




FCC PART 15B, CLASS B TEST REPORT

For

Wave WiFi, Inc.

4828 NE 12th Ave, Oakland Park, FL 33334, USA

FCC ID: 2ALM9WWR

Report Type: Original Report	Product Type: Rogue PRO's
Report Number: <u>RSZ170310005-00A</u>	
Report Date: <u>2017-04-10</u>	
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Wave WiFi, Inc.'s product, model number: *Rogue Wave* (FCC ID: 2ALM9WWR) or the "EUT" in this report was a *Rogue PRO's*, which was measured approximately: 705 mm (L) × 44 mm (W) × 36 mm (H), rated with input voltage: DC 12.0V from RJ45 port. The highest operating frequency is 2462MHz.

Adapter Information:

Model: DSA-12PFG-12 FUS 120100

Input: AC100-240V, 50/60Hz, 0.5A

Output: 12V, 1A

Notes: This series products model: Rogue Reach and Rogue Wave PRO, Rogue Wave are identical; they have the identical schematics, only difference among them is model number and material type (metal for Rogue Wave PRO, plastic for Rogue Wave, and fiberglass for Rogue Reach) also size and shape of the casing for aesthetics and mounting purposes.. Model Rogue Wave was selected for fully testing, the detailed information can be referred to the declaration which was stated and guaranteed by the applicant.

**All measurement and test data in this report was gathered from production sample serial number: 1700383-A(Rogue Wave), 1700383-B(Rogue Reach), 1700383-C(Rogue Wave PRO),(Assigned by BACL, Kunshan).The EUT supplied by the applicant was received on 2017-03-10.*

Objective

This test report is prepared on behalf of Wave WiFi, Inc. in accordance with Part 2-Subpart J, Part 15-Subparts A, B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15 B.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DTS submissions with FCC ID: 2ALM9WWR.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		± 3.26 dB
Radiated emission	30MHz~1GHz	± 5.91 dB
	Above 1G	± 4.92 dB

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Test site at Bay Area Compliance Laboratories Corp. (Kunshan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 06, 2014. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 815570. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a manufacturer testing fashion.

EUT operation mode: Communication with computer

EUT Exercise Software

No exercise software was used.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

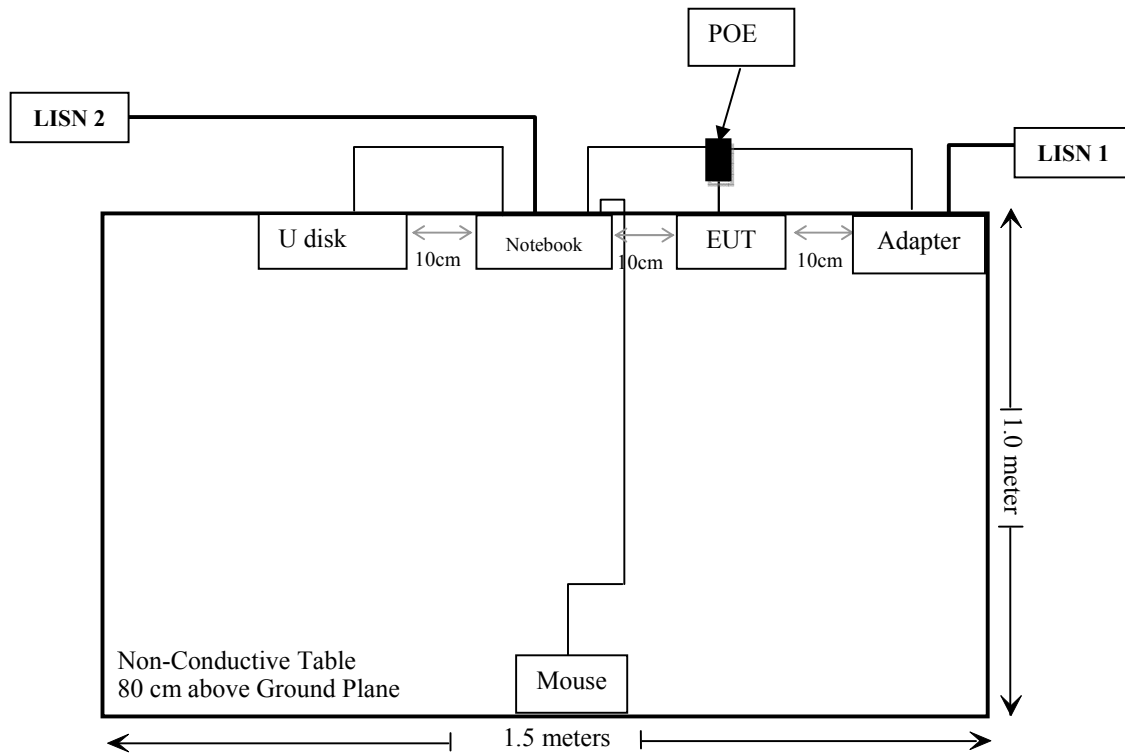
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	Notebook	E6410	GYXJ3A00 JSD2
DELL	Mouse	MOC5UO	G1900NKD
DELL	Adapter	LA90PM130	CN-06C3W2-72438-6BT-194A-A03
Kingston	U disk	4 GB	N/A

External I/O Cable

Cable Description	Length (m)	From/Port	To
Un-Shielding Detachable USB Cable	1.5	Notebook	Mouse
Un-shielding Detachable USB Cable	1.0	U disk	Notebook
Un-shielding Detachable AC Cable	0.9	Adapter	LISN 1
Un-shielding Un-detachable AC Cable	1.5	LISN 2	Notebook
Un-shielding detachable DC to RJ45 Cable	1.2	Adapter	EUT
Un-shielding Detachable RJ45 Cable	1.0	EUT	PC

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliance
§15.109	Radiated Spurious Emissions	Compliance

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCS30	834115/007	2016-11-25	2017-11-25
Rohde & Schwarz	LISN	ESH3-Z5	862770/011	2016-10-10	2017-10-10
Rohde & Schwarz	Pulse limiter	ESH3-Z2	879940/0058	2016-06-19	2017-06-18
MICRO-COAX	Coaxial line	UFB-293B-1-0480-50X50	97F0173	2016-09-08	2017-09-08
Rohde & Schwarz	CE Test software	EMC 32	V 09.10.0	NCR	NCR
Radiated Emission Test					
Sonoma Instrument	Amplifier	330	171377	2016-10-21	2017-10-21
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2016-11-25	2017-11-25
Sunol Sciences	Broadband Antenna	JB3	A090314-2	2016-01-09	2019-01-08
Narda	Pre-amplifier	AFS42-00101800	2001270	2016-09-08	2017-09-08
EMCO	Horn Antenna	3116	00084159	2016-10-18	2019-10-17
Rohde & Schwarz	Signal Analyzer	FSIQ26	100048	2016-11-25	2017-11-25
ETS	Horn Antenna	3115	6229	2016-01-11	2019-01-10
R&S	Auto test Software	EMC32	V 09.10.0	NCR	NCR
haojintech	Coaxial Cable	Cable-1	001	2016-12-12	2017-12-12
haojintech	Coaxial Cable	Cable-2	002	2016-12-12	2017-12-12
haojintech	Coaxial Cable	Cable-3	003	2016-12-12	2017-12-12
MICRO-COAX	Coaxial Cable	Cable-4	004	2016-12-12	2017-12-12
MICRO-COAX	Coaxial Cable	Cable-5	005	2016-12-12	2017-12-12

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI)

FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

According to FCC §15.107

EUT Setup



Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with per ANSI C63.4-2014. The related limit was specified in FCC Part 15.107 Class B.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adaptor of PC was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.107.

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL., $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

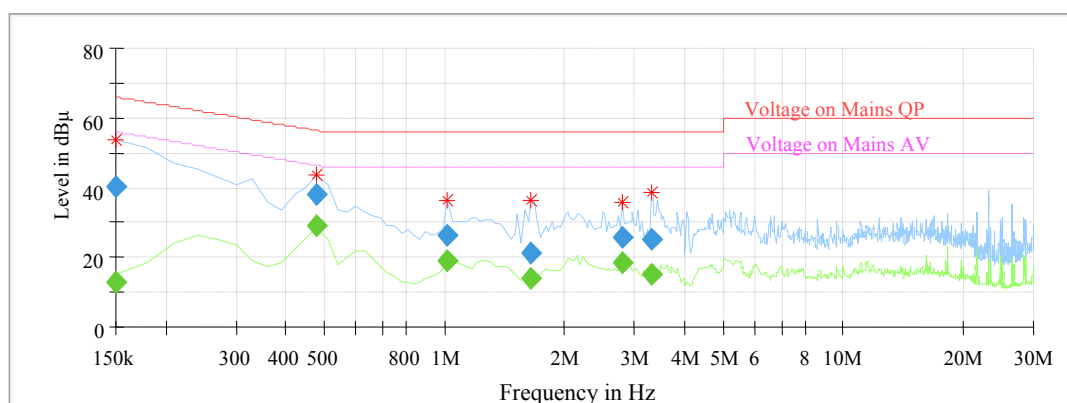
The testing was performed by Layne Li on 2017-03-24.

EUT Operation Mode: Communication with computer

For Rogue Reach :

AC 120V/60 Hz, Line

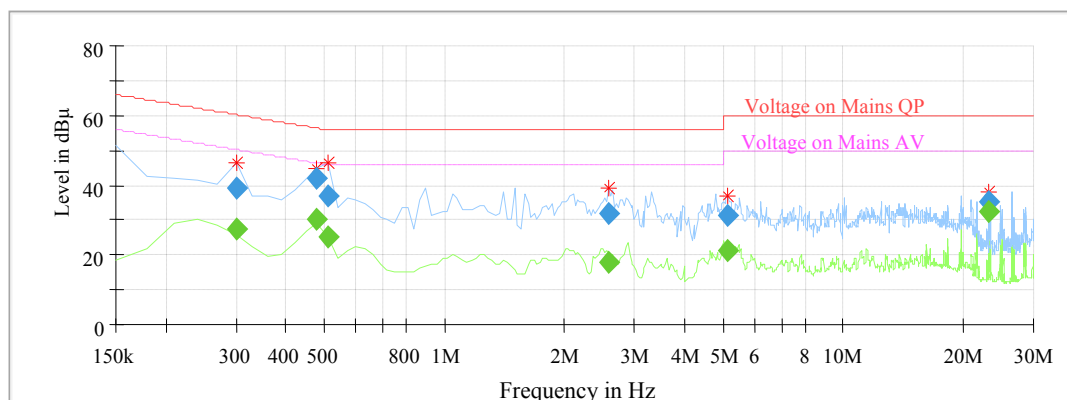
Full Spectrum



Frequency (MHz)	QuasiPeak (dBμV)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.150000	---	12.83	9.000	L1	10.1	43.17	56.00	Compliance
0.150000	40.17	---	9.000	L1	10.1	25.83	66.00	Compliance
0.480000	---	29.28	9.000	L1	10.1	17.06	46.34	Compliance
0.480000	37.79	---	9.000	L1	10.1	18.55	56.34	Compliance
1.020000	---	18.91	9.000	L1	9.9	27.09	46.00	Compliance
1.020000	26.47	---	9.000	L1	9.9	29.53	56.00	Compliance
1.650000	---	14.22	9.000	L1	9.9	31.78	46.00	Compliance
1.650000	21.05	---	9.000	L1	9.9	34.95	56.00	Compliance
2.790000	---	18.22	9.000	L1	9.9	27.78	46.00	Compliance
2.790000	25.53	---	9.000	L1	9.9	30.47	56.00	Compliance
3.300000	---	14.94	9.000	L1	9.9	31.06	46.00	Compliance
3.300000	24.95	---	9.000	L1	9.9	31.05	56.00	Compliance

AC 120V/60 Hz, Neutral

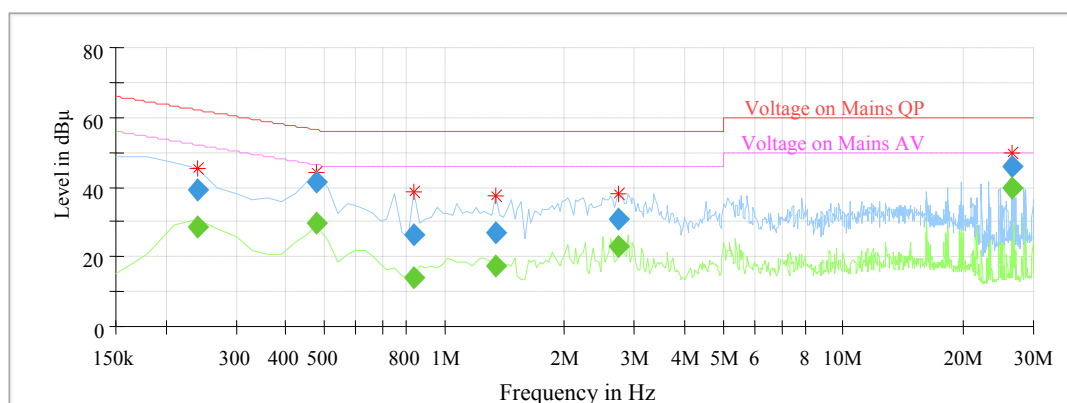
Full Spectrum



Frequency (MHz)	QuasiPeak (dBμV)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.300000	38.95	---	9.000	N	10.1	21.29	60.24	Compliance
0.300000	---	27.34	9.000	N	10.1	22.90	50.24	Compliance
0.480000	---	30.21	9.000	N	10.1	16.13	46.34	Compliance
0.480000	42.04	---	9.000	N	10.1	14.30	56.34	Compliance
0.510000	---	24.90	9.000	N	10.1	21.10	46.00	Compliance
0.510000	37.04	---	9.000	N	10.1	18.96	56.00	Compliance
2.580000	---	17.96	9.000	N	9.9	28.04	46.00	Compliance
2.580000	31.77	---	9.000	N	9.9	24.23	56.00	Compliance
5.130000	---	21.26	9.000	N	9.9	28.74	50.00	Compliance
5.130000	31.17	---	9.000	N	9.9	28.83	60.00	Compliance
23.130000	---	32.42	9.000	N	10.2	17.58	50.00	Compliance
23.130000	35.20	---	9.000	N	10.2	24.80	60.00	Compliance

For Rogue Wave PRO :**AC 120V/60 Hz, Line**

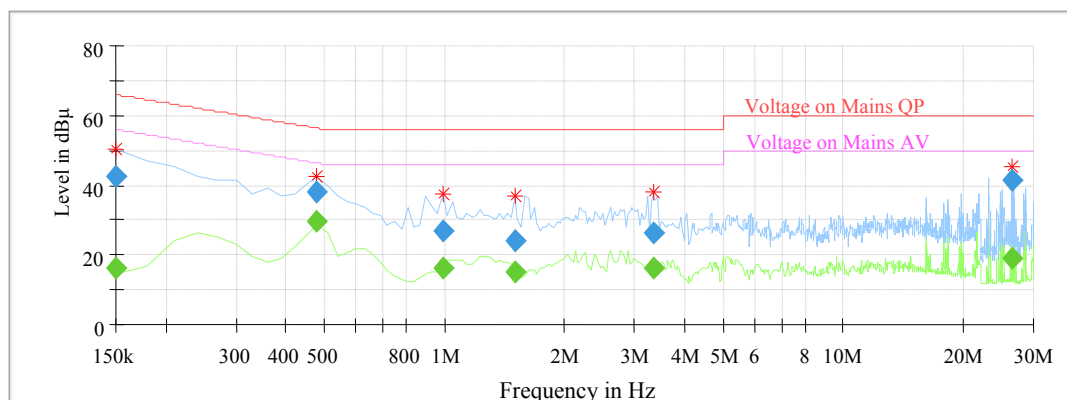
Full Spectrum



Frequency (MHz)	QuasiPeak (dBμV)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.240000	---	28.60	9.000	L1	10.0	23.50	52.10	Compliance
0.240000	38.91	---	9.000	L1	10.0	23.19	62.10	Compliance
0.480000	---	29.73	9.000	L1	10.1	16.61	46.34	Compliance
0.480000	41.56	---	9.000	L1	10.1	14.78	56.34	Compliance
0.840000	---	14.09	9.000	L1	9.9	31.91	46.00	Compliance
0.840000	26.39	---	9.000	L1	9.9	29.61	56.00	Compliance
1.350000	---	17.49	9.000	L1	9.9	28.51	46.00	Compliance
1.350000	26.89	---	9.000	L1	9.9	29.11	56.00	Compliance
2.730000	---	23.04	9.000	L1	9.9	22.96	46.00	Compliance
2.730000	31.01	---	9.000	L1	9.9	24.99	56.00	Compliance
26.610000	---	39.48	9.000	L1	10.5	10.52	50.00	Compliance
26.610000	45.71	---	9.000	L1	10.5	14.29	60.00	Compliance

AC 120V/60 Hz, Neutral

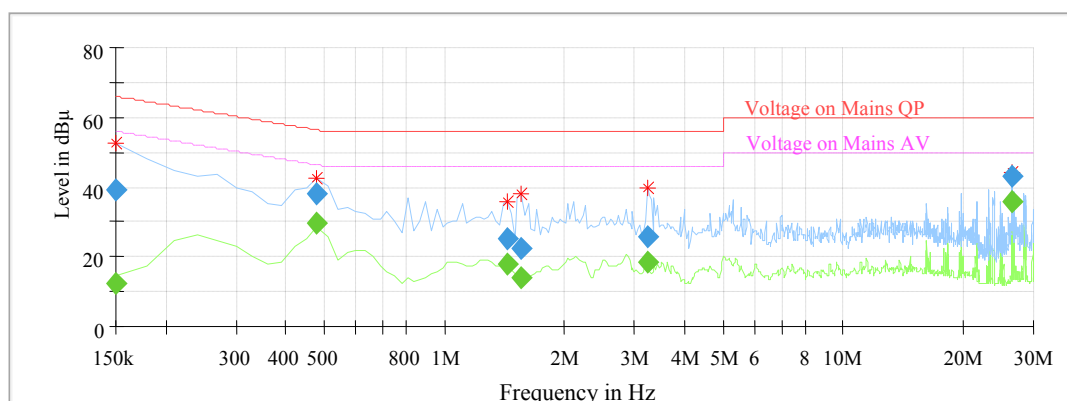
Full Spectrum



Frequency (MHz)	QuasiPeak (dBμV)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.150000	---	16.26	9.000	N	10.1	39.74	56.00	Compliance
0.150000	42.69	---	9.000	N	10.1	23.31	66.00	Compliance
0.480000	---	29.55	9.000	N	10.1	16.79	46.34	Compliance
0.480000	37.87	---	9.000	N	10.1	18.47	56.34	Compliance
0.990000	---	16.45	9.000	N	9.9	29.55	46.00	Compliance
0.990000	26.79	---	9.000	N	9.9	29.21	56.00	Compliance
1.500000	---	15.19	9.000	N	9.9	30.81	46.00	Compliance
1.500000	24.20	---	9.000	N	9.9	31.80	56.00	Compliance
3.330000	---	16.03	9.000	N	9.9	29.97	46.00	Compliance
3.330000	26.30	---	9.000	N	9.9	29.70	56.00	Compliance
26.610000	---	19.02	9.000	N	10.3	30.98	50.00	Compliance
26.610000	41.35	---	9.000	N	10.3	18.65	60.00	Compliance

For Rogue Wave :**AC 120V/60 Hz, Line**

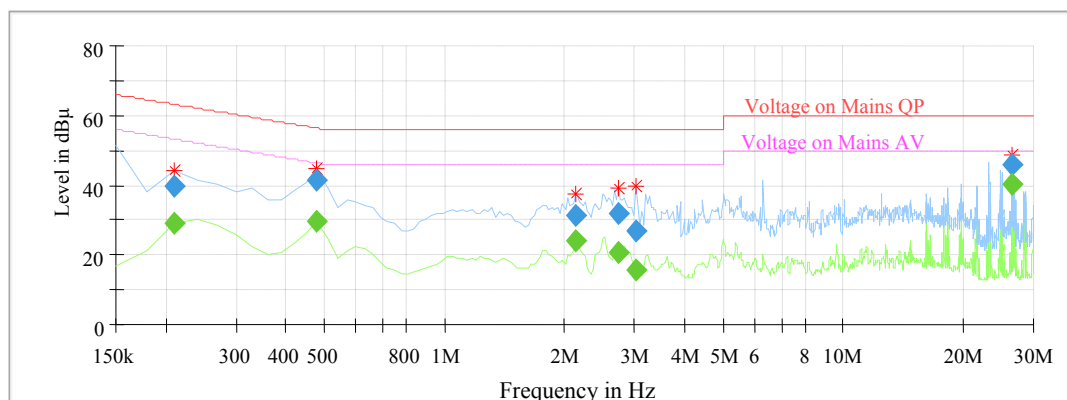
Full Spectrum



Frequency (MHz)	QuasiPeak (dBμV)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.150000	---	12.21	9.000	L1	10.1	43.79	56.00	Compliance
0.150000	39.00	---	9.000	L1	10.1	27.00	66.00	Compliance
0.480000	---	29.73	9.000	L1	10.1	16.61	46.34	Compliance
0.480000	37.87	---	9.000	L1	10.1	18.47	56.34	Compliance
1.440000	---	17.64	9.000	L1	9.9	28.36	46.00	Compliance
1.440000	25.20	---	9.000	L1	9.9	30.80	56.00	Compliance
1.560000	---	13.79	9.000	L1	9.9	32.21	46.00	Compliance
1.560000	22.16	---	9.000	L1	9.9	33.84	56.00	Compliance
3.240000	---	18.54	9.000	L1	9.9	27.46	46.00	Compliance
3.240000	25.75	---	9.000	L1	9.9	30.25	56.00	Compliance
26.610000	---	35.94	9.000	L1	10.5	14.06	50.00	Compliance
26.610000	43.33	---	9.000	L1	10.5	16.67	60.00	Compliance

AC 120V/60 Hz, Neutral

Full Spectrum



Frequency (MHz)	QuasiPeak (dBμV)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.210000	---	28.86	9.000	N	10.1	24.35	53.21	Compliance
0.210000	39.48	---	9.000	N	10.1	23.73	63.21	Compliance
0.480000	---	29.72	9.000	N	10.1	16.62	46.34	Compliance
0.480000	41.28	---	9.000	N	10.1	15.06	56.34	Compliance
2.130000	---	24.33	9.000	N	9.9	21.67	46.00	Compliance
2.130000	31.28	---	9.000	N	9.9	24.72	56.00	Compliance
2.730000	---	20.54	9.000	N	9.9	25.46	46.00	Compliance
2.730000	31.69	---	9.000	N	9.9	24.31	56.00	Compliance
3.030000	---	15.86	9.000	N	9.9	30.14	46.00	Compliance
3.030000	26.89	---	9.000	N	9.9	29.11	56.00	Compliance
26.610000	---	40.27	9.000	N	10.3	9.73	50.00	Compliance
26.610000	45.66	---	9.000	N	10.3	14.34	60.00	Compliance

Note:

- 1) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

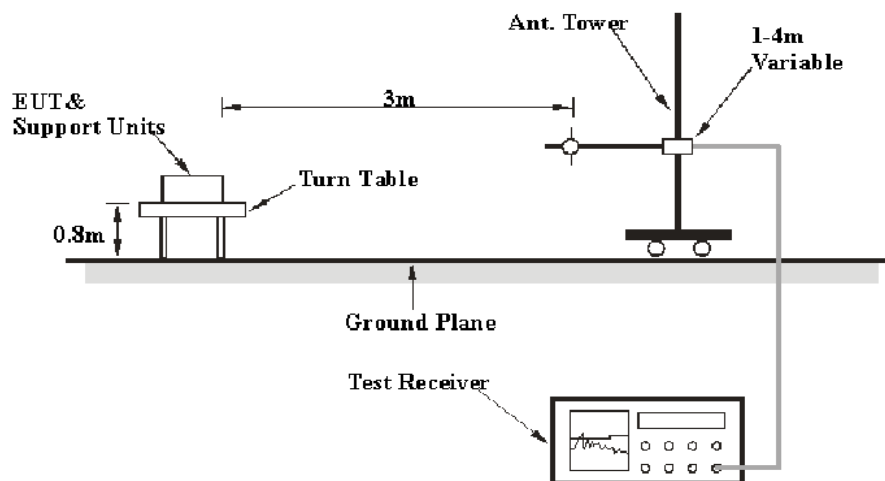
FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

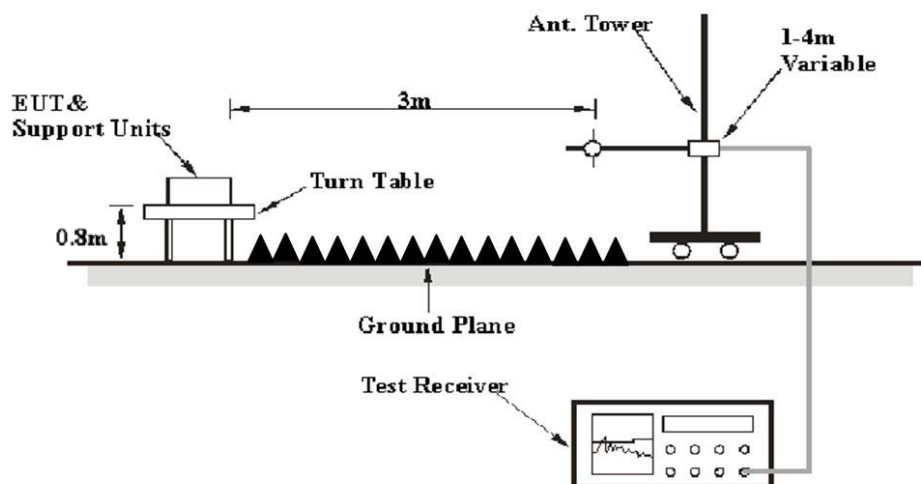
FCC §15.109

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 12.4GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the data in the following table, the EUT complied with the FCC §15.109 Class B,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

The testing was performed by Layne Li on 2017-04-09.

EUT Operation Mode: Communication with computer

For Rogue Reach :

30 MHz~12.4 GHz

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBuV/m)	FCC Part 15B	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H / V)			Limit (dBuV/m)	Margin (dB)
31.33	27.46	QP	6	1.5	V	-4.98	22.48	40	17.52
42.00	40.36	QP	37	1.6	V	-11.45	28.91	40	11.09
42.33	40.42	QP	350	1.5	V	-11.45	28.97	40	11.03
75.43	37.24	QP	284	1.1	H	-16.90	20.34	46	19.66
837.23	33.63	QP	241	1.4	V	-1.59	32.04	46	13.96
848.47	34.81	QP	18	1.0	H	-1.59	33.22	46	12.78
1677.59	54.13	PK	29	1.2	H	-8.51	45.62	74	28.38
1677.59	41.84	Ave.	29	1.2	H	-8.51	33.33	54	20.67
1677.59	55.35	PK	113	1.5	V	-8.51	46.84	74	27.16
1677.59	41.11	Ave.	113	1.5	V	-8.51	32.60	54	21.40

For Rogue Wave PRO :

30 MHz~12.4 GHz

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBuV/m)	FCC Part 15B	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H / V)			Limit (dBuV/m)	Margin (dB)
51.48	42.16	QP	6	1.5	V	-16.54	25.62	40	14.38
123.64	48.65	QP	37	1.6	V	-14.70	33.95	43.5	9.55
134.72	44.19	QP	350	1.5	V	-13.34	30.85	43.5	12.65
685.71	32.47	QP	284	1.1	H	-3.74	28.73	46	17.27
836.94	36.27	QP	241	1.4	V	-1.59	34.68	46	11.32
842.53	38.30	QP	18	1.0	H	-1.59	36.71	46	9.29
1693.47	52.77	PK	238	1.9	H	-8.51	44.26	74	29.74
1693.47	42.96	Ave.	238	1.9	H	-8.51	34.45	54	19.55
1693.47	52.46	PK	228	2.4	V	-8.51	43.95	74	30.05
1693.47	42.19	Ave.	228	2.4	V	-8.51	33.68	54	20.32

For Rogue Wave :**30 MHz~12.4 GHz**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBuV/m)	FCC Part 15B	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H / V)			Limit (dBuV/m)	Margin (dB)
32.53	34.65	QP	251	2.3	V	-6.01	28.64	40	11.36
114.16	38.21	QP	143	2.3	H	-15.68	22.53	43.5	20.97
132.72	46.02	QP	326	2.4	V	-13.34	32.68	43.5	10.82
694.53	38.46	QP	274	2.4	H	-3.74	34.72	46	11.28
833.59	40.08	QP	253	1.3	V	-1.59	38.49	46	7.51
858.42	39.17	QP	183	1.3	H	-1.23	37.94	46	8.06
1642.83	56.18	PK	24	1.2	H	-8.99	47.19	74	26.81
1642.83	49.63	Ave.	24	1.2	H	-8.99	40.64	54	13.36
1642.83	54.27	PK	86	1.7	H	-8.99	45.28	74	28.72
1642.83	48.00	Ave.	86	1.7	H	-8.99	39.01	54	14.99

Note:

- 1) Correction Factor=Antenna factor (RX) + cable loss – amplifier factor
- 2) Corrected Amplitude = Correction Factor + Reading
- 3) Margin = Limit - Corrected Amplitude

******* END OF REPORT *******