

FCC PART 15 B TEST REPORT

For

ISAW CAMERA INC.

#501, Suntech City 1st, Dunchon-Daero 474, Jungwon, Seongnam, Gyeonggi, Korea

FCC ID: 2AAHK-ISS1W

Report Type: Original Report	Product Type: ISAW-S1W
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Report Number: RDG150713006-00B	
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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *ISAW CAMERA INC.*'s product, model number: *ISS1W(FCC ID: 2AAHK-ISS1W)* (or the "EUT") in this report was a *ISAW-S1W*, which was measured approximately: 5.5cm (L) x 3.9 cm (W) x 2.7cm (H), rated input voltage: DC3.7V from Li-ion Battery or DC 5V charging from USB port.

Note: The series product, model ISS1W and ISS1, SCS1, SCS1W are electrically identical, the difference between them just is the model name, we selected ISS1W for fully testing, the details was explained in the attached declaration letter.

* All measurement and test data in this report was gathered from production sample serial number: 150713006 (Assigned by applicant). The EUT was received on 2015-07-14.

Objective

This test report is prepared on behalf of *ISAW CAMERA INC.* 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 15.247 DTS submissions with FCC ID: 2AAHK-ISS1W.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, 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 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.: 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).

Test Mode 1: Downloading

Test Mode 2: Charging&HDTV OUT

Equipment Modifications

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

Local Support Equipment List and Details

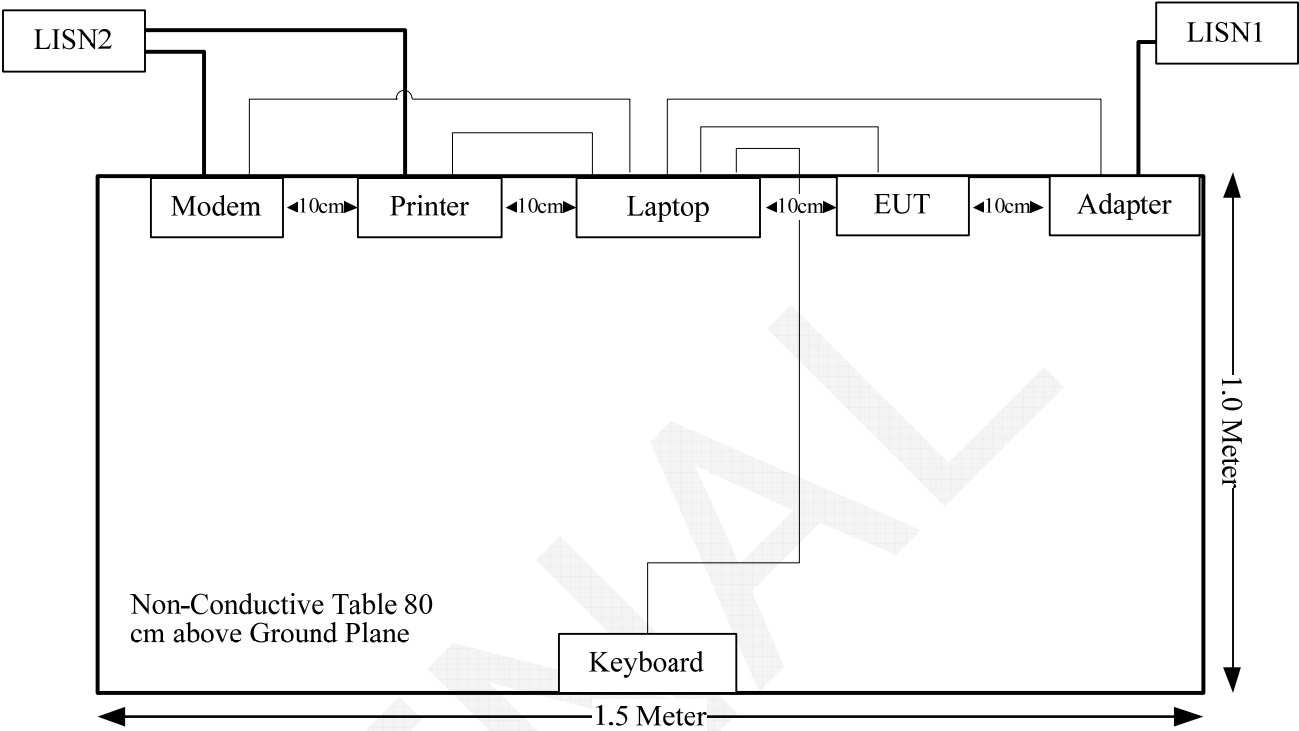
Manufacturer	Description	Model	Serial Number
For downloading mode			
HP	Printer	C3941A	JPTVOB2337
SAST	Modem	AEM-2100	0293
DELL	Keyboard	L100	CNORH656658907BL05DC
DELL	Laptop	PP11L	N/A
SAMSUNG	TF Card	N/A	N/A
For charging&HDTV OUT			
SAMSUNG	Monitor	S22C330H	ZXDCHTHD10149K
Dongguan Aohai Power Technology Co.,Ltd	Adapter	A8-501000	N/A

Support Cable List and Details

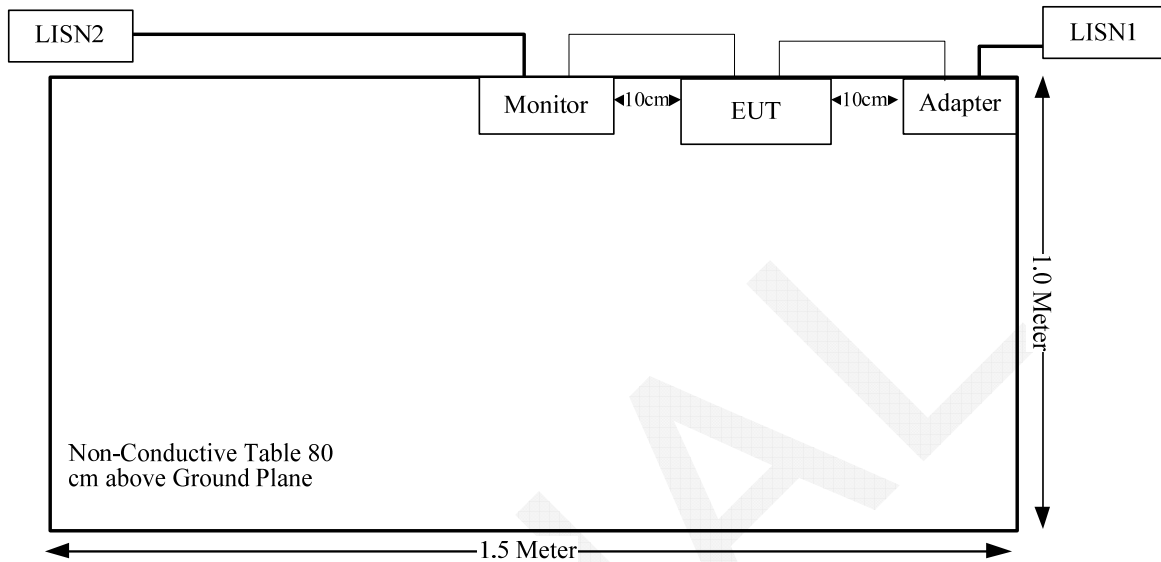
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
For downloading mode					
Parallel Cable	Yes	No	1.2	Parallel Port of Laptop	Printer
Serial Cable	Yes	No	1.2	Serial Port of Laptop	Modem
Keyboard Cable	Yes	No	1.8	USB Port of Laptop	Keyboard
USB Cable	Yes	No	0.6	USB Port of Laptop	EUT
For charging&HDTV OUT					
HDMI Cable	yes	yes	0.8	EUT	Monitor
USB Cable	Yes	No	0.6	USB Port of Adapter	EUT

Configuration of Test Setup

For downloading mode



For charging&HDTV OUT



SUMMARY OF TEST RESULTS

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

FINAL

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:

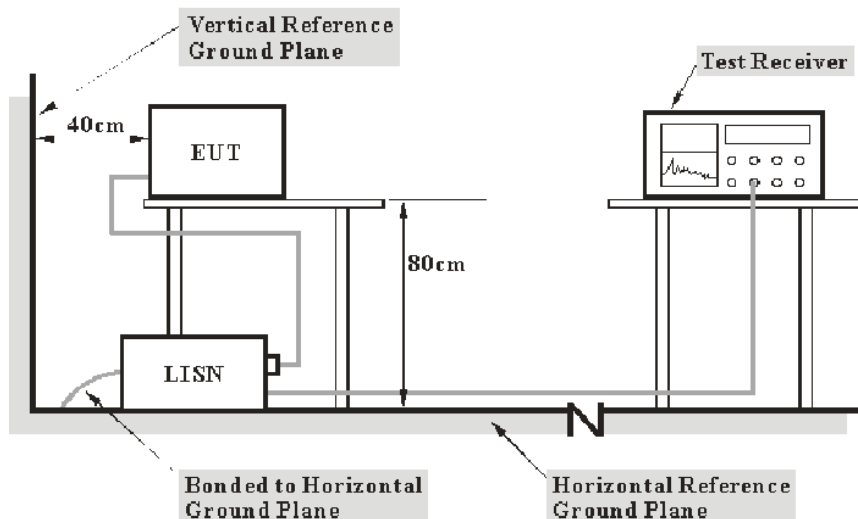
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit.

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 3.46 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 C63.4-2009 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 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	2014-10-20	2015-10-20
R&S	L.I.S.N	ESH2-Z5	892107/021	2015-06-09	2016-06-09
R&S	Two-line V-network	ENV 216	3560.6550.12	2014-12-11	2015-12-11
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 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:

3.90 dB at 0.476287 MHz in the Neutral conducted mode

Test Data

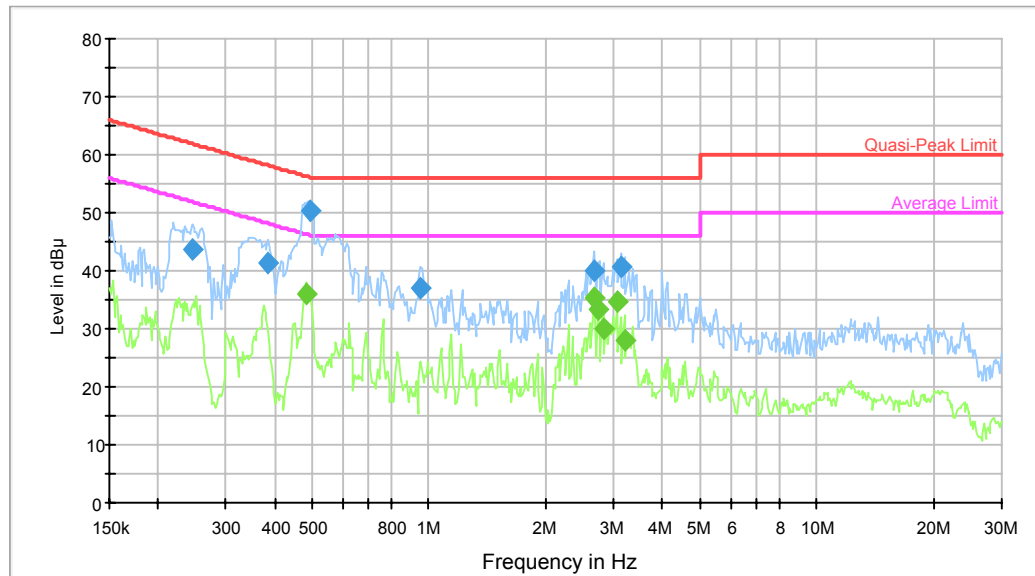
Environmental Conditions

Temperature:	28.6 °C
Relative Humidity:	57 %
ATM Pressure:	99.5kPa

The testing was performed by Allen Qiao on 2015-07-20.

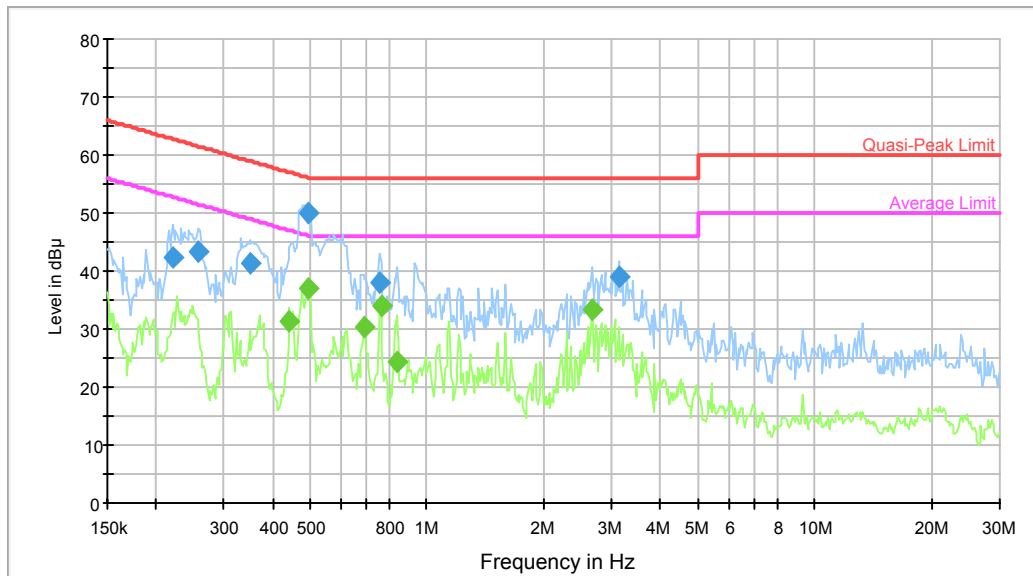
Test Mode: Downloading

AC120V/60Hz,Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.245835	43.6	9.000	L1	10.2	18.3	61.9	Compliance
0.384091	41.3	9.000	L1	10.3	16.9	58.2	Compliance
0.491712	50.3	9.000	L1	10.1	5.8	56.1	Compliance
0.952654	36.9	9.000	L1	10.4	19.1	56.0	Compliance
2.662831	40.0	9.000	L1	10.5	16.0	56.0	Compliance
3.122873	40.8	9.000	L1	10.6	15.2	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.483938	36.0	9.000	L1	10.1	10.3	46.3	Compliance
2.662831	35.3	9.000	L1	10.5	10.7	46.0	Compliance
2.727252	33.3	9.000	L1	10.5	12.7	46.0	Compliance
2.815577	30.0	9.000	L1	10.5	16.0	46.0	Compliance
3.049107	34.6	9.000	L1	10.6	11.4	46.0	Compliance
3.198423	28.1	9.000	L1	10.6	17.9	46.0	Compliance

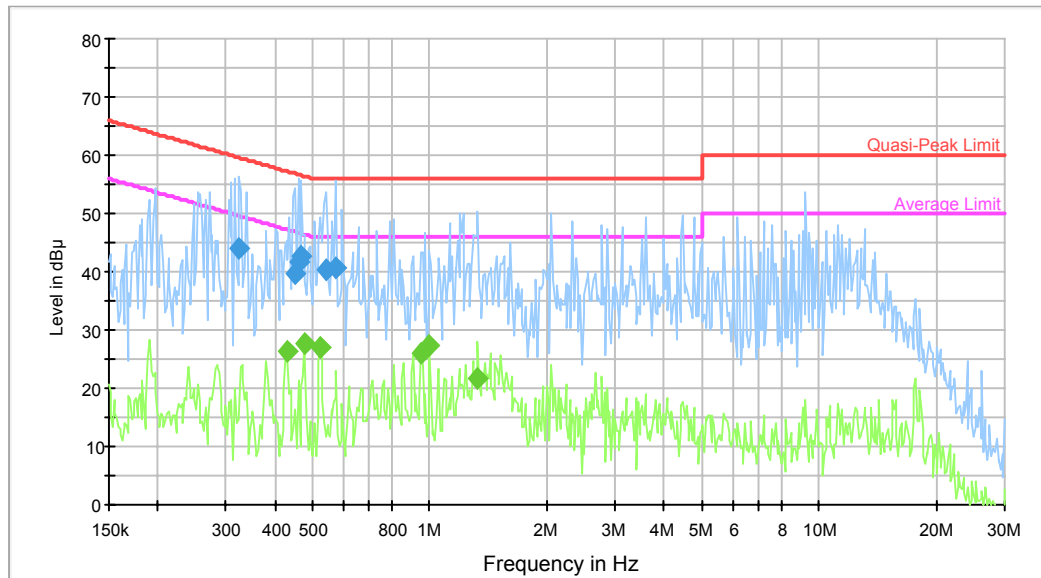
AC120V/60Hz,Neutral:

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.221645	42.5	9.000	N	10.2	20.3	62.8	Compliance
0.257874	43.2	9.000	N	10.2	18.3	61.5	Compliance
0.349066	41.5	9.000	N	10.3	17.5	59.0	Compliance
0.495646	50.2	9.000	N	10.1	5.9	56.1	Compliance
0.756101	38.0	9.000	N	10.4	18.0	56.0	Compliance
3.122873	38.9	9.000	N	10.6	17.1	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.443327	31.3	9.000	N	10.2	15.7	47.0	Compliance
0.491712	37.0	9.000	N	10.1	9.2	46.1	Compliance
0.692650	30.2	9.000	N	10.4	15.8	46.0	Compliance
0.762149	33.9	9.000	N	10.4	12.1	46.0	Compliance
0.838622	24.4	9.000	N	10.4	21.6	46.0	Compliance
2.662831	33.4	9.000	N	10.5	12.6	46.0	Compliance

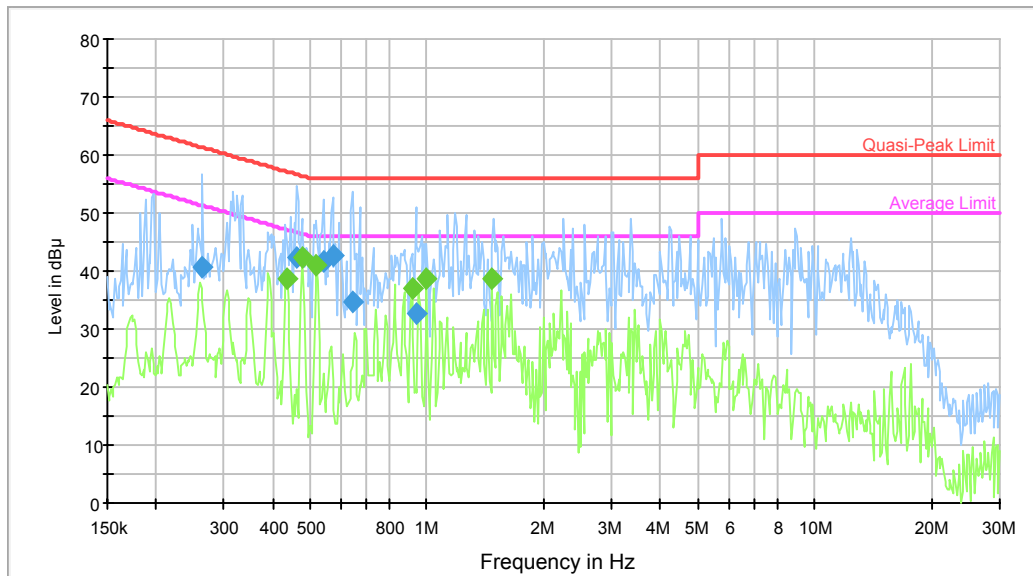
Test Mode: Charging&HDTV OUT

AC120V/60Hz,Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.324910	44.0	9.000	L1	10.3	15.6	59.6	Compliance
0.450448	39.8	9.000	L1	10.2	17.0	56.9	Compliance
0.461346	41.8	9.000	L1	10.2	14.9	56.7	Compliance
0.468757	42.5	9.000	L1	10.1	14.0	56.5	Compliance
0.541050	40.4	9.000	L1	10.1	15.6	56.0	Compliance
0.576662	40.7	9.000	L1	10.2	15.4	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.429420	26.4	9.000	L1	10.2	20.8	47.3	Compliance
0.476287	27.6	9.000	L1	10.1	18.8	46.4	Compliance
0.524077	26.8	9.000	L1	10.1	19.2	46.0	Compliance
0.952654	25.9	9.000	L1	10.4	20.1	46.0	Compliance
0.999305	27.2	9.000	L1	10.4	18.8	46.0	Compliance
1.331304	21.6	9.000	L1	10.4	24.4	46.0	Compliance

AC120V/60Hz,Neutral:

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.264113	40.7	9.000	N	10.2	20.6	61.3	Compliance
0.461346	42.5	9.000	N	10.1	14.2	56.7	Compliance
0.541050	41.5	9.000	N	10.1	14.5	56.0	Compliance
0.572086	42.6	9.000	N	10.2	13.4	56.0	Compliance
0.644717	34.5	9.000	N	10.4	21.5	56.0	Compliance
0.937592	32.6	9.000	N	10.4	23.4	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.436318	38.8	9.000	N	10.2	8.3	47.1	Compliance
0.476287	42.5	9.000	N	10.1	3.9*	46.4	Compliance
0.519918	41.1	9.000	N	10.1	5.0	46.0	Compliance
0.915445	37.2	9.000	N	10.4	8.8	46.0	Compliance
0.999305	38.6	9.000	N	10.4	7.4	46.0	Compliance
1.476605	38.6	9.000	N	10.4	7.4	46.0	Compliance

**within measurement uncertainty!*

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.

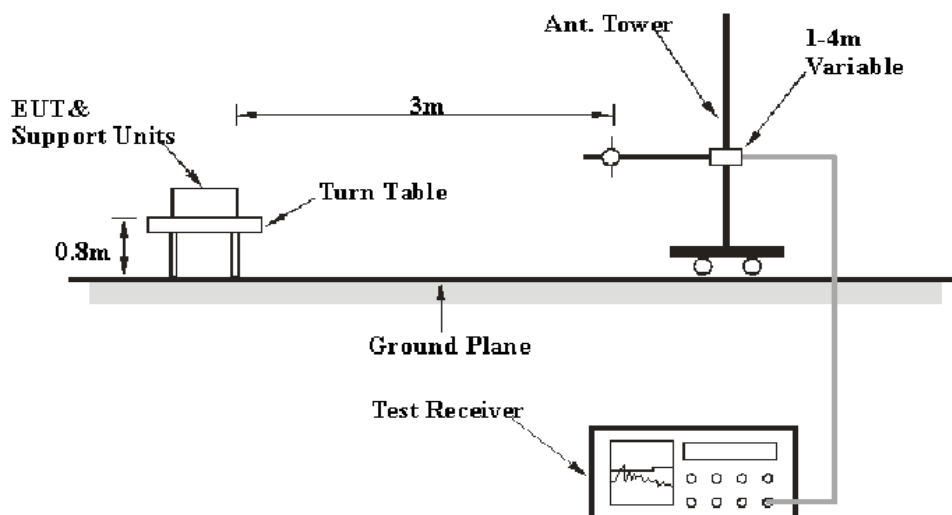
Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is: 30M~200MHz: 5.0 dB; 200M~1GHz: 6.2 dB; 1G~6GHz: 4.45 dB, 6G~18GHz: 5.23 dB

Table 1 – Values of U_{cisp}

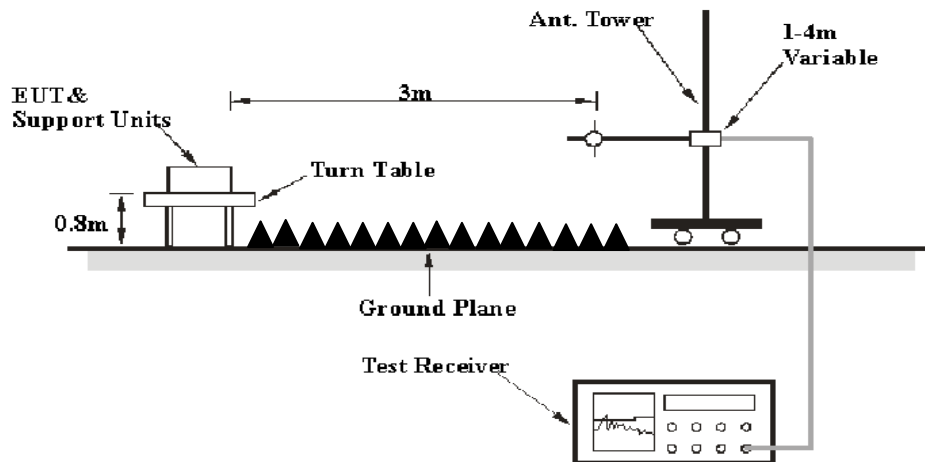
Measurement		U_{cisp}
Radiated disturbance (electric field strength at an OATS or in a SAC)	(30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR)	(1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR)	(6 GHz to 18 GHz)	5.5 dB

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 C63.4-2009. 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	/	Ave.

Test Procedure

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	2015-05-09	2016-05-09
Sunol Sciences	Antenna	JB3	A060611-3	2014-07-28	2017-07-27
HP	Amplifier	8447E	2434A02181	2014-09-01	2015-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2014-12-04	2015-12-04
ETS-Lindgren	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19

* **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, with the worst margin reading of:

3.20 dB at 215.2700 MHz in the Horizontal polarization for downloading mode

Test Data

Environmental Conditions

Temperature:	26.9 °C
Relative Humidity:	61 %
ATM Pressure:	100.1 kPa

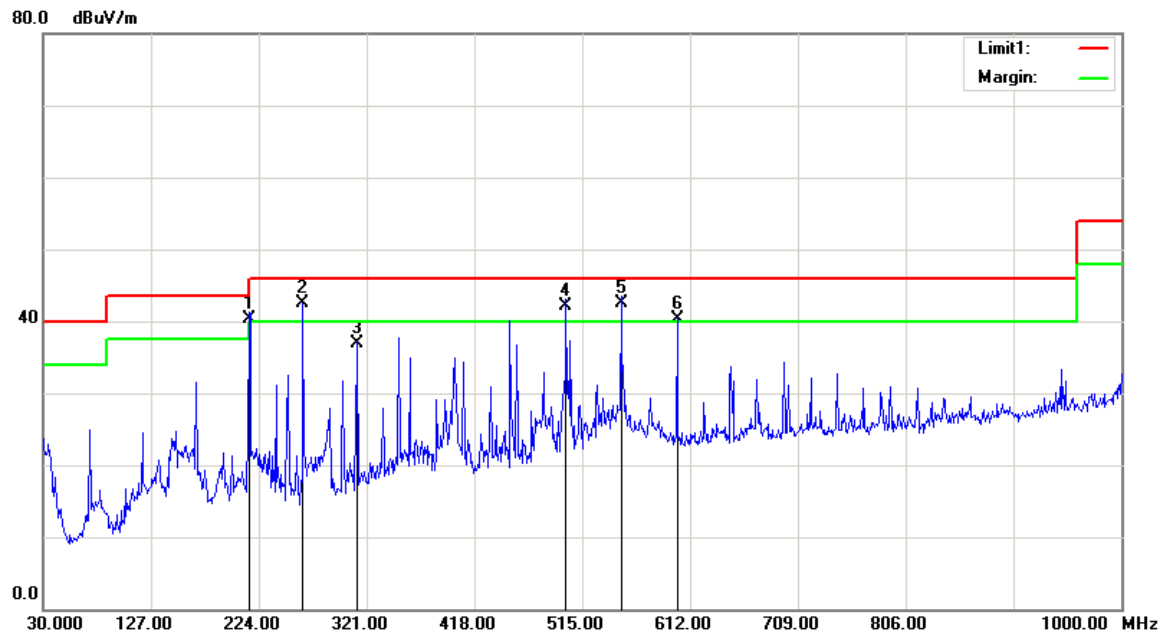
The testing was performed by Allen Qiao on 2015-07-24.

Test Result: Compliance

Test Mode: Downloading

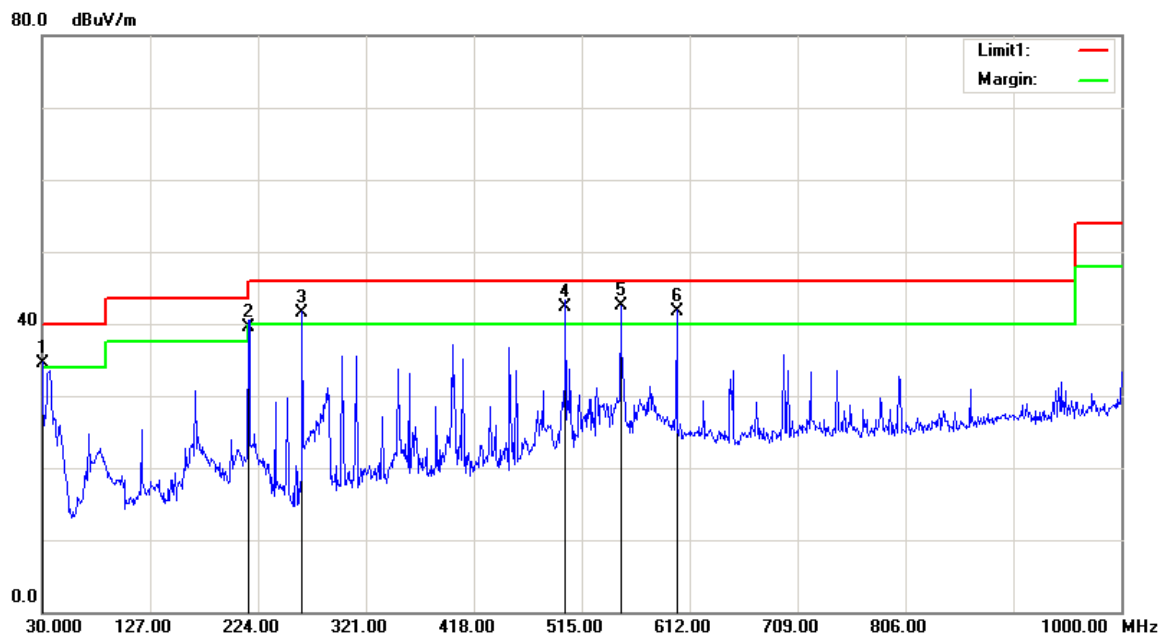
Below 1G

Horizontal



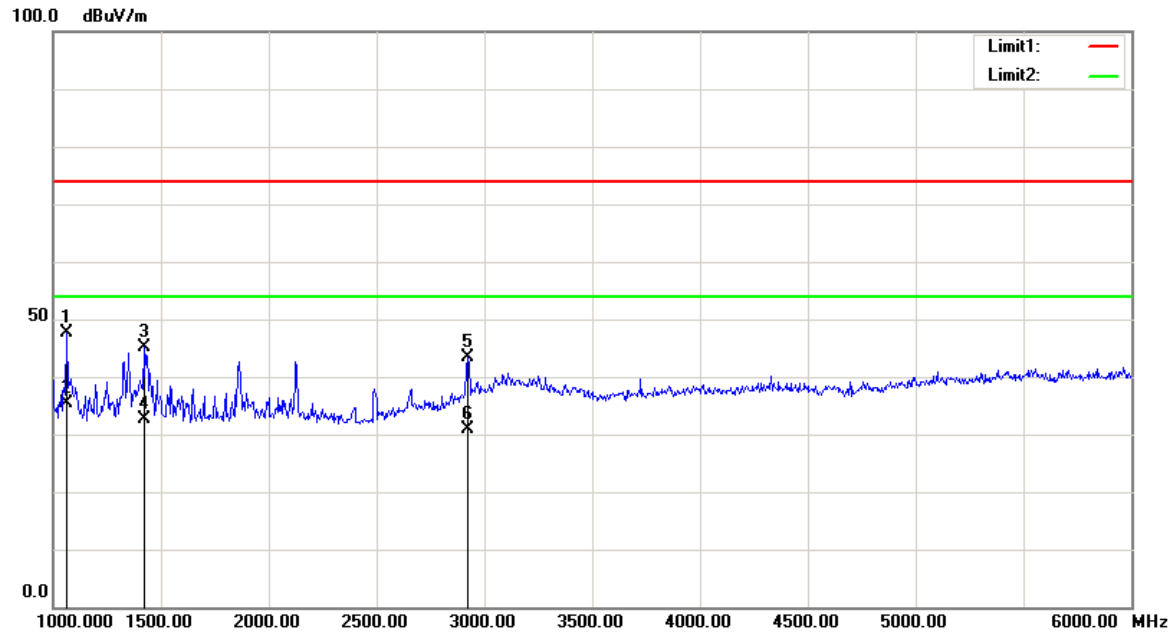
Frequency (MHz)	Receiver Reading (dBμV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
215.2700	49.40	QP	-9.10	40.30	43.50	3.20*
263.7700	49.20	QP	-6.70	42.50	46.00	3.50*
312.2700	42.70	QP	-5.70	37.00	46.00	9.00
500.4500	43.80	QP	-1.70	42.10	46.00	3.90*
549.9200	43.50	QP	-1.00	42.50	46.00	3.50*
600.3600	41.12	QP	-0.72	40.40	46.00	5.60*

**Within measurement uncertainty!*

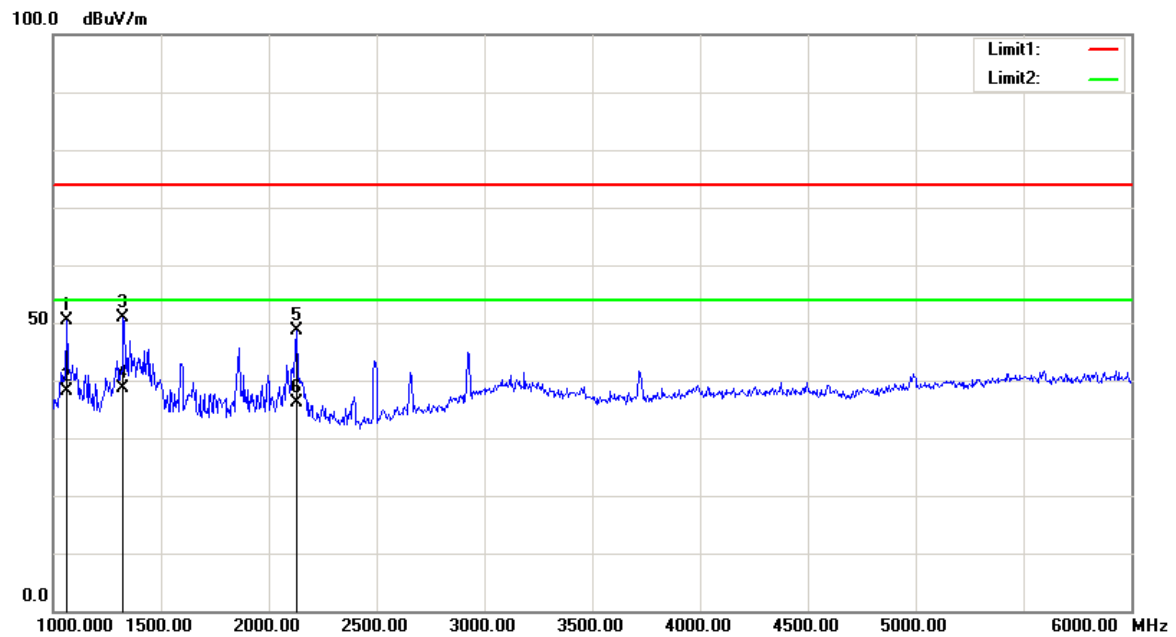
Vertical

Frequency (MHz)	Receiver Reading (dBμV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	33.72	QP	0.88	34.60	40.00	5.40
215.2700	48.70	QP	-9.10	39.60	43.50	3.90*
263.7700	48.30	QP	-6.70	41.60	46.00	4.40*
500.4500	44.10	QP	-1.70	42.40	46.00	3.60*
549.9200	43.50	QP	-1.00	42.50	46.00	3.50*
600.3600	42.52	QP	-0.72	41.80	46.00	4.20*

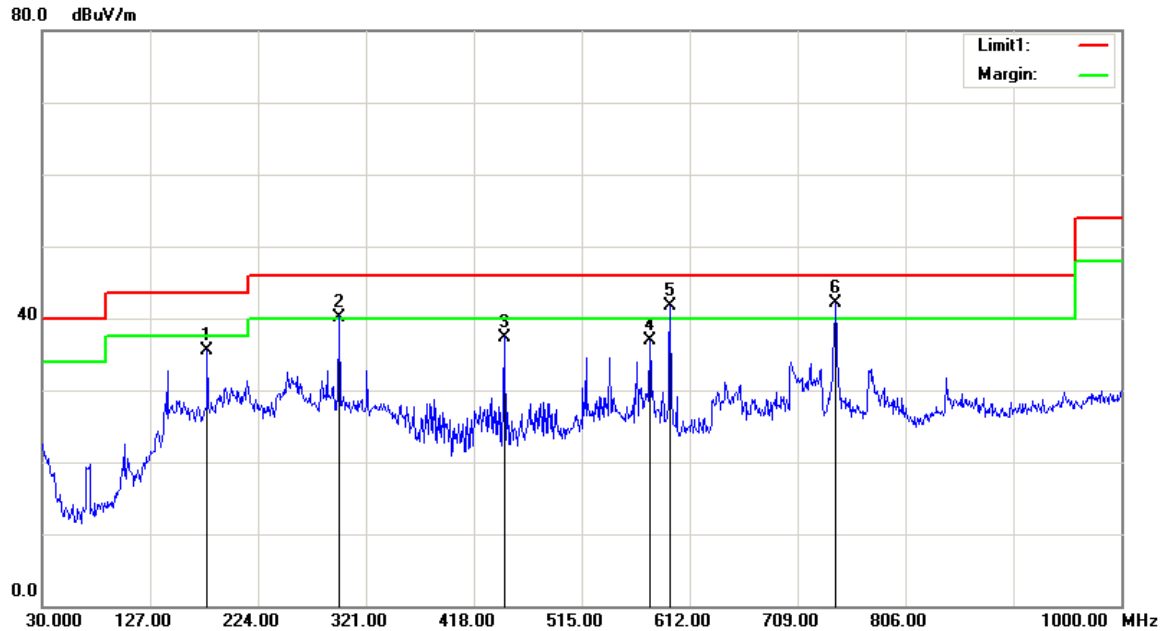
*Within measurement uncertainty!

Above 1GHz**Horizontal**

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1065.000	48.85	peak	-1.13	47.72	74.00	26.28
1065.000	36.44	AVG	-1.13	35.31	54.00	18.69
1420.000	45.72	peak	-0.69	45.03	74.00	28.97
1420.000	33.31	AVG	-0.69	32.62	54.00	21.38
2922.500	37.61	peak	5.69	43.30	74.00	30.70
2922.500	25.20	AVG	5.69	30.89	54.00	23.11

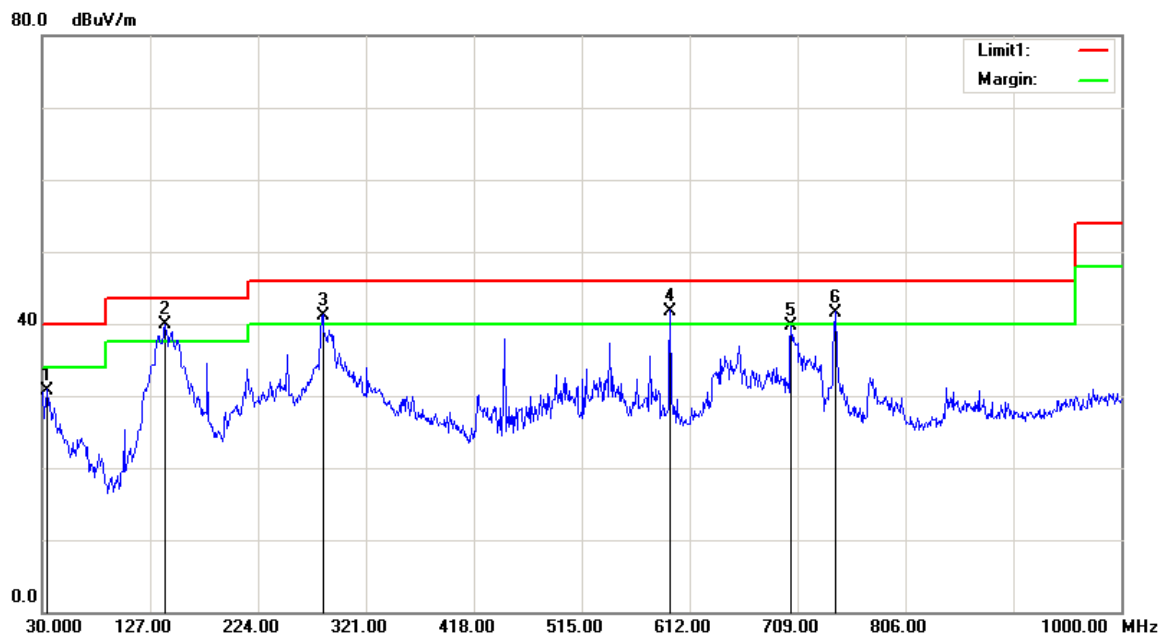
Vertical

Frequency (MHz)	Receiver Reading (dBμV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1065.000	51.62	peak	-1.13	50.49	74.00	23.51
1065.000	39.26	AVG	-1.13	38.13	54.00	15.87
1327.500	51.63	peak	-0.67	50.96	74.00	23.04
1327.500	39.27	AVG	-0.67	38.60	54.00	15.40
2132.500	47.73	peak	0.79	48.52	74.00	25.48
2132.500	35.37	AVG	0.79	36.16	54.00	17.84

Test Mode: Charging&HDTV OUT**Below 1G****Horizontal**

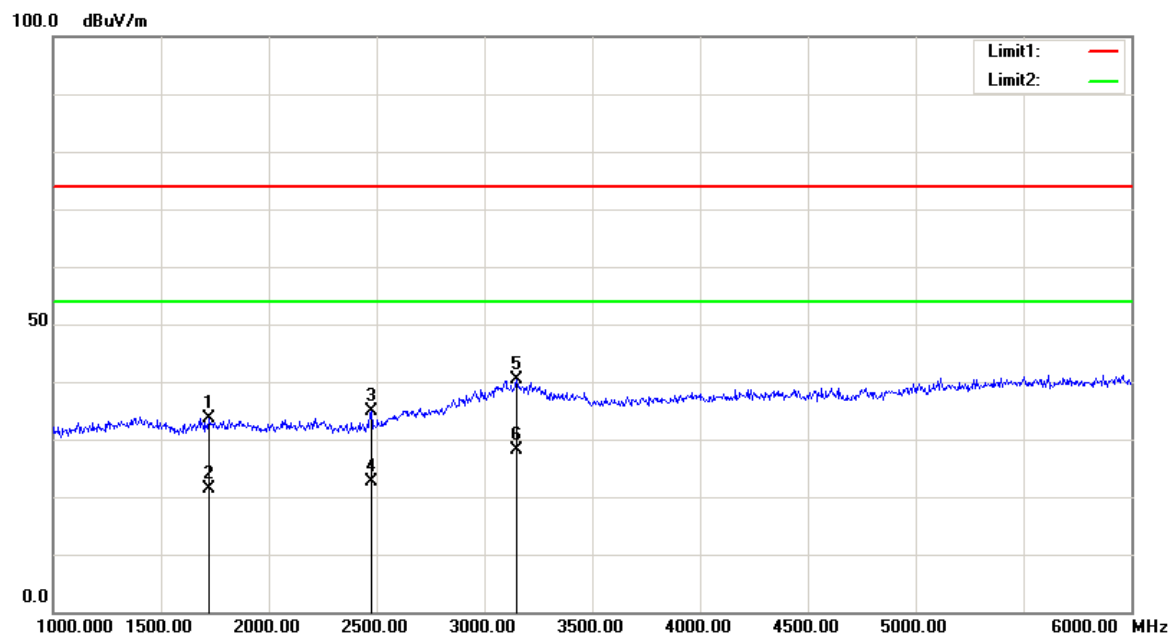
Frequency (MHz)	Receiver Reading (dBμV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
178.4100	44.06	QP	-8.56	35.50	43.50	8.00
296.7500	46.29	QP	-6.09	40.20	46.00	5.80*
445.1600	40.04	QP	-2.64	37.40	46.00	8.60
576.1100	37.19	QP	-0.29	36.90	46.00	9.10
594.5400	42.64	QP	-0.94	41.70	46.00	4.30*
742.9500	40.64	QP	1.46	42.10	46.00	3.90*

*Within measurement uncertainty!

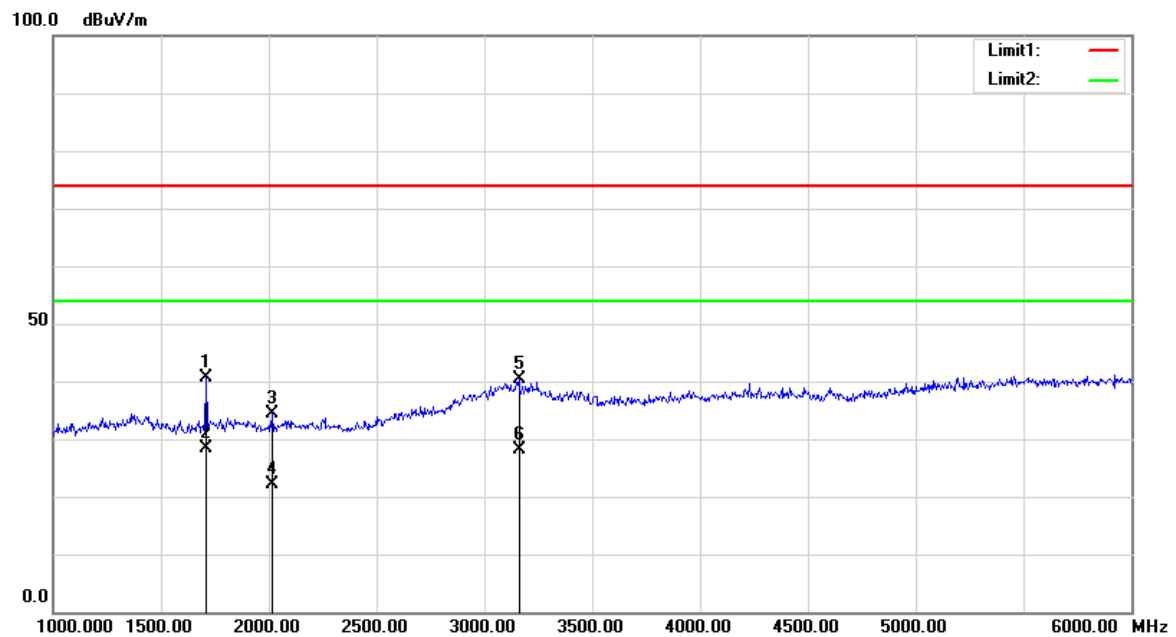
Vertical

Frequency (MHz)	Receiver Reading (dBμV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
34.8500	33.55	QP	-2.75	30.80	40.00	9.20
140.5800	46.94	QP	-7.04	39.90	43.50	3.60*
282.2000	47.39	QP	-6.19	41.20	46.00	4.80*
594.5400	42.74	QP	-0.94	41.80	46.00	4.20*
703.1800	38.64	QP	1.06	39.70	46.00	6.30
742.9500	40.14	QP	1.46	41.60	46.00	4.40*

*Within measurement uncertainty!

Above 1G**Horizontal**

Frequency (MHz)	Receiver Reading (dBμV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1720.000	34.39	peak	-0.83	33.56	74.00	40.44
1720.000	22.16	AVG	-0.83	21.33	54.00	32.67
2475.000	32.59	peak	2.17	34.76	74.00	39.24
2475.000	20.35	AVG	2.17	22.52	54.00	31.48
3152.500	33.23	peak	7.22	40.45	74.00	33.55
3152.500	20.94	AVG	7.22	28.16	54.00	25.84

Vertical

Frequency (MHz)	Receiver Reading (dBμV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1712.500	41.37	peak	-0.81	40.56	74.00	33.44
1712.500	29.12	AVG	-0.81	28.31	54.00	25.69
2015.000	33.99	peak	0.37	34.36	74.00	39.64
2015.000	21.75	AVG	0.37	22.12	54.00	31.88
3160.000	33.33	peak	7.11	40.44	74.00	33.56
3160.000	21.08	AVG	7.11	28.19	54.00	25.81

DECLARATION LETTER

ISAW CAMERA INC.

#501, Suntech City 1st, Dunchon-Daero 474, Jungwon, Seongnam, Gyeonggi, Korea

Tel: +82-31-777-2090 Fax: +82-777-2089

DECLARATION OF SIMILARITY

2015-07-20

To:

Dear Sir or Madam:

We, ISAW CAMERA INC., hereby declare that product: ISAW-S1W, Model numbers: ISS1W, ISS1, SCS1, SCS1W are electrically identical with the same electromagnetic emissions and electromagnetic compatibility characteristics. Model Number: ISS1, SCS1, SCS1W are electrically identical with the Model Number: ISS1W that was certified by BACL. Their only difference is the model name.

Please contact me should there be need for any additional clarification or information.

Best Regards,

DAE HWAN KIM
CHIEF OF SALES



ISAW CAMERA INC.


LIM CHANG SEOP / President


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