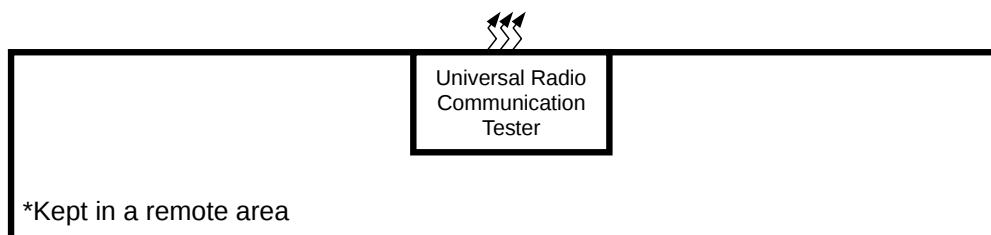
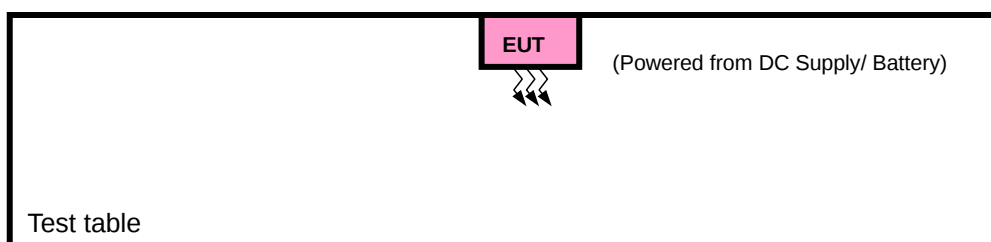
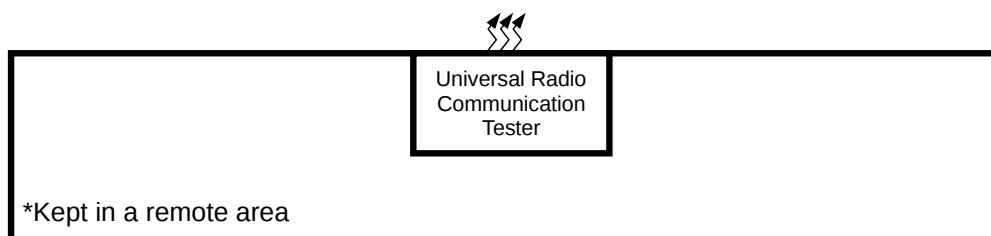
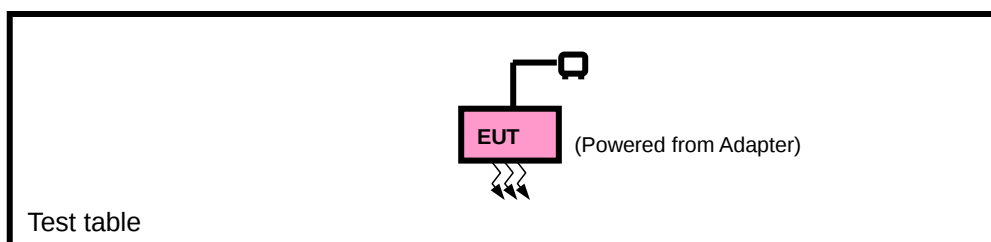
NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. 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

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. 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





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 ERP 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 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	ERP	4132 to 4233	4132, 4183, 4233	WCDMA
A	RADIATED EMISSION	4132 to 4233	4132, 4183, 4233	WCDMA

LTE BAND 5 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM,	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	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 5 are covered by LTE Band 26, Because it is a subset of LTE Band 26 with the same output power and supported bandwidths, So the test data please refer to LTE Band 26

LTE BAND 26 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	26797 to 27033	26915	1.4MHz	QPSK	1 RB / 0 RB Offset
		26805 to 27025	26915	3MHz	QPSK	1 RB / 0 RB Offset
		26815 to 27015	26915	5MHz	QPSK	1 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK	1 RB / 0 RB Offset
		26865 to 26965	26915	15MHz	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
ERP	23deg. C, 70%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 22

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 / Portable station are limited to 7 watts e.r.p.

3.1.2 TEST PROCEDURES

EIRP / ERP 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.

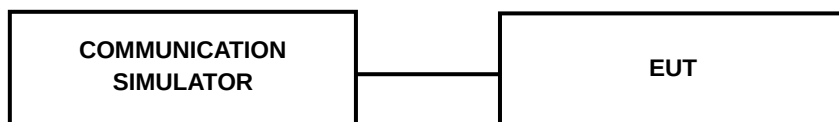
CONDUCTED POWER MEASUREMENT:

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 V		
TX Channel	4132	4183	4233
Frequency (MHz)	826.4	836.6	846.6
RMC 12.2K	22.99	22.97	23.10
HSDPA Subtest-1	22.10	22.26	22.27
HSDPA Subtest-2	22.09	22.23	22.24
HSDPA Subtest-3	21.68	21.77	21.80
HSDPA Subtest-4	21.59	21.65	21.70
DC-HSDPA Subtest-1	22.15	22.11	22.21
DC-HSDPA Subtest-2	22.03	22.26	22.26
DC-HSDPA Subtest-3	21.63	21.58	21.66
DC-HSDPA Subtest-4	21.56	21.61	21.70
HSUPA Subtest-1	22.12	22.22	22.27
HSUPA Subtest-2	20.14	20.28	20.36
HSUPA Subtest-3	21.13	21.25	21.30
HSUPA Subtest-4	20.20	20.18	20.24
HSUPA Subtest-5	22.13	22.19	22.19



LTE Band 5

LTE Band 5						
BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		20450	20525	20600
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	23.44	23.56	23.29
		1	24	23.49	23.55	23.29
		1	49	23.48	23.47	23.24
		25	0	22.24	22.22	22.08
		25	12	22.44	22.40	22.27
		25	25	22.32	22.32	22.13
		50	0	22.33	22.33	22.16
	16QAM	1	0	22.28	22.25	22.05
		1	24	22.14	22.10	21.95
		1	49	22.01	22.13	21.96
		12	0	22.13	22.23	22.01
		12	17	22.35	22.43	22.25
		12	36	22.12	22.13	21.93
		27	0	21.29	21.26	21.12
BW	Modulation	Channel		20425	20525	20625
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	23.30	23.53	23.22
		1	12	23.43	23.52	23.23
		1	24	23.46	23.35	23.13
		12	0	22.16	22.10	22.07
		12	6	22.35	22.26	22.19
		12	13	22.25	22.24	22.10
		25	0	22.27	22.25	22.06
	16QAM	1	0	22.23	22.21	21.96
		1	12	22.09	22.07	21.84
		1	24	21.93	22.00	21.89
		12	0	21.06	21.19	20.91
		12	6	21.20	21.28	21.20
		12	13	21.05	21.12	20.86
		25	0	21.27	21.13	21.03

BW	Modulation	Channel		20415	20525	20635
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	23.34	23.52	23.24
		1	7	23.39	23.40	23.26
		1	14	23.45	23.36	23.11
		8	0	22.13	22.12	22.04
		8	3	22.33	22.29	22.24
		8	7	22.24	22.30	22.06
		15	0	22.29	22.19	22.03
	16QAM	1	0	22.16	22.15	22.00
		1	7	22.03	22.08	21.81
		1	14	21.93	22.01	21.91
		8	0	21.07	21.11	20.95
		8	3	21.23	21.37	21.24
		8	7	21.03	21.09	20.91
		15	0	21.23	21.18	21.02
BW	Modulation	Channel		20407	20525	20643
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	23.43	23.52	23.27
		1	2	23.46	23.54	23.18
		1	5	23.36	23.44	23.12
		3	0	23.10	23.08	23.06
		3	1	23.29	23.37	23.26
		3	3	23.27	23.31	23.11
		6	0	22.30	22.28	22.05
	16QAM	1	0	22.13	22.24	22.00
		1	2	22.08	22.01	21.90
		1	5	21.90	22.10	21.92
		3	0	22.07	22.20	21.94
		3	1	22.21	22.42	22.18
		3	3	22.05	22.08	21.88
		6	0	21.28	21.11	21.10



LTE BAND 26

LTE Band 26						
BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		26865	26915	26965
		Frequency (MHz)		831.5	836.5	841.5
15M	QPSK	1	0	23.24	23.49	23.42
		1	37	23.32	23.47	23.50
		1	74	23.23	23.49	23.39
		36	0	21.95	22.22	22.17
		36	19	22.00	22.26	22.10
		36	39	22.13	22.27	22.30
		75	0	22.19	22.31	22.30
	16QAM	1	0	21.94	22.04	22.04
		1	37	21.98	22.09	22.10
		1	74	21.93	22.11	22.04
		12	0	21.82	21.94	21.87
		12	30	22.10	22.41	22.35
		12	61	22.11	22.31	22.22
		27	0	20.92	21.09	21.13
BW	Modulation	Channel		26840	26915	26990
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	23.21	23.38	23.32
		1	24	23.23	23.34	23.43
		1	49	23.15	23.42	23.29
		25	0	21.82	22.10	22.08
		25	12	21.96	22.18	21.95
		25	25	22.04	22.18	22.18
		50	0	22.18	22.24	22.23
	16QAM	1	0	21.89	21.92	21.90
		1	24	21.89	22.03	22.04
		1	49	21.80	22.01	22.03
		12	0	21.73	21.93	21.81
		12	17	22.02	22.31	22.34
		12	36	22.10	22.16	22.20
		27	0	20.82	20.94	21.07



BW	Modulation	Channel		26815	26915	27015
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	23.09	23.46	23.38
		1	12	23.24	23.46	23.41
		1	24	23.09	23.41	23.35
		12	0	21.83	22.08	22.16
		12	6	21.90	22.25	22.01
		12	13	22.09	22.23	22.28
		25	0	22.10	22.29	22.27
	16QAM	1	0	21.81	21.89	21.92
		1	12	21.84	22.04	21.98
		1	24	21.85	22.10	21.89
		12	0	20.71	20.87	20.78
		12	6	20.97	21.37	21.22
		12	13	21.10	21.20	21.19
		27	0	20.79	21.01	21.09
BW	Modulation	Channel		26805	26915	27025
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	23.18	23.35	23.27
		1	7	23.19	23.39	23.35
		1	14	23.22	23.39	23.37
		8	0	21.80	22.15	22.02
		8	3	21.86	22.24	22.04
		8	7	22.06	22.15	22.27
		15	0	22.18	22.21	22.29
	16QAM	1	0	21.90	21.98	22.01
		1	7	21.84	22.02	21.98
		1	14	21.91	22.04	21.95
		8	0	20.73	20.88	20.82
		8	3	21.09	21.30	21.24
		8	7	20.99	21.20	21.09
		15	0	20.91	20.96	20.98



BW	Modulation	Channel		26797	26915	27033
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	23.11	23.35	23.40
		1	2	23.29	23.32	23.45
		1	5	23.13	23.36	23.25
		3	0	22.85	23.16	23.08
		3	1	22.99	23.15	22.99
		3	3	23.07	23.25	23.25
		6	0	22.11	22.25	22.26
	16QAM	1	0	21.87	21.91	21.92
		1	2	21.96	21.99	21.97
		1	5	21.90	21.96	22.02
		3	0	21.79	21.93	21.78
		3	1	21.95	22.27	22.34
		3	3	22.07	22.25	22.15
		6	0	20.91	21.02	21.09

ERP POWER (dBm)

WCDMA V						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
4132	826.4	22.99	1.78	22.62	182.81	7
4183	836.6	22.97	1.78	22.6	181.97	7
4233	846.6	23.1	1.78	22.73	187.5	7

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

LTE BAND 5

LTE B5 1.4M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	23.46	1.78	23.09	203.7	7
20525	836.5	23.54	1.78	23.17	207.49	7
20643	848.3	23.27	1.78	22.9	194.98	7

LTE B5 1.4M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	22.21	1.78	21.84	152.76	7
20525	836.5	22.42	1.78	22.05	160.32	7
20643	848.3	22.18	1.78	21.81	151.71	7

LTE B5 3M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	23.45	1.78	23.08	203.24	7
20525	836.5	23.52	1.78	23.15	206.54	7
20635	847.5	23.26	1.78	22.89	194.54	7

LTE B5 3M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	22.16	1.78	21.79	151.01	7
20525	836.5	22.15	1.78	21.78	150.66	7
20635	847.5	22	1.78	21.63	145.55	7

LTE B5 5M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	23.46	1.78	23.09	203.7	7
20525	836.5	23.53	1.78	23.16	207.01	7
20625	846.5	23.23	1.78	22.86	193.2	7

LTE B5 5M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	22.23	1.78	21.86	153.46	7
20525	836.5	22.21	1.78	21.84	152.76	7
20625	846.5	21.96	1.78	21.59	144.21	7

LTE B5 10M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829	23.49	1.78	23.12	205.12	7
20525	836.5	23.56	1.78	23.19	208.45	7
20600	844	23.29	1.78	22.92	195.88	7

LTE B5 10M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829	22.35	1.78	21.98	157.76	7
20525	836.5	22.43	1.78	22.06	160.69	7
20600	844	22.25	1.78	21.88	154.17	7

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

**LTE BAND 26**

LTE B26 1.4M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
26797	824.7	23.29	2.61	23.75	237.14	7
26915	836.5	23.36	2.61	23.82	240.99	7
27033	848.3	23.45	2.61	23.91	246.04	7

LTE B26 1.4M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
26797	824.7	22.07	2.61	22.53	179.06	7
26915	836.5	22.27	2.61	22.73	187.5	7
27033	848.3	22.34	2.61	22.8	190.55	7

LTE B26 3M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
26805	825.5	23.22	2.61	23.68	233.35	7
26915	836.5	23.39	2.61	23.85	242.66	7
27025	847.5	23.37	2.61	23.83	241.55	7

LTE B26 3M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
26805	825.5	21.91	2.61	22.37	172.58	7
26915	836.5	22.04	2.61	22.5	177.83	7
27025	847.5	22.01	2.61	22.47	176.6	7

LTE B26 5M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
26815	826.5	23.24	2.61	23.7	234.42	7
26915	836.5	23.46	2.61	23.92	246.6	7
27015	846.5	23.41	2.61	23.87	243.78	7

LTE B26 5M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
26815	826.5	21.85	2.61	22.31	170.22	7
26915	836.5	22.1	2.61	22.56	180.3	7
27015	846.5	21.98	2.61	22.44	175.39	7

LTE B26 10M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
26840	829	23.23	2.61	23.69	233.88	7
26915	836.5	23.42	2.61	23.88	244.34	7
26990	844	23.43	2.61	23.89	244.91	7

LTE B26 10M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
26840	829	22.1	2.61	22.56	180.3	7
26915	836.5	22.31	2.61	22.77	189.23	7
26990	844	22.34	2.61	22.8	190.55	7

LTE B26 15M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
26865	831.5	23.32	2.61	23.78	238.78	7
26915	836.5	23.49	2.61	23.95	248.31	7
26965	841.5	23.5	2.61	23.96	248.89	7

LTE B26 15M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (W)
26865	831.5	22.11	2.61	22.57	180.72	7
26915	836.5	22.41	2.61	22.87	193.64	7
26965	841.5	22.35	2.61	22.81	190.99	7

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

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

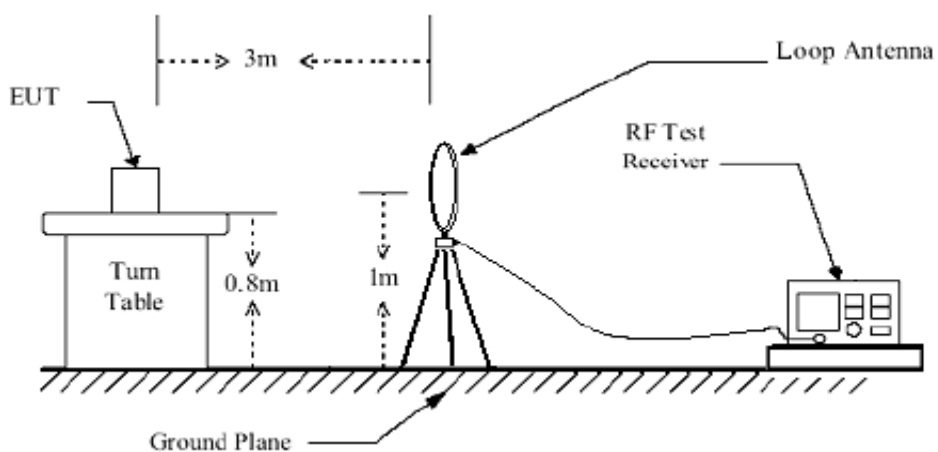
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.2.3 DEVIATION FROM TEST STANDARD

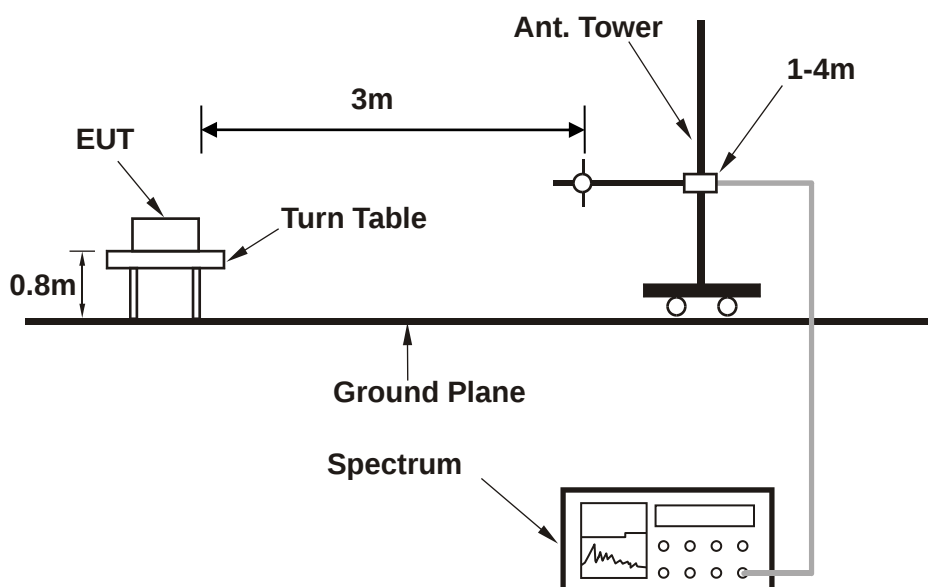
No deviation

3.2.4 TEST SETUP

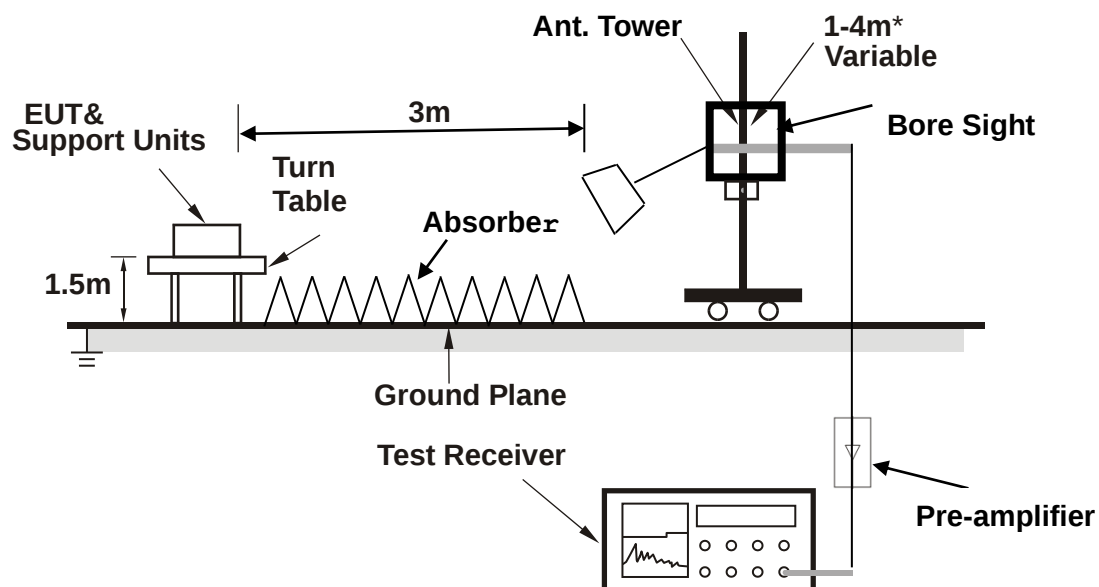
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<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).

3.2.5 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

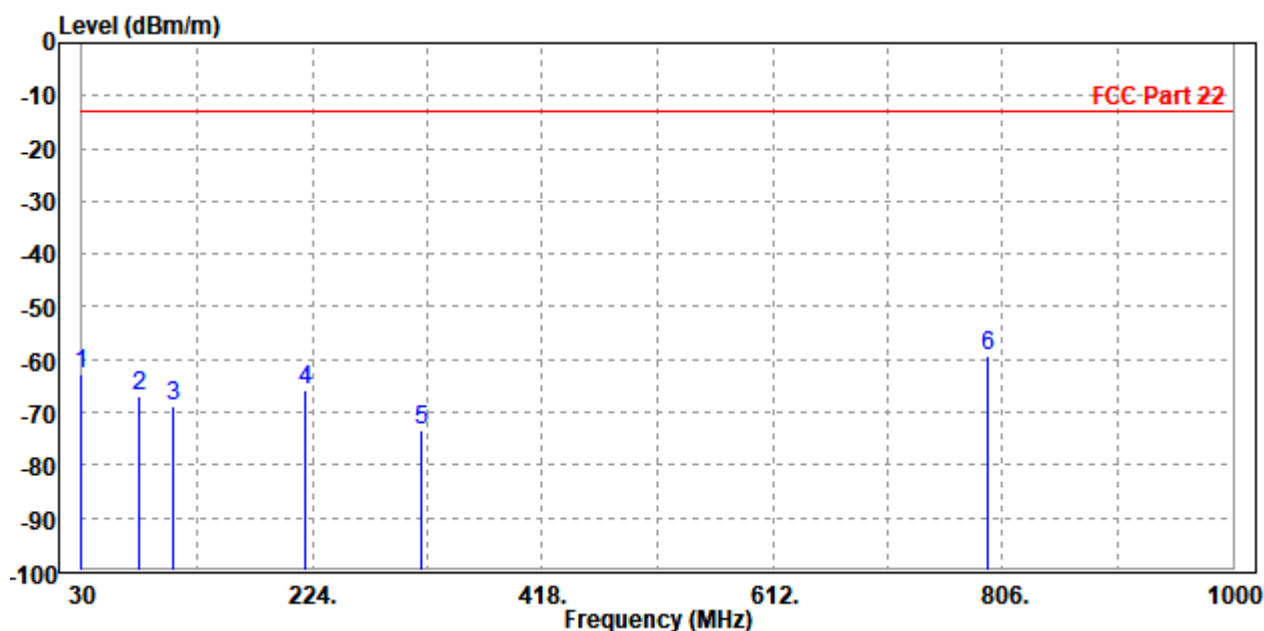
30 MHz – 1GHz data:

WCDMA V:

CHANNEL BANDWIDTH: 4132 ~ 4233

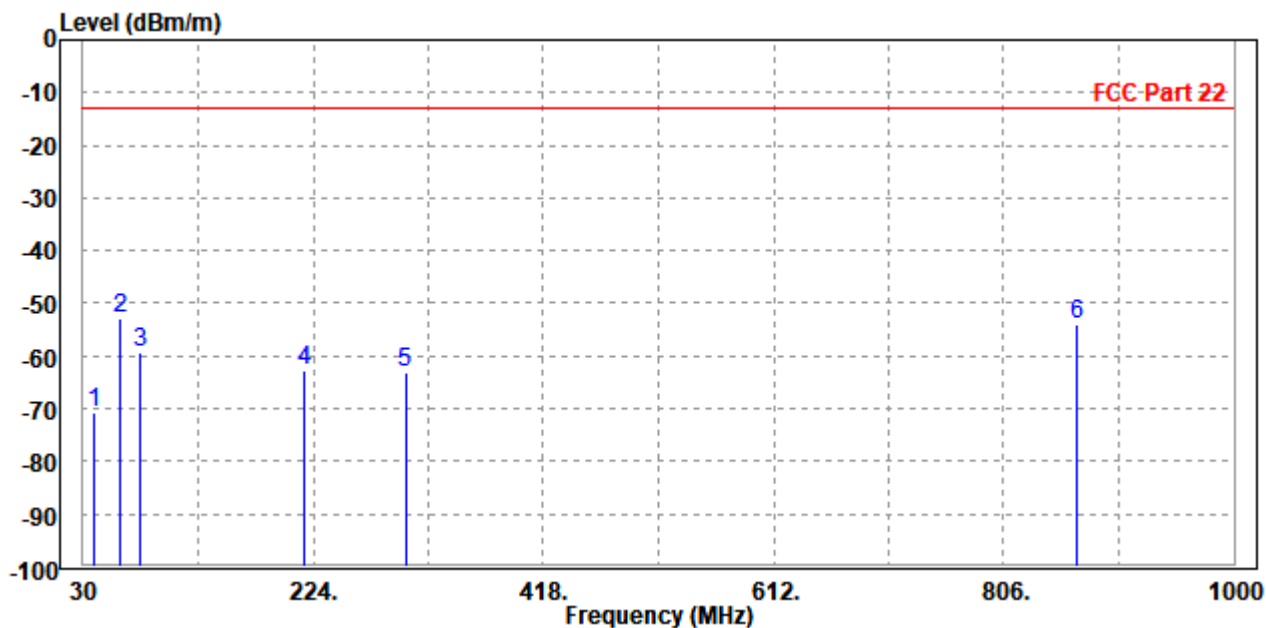
MODE	TX channel 4183	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	30.000	-62.78	-60.80	-13.00	-49.78	-1.98	Peak	Horizontal
2	77.530	-66.91	-54.32	-13.00	-53.91	-12.59	Peak	Horizontal
3	107.600	-68.97	-54.95	-13.00	-55.97	-14.02	Peak	Horizontal
4	218.180	-65.93	-52.09	-13.00	-52.93	-13.84	Peak	Horizontal
5	315.180	-73.51	-64.99	-13.00	-60.51	-8.52	Peak	Horizontal
6 PP	793.390	-59.21	-64.37	-13.00	-46.21	5.16	Peak	Horizontal



MODE	TX channel 4183	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	38.730	-70.67	-50.29	-13.00	-57.67	-20.38	Peak	Vertical
2 PP	61.040	-52.82	-34.33	-13.00	-39.82	-18.49	Peak	Vertical
3	78.500	-59.29	-40.08	-13.00	-46.29	-19.21	Peak	Vertical
4	216.240	-62.72	-55.31	-13.00	-49.72	-7.41	Peak	Vertical
5	301.600	-62.97	-59.55	-13.00	-49.97	-3.42	Peak	Vertical
6	868.080	-54.15	-64.01	-13.00	-41.15	9.86	Peak	Vertical





ABOVE 1GHz DATA

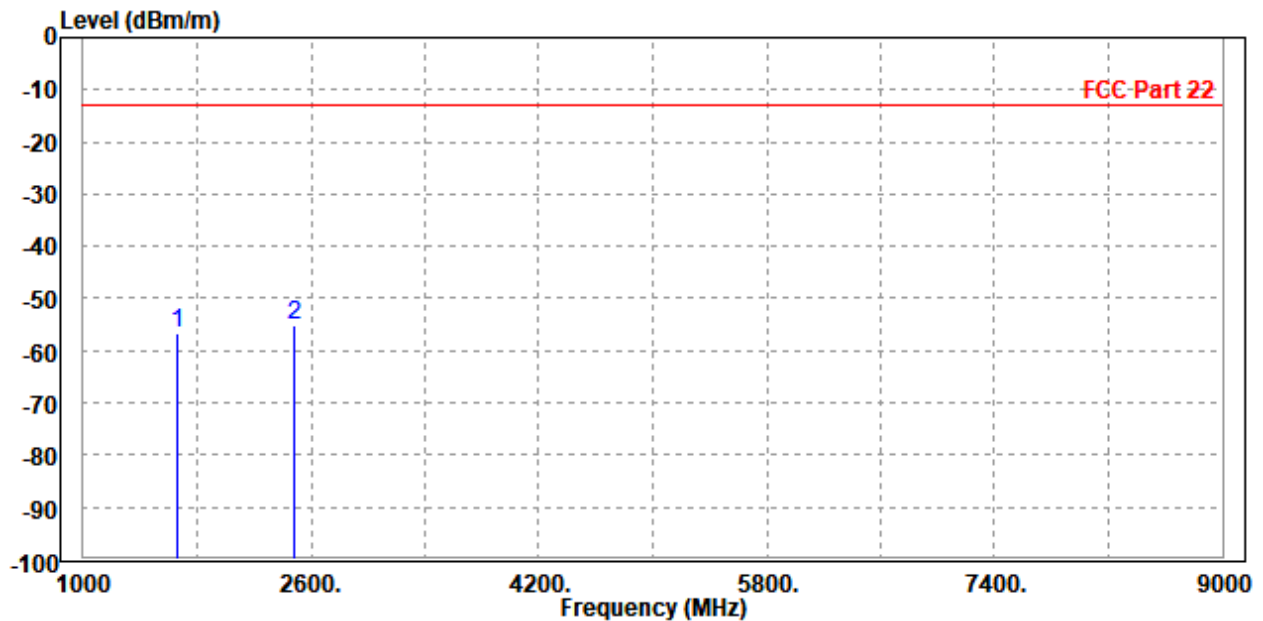
Note: For higher frequency, the emission is too low to be detected.

WCDMA Band V:

CH 4132:

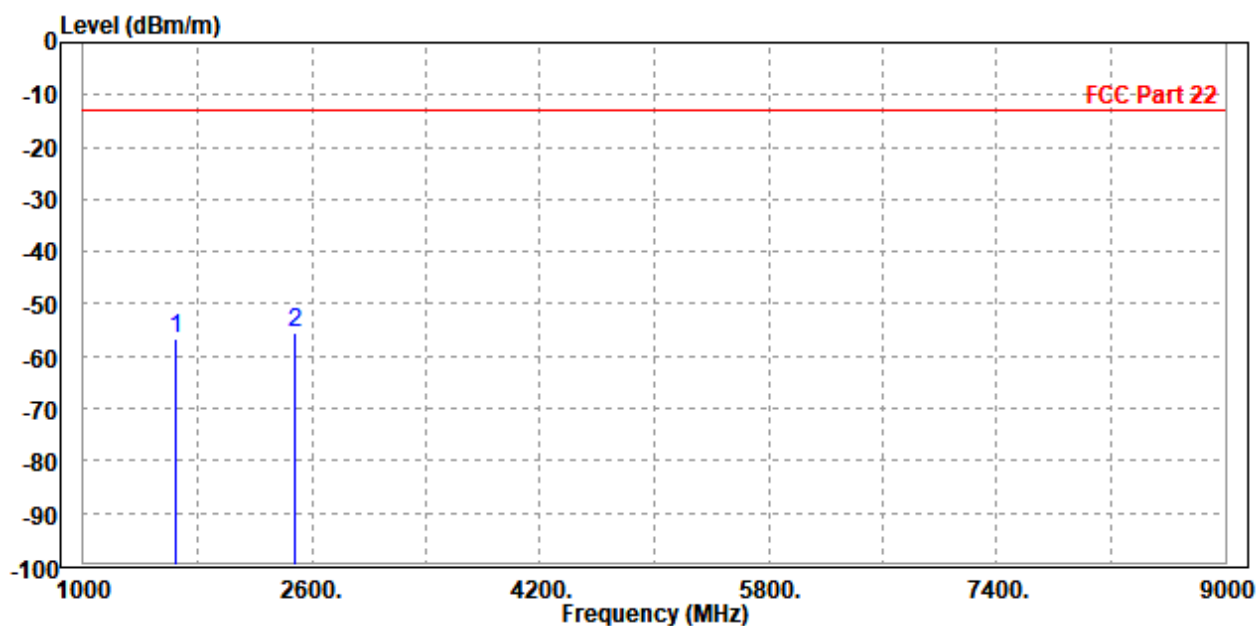
MODE	TX channel 4132	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1656.000	-56.49	-60.17	-13.00	-43.49	3.68	Peak	Horizontal
2 PP	2479.200	-55.21	-61.25	-13.00	-42.21	6.04	Peak	Horizontal



MODE	TX channel 4132	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			

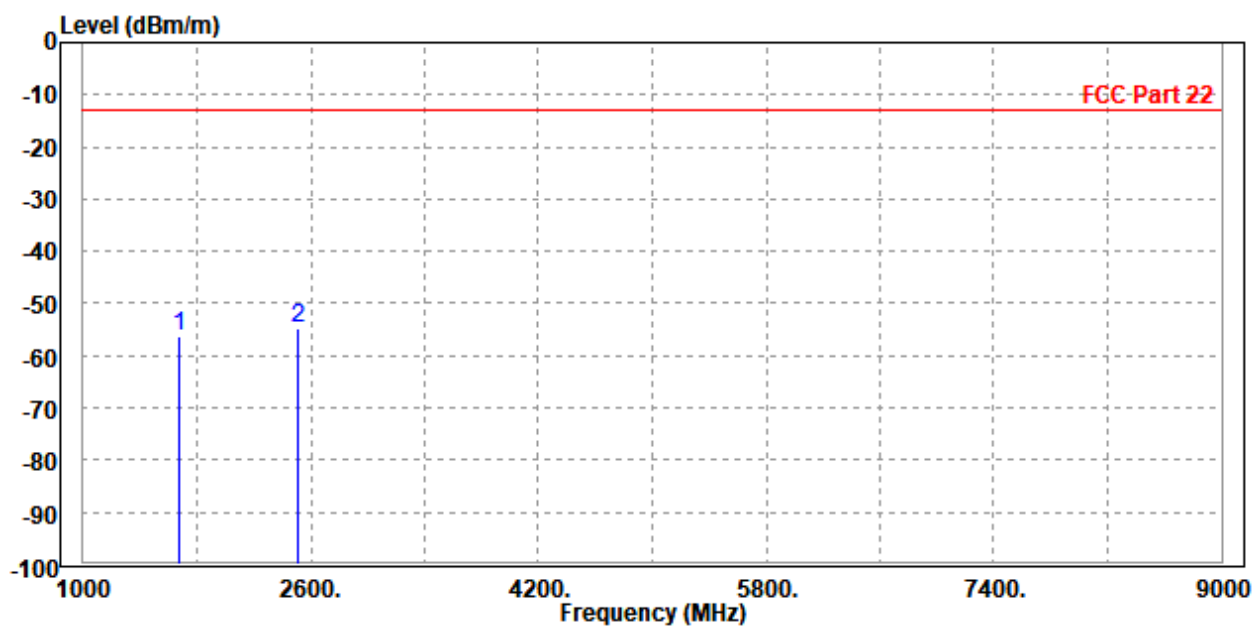
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1652.800	-56.78	-60.18	-13.00	-43.78	3.40	Peak	Vertical
2 PP	2480.000	-55.50	-61.21	-13.00	-42.50	5.71	Peak	Vertical



CH 4183:

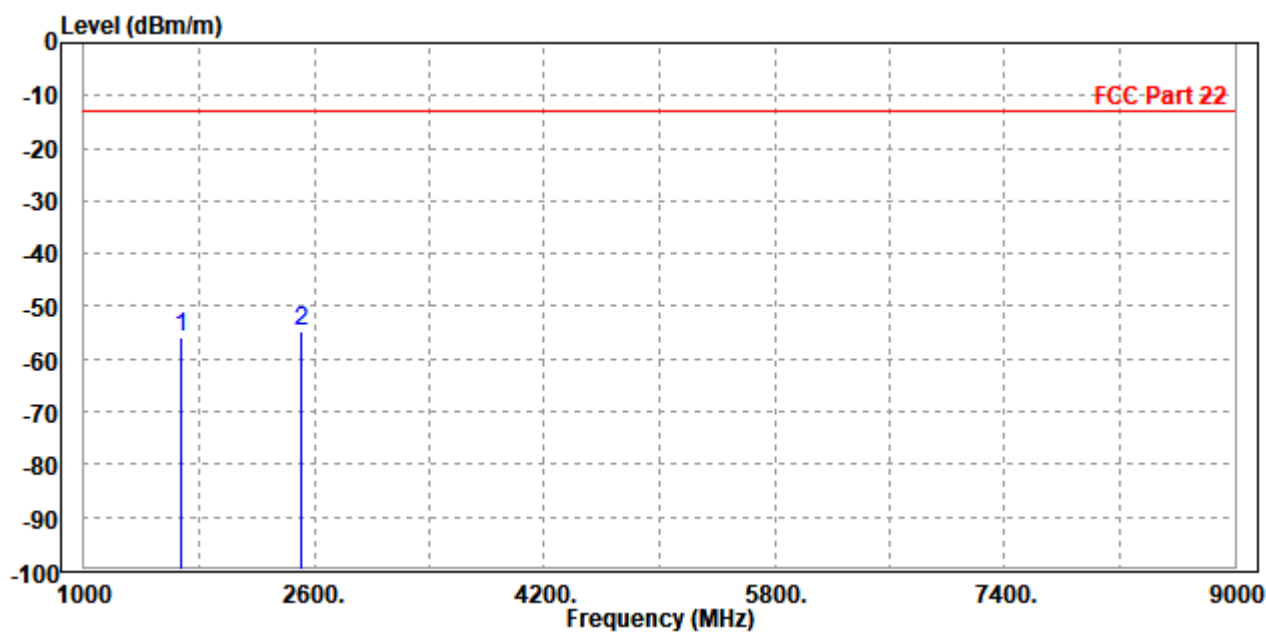
MODE	TX channel 4183	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.800	-56.39	-60.13	-13.00	-43.39	3.74	Peak	Horizontal
2	PP 2512.000	-54.81	-60.96	-13.00	-41.81	6.15	Peak	Horizontal



MODE	TX channel 4183	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			

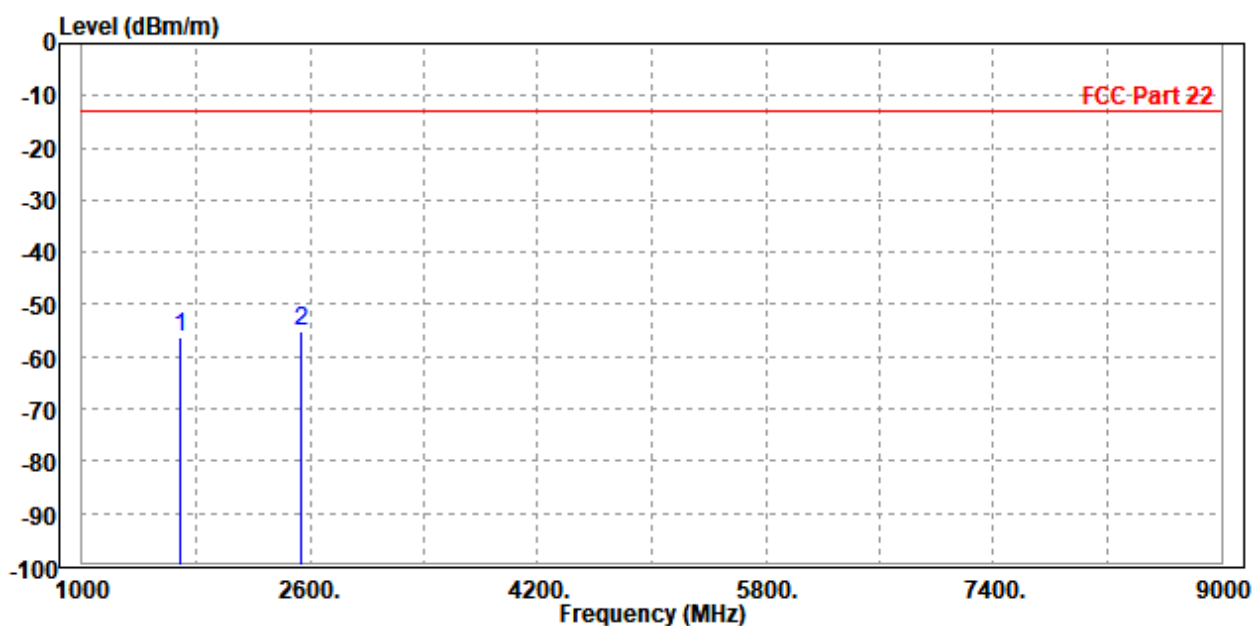
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-55.75	-59.18	-13.00	-42.75	3.43	Peak	Vertical
2 PP	2509.200	-54.79	-60.63	-13.00	-41.79	5.84	Peak	Vertical



CH 4233:

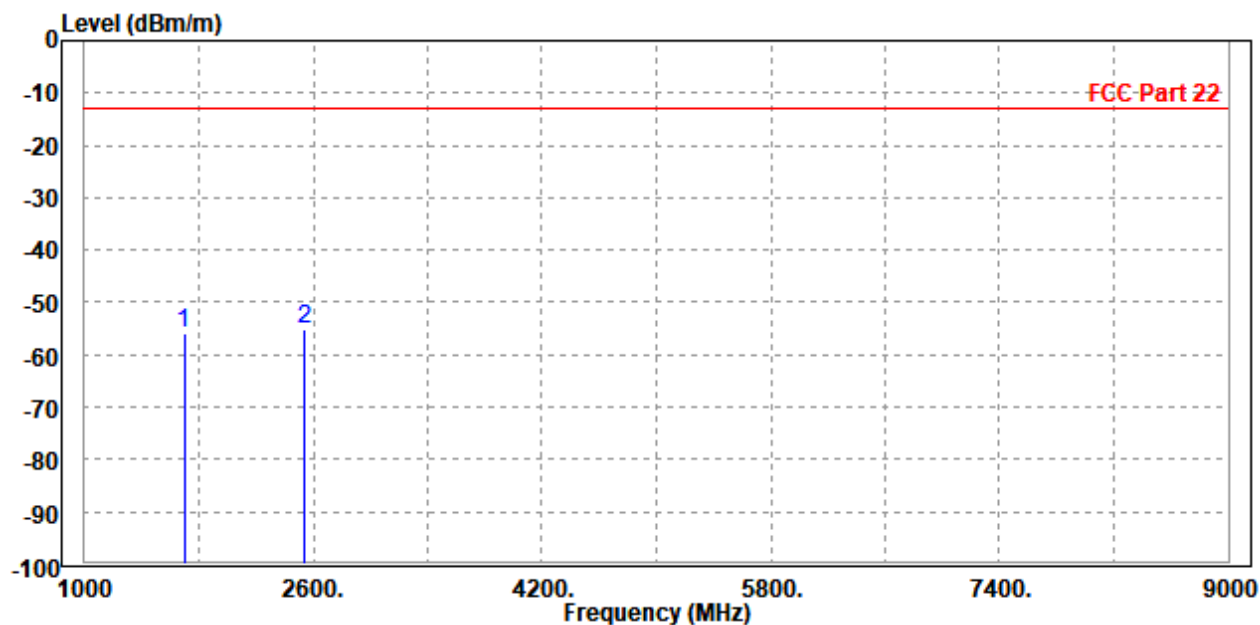
MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1693.200	-56.38	-60.18	-13.00	-43.38	3.80	Peak	Horizontal
2 PP	2536.000	-54.99	-61.24	-13.00	-41.99	6.25	Peak	Horizontal



MODE	TX channel 4233	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	1696.000	-55.86	-59.33	-13.00	-42.86	3.47	Peak	Vertical
2 PP	2539.800	-55.14	-61.16	-13.00	-42.14	6.02	Peak	Vertical





**BUREAU
VERITAS**

Test Report No.: W7L-P24060002RF01

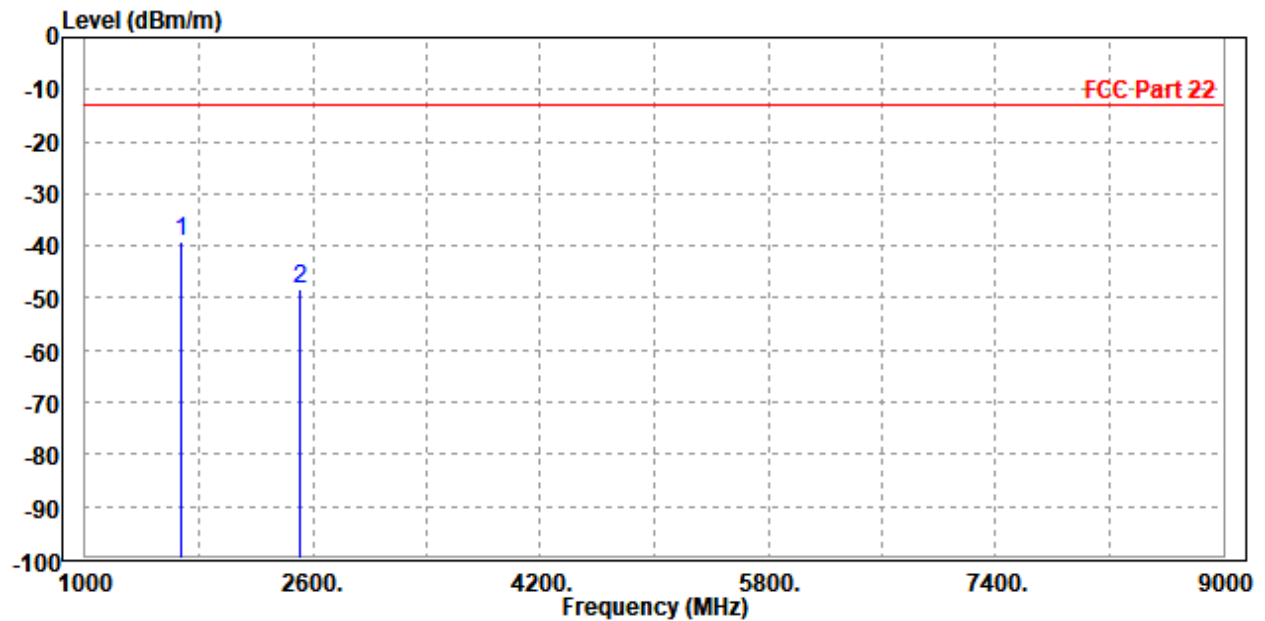
LTE Band 26

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH26915

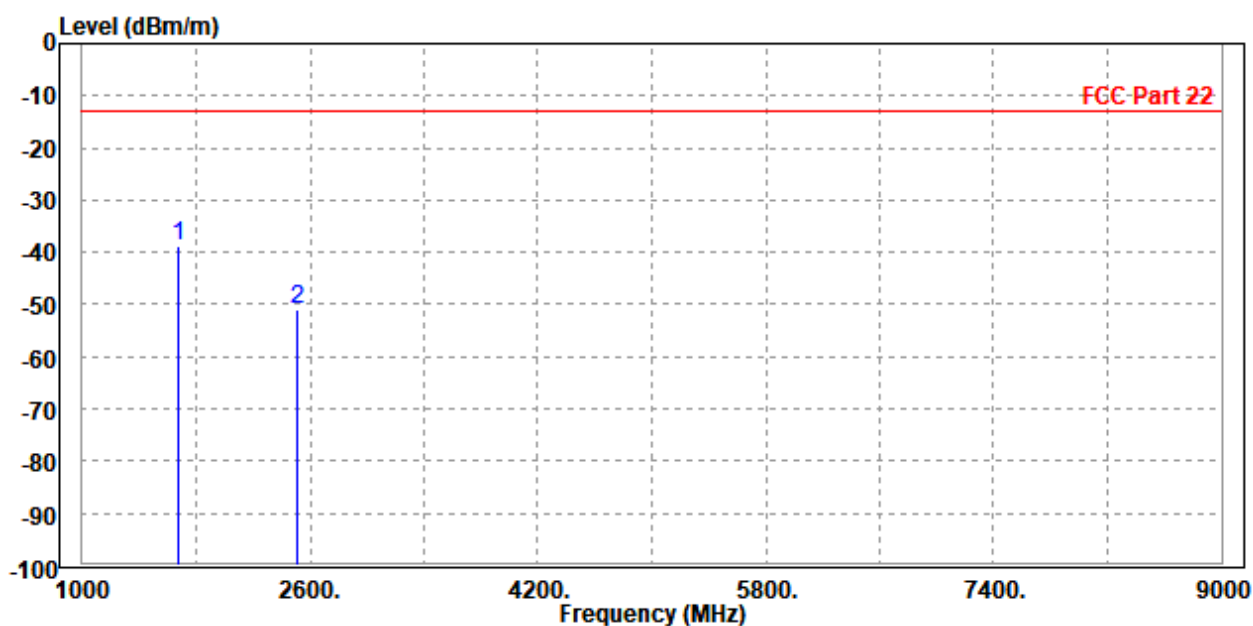
MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

			Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1672.000	-39.02	-42.75	-13.00	-26.02	3.73	Peak	Horizontal
2	2508.000	-48.29	-54.42	-13.00	-35.29	6.13	Peak	Horizontal



MODE	TX channel 26915	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			

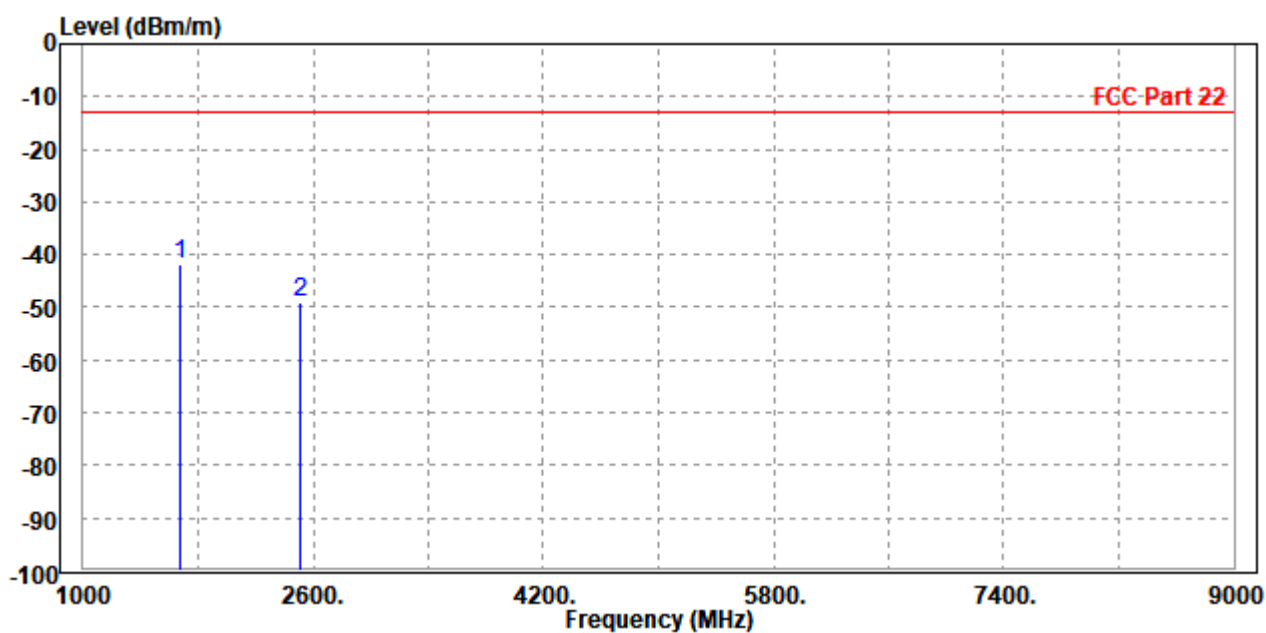
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1672.000	-38.72	-42.15	-13.00	-25.72	3.43	Peak	Vertical
2	2504.000	-51.00	-56.80	-13.00	-38.00	5.80	Peak	Vertical



CHANNEL BANDWIDTH: 3MHz / QPSK

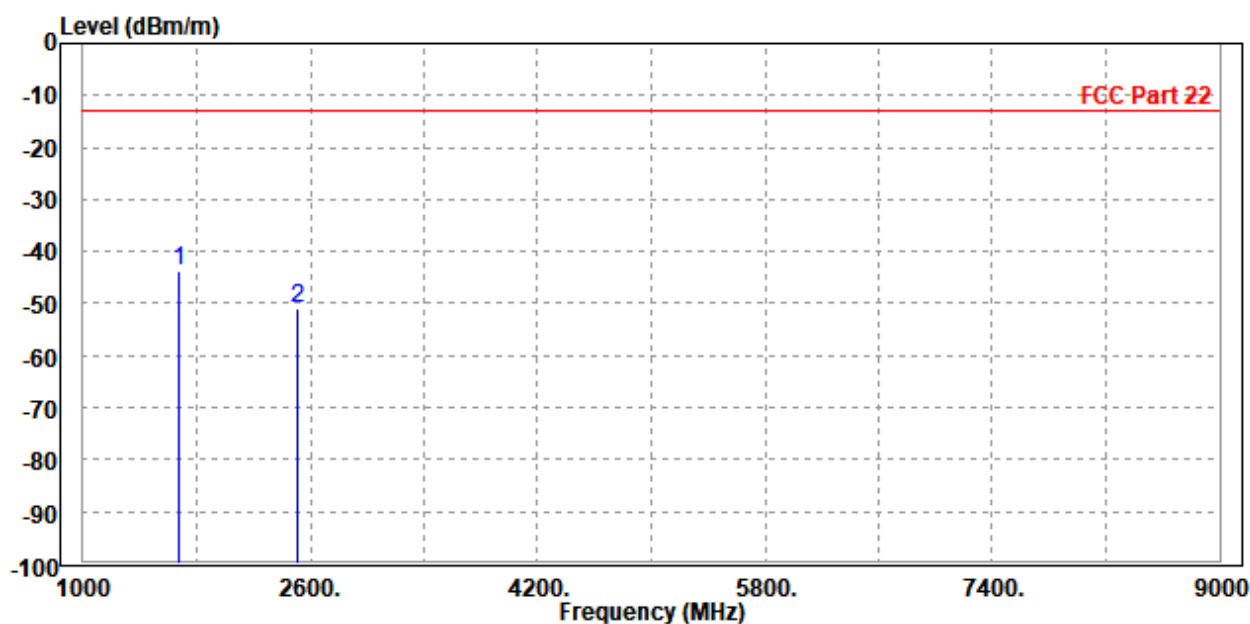
MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

			Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1672.000	-41.73	-45.46	-13.00	-28.73	3.73	Peak	Horizontal
2	2504.000	-49.03	-55.15	-13.00	-36.03	6.12	Peak	Horizontal



MODE	TX channel 26915	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 PP	1672.000	-43.79	-47.22	-13.00	-30.79	3.43	Peak	Vertical
2	2508.000	-50.95	-56.78	-13.00	-37.95	5.83	Peak	Vertical

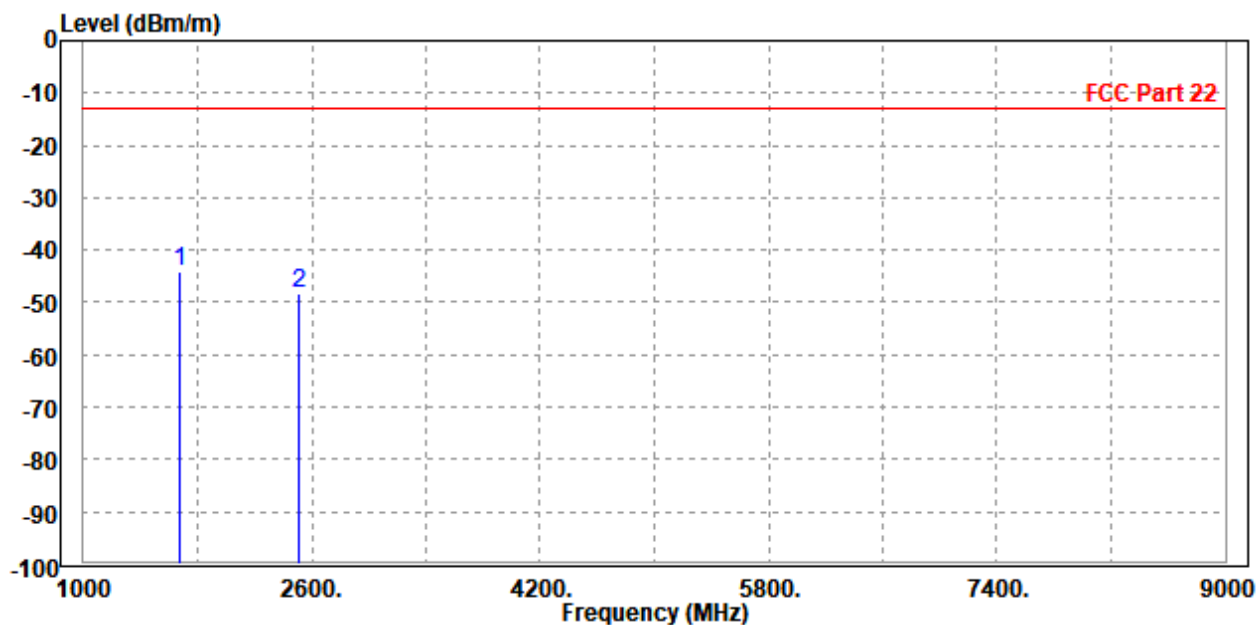




CHANNEL BANDWIDTH: 5MHz / QPSK

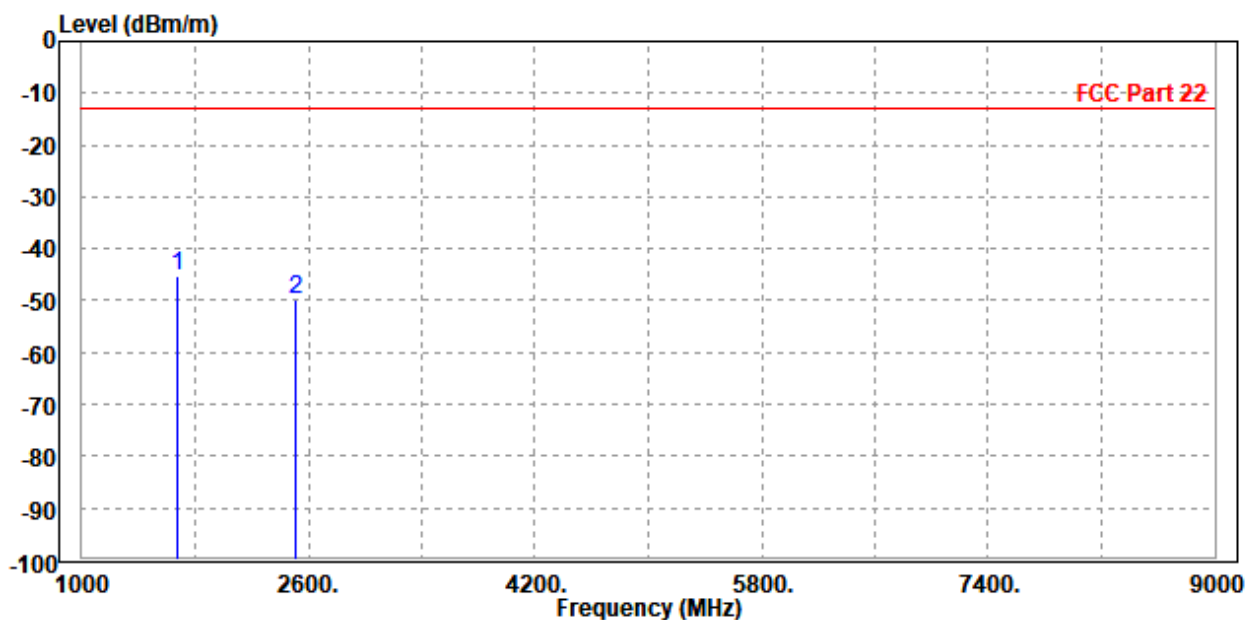
MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

			Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1672.000	-44.06	-47.79	-13.00	-31.06	3.73	Peak	Horizontal
2	2508.000	-48.24	-54.37	-13.00	-35.24	6.13	Peak	Horizontal



MODE	TX channel 26915	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			

			Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1672.000	-45.27	-48.70	-13.00	-32.27	3.43	Peak	Vertical
2	2504.000	-49.94	-55.74	-13.00	-36.94	5.80	Peak	Vertical

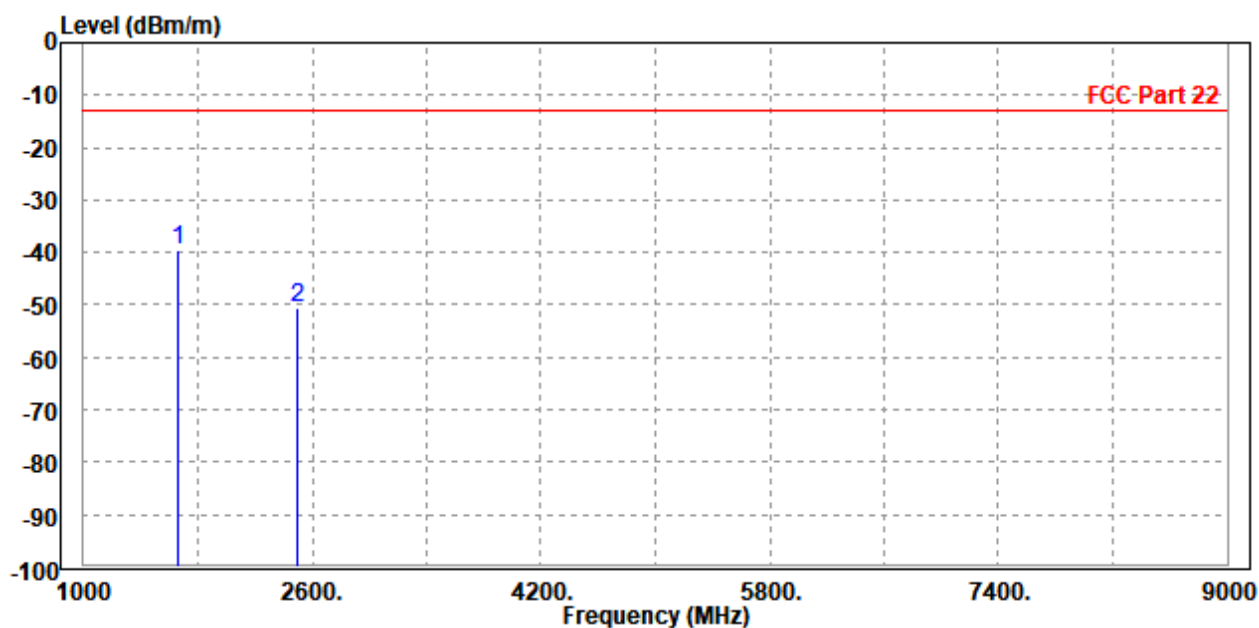


CHANNEL BANDWIDTH: 10MHz / QPSK

CH 26840

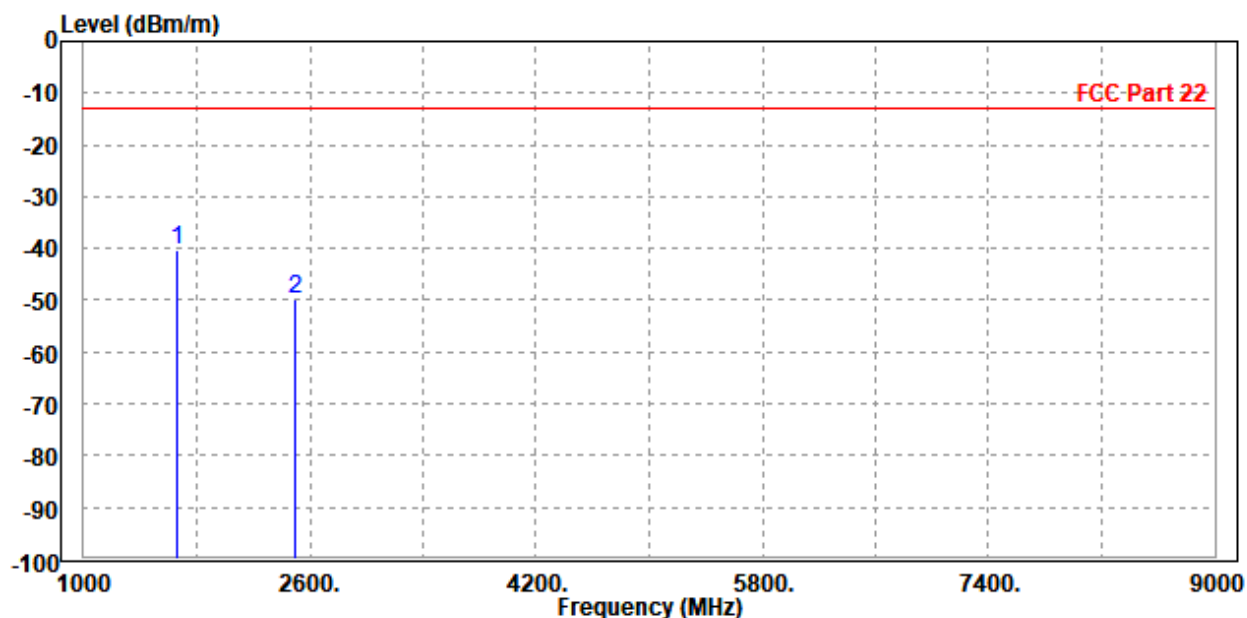
MODE	TX channel 26840	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

			Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1656.000	-39.36	-43.04	-13.00	-26.36	3.68	Peak	Horizontal
2	2496.000	-50.47	-56.56	-13.00	-37.47	6.09	Peak	Horizontal



MODE	TX channel 26840	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			

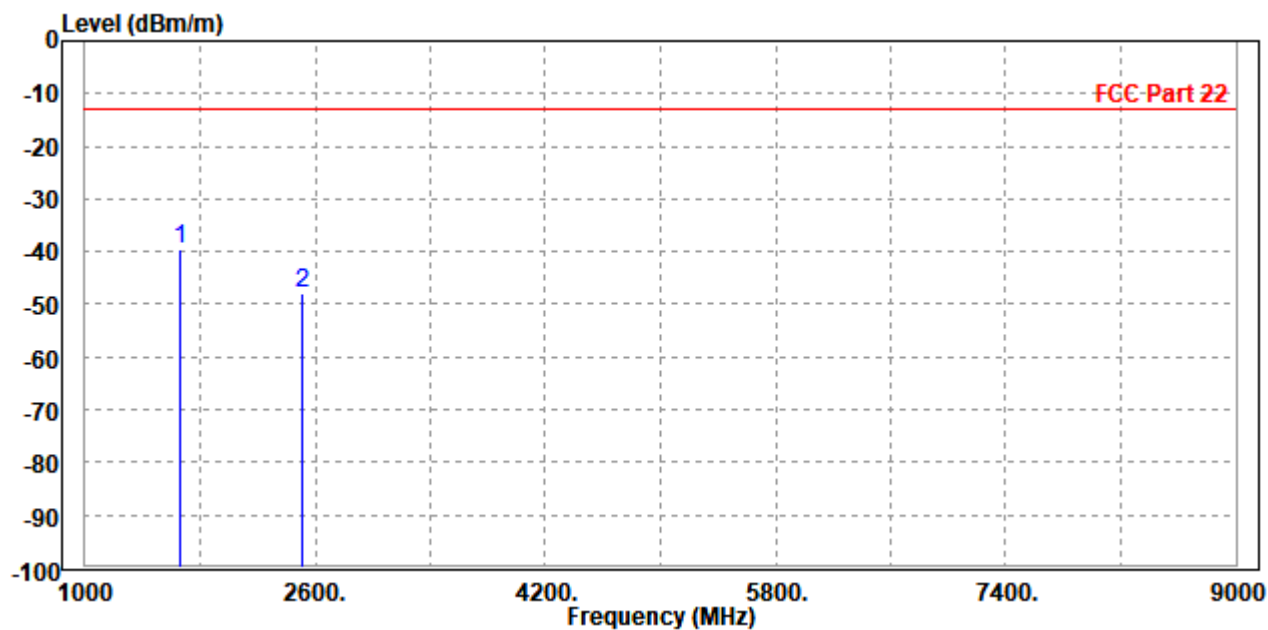
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1656.000	-40.46	-43.86	-13.00	-27.46	3.40	Peak	Vertical
2	2493.000	-49.86	-55.62	-13.00	-36.86	5.76	Peak	Vertical



CH 26915

MODE	TX channel 26915	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 PP	1664.000	-39.39	-43.10	-13.00	-26.39	3.71	Peak	Horizontal
2	2504.000	-48.03	-54.15	-13.00	-35.03	6.12	Peak	Horizontal



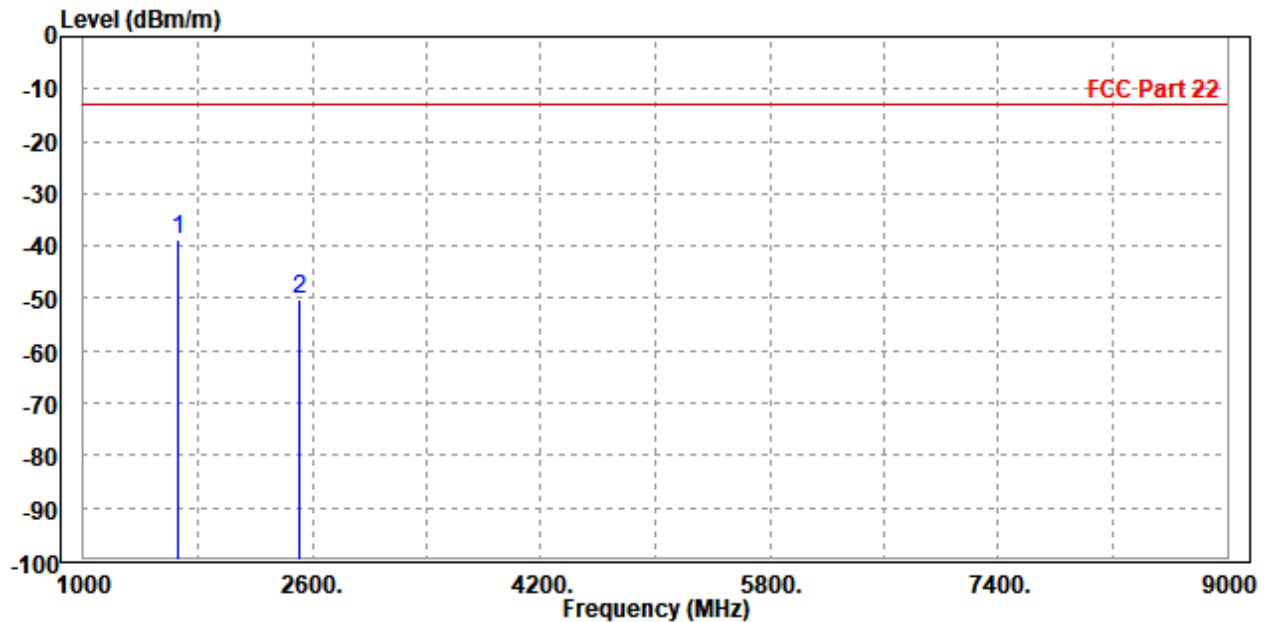


**BUREAU
VERITAS**

Test Report No.: W7L-P24060002RF01

MODE	TX channel 26915	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			

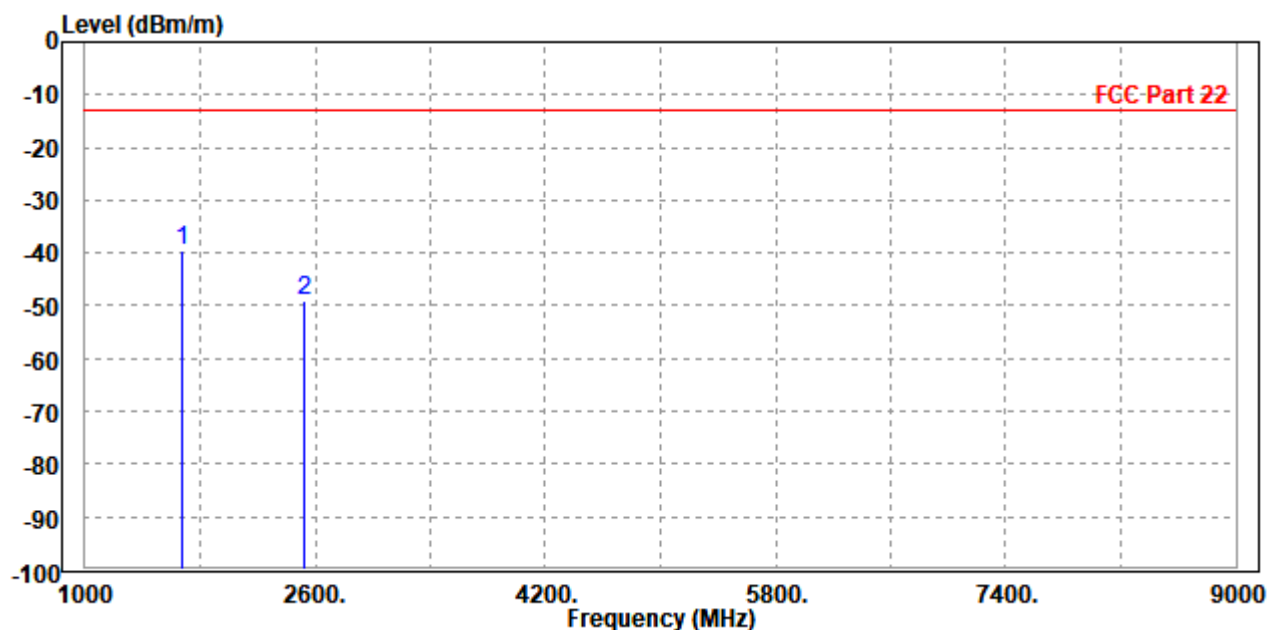
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1664.000	-38.67	-42.09	-13.00	-25.67	3.42	Peak	Vertical
2	2508.000	-50.17	-56.00	-13.00	-37.17	5.83	Peak	Vertical



CH 26990

MODE	TX channel 26990	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	PP	1672.000	-39.72	-43.45	-13.00	-26.72	3.73	Peak	Horizontal
2		2520.000	-49.12	-55.31	-13.00	-36.12	6.19	Peak	Horizontal



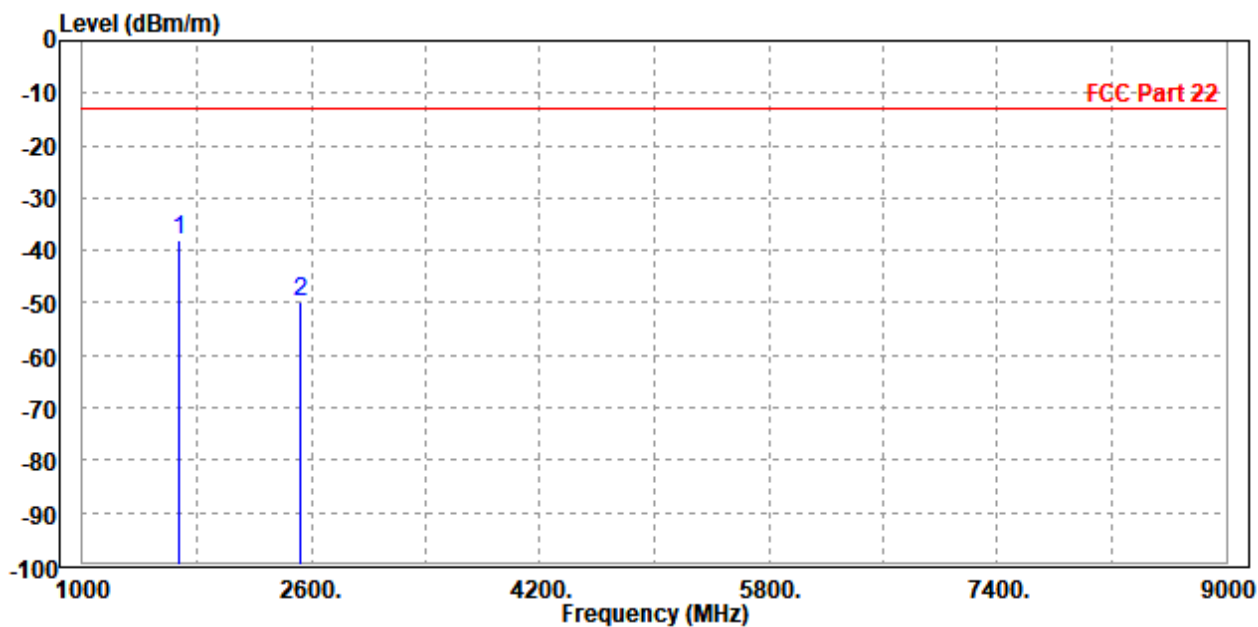


BUREAU
VERITAS

Test Report No.: W7L-P24060002RF01

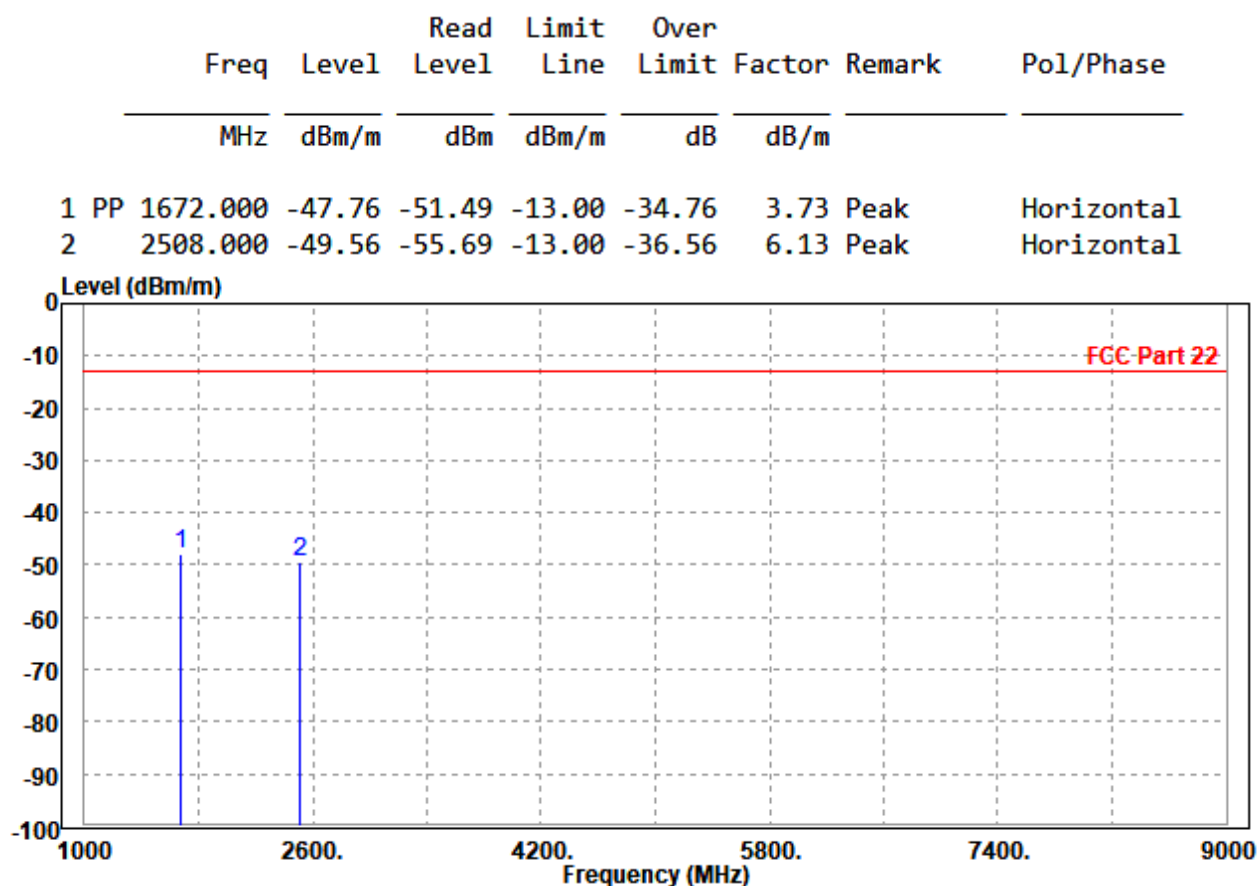
MODE	TX channel 26990	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

			Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1672.000	-37.84	-41.27	-13.00	-24.84	3.43	Peak	Vertical
2	2523.000	-49.87	-55.79	-13.00	-36.87	5.92	Peak	Vertical



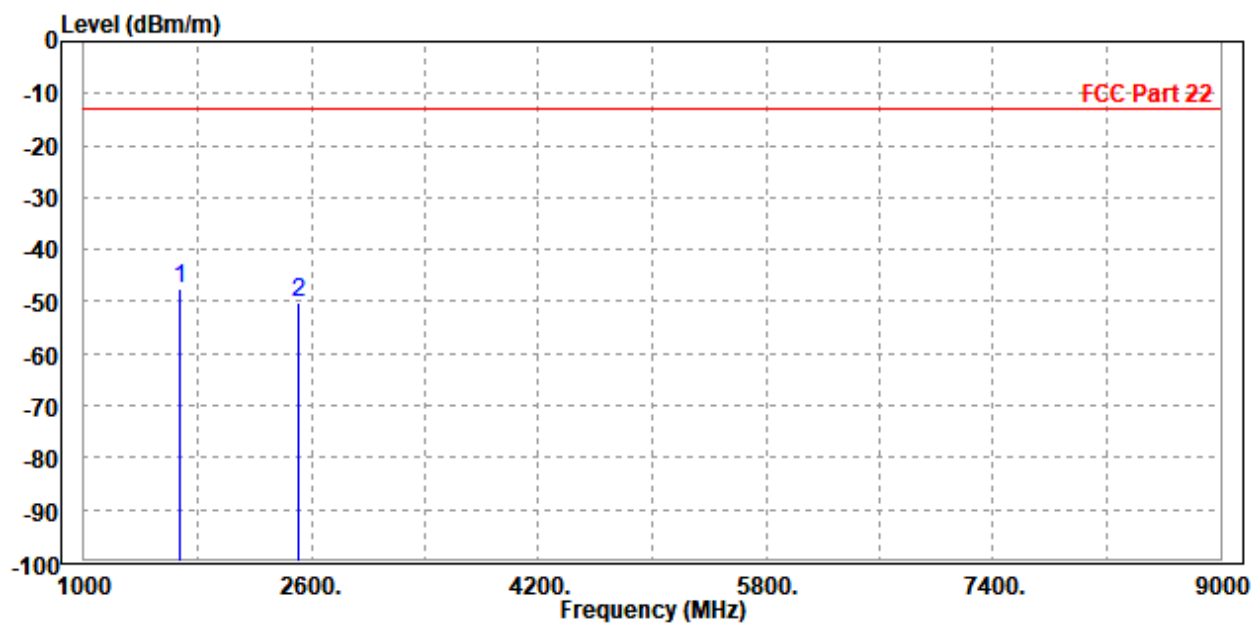
CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 26915	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 26915	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 PP	1672.000	-47.60	-51.03	-13.00	-34.60	3.43	Peak	Vertical
2	2504.000	-50.15	-55.95	-13.00	-37.15	5.80	Peak	Vertical



4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



Test Report No.: W7L-P24060002RF01

5 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.

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

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

--END--



Test Report No.: W7L-P24060002RF01