

## FCC PART 15 B

## TEST REPORT

For

### CHUNGHSIN INTERNATIONAL ELECTRONICS CO.,LTD

618 GONGREN WEST ROAD,JIAOJIANG AREA TAIZHOU ZHEJIANG 318000 China

**FCC ID: 2AI5MN1186Q**

<b>Report Type:</b> Original Report	<b>Product Type:</b> Notebook
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<b>Report Number:</b> RDG160622804-00B	
<b>Report Date:</b> 2016-07-25	
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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).

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## GENERAL INFORMATION

### Product Description for Equipment Under Test (EUT)

The *CHUNGHSIN INTERNATIONAL ELECTRONICS CO.,LTD*'s product, model number: *M11166R (FCC ID: 2A15MN1186Q)* (the "EUT") in this report was a *Notebook*, which was measured approximately: 30.0 cm (L) x 20.0 cm (W) x 2.1 cm (H), rated input voltage: DC 3.7V rechargeable Li-ion battery or DC5V from adapter. The highest operation frequency is 2480MHz.

#### Adapter #1 Information:

MODEL: BSYB050250U U

INPUT: 100-240V ~, 50/60Hz, 0.4A

OUTPUT: DC 5.0V, 2.5A

#### Adapter#2 Information:

MODEL: JK050250-S04US

INPUT: 100-240V ~, 50/60Hz, 0.5A

OUTPUT: DC 5.0V, 2500mA

*All measurement and test data in this report was gathered from production sample serial number: 160622804 (Assigned by BACL, Dongguan). The EUT was received on 2016-06-29.*

### Objective

This test report is prepared on behalf of *CHUNGHSIN INTERNATIONAL ELECTRONICS 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)

FCC Part 15C DSS submissions with FCC ID: 2A15MN1186Q.

FCC Part 15C DTS submissions with FCC ID: 2A15MN1186Q.

### 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.

FINAL

## 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.

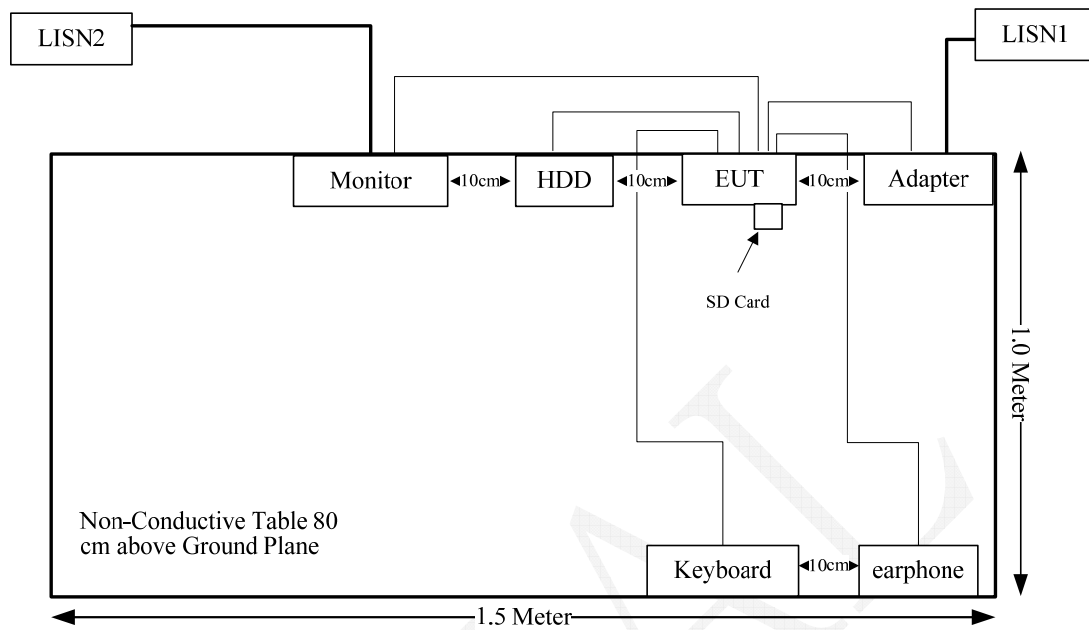
### Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
TOSHIBA	Hard Disk	v63700-A	7271TGZ1TSJ2
DELL	Keyboard	SK-8115	CN-0J4628-71616-52H-0RT6
SAMSUNG	Monitor	S22C330H	ZXDCHTHD101491K
VIWA	Earphone	N/A	N/A
SAMSUNG	SD Card	8G	N/A

### Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Keyboard Cable	yes	No	2.0	USB Port of EUT	Keyboard
HDMI Cable	Yes	Yes	0.8	HDMI Port of EUT	Monitor
USB Cable	Yes	No	0.4	USB Port of EUT	HDD
Earphone	No	No	1.1	Audio Port of EUT	Earphone

## Configuration of Test Setup



**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:

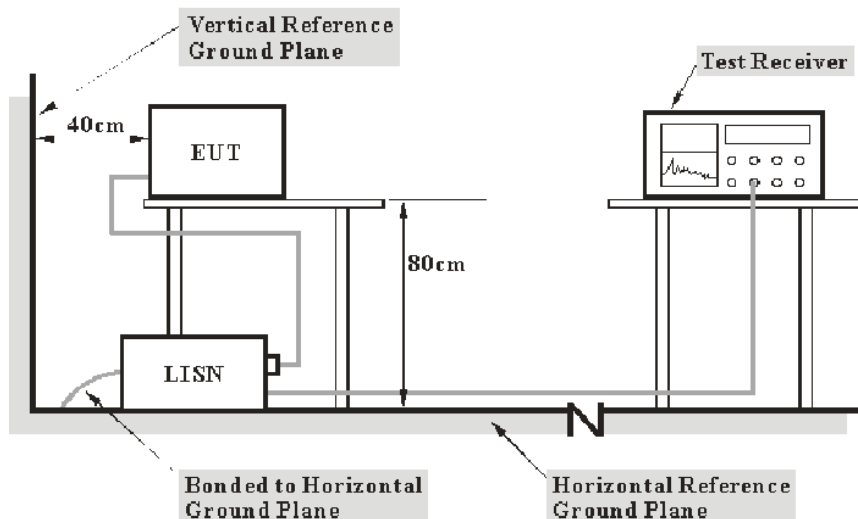
- compliance is deemed to occur if no measured disturbance level, increased by  $(U_{lab} - U_{cisp})$ , exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by  $(U_{lab} - U_{cisp})$ , exceeds the disturbance limit.

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

### 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	2016-07-16	2017-07-15
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, with the worst margin reading of:

**9.7 dB at 0.858911 MHz** in the **Line** conducted mode

### Test Data

#### Environmental Conditions

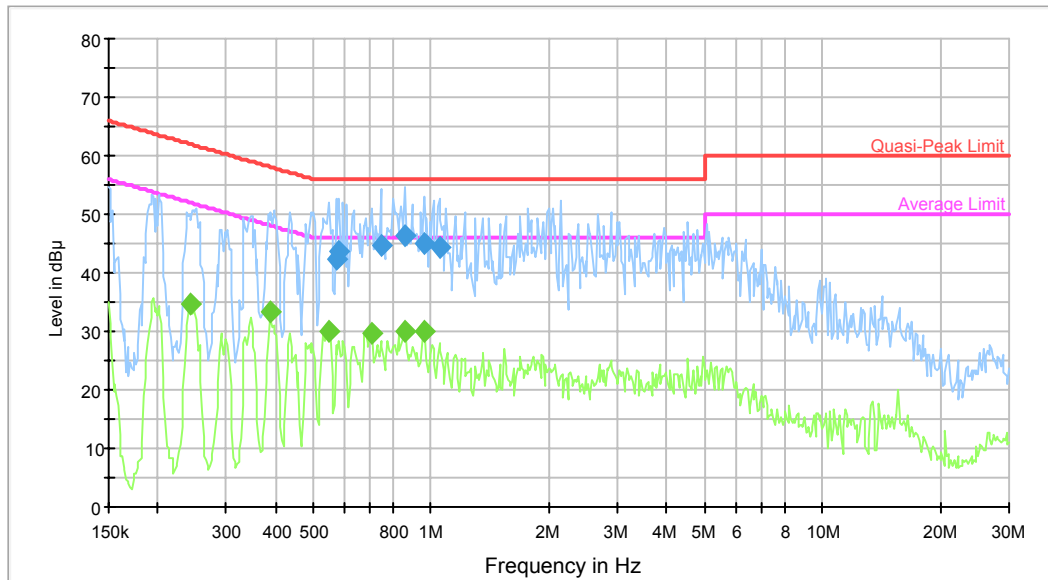
<b>Temperature:</b>	29.7 °C
<b>Relative Humidity:</b>	57 %
<b>ATM Pressure:</b>	100.5 kPa

*The testing was performed by Rocky Xiao on 2016-07-21.*

Test Mode: Full Load

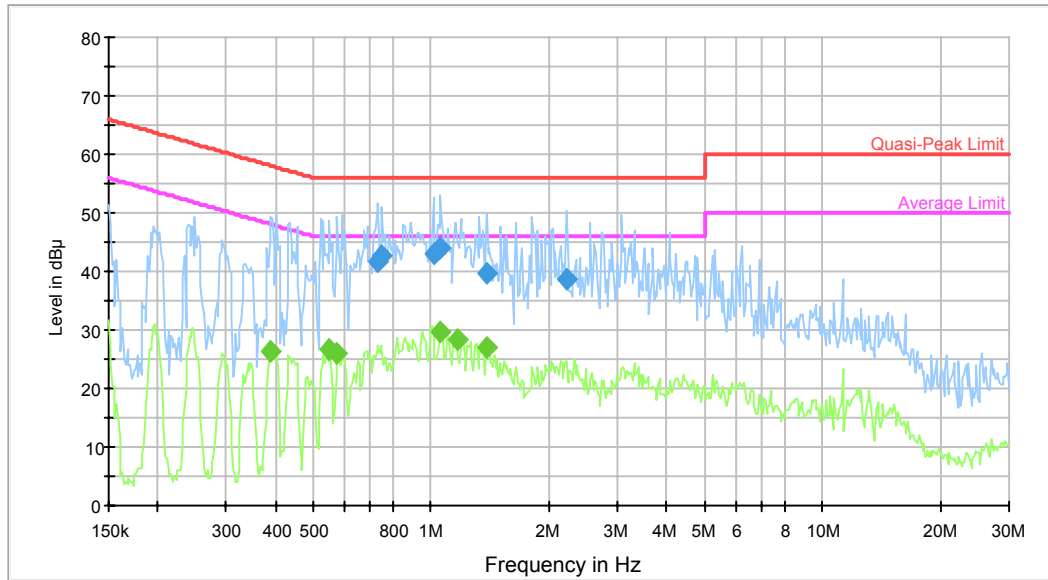
Adapter #1

AC120V, 60Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.572086	42.4	9.000	L1	10.2	13.6	56.0	Compliance
0.581275	43.5	9.000	L1	10.2	12.5	56.0	Compliance
0.744147	44.5	9.000	L1	10.4	11.5	56.0	Compliance
0.858911	46.3	9.000	L1	10.4	9.7	56.0	Compliance
0.960275	45.0	9.000	L1	10.4	11.0	56.0	Compliance
1.048242	44.3	9.000	L1	10.4	11.7	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.241949	34.7	9.000	L1	10.2	17.3	52.0	Compliance
0.387164	33.5	9.000	L1	10.2	14.6	48.1	Compliance
0.545378	29.9	9.000	L1	10.1	16.1	46.0	Compliance
0.709407	29.6	9.000	L1	10.4	16.4	46.0	Compliance
0.858911	30.0	9.000	L1	10.4	16.0	46.0	Compliance
0.960275	29.9	9.000	L1	10.4	16.1	46.0	Compliance

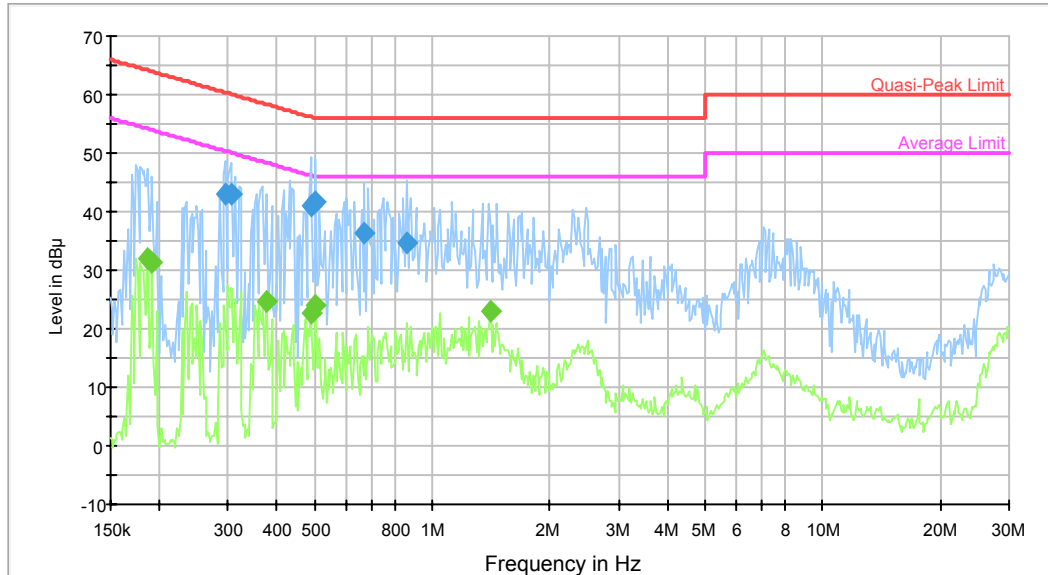
**AC120V, 60Hz, Neutral:**

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)	Comment
0.732382	41.6	9.000	N	10.4	14.4	56.0	Compliance
0.750100	42.6	9.000	N	10.4	13.4	56.0	Compliance
1.015358	42.9	9.000	N	10.4	13.1	56.0	Compliance
1.056628	44.1	9.000	N	10.4	11.9	56.0	Compliance
1.385415	39.8	9.000	N	10.4	16.2	56.0	Compliance
2.216927	38.8	9.000	N	10.4	17.2	56.0	Compliance

Frequency (MHz)	Average (dB $\mu$ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)	Comment
0.390261	26.2	9.000	N	10.2	21.9	48.1	Compliance
0.549741	26.8	9.000	N	10.1	19.2	46.0	Compliance
0.576662	26.0	9.000	N	10.2	20.0	46.0	Compliance
1.056628	29.6	9.000	N	10.4	16.4	46.0	Compliance
1.162648	28.5	9.000	N	10.4	17.5	46.0	Compliance
1.385415	27.0	9.000	N	10.4	19.0	46.0	Compliance

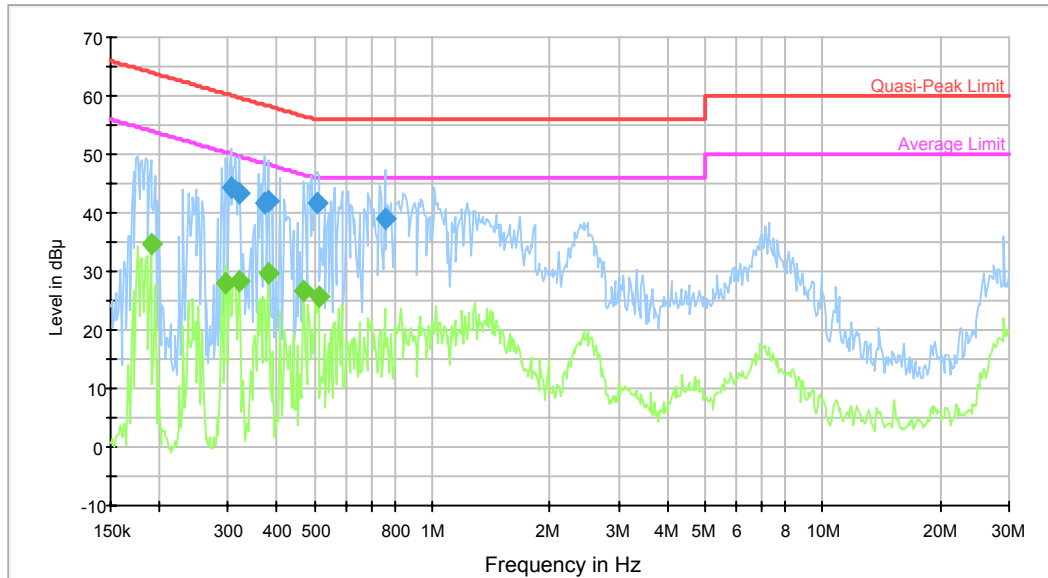
Adapter #2

AC120V, 60Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.295282	43.1	9.000	L1	10.2	17.3	60.4	Compliance
0.304845	43.1	9.000	L1	10.3	17.0	60.1	Compliance
0.487810	41.1	9.000	L1	10.1	15.1	56.2	Compliance
0.503608	41.8	9.000	L1	10.1	14.2	56.0	Compliance
0.670921	36.4	9.000	L1	10.4	19.6	56.0	Compliance
0.858911	34.8	9.000	L1	10.4	21.2	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.186006	31.9	9.000	L1	10.2	22.3	54.2	Compliance
0.192030	31.4	9.000	L1	10.2	22.6	54.0	Compliance
0.378019	24.8	9.000	L1	10.2	23.5	48.3	Compliance
0.487810	22.7	9.000	L1	10.1	23.5	46.2	Compliance
0.503608	24.0	9.000	L1	10.1	22.0	46.0	Compliance
1.407671	23.1	9.000	L1	10.4	22.9	46.0	Compliance

**AC120V, 60Hz, Neutral:**

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.304845	44.4	9.000	N	10.3	15.7	60.1	Compliance
0.319773	43.2	9.000	N	10.3	16.5	59.7	Compliance
0.372042	41.6	9.000	N	10.2	16.9	58.5	Compliance
0.381043	42.1	9.000	N	10.2	16.2	58.3	Compliance
0.507637	41.7	9.000	N	10.1	14.3	56.0	Compliance
0.756101	39.1	9.000	N	10.4	16.9	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.190505	34.5	9.000	N	10.2	19.5	54.0	Compliance
0.295282	28.0	9.000	N	10.3	22.4	50.4	Compliance
0.319773	28.3	9.000	N	10.3	21.4	49.7	Compliance
0.381043	29.8	9.000	N	10.2	18.5	48.3	Compliance
0.468757	26.8	9.000	N	10.1	19.7	46.5	Compliance
0.511698	25.5	9.000	N	10.1	20.5	46.0	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.

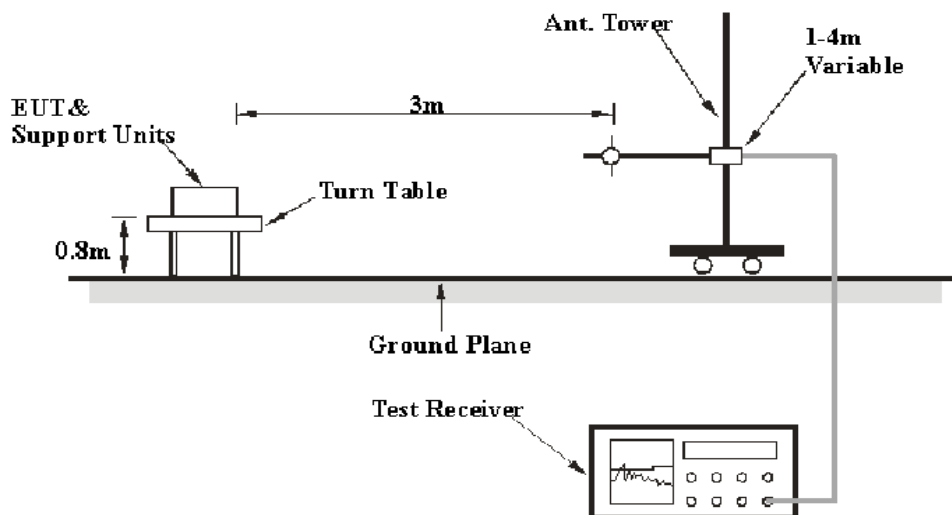
Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is: 30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical; 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical; 1G~6GHz: 4.45 dB, 6G~18GHz: 5.23 dB

Table 1 – Values of  $U_{cisp}$

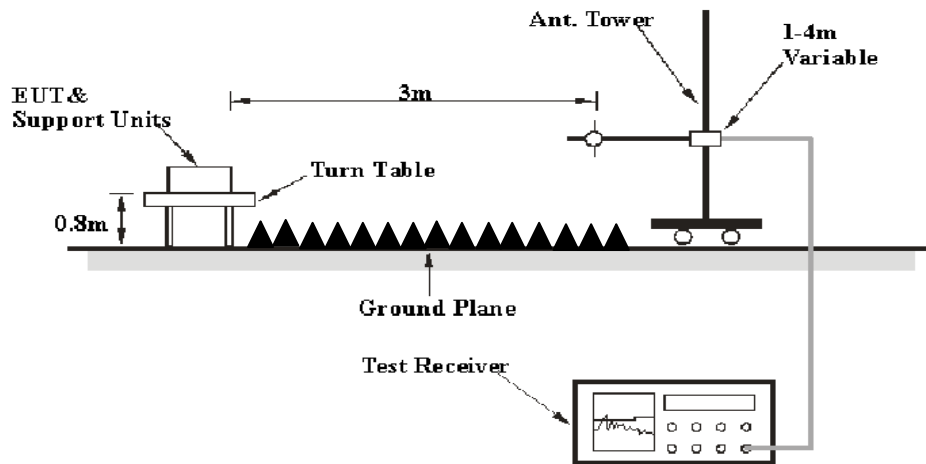
Measurement		$U_{cisp}$
Radiated disturbance (electric field strength at an OATS or in a SAC)	(30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR)	(1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR)	(6 GHz to 18 GHz)	5.5 dB

### 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 13.0 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 Data****Environmental Conditions**

<b>Temperature:</b>	27.5 °C
<b>Relative Humidity:</b>	53 %
<b>ATM Pressure:</b>	100.5 kPa

\* The testing was performed by Rocky Xiao on 2016-07-25.

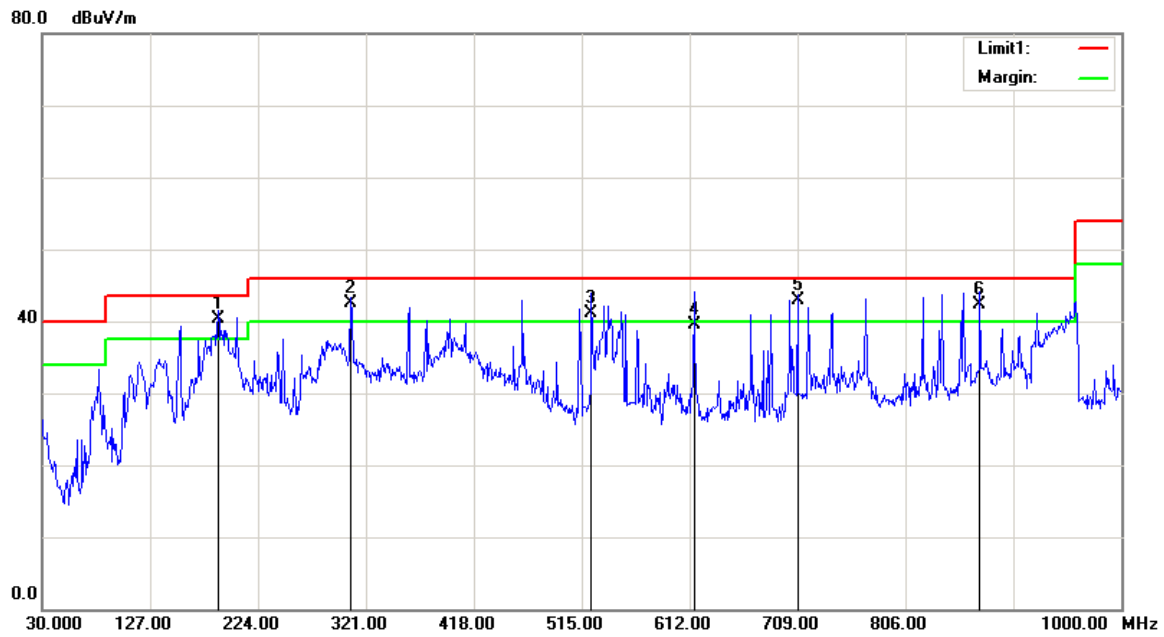
*Test Result: Compliance*

Test Mode: Full Load

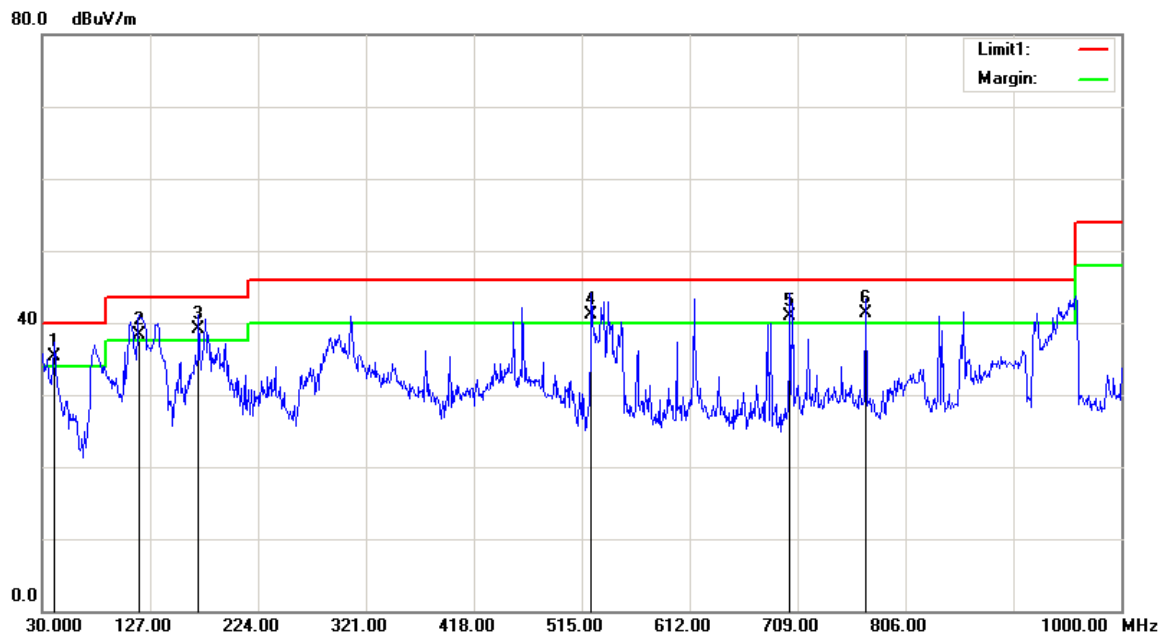
### 1) Below 1GHz:

Adapter #1

#### Horizontal



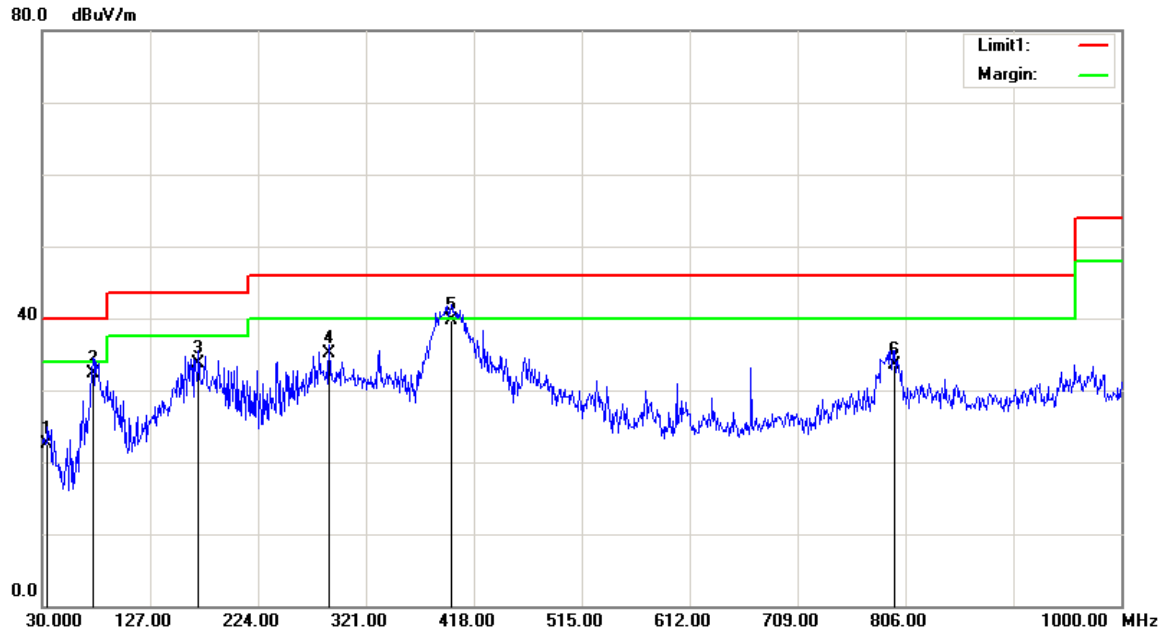
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
188.1100	48.68	QP	-8.28	40.40	43.50	3.10
307.4200	48.24	QP	-5.64	42.60	46.00	3.40
523.7300	42.91	QP	-1.71	41.20	46.00	4.80
615.8800	40.11	QP	-0.51	39.60	46.00	6.40
709.0000	41.50	QP	1.50	43.00	46.00	3.00
872.9300	38.52	QP	3.78	42.30	46.00	3.70

**Vertical**

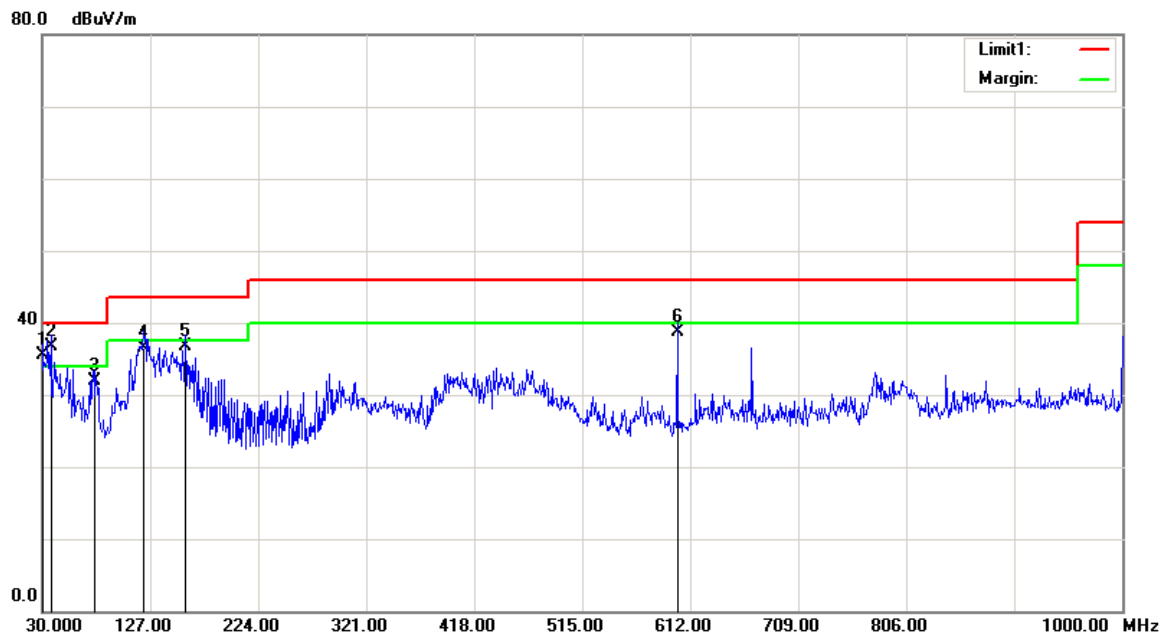
Frequency (MHz)	Receiver Reading (dBuV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
40.6700	42.28	QP	-6.98	35.30	40.00	4.70
117.3000	44.20	QP	-5.90	38.30	43.50	5.20
170.6500	47.16	QP	-7.96	39.20	43.50	4.30
523.7300	42.81	QP	-1.71	41.10	46.00	4.90
702.2100	39.36	QP	1.54	40.90	46.00	5.10
770.1100	38.79	QP	2.51	41.30	46.00	4.70

## Adapter #2

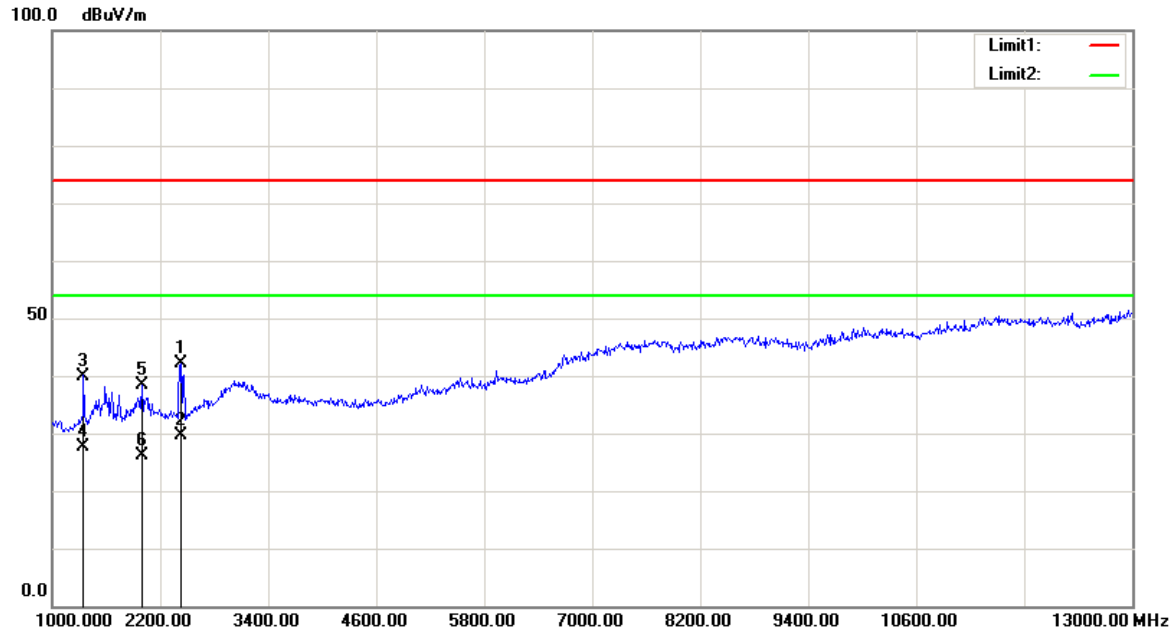
## Horizontal



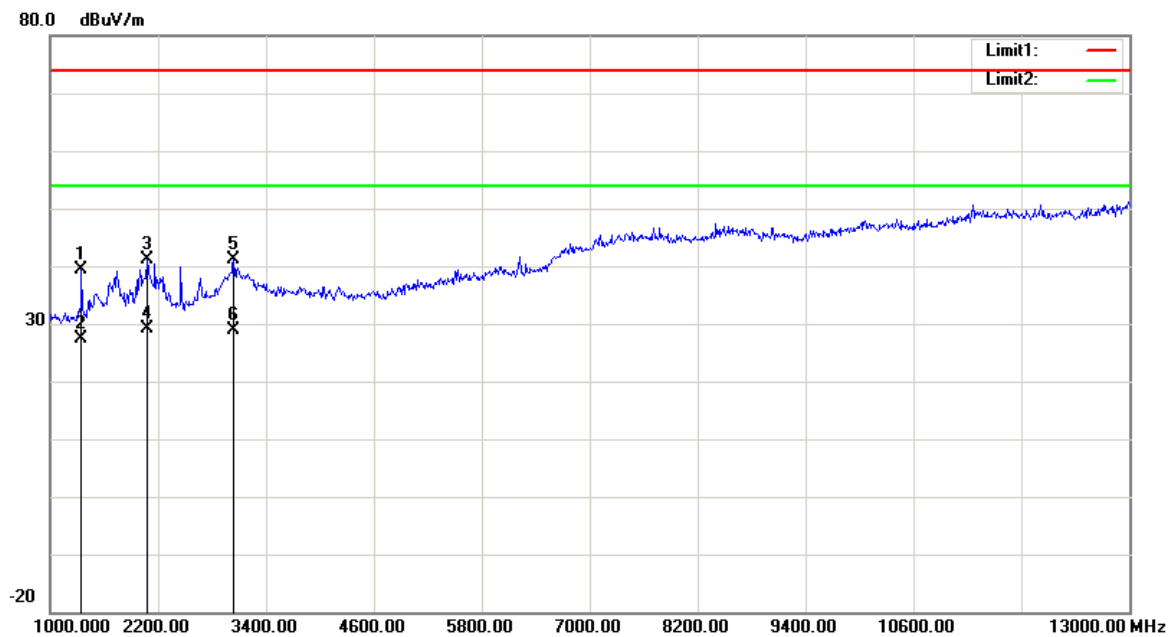
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
34.8500	25.23	QP	-2.63	22.60	40.00	17.40
75.5900	44.31	QP	-11.91	32.40	40.00	7.60
170.6500	41.66	QP	-7.96	33.70	43.50	9.80
288.0200	41.00	QP	-5.90	35.10	46.00	10.90
397.6300	43.45	QP	-3.65	39.80	46.00	6.20
796.3000	30.50	QP	3.00	33.50	46.00	12.50

**Vertical**

Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	34.65	QP	0.95	35.60	40.00	4.40
37.7600	41.68	QP	-4.88	36.80	40.00	3.20
76.5600	43.84	QP	-11.94	31.90	40.00	8.10
121.1800	42.20	QP	-5.60	36.60	43.50	6.90
159.0100	43.84	QP	-7.14	36.70	43.50	6.80
600.3600	39.47	QP	-0.67	38.80	46.00	7.20

**2) Above 1GHz:***Adapter #1***Horizontal**

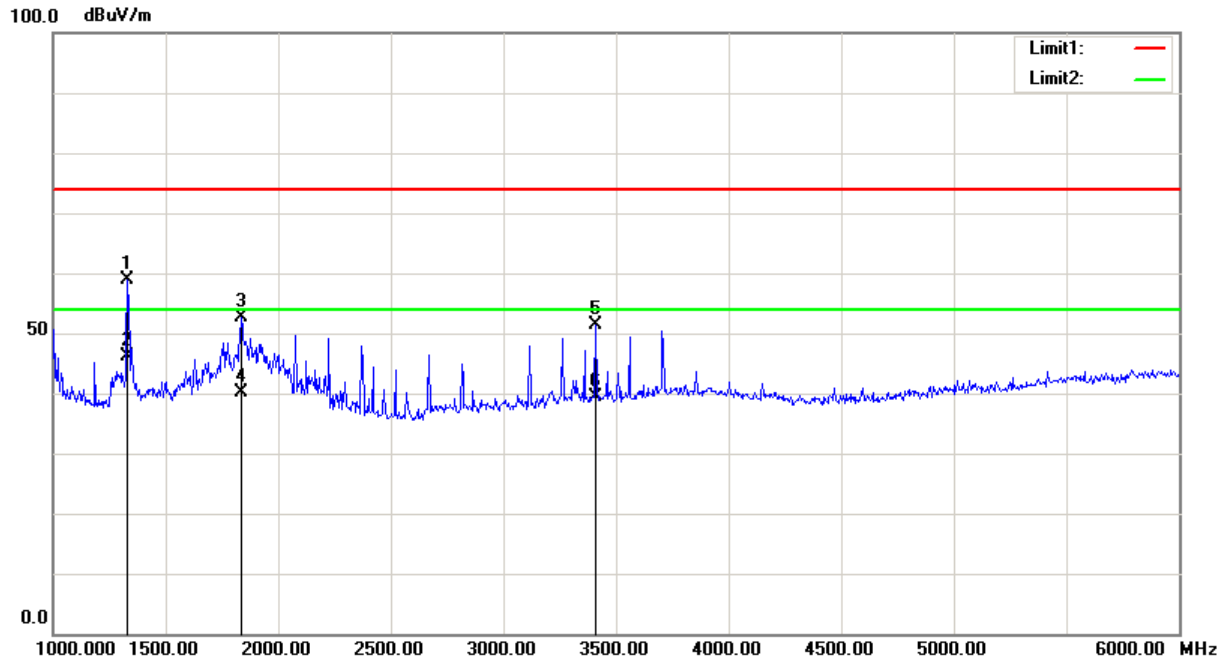
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2428.000	40.07	peak	2.00	42.07	74.00	31.93
2428.000	27.75	AVG	2.00	29.75	54.00	24.25
1348.000	40.81	peak	-0.81	40.00	74.00	34.00
1348.000	28.44	AVG	-0.81	27.63	54.00	26.37
2002.000	37.73	peak	0.53	38.26	74.00	35.74
2002.000	25.51	AVG	0.53	26.04	54.00	27.96

**Vertical**

Frequency (MHz)	Receiver Reading (dB $\mu$ V)	Detector	Correction Factor (dB/m)	Cord. Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
1348.000	40.29	peak	-0.81	39.48	74.00	34.52
1348.000	28.14	AVG	-0.81	27.33	54.00	26.67
2086.000	40.41	peak	0.69	41.10	74.00	32.90
2086.000	28.35	AVG	0.69	29.04	54.00	24.96
3046.000	34.55	peak	6.65	41.20	74.00	32.80
3046.000	22.22	AVG	6.65	28.87	54.00	25.13

## Adapter #2

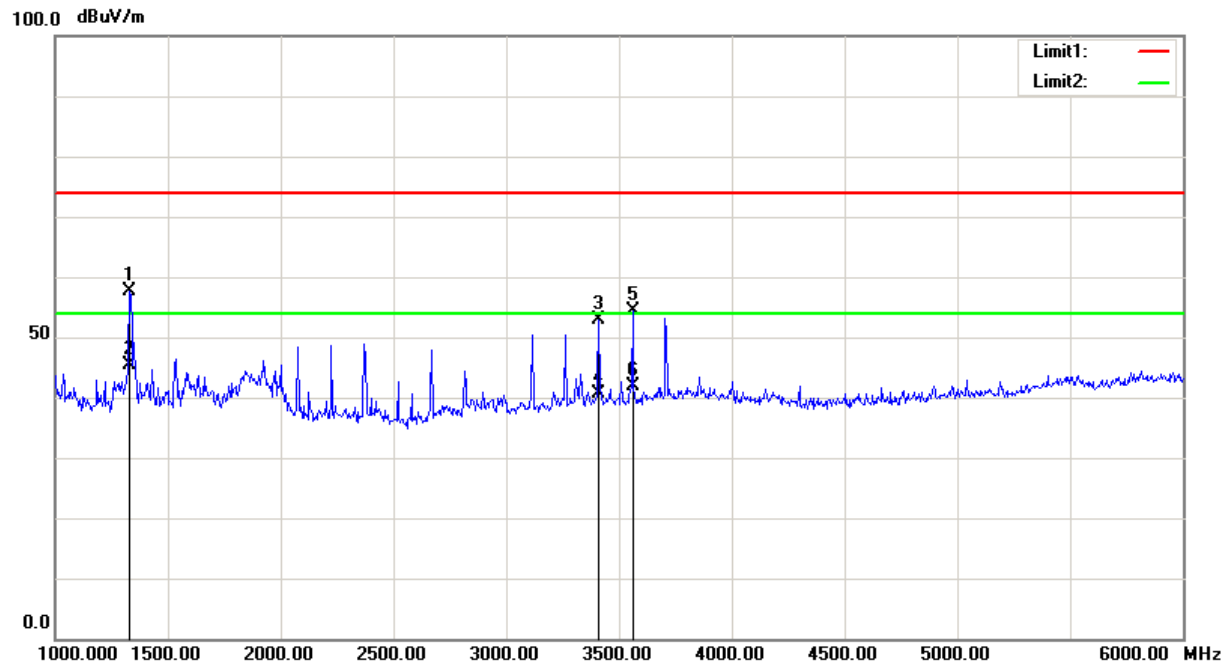
## Horizontal



Frequency (MHz)	Receiver Reading (dB $\mu$ V)	Detector	Correction Factor (dB/m)	Cord. Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
1332.500	54.57	peak	4.20	58.77	74.00	15.23
1332.500	41.93	AVG	4.20	46.13	54.00	7.87
1837.500	48.98	peak	3.54	52.52	74.00	21.48
1837.500	36.55	AVG	3.54	40.09	54.00	13.91
3412.500	43.86	peak	7.54	51.40	74.00	22.60
3412.500	31.72	AVG	7.54	39.26	54.00	14.74

Note: no emission was detected in the range 6-13GHz.



**Vertical**

Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1332.500	53.53	peak	4.20	57.73	74.00	16.27
1332.500	41.18	AVG	4.20	45.38	54.00	8.62
3412.500	45.45	peak	7.54	52.99	74.00	21.01
3412.500	33.11	AVG	7.54	40.65	54.00	13.35
3560.000	46.06	peak	8.34	54.40	74.00	19.60
3560.000	33.60	AVG	8.34	41.94	54.00	12.06

Note: no emission was detected in the range 6-13GHz.

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