

FCC PART 15 B, CLASS B TEST REPORT

For

Yealink (Xiamen) Network Technology Co., Ltd.

4th-5th Floor, South Building, NO. 63 WangHai Road, 2nd Software Park, Xiamen, China

FCC ID: T2C-T46G

Report Type: Original Report	Product Type: IP Phone
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Report Number: <u>RSZ130115005-00</u>	
Report Date: <u>2013-01-29</u>	
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Note: This test report is prepared for the customer shown above and for the equipment 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 *Yealink (Xiamen) Network Technology Co., Ltd.*'s product, model number: *T46G (FCC ID: T2C-T46G)* or the "EUT" in this report is an *IP Phone*, which was measured approximately: 24.0 cm (L) x 21.0 cm (W) x 5.5 cm (H), rated input voltage: DC 5V from adapter or PoE 48V power, the highest operating frequency is 200 MHz.

AC Adapter 1 Information: AC/DC ADAPTOR

Model: NSA15EU-050200

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

Output: DC 5V, 2.0A

AC Adapter 2 Information: SWITCHING POWER ADAPTER

Model: OH-1015A0502000U1-UL

Input: 100-240V~50/60Hz, 350mA

Output: DC 5V, 2A

**All measurement and test data in this report was gathered from production sample serial number: 1301071 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2013-01-15.*

Objective

This test report is prepared on behalf of *Yealink (Xiamen) Network Technology Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and 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)

No related submittal(s)

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) 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 December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. 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 Exercise Software

No exercise software was used.

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Yealink	IP PHONE	T46G	N/A
DELL	Laptop	PP11L	N/A
ShoreTel	POE	PD-3001/AC	N/A
Sagemcom	Router	LK11153DP530005	N/A
Kingston	U-disk	2GB	N/A
Yealink	EXPANSION MODULE	EXP40	N/A

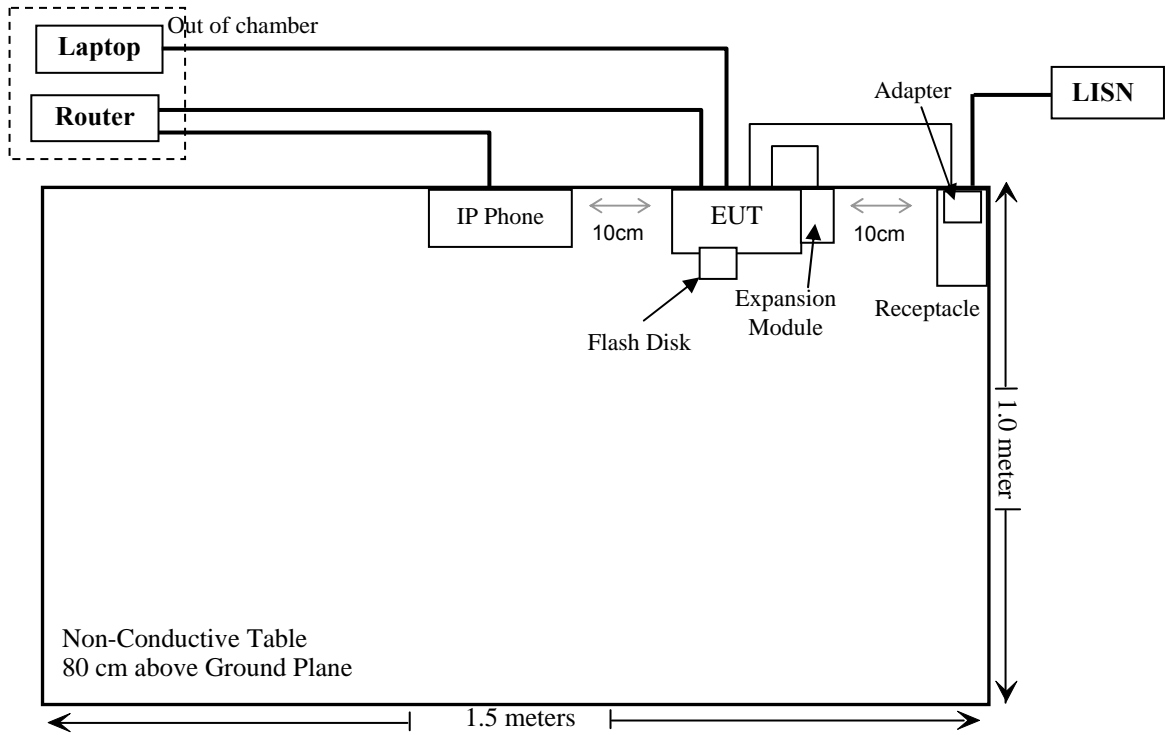
External I/O Cable

Cable Description	Length (m)	From/Port	To
Unshielded Detachable AC Cable	1.0	EUT Adapter	LISN
Unshielded Detachable Adapter Cable	1.8	EUT	EUT Adapter
Unshielded Detachable RJ11 Cable	0.25	EXPANSION MODULE	EUT
Unshielded Detachable RJ45 Cable	10	EUT	Laptop
Unshielded Detachable RJ45 Cable	2.0	EUT	Router
Unshielded Detachable RJ45 Cable	2.0	IP Phone	Router
Unshielded Detachable Adapter Cable	1.2	PoE	LISN
Unshielded Detachable Adapter Cable	2.0	PoE	EUT
Unshielded Detachable Adapter Cable	3.0	PoE	Router

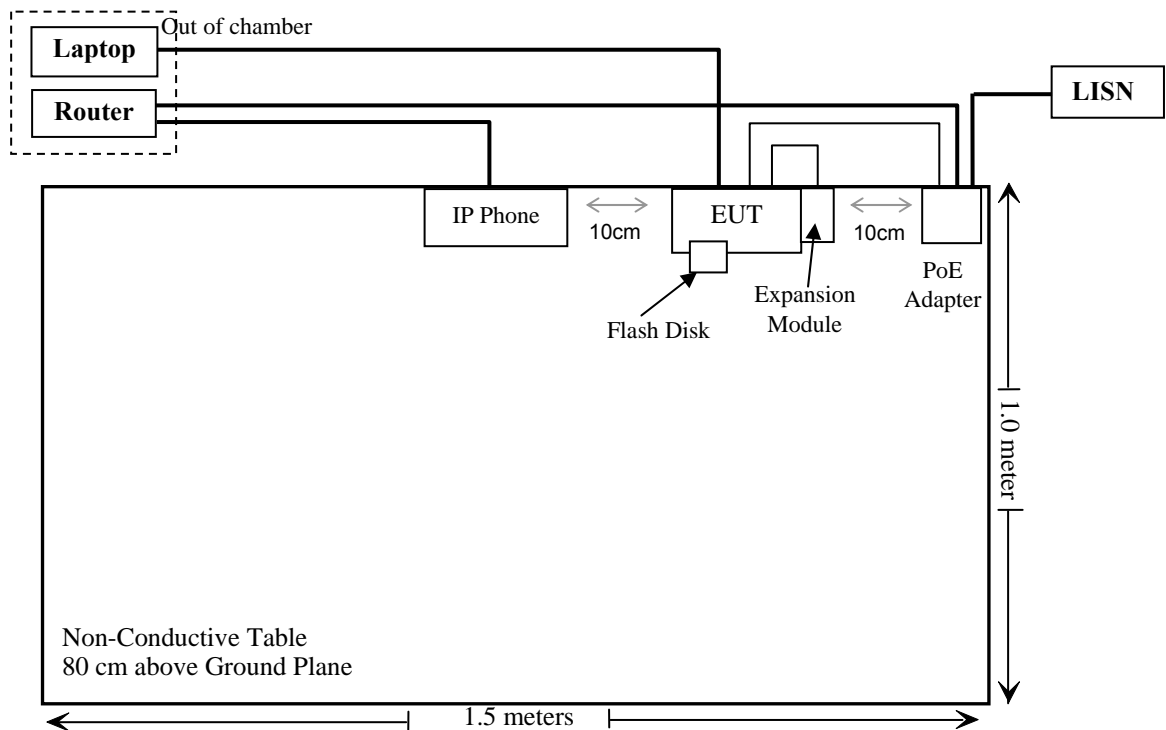
Block Diagram of Test Setup

For conducted emission

Power by AC Adapter:



Power by PoE:



SUMMARY OF TEST RESULTS

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

FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

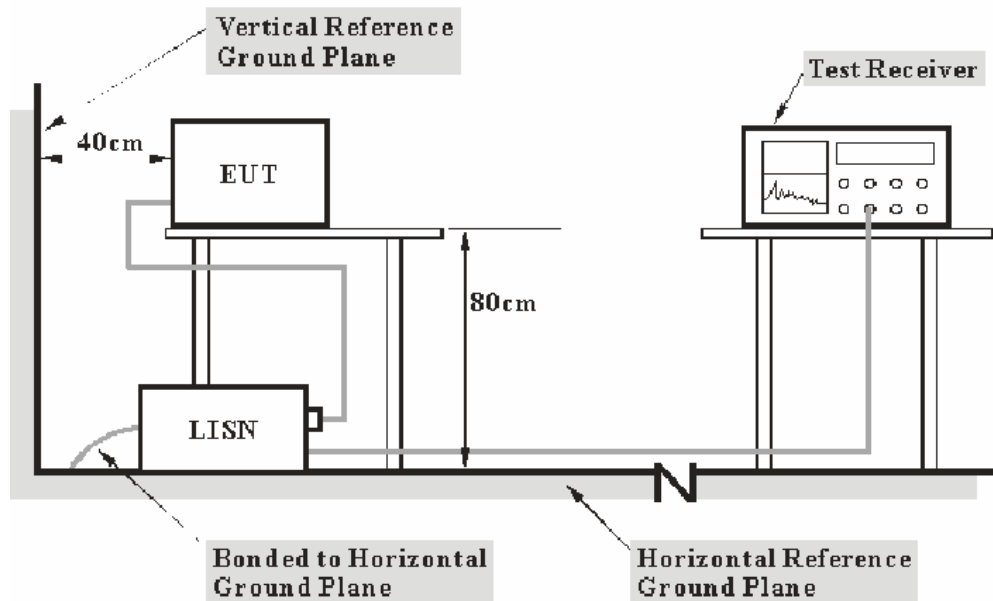
According to FCC §15.107

Measurement Uncertainty

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

Based on CISPR 16-4-2, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 2.4 dB(k=2, 95% level of confidence), and the uncertainty will not be taken into consideration for the test data recorded in the report.

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 C63.4-2009. The related limit was specified in FCC Part 15.107 Class B.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz 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 Procedure

During the conducted emission test, the adapter was connected to the outlet of 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.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2012-11-24	2013-11-23
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2012-08-22	2013-08-21
Rohde & Schwarz	Pulse limiter	ESH3Z2	DE25985	2012-07-08	2013-07-07
BACL	CE Test software	BACL-CE	V1.0	-	-

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

Corrected Factor & Margin Calculation

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

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

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB 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, with the worst margin reading of:

10.21 dB at 24.975 MHz in the **Neutral** conducted mode for power by PoE

Test Data

Environmental Conditions

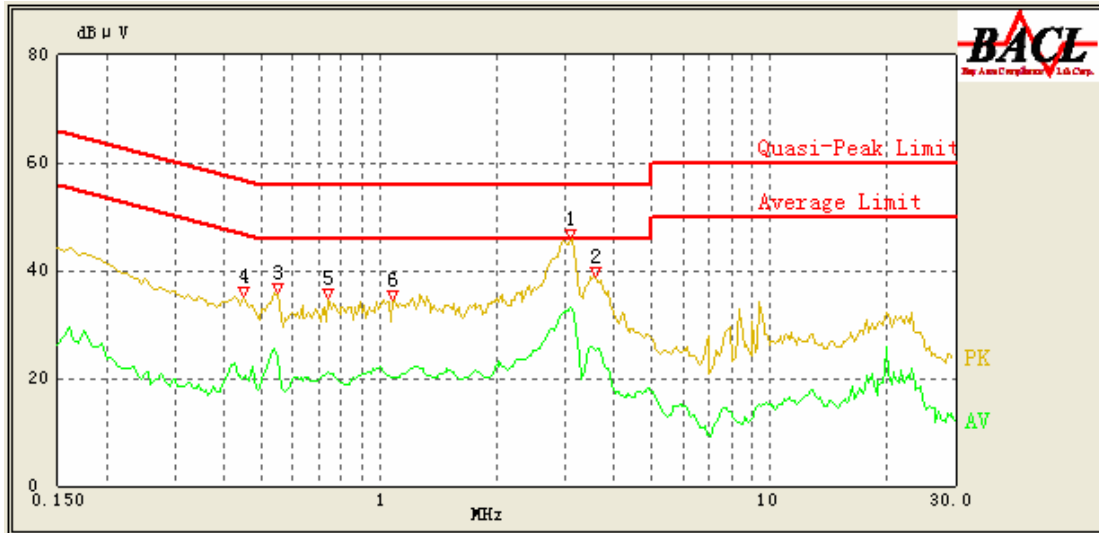
Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Lebron Wang on 2013-01-18.

EUT Operation Mode: Talking

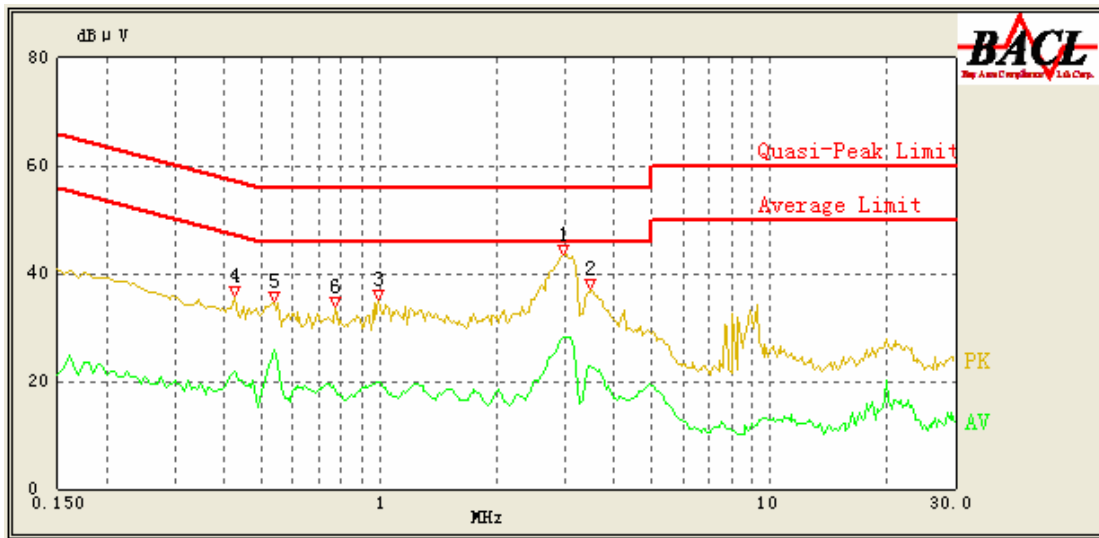
Powered by Adapter 1:

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
3.080	33.07	10.24	46.00	12.93	Ave.
3.085	39.98	10.24	56.00	16.02	QP
3.590	25.22	10.25	46.00	20.78	Ave.
0.550	23.75	10.24	46.00	22.25	Ave.
3.590	33.64	10.25	56.00	22.36	QP
0.740	21.01	10.21	46.00	24.99	Ave.
0.550	30.65	10.24	56.00	25.35	QP
1.080	20.32	10.17	46.00	25.68	Ave.
0.450	30.68	10.26	57.43	26.75	QP
0.445	19.94	10.26	47.57	27.63	Ave.
0.740	26.79	10.21	56.00	29.21	QP
1.080	25.91	10.17	56.00	30.09	QP

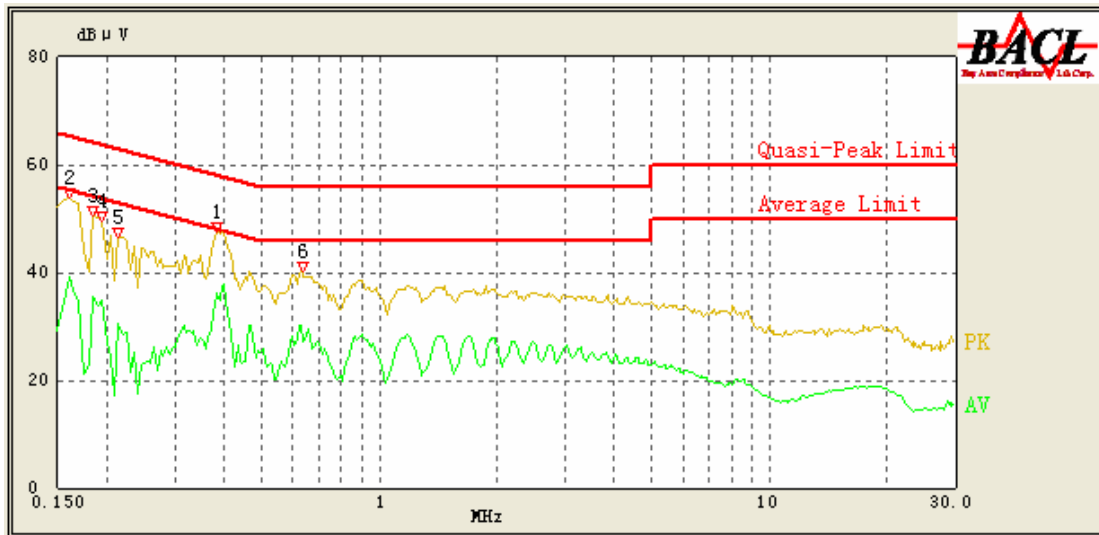
AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
2.980	28.05	10.23	46.00	17.95	Ave.
2.975	37.08	10.23	56.00	18.92	QP
0.540	25.92	10.24	46.00	20.08	Ave.
3.465	22.91	10.24	46.00	23.09	Ave.
3.465	31.72	10.24	56.00	24.28	QP
0.535	31.08	10.24	56.00	24.92	QP
0.995	19.72	10.17	46.00	26.28	Ave.
0.425	21.82	10.25	48.14	26.32	Ave.
0.765	19.13	10.20	46.00	26.87	Ave.
0.425	30.21	10.25	58.14	27.93	QP
0.775	26.65	10.20	56.00	29.35	QP
0.990	26.13	10.17	56.00	29.87	QP

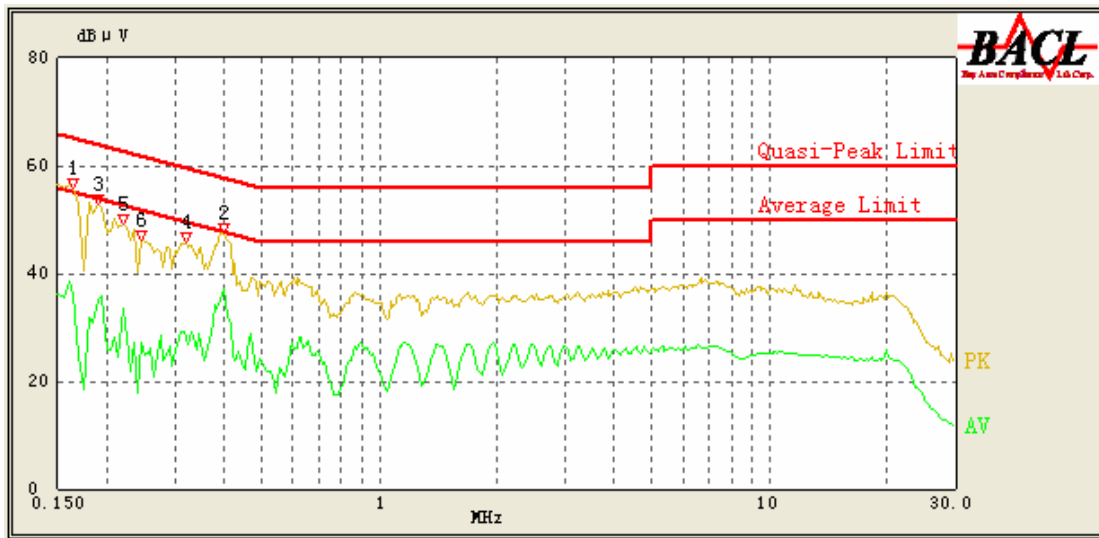
Power by Adapter 2:

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.385	36.18	10.26	49.29	13.11	Ave.
0.385	44.48	10.26	59.29	14.81	QP
0.160	50.05	10.27	65.71	15.66	QP
0.630	30.23	10.23	46.00	15.77	Ave.
0.160	39.09	10.27	55.71	16.62	Ave.
0.195	45.94	10.27	64.71	18.77	QP
0.185	45.98	10.27	65.00	19.02	QP
0.185	35.56	10.27	55.00	19.44	Ave.
0.635	36.29	10.23	56.00	19.71	QP
0.195	34.81	10.27	54.71	19.90	Ave.
0.215	42.19	10.27	64.14	21.95	QP
0.215	30.60	10.27	54.14	23.54	Ave.

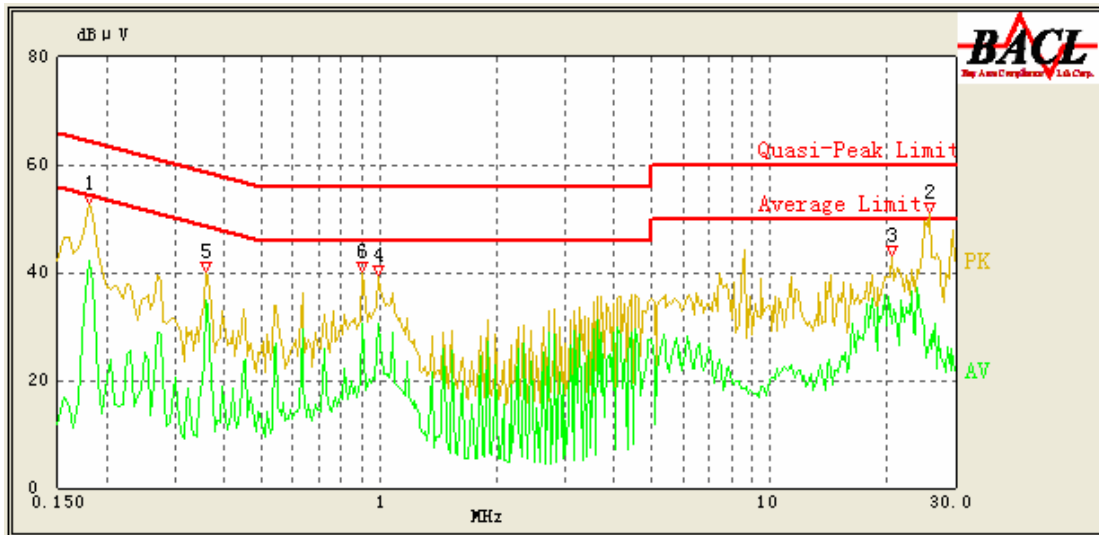
AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.400	37.18	10.25	48.86	11.68	Ave.
0.400	44.30	10.25	58.86	14.56	QP
0.165	50.35	10.24	65.57	15.22	QP
0.190	47.72	10.24	64.86	17.14	QP
0.165	36.18	10.24	55.57	19.39	Ave.
0.220	44.36	10.24	64.00	19.64	QP
0.190	35.04	10.24	54.86	19.82	Ave.
0.220	33.35	10.24	54.00	20.65	Ave.
0.320	39.51	10.25	61.14	21.63	QP
0.320	28.28	10.25	51.14	22.86	Ave.
0.245	39.16	10.25	63.29	24.13	QP
0.245	27.24	10.25	53.29	26.05	Ave.

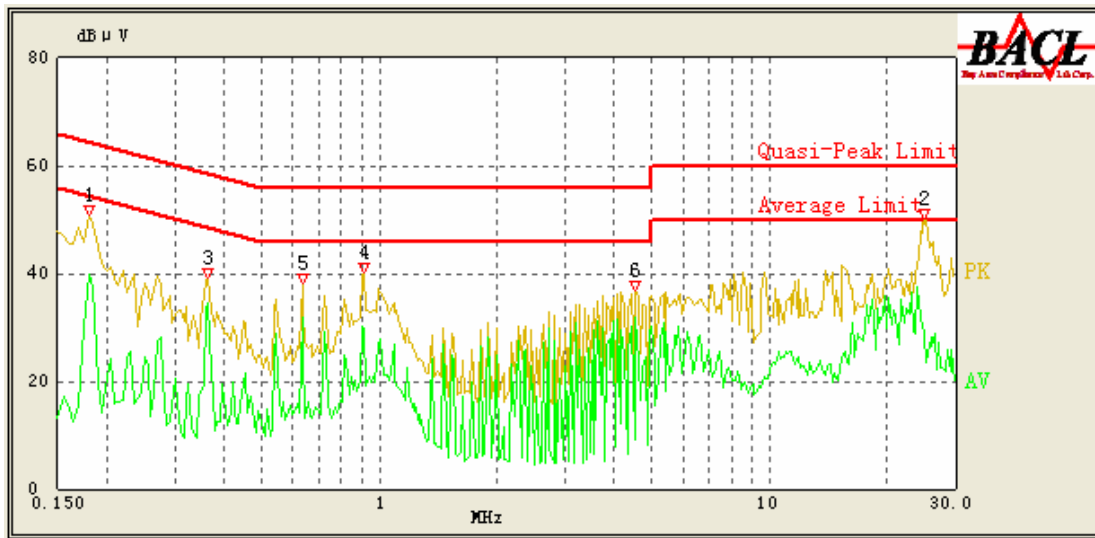
Power by PoE:

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
25.615	47.25	11.96	60.00	12.75	QP
0.180	42.12	10.27	55.14	13.02	Ave.
0.180	51.13	10.27	65.14	14.01	QP
0.360	34.88	10.26	50.00	15.12	Ave.
0.995	30.44	10.17	46.00	15.56	Ave.
0.905	30.34	10.19	46.00	15.66	Ave.
0.905	37.21	10.19	56.00	18.79	QP
20.685	30.64	12.68	50.00	19.36	Ave.
0.360	38.48	10.26	60.00	21.52	QP
25.875	28.41	11.93	50.00	21.59	Ave.
0.995	34.32	10.17	56.00	21.68	QP
20.685	36.72	12.68	60.00	23.28	QP

AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
24.975	49.79	12.03	60.00	10.21	QP
0.635	31.84	10.22	46.00	14.16	Ave.
4.535	31.70	10.28	46.00	14.30	Ave.
0.180	40.00	10.24	55.14	15.14	Ave.
0.180	49.79	10.24	65.14	15.35	QP
0.365	34.45	10.25	49.86	15.41	Ave.
0.910	29.98	10.18	46.00	16.02	Ave.
4.535	35.42	10.28	56.00	20.58	QP
0.635	35.34	10.22	56.00	20.66	QP
24.960	28.34	12.03	50.00	21.66	Ave.
0.910	33.81	10.18	56.00	22.19	QP
0.365	36.96	10.25	59.86	22.90	QP

Note:

- 1) Correction Factor = LISN/ISN VDF (Voltage Division Factor) + Cable Loss + Pulse Limiter Attenuation
The corrected factor has been input into the transducer of the test software.
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

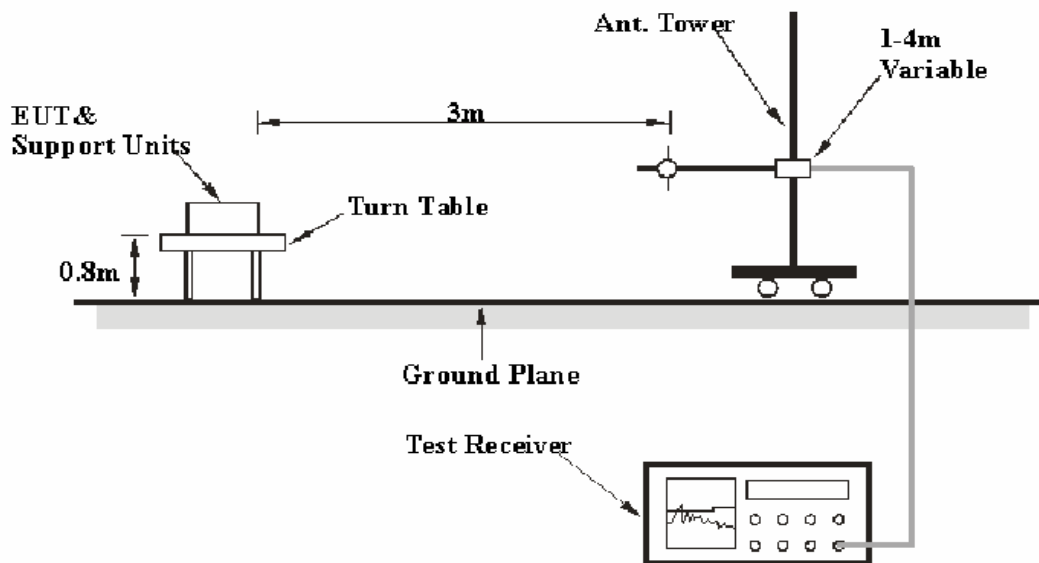
According to FCC §15.109

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-2, the Treatment of Uncertainty in EMC Measurements, the estimation of the uncertainty of radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 4.0 dB($k=2$, 95% level of confidence), and the uncertainty will not be taken into consideration for the test data recorded in the report.

EUT Setup



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2009. 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.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 2 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	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

Test Procedure

For the radiated emissions test, the adapter and relevant equipments were connected to AC floor outlet.

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	8447E	1937A01046	2012-11-24	2013-11-23
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2012-08-08	2013-08-07
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2014-11-27
Super Ultra	Amplifier	ZVA-213+	N/A	2012-11-24	2013-11-23
Sunol Sciences	Horn Antenna	DRH-118	A052304	2011-12-01	2014-11-30
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2012-11-24	2013-11-23
R&S	Auto test Software	EMC32	V6.30	-	-

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

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, with the worst margin reading of:

4.9 dB at 400.010450 MHz in the Vertical polarization for power by adapter 2

Test Data

Environmental Conditions

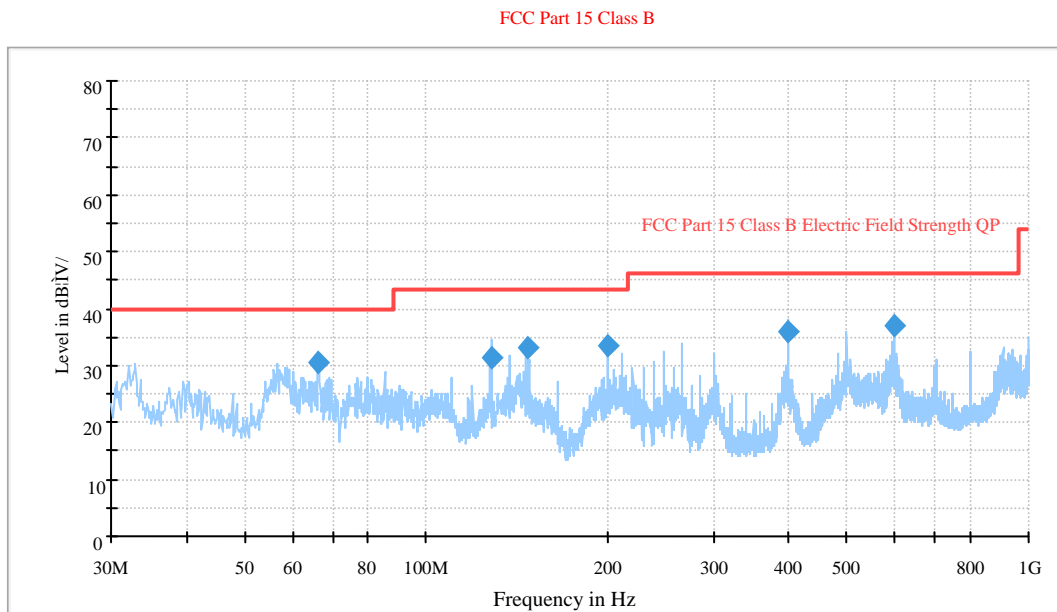
Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Lebron Wang on 2013-01-18.

EUT Operation Mode: Talking

Powered by Adapter 1:

1) 30~1000 MHz



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity	Turntable Position (Degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
600.033950	37.0	189.0	V	249.0	-9.4	46.0	9.0
400.055000	36.2	107.0	V	56.0	-11.8	46.0	9.8
67.587500	30.1	109.0	V	181.0	-20.6	40.0	9.9
200.000150	33.6	141.0	H	126.0	-15.1	43.5	9.9
146.948825	33.0	106.0	V	179.0	-14.8	43.5	10.5
128.552250	31.3	117.0	V	139.0	-13.4	43.5	12.3

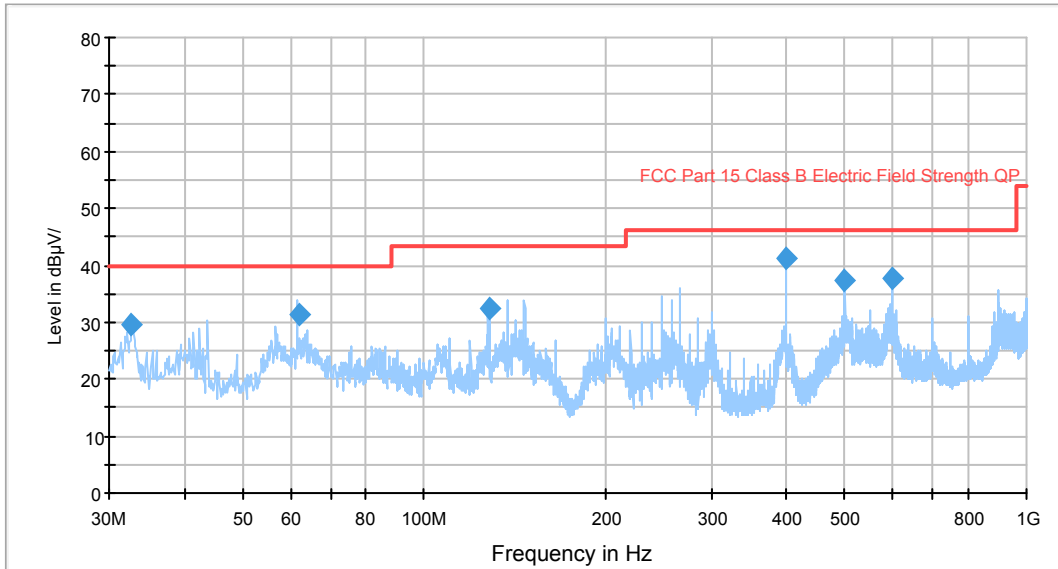
2) Above 1 GHz

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	FCC Part 15.109	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H / V)			Limit (dBµV/m)	Margin (dB)
1392.8	39.25	Ave.	73	1.1	H	0.68	39.93	54	14.07
1200.4	37.36	Ave.	25	1.0	H	0.14	37.50	54	16.50
1200.4	37.09	Ave.	113	1.2	V	0.14	37.23	54	16.77
1889.8	29.44	Ave.	98	1.1	V	2.63	32.07	54	21.93
1392.8	48.89	PK	73	1.1	H	0.68	49.57	74	24.43
1200.4	44.60	PK	113	1.2	V	0.14	44.74	74	29.26
1200.4	44.13	PK	25	1.0	H	0.14	44.27	74	29.73
1891.8	41.24	PK	98	1.1	V	2.63	43.87	74	30.13

Powered by Adapter 2

1) 30~1000 MHz

Auto Test(FCC part 15 Class B)



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity	Turntable Position (Degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
400.010450	41.1	139.0	V	267.0	-11.8	46.0	4.9
128.592900	32.5	105.0	V	120.0	-13.4	43.5	11.0
599.993150	37.8	106.0	V	255.0	-9.4	46.0	8.2
62.005800	31.5	170.0	V	243.0	-20.7	40.0	8.5
500.008550	37.3	104.0	V	261.0	-10.1	46.0	8.7
32.667500	29.7	170.0	V	163.0	-8.9	40.0	10.3

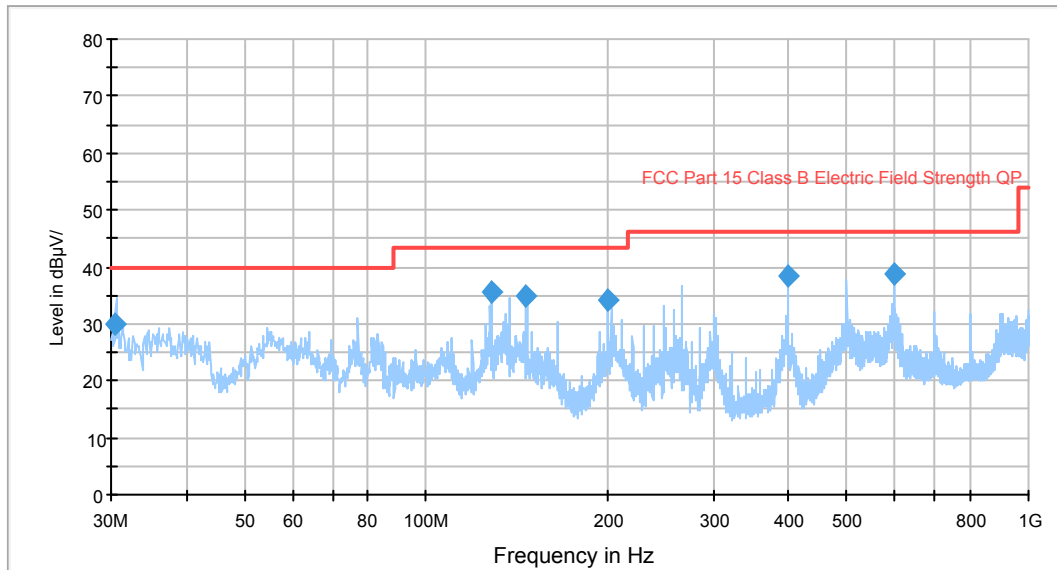
2) Above 1 GHz

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	FCC Part 15.109	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H / V)			Limit (dBµV/m)	Margin (dB)
1402.8	41.23	Ave.	113	1.2	H	0.71	41.94	54	12.06
1200.4	37.61	Ave.	25	1.0	V	0.14	37.75	54	16.25
1200.4	36.95	Ave.	98	1.1	H	0.14	37.09	54	16.91
1400.8	34.04	Ave.	73	1.1	V	0.70	34.74	54	19.26
1402.8	49.66	PK	113	1.2	H	0.71	50.37	74	23.63
1200.4	44.88	PK	98	1.1	H	0.14	45.02	74	28.98
1400.8	44.14	PK	73	1.1	V	0.70	44.84	74	29.16
1200.4	43.64	PK	25	1.0	V	0.14	43.78	74	30.22

Powered by PoE

1) 30~1000 MHz

Auto Test(FCC part 15 Class B)



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity	Turntable Position (Degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
600.001100	38.9	105.0	V	266.0	-9.4	46.0	7.1
400.021250	38.6	137.0	V	0.0	-11.8	46.0	7.4
128.566200	35.6	106.0	V	126.0	-13.4	43.5	7.9
146.911250	35.1	104.0	V	148.0	-14.8	43.5	8.4
200.017900	34.2	105.0	V	201.0	-15.1	43.5	9.3
30.492700	29.9	104.0	V	1.0	-7.1	40.0	17.2

2) Above 1 GHz

Frequency (MHz)	Receiver		Turn table Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	FCC Part 15.109	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H / V)			Limit (dBµV/m)	Margin (dB)
1392.8	38.60	Ave.	122	1.3	H	0.68	39.28	54	14.72
1200.4	37.96	Ave.	13	1.1	H	0.14	38.10	54	15.90
1400.8	36.53	Ave.	53	1.0	V	0.70	37.23	54	16.77
1200.4	33.79	Ave.	87	1.2	V	0.14	33.93	54	20.07
1392.8	48.43	PK	122	1.3	H	0.68	49.11	74	24.89
1200.4	46.12	PK	13	1.1	H	0.14	46.26	74	27.74
1400.8	44.10	PK	53	1.0	V	0.70	44.80	74	29.20
1200.4	43.05	PK	87	1.2	V	0.14	43.19	74	30.81

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