

FCC PART 15 B
TEST REPORT

For

AKUVOX(XIAMEN)NETWORKS CO.,LTD.

10/F, No.56 GuanRi Road., Software Park II, Xiamen, China

FCC ID: 2AHCR-R15P-433

Report Type: Original Report	Product Type: SIP PHONE
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Report Number: RXM160524051-00B	
Report Date: 2016-08-02	
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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. (Dongguan).

TABLE OF CONTENTS

GENERAL INFORMATION.....	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
OBJECTIVE	3
RELATED SUBMITTAL(S)/GRANT(S).....	3
TEST METHODOLOGY	3
TEST FACILITY	3
SYSTEM TEST CONFIGURATION.....	4
DESCRIPTION OF TEST CONFIGURATION	4
EUT EXERCISE SOFTWARE	4
EQUIPMENT MODIFICATIONS	4
LOCAL SUPPORT EQUIPMENT LIST AND DETAILS	4
SUPPORT CABLE LIST AND DETAILS	4
CONFIGURATION OF TEST SETUP	5
SUMMARY OF TEST RESULTS.....	6
FCC§15.107 - CONDUCTED EMISSIONS.....	7
MEASUREMENT UNCERTAINTY	7
EUT SETUP.....	7
EMI TEST RECEIVER SETUP.....	8
TEST EQUIPMENT LIST AND DETAILS.....	8
TEST PROCEDURE	8
CORRECTED AMPLITUDE & MARGIN CALCULATION	8
TEST RESULTS SUMMARY	9
TEST DATA	9
FCC §15.109 - RADIATED SPURIOUS EMISSIONS	14
MEASUREMENT UNCERTAINTY	14
EUT SETUP	14
EMI TEST RECEIVER SETUP.....	15
TEST PROCEDURE	15
TEST EQUIPMENT LIST AND DETAILS.....	16
CORRECTED AMPLITUDE & MARGIN CALCULATION	16
TEST RESULTS SUMMARY	16
TEST DATA	16

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The AKUVOX(XIAMEN)NETWORKS CO.,LTD.'s product, model number: R15P (433) (FCC ID: 2AHCR-R15P-433) (the "EUT") in this report was a SIP PHONE, which was measured approximately: 23cm (L) x 17 cm (W) x 15 cm (H), rated input voltage: rated input voltage: DC 5V from adapter.

Adapter Information :

MODEL : RD0501000-C55-EMG

INPUT :AC 100-240V 50/60Hz 0.6A

OUTPUT : DC5V, 1.0A

All measurement and test data in this report was gathered from production sample serial number: 160524051 (Assigned byBACL, Dongguan). The EUT was received on 2016-05-27.

Objective

This test report is prepared on behalf of AKUVOX(XIAMEN)NETWORKS CO.,LTD. in accordance with Part 2, Subpart J, and Part 15-Subparts A and B of the Federal Communications Commission's rules.

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

Related Submittal(s)/Grant(s)

Submitted with the part of a system with FCC ID: 2AHCR-EP10-433
FCC Part 15.231 submissions with FCC ID: 2AHCR-R15P-433.

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 radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications 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 February 06, 2015.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. 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 typical fashion (as normally used by a typical user).

EUT Exercise Software

The software “winthrax.exe” was used during test.

Equipment Modifications

No modification was made to the EUT tested.

Local Support Equipment List and Details

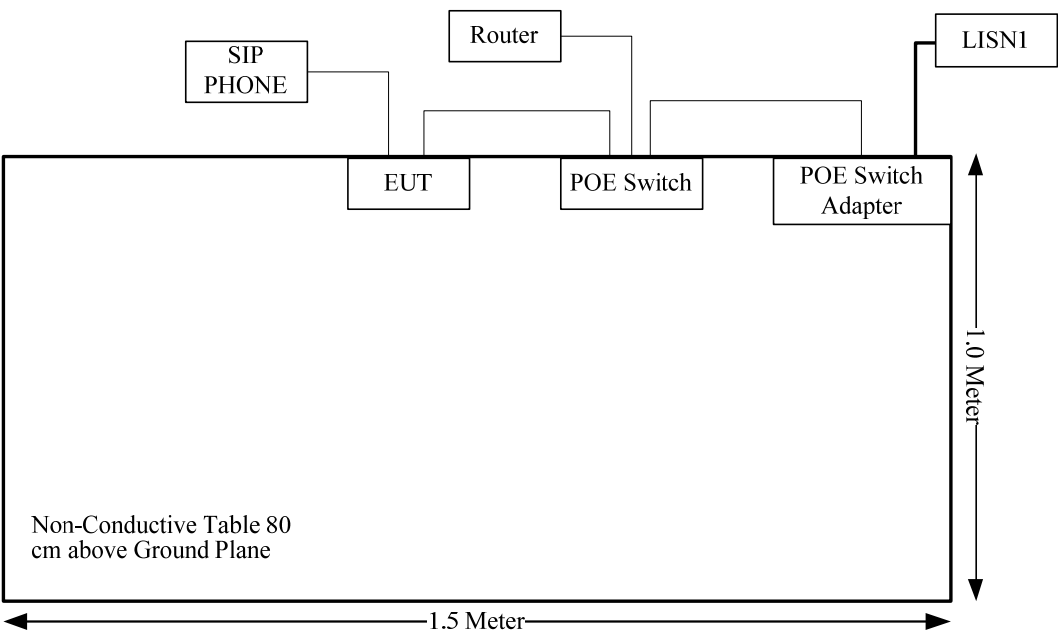
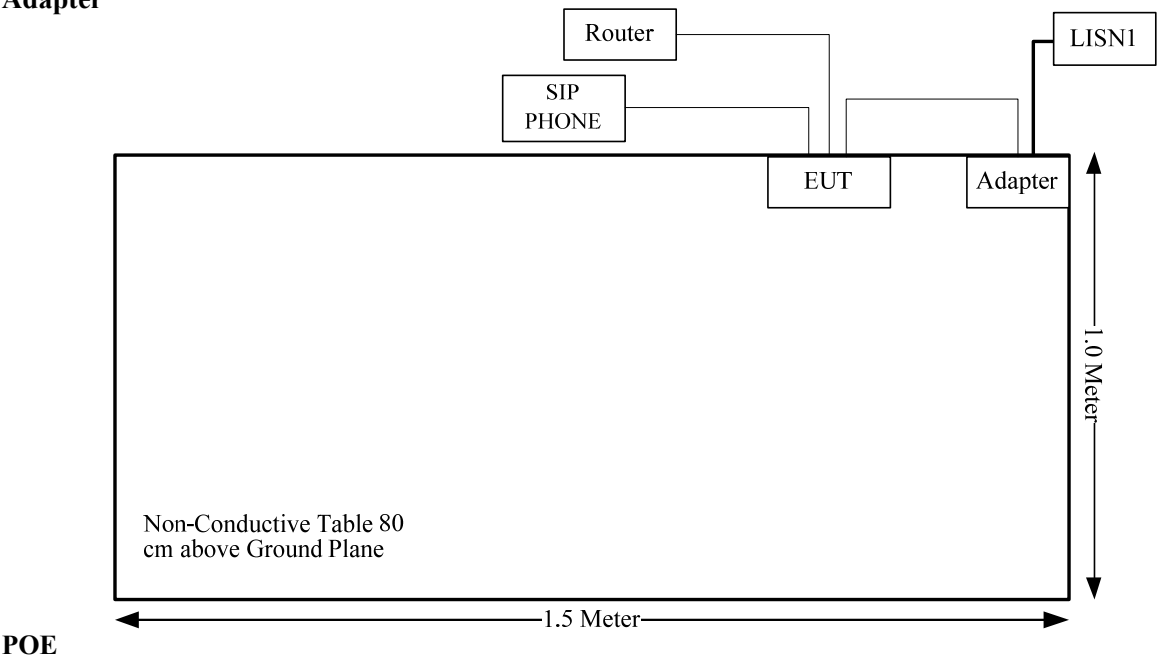
Manufacturer	Description	Model	Serial Number
AKUVOX	SIP PHONE	R15P (433)	N/A
Tenda	Wireless Router	W311R	N/A
TP-LINK	POE Switch	TL-SF1008P	114A297001782

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
RJ45 Cable	Yes	No	10	Router	EUT
RJ45 Cable	Yes	No	10	SIP PHONE	EUT
RJ45 Cable	Yes	No	1	POE Switch	EUT

Configuration of Test Setup

Adapter



SUMMARY OF TEST RESULTS

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

FCC§15.107 - CONDUCTED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are Receiver, cable loss, and LISN.

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cisp} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cisp} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit.

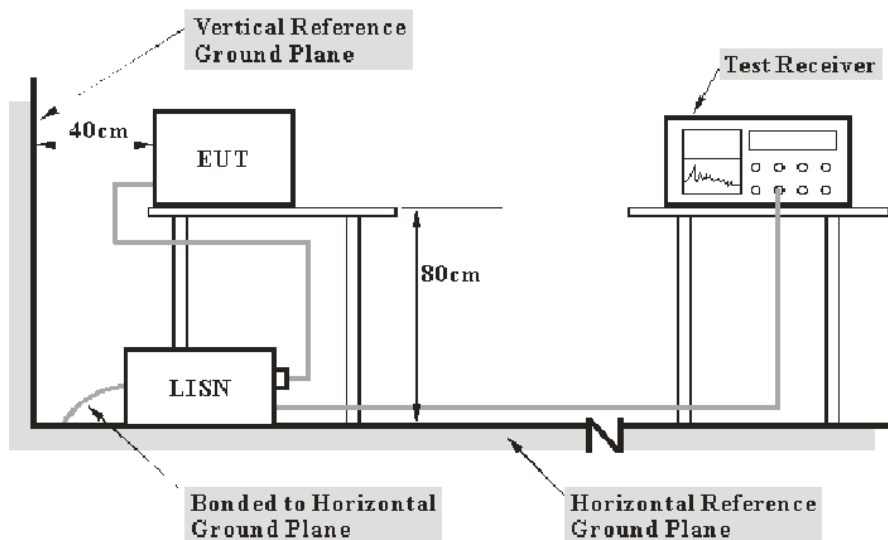
Based on CISPR 16-4-2: 2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.12 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cisp}

Measurement	U_{cisp}
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

Note: The $U_{lab} > U_{cisp}$, so the U_{lab} is add in the calculation.

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 setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B 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 adapter of laptop was connected to a 120V/60Hz AC power source.

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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2015-10-20	2016-10-20
R&S	L.I.S.N	ESH2-Z5	892107/021	2015-07-16	2016-07-15
R&S	Two-line V-network	ENV 216	3560.6550.12	2015-11-26	2016-11-25
N/A	Coaxial Cable	1.8m	N/A	2016-05-06	2017-05-06
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

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

Test Procedure

During the conducted emission test, the adapter of laptop was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second 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 Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

Herein,

V_C : corrected voltage amplitude

V_R : reading voltage amplitude

A_c : attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum 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 B Class B.

Test Data

Environmental Conditions

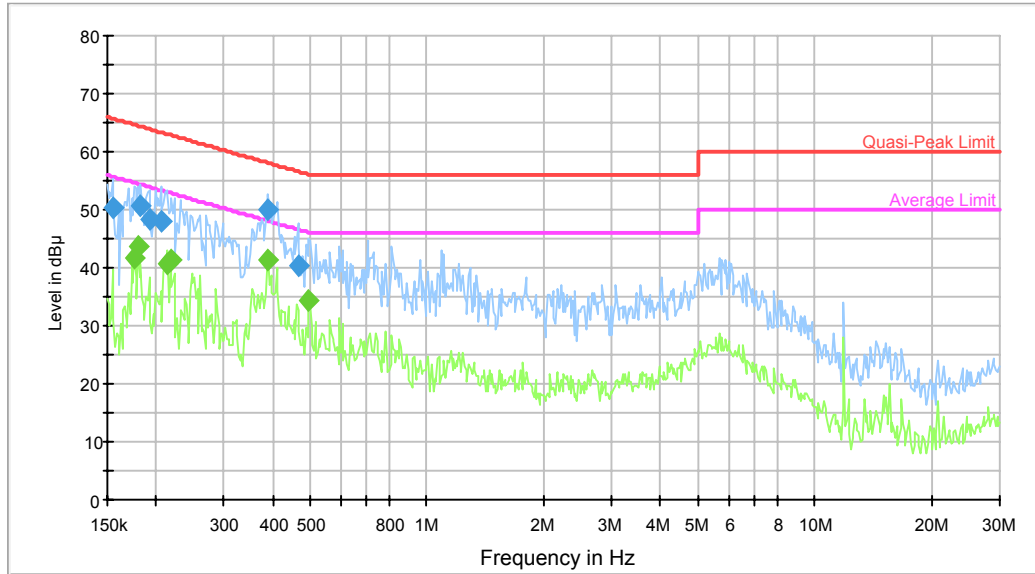
Temperature:	28.2°C
Relative Humidity:	73 %
ATM Pressure:	99.7kPa

The testing was performed by Rocky Xiao on 2016-06-15.

Test Mode: Operating

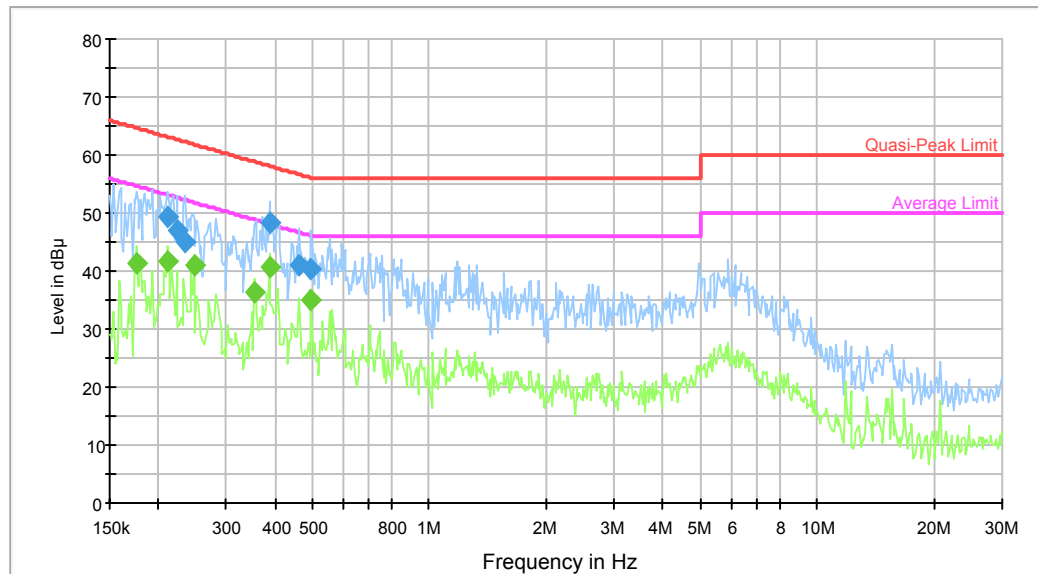
Adapter

AC120V, 60Hz, Line:



Frequency (MHz)	Quasi Peak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.154858	50.5	9.000	L1	10.2	15.2	65.7	Compliance
0.183065	50.7	9.000	L1	10.2	13.6	64.3	Compliance
0.192030	48.5	9.000	L1	10.2	15.4	63.9	Compliance
0.206306	48.1	9.000	L1	10.2	15.3	63.4	Compliance
0.387164	50.1	9.000	L1	10.2	8.0	58.1	Compliance
0.465037	40.3	9.000	L1	10.1	16.3	56.6	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.175915	41.6	9.000	L1	10.1	13.1	54.7	Compliance
0.180171	43.8	9.000	L1	10.2	10.7	54.5	Compliance
0.214692	40.6	9.000	L1	10.2	12.4	53.0	Compliance
0.218141	41.5	9.000	L1	10.2	11.4	52.9	Compliance
0.390261	41.5	9.000	L1	10.2	6.6	48.1	Compliance
0.495646	34.4	9.000	L1	10.1	11.7	46.1	Compliance

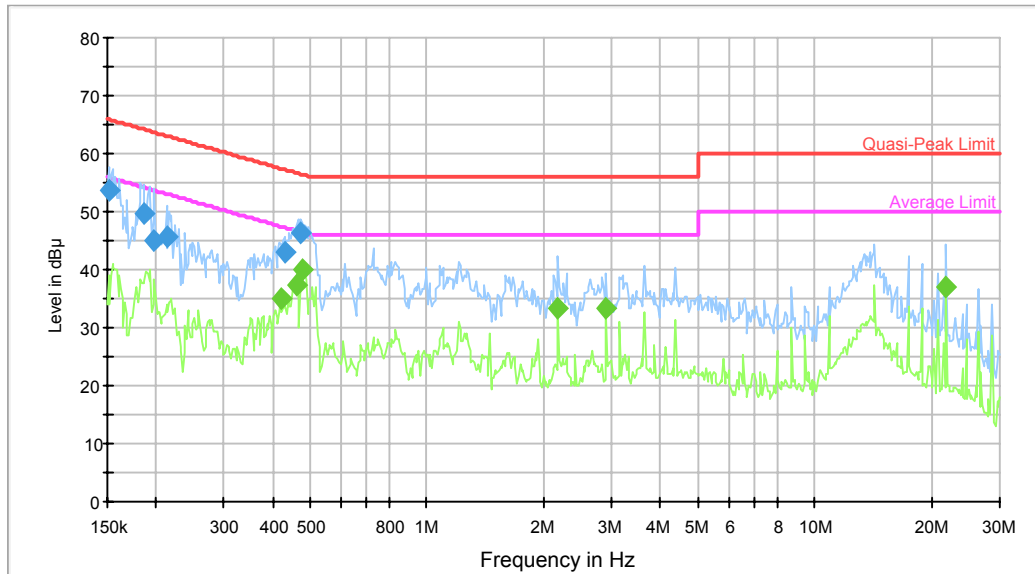
AC120V, 60Hz, Neutral:

Frequency (MHz)	Quasi Peak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.211298	49.4	9.000	N	10.2	13.8	63.2	Compliance
0.223418	47.2	9.000	N	10.2	15.5	62.7	Compliance
0.234359	45.0	9.000	N	10.2	17.3	62.3	Compliance
0.387164	48.5	9.000	N	10.2	9.6	58.1	Compliance
0.461346	41.1	9.000	N	10.1	15.6	56.7	Compliance
0.495646	40.5	9.000	N	10.1	15.6	56.1	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.175915	41.5	9.000	N	10.1	13.2	54.7	Compliance
0.211298	41.8	9.000	N	10.2	11.4	53.2	Compliance
0.247802	40.8	9.000	N	10.2	11.0	51.8	Compliance
0.354674	36.2	9.000	N	10.3	12.7	48.9	Compliance
0.387164	40.6	9.000	N	10.2	7.5	48.1	Compliance
0.495646	35.0	9.000	N	10.1	11.1	46.1	Compliance

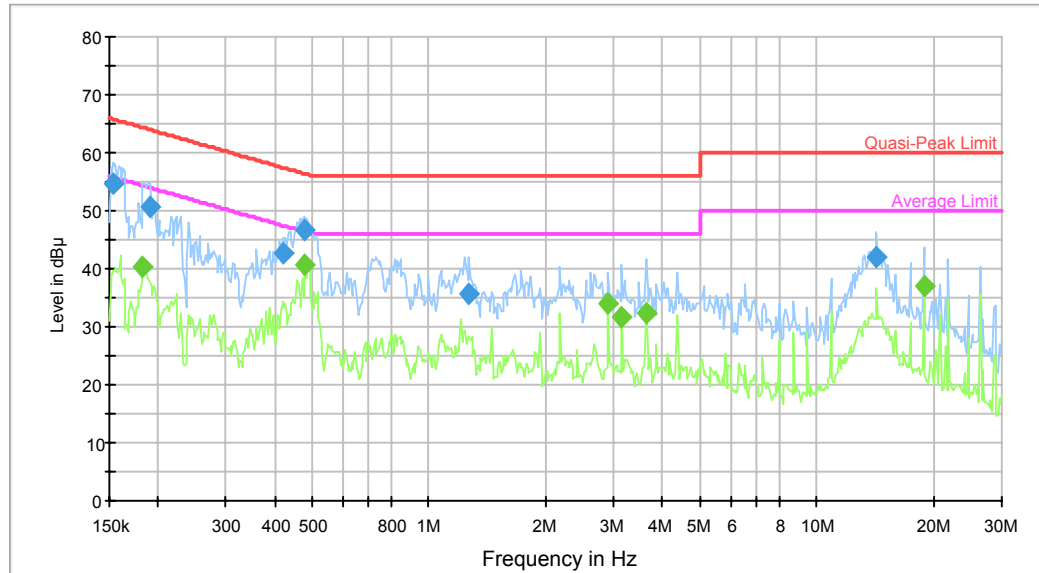
POE

AC120V, 60Hz, Line:



Frequency (MHz)	Quasi Peak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.151200	53.8	9.000	L1	10.2	12.1	65.9	Compliance
0.186006	49.7	9.000	L1	10.2	14.5	64.2	Compliance
0.198249	45.2	9.000	L1	10.2	18.5	63.7	Compliance
0.212988	45.7	9.000	L1	10.2	17.4	63.1	Compliance
0.429420	42.9	9.000	L1	10.2	14.4	57.3	Compliance
0.472507	46.2	9.000	L1	10.1	10.3	56.5	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.419276	34.9	9.000	L1	10.2	12.6	47.5	Compliance
0.461346	37.3	9.000	L1	10.1	9.4	46.7	Compliance
0.480097	40.1	9.000	L1	10.1	6.2	46.3	Compliance
2.181877	33.2	9.000	L1	10.4	12.8	46.0	Compliance
2.906762	33.2	9.000	L1	10.5	12.8	46.0	Compliance
21.823486	36.9	9.000	L1	10.8	13.1	50.0	Compliance

AC120V, 60Hz, Neutral:

Frequency (MHz)	Quasi Peak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.153629	54.6	9.000	N	10.2	11.2	65.8	Compliance
0.190505	50.5	9.000	N	10.2	13.5	64.0	Compliance
0.419276	42.7	9.000	N	10.2	14.8	57.5	Compliance
0.476287	46.6	9.000	N	10.1	9.8	56.4	Compliance
1.269154	35.6	9.000	N	10.4	20.4	56.0	Compliance
14.305924	42.0	9.000	N	10.7	18.0	60.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.183065	40.4	9.000	N	10.1	13.9	54.3	Compliance
0.480097	40.5	9.000	N	10.1	5.8	46.3	Compliance
2.906762	33.9	9.000	N	10.5	12.1	46.0	Compliance
3.147856	31.7	9.000	N	10.6	14.3	46.0	Compliance
3.633326	32.3	9.000	N	10.6	13.7	46.0	Compliance
18.907519	37.1	9.000	N	10.9	12.9	50.0	Compliance

FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cisp} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cisp} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit.

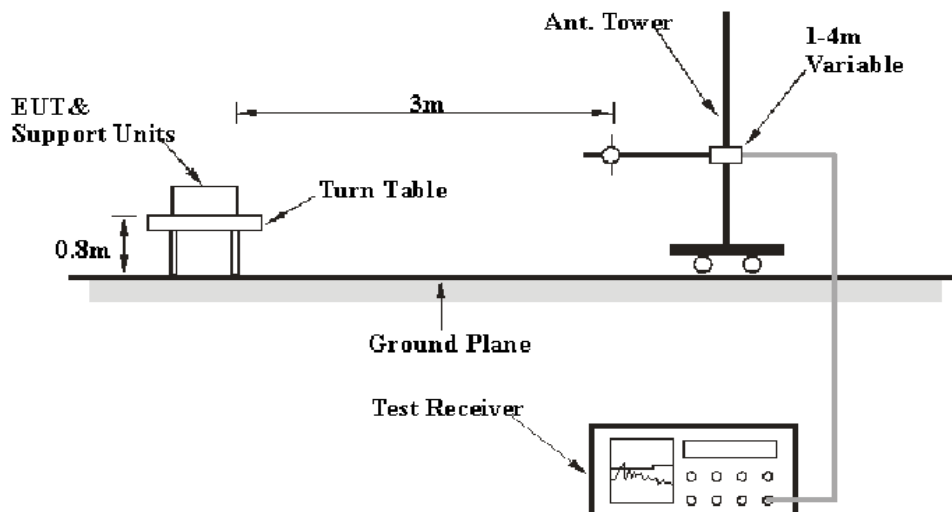
Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is: 30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical; 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical; 1G~6GHz: 4.45 dB, 6G~18GHz: 5.23 dB

Table 1 – Values of U_{cisp}

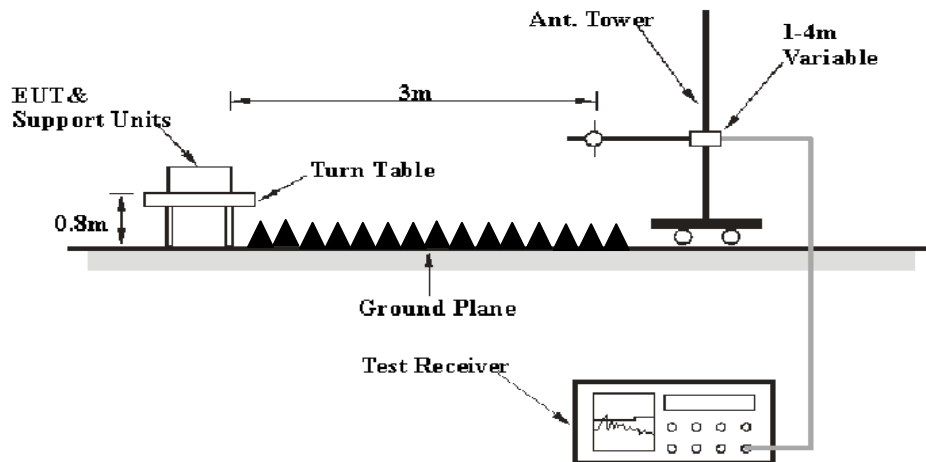
Measurement		U_{cisp}
Radiated disturbance (electric field strength at an OATS or in a SAC)	(30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR)	(1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR)	(6 GHz to 18 GHz)	5.5 dB

EUT Setup

Below 1GHz:



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.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 6 GHz.

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	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	10 Hz	/	AVG

Test Procedure

During the radiated emissions, the adapter of laptop was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

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

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2015-11-23	2016-11-22
ETS-Lindgren	Horn Antenna	3115	9808-5557	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2016-02-19	2017-02-19
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
N/A	Coaxial Cable	14m	N/A	2016-05-06	2017-05-06
N/A	Coaxial Cable	8m	N/A	2016-05-06	2017-05-06

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

Corrected Amplitude & Margin Calculation

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

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

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 Part 15 B Class B.

Test Data

Environmental Conditions

Temperature:	26.8 °C
Relative Humidity:	68 %
ATM Pressure:	100 kPa

The testing was performed by Rocky Xiao on 2016-05-30.

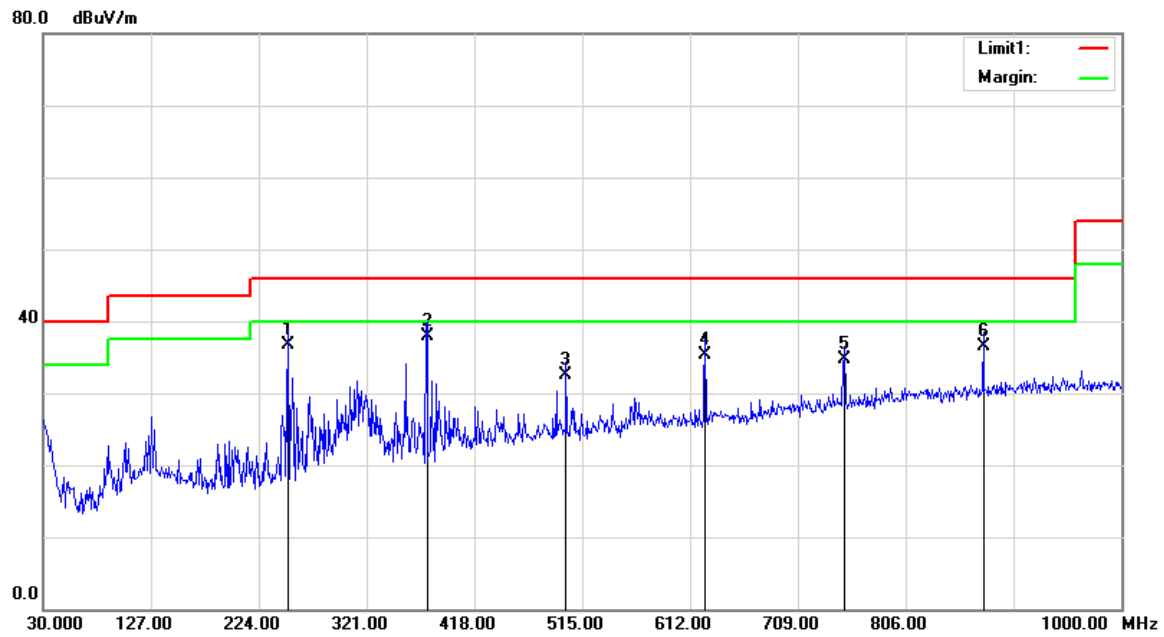
Test Result: Compliance

Test Mode: Operating

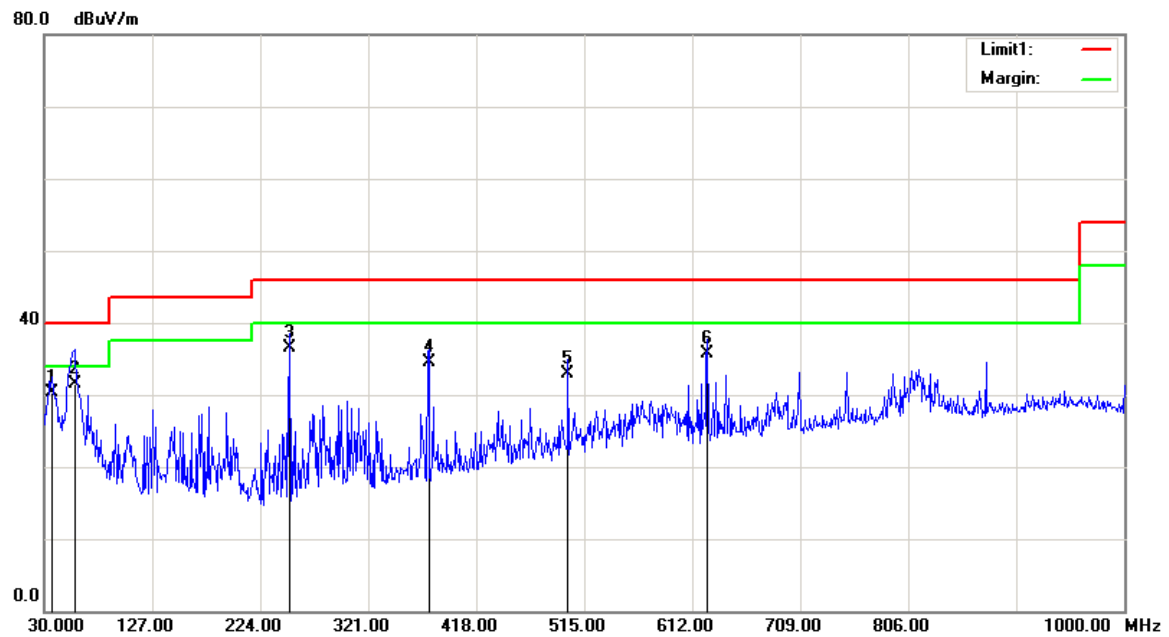
1) Below 1GHz:

Adapter:

Horizontal

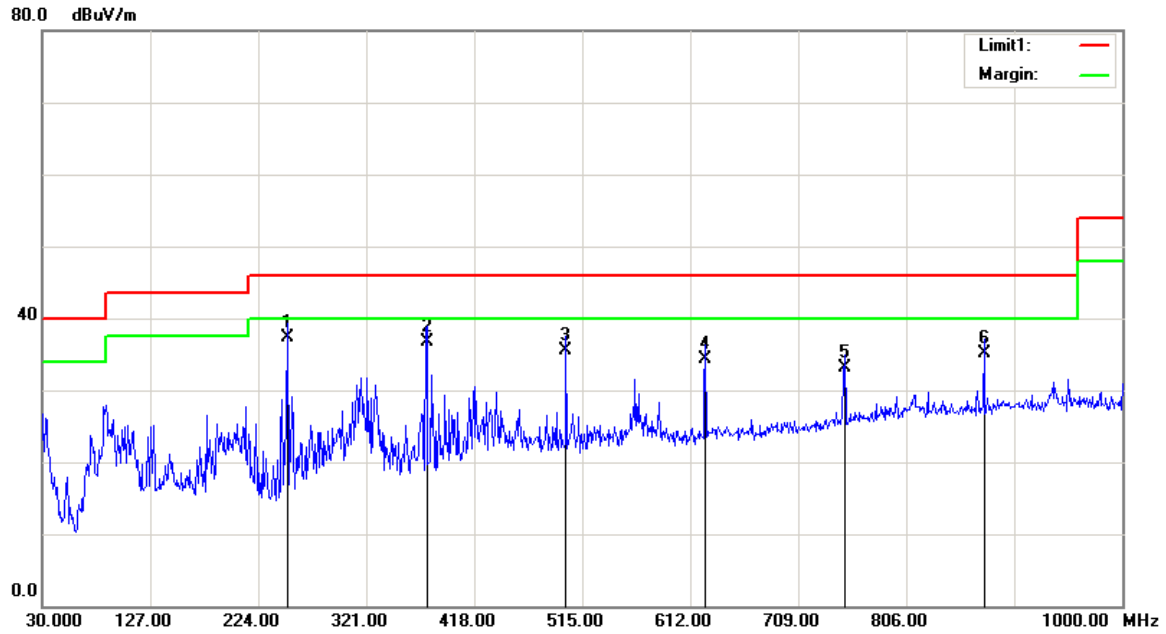


Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
250.1900	44.37	QP	-7.67	36.70	46.00	9.30
375.3200	42.30	QP	-4.40	37.90	46.00	8.10
500.4500	34.02	QP	-1.52	32.50	46.00	13.50
625.5800	35.41	QP	-0.01	35.40	46.00	10.60
750.7100	32.33	QP	2.37	34.70	46.00	11.30
875.8400	32.81	QP	3.79	36.60	46.00	9.40

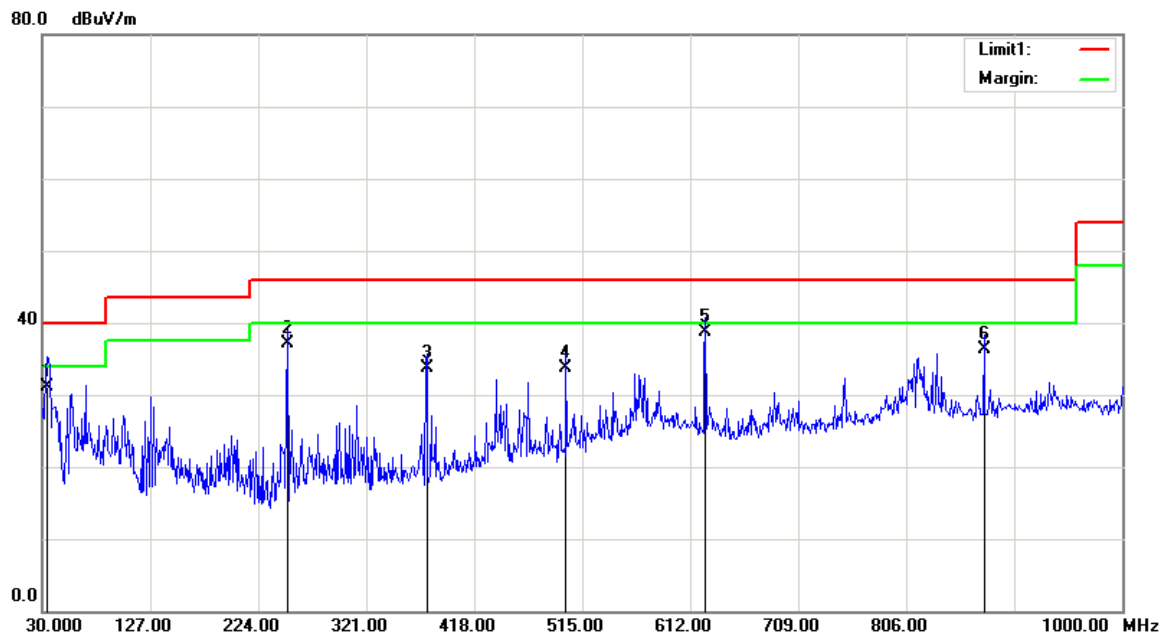
Vertical

Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
36.7900	34.35	QP	-4.05	30.30	40.00	9.70
57.1600	44.63	QP	-13.03	31.60	40.00	8.40
250.1900	44.17	QP	-7.67	36.50	46.00	9.50
375.3200	38.90	QP	-4.40	34.50	46.00	11.50
500.4500	34.42	QP	-1.52	32.90	46.00	13.10
625.5800	35.71	QP	-0.01	35.70	46.00	10.30

POE:

Horizontal

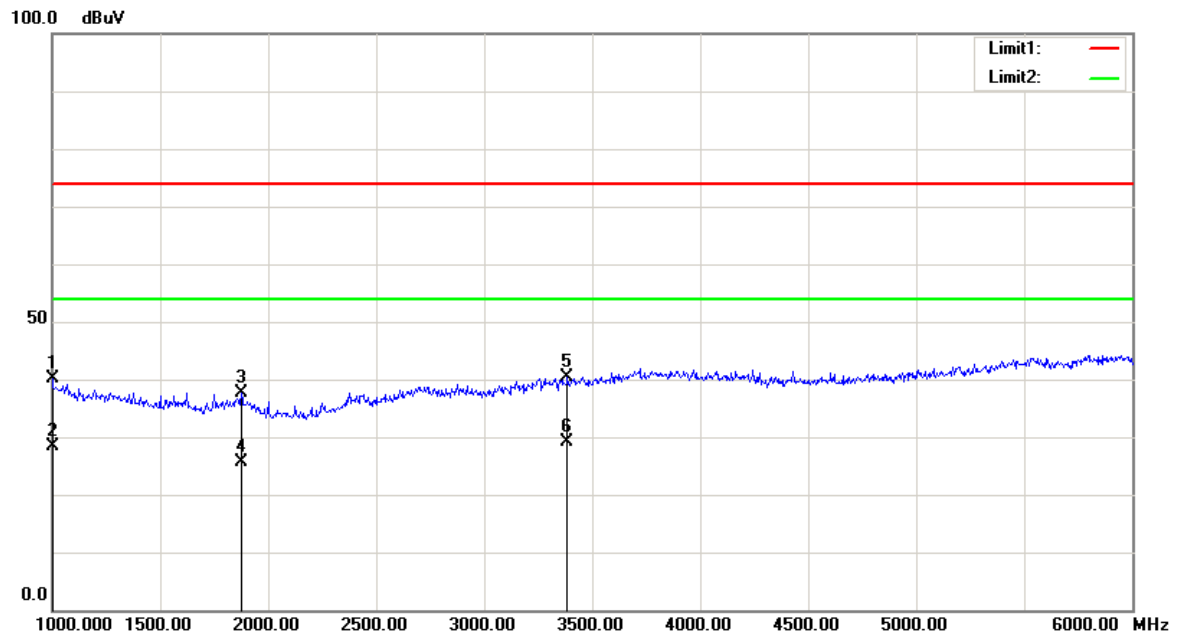
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
250.1900	45.07	QP	-7.67	37.40	46.00	8.60
375.3200	41.20	QP	-4.40	36.80	46.00	9.20
500.4500	37.12	QP	-1.52	35.60	46.00	10.40
625.5800	34.31	QP	-0.01	34.30	46.00	11.70
750.7100	30.73	QP	2.37	33.10	46.00	12.90
875.8400	31.31	QP	3.79	35.10	46.00	10.90

Vertical

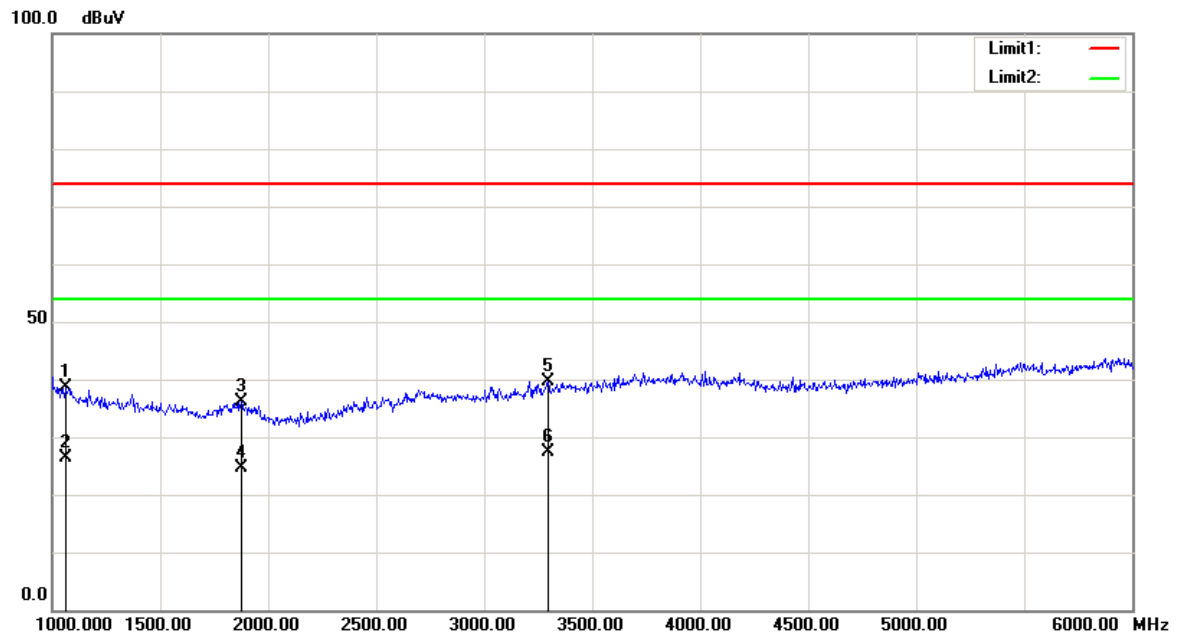
Frequency (MHz)	Receiver Reading (dBuV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
34.8500	33.83	QP	-2.63	31.20	40.00	8.80
250.1900	44.87	QP	-7.67	37.20	46.00	8.80
375.3200	38.20	QP	-4.40	33.80	46.00	12.20
500.4500	35.22	QP	-1.52	33.70	46.00	12.30
625.5800	38.81	QP	-0.01	38.80	46.00	7.20
875.8400	32.61	QP	3.79	36.40	46.00	9.60

2) Above 1GHz:

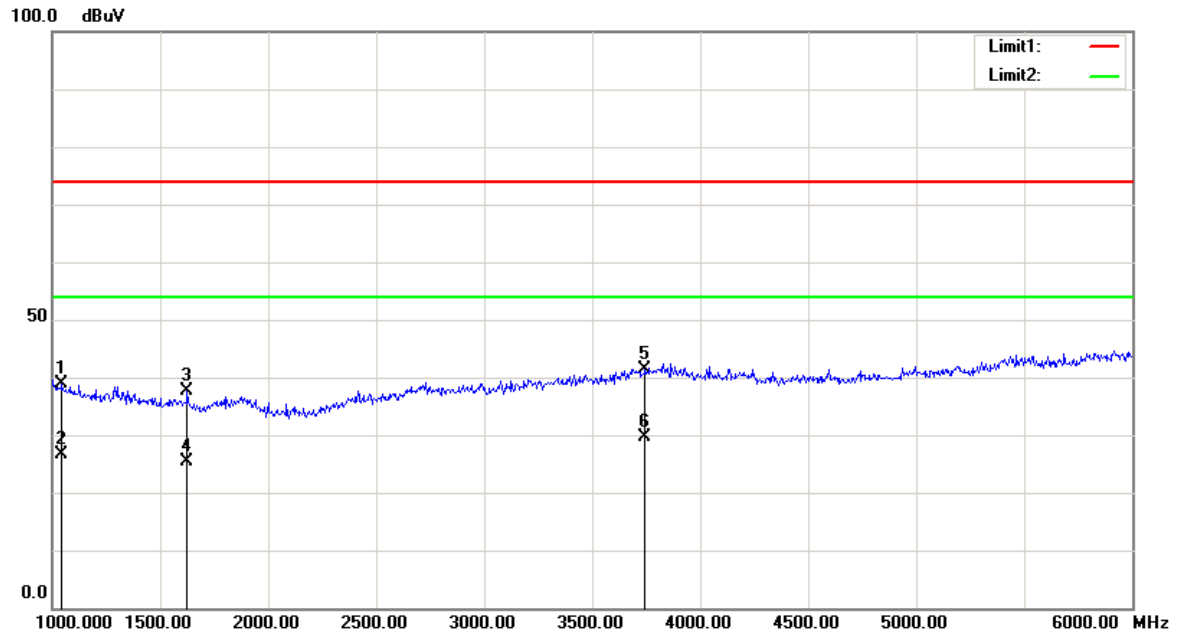
Horizontal



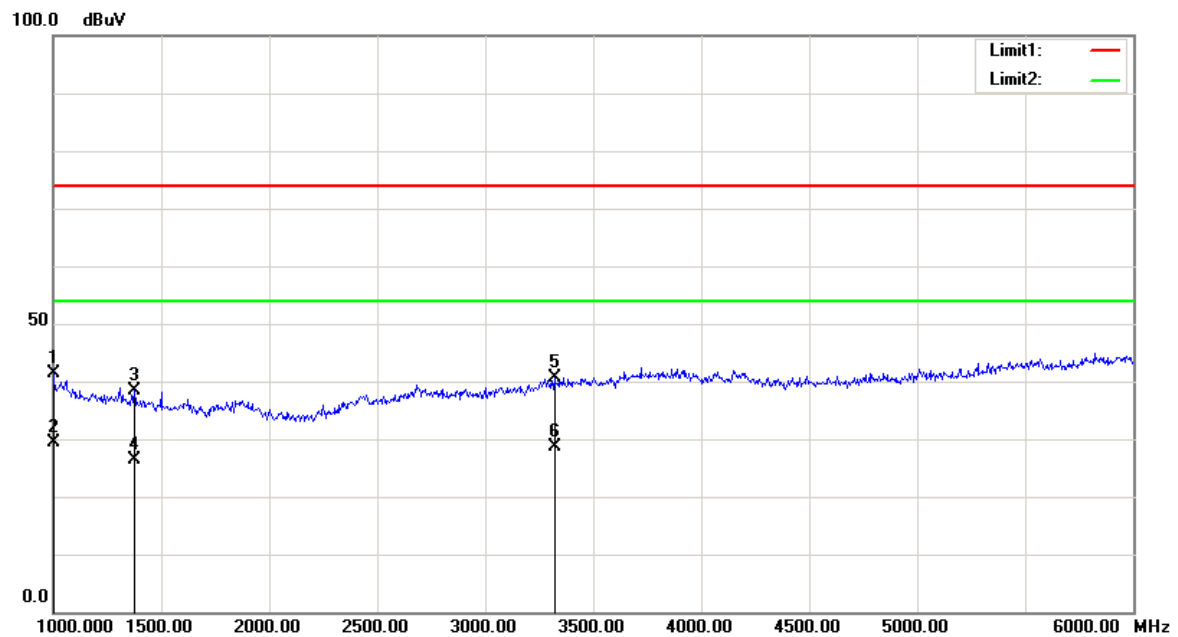
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1000.0000	34.83	peak	5.35	40.18	74.00	33.82
1000.0000	23.02	AVG	5.35	28.37	54.00	25.63
1875.000	34.01	peak	3.73	37.74	74.00	36.26
1875.000	21.88	AVG	3.73	25.61	54.00	28.39
3387.500	32.94	peak	7.39	40.33	74.00	33.67
3387.500	21.72	AVG	7.39	29.11	54.00	24.89

Vertical

Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1067.500	33.82	peak	4.82	38.64	74.00	35.36
1067.500	21.50	AVG	4.82	26.32	54.00	27.68
1875.000	32.47	peak	3.73	36.20	74.00	37.80
1875.000	20.78	AVG	3.73	24.51	54.00	29.49
3295.000	32.94	peak	6.76	39.70	74.00	34.30
3295.000	20.61	AVG	6.76	27.37	54.00	26.63

POE-Horizontal

Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1047.500	33.84	peak	4.97	38.81	74.00	35.19
1047.500	21.76	AVG	4.97	26.73	54.00	27.27
1625.000	34.48	peak	3.21	37.69	74.00	36.31
1625.000	22.17	AVG	3.21	25.38	54.00	28.62
3747.500	31.88	peak	9.58	41.46	74.00	32.54
3747.500	20.00	AVG	9.58	29.58	54.00	24.42

POE-Vertical

Frequency (MHz)	Receiver Reading (dB μ V)	Detector	Correction Factor (dB/m)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1000.0000	36.06	peak	5.35	41.41	74.00	32.59
1000.0000	24.03	AVG	5.35	29.38	54.00	24.62
1375.000	34.55	peak	3.76	38.31	74.00	35.69
1375.000	22.67	AVG	3.76	26.43	54.00	27.57
3322.500	33.61	peak	6.95	40.56	74.00	33.44
3322.500	21.72	AVG	6.95	28.67	54.00	25.33

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