

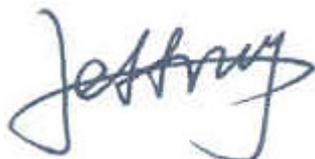
FCC Test Report (DoC)

Application No.: HKEM1706000833IT
Applicant: Zhejiang Dahua Vision Technology Co., Ltd.
Manufacturer: Zhejiang Dahua Vision Technology Co., Ltd.
Factory: Zhejiang Dahua Vision Technology Co., Ltd.
Product Information:
Product Name: IP CAMERA
Model: DH-IPC-EBW81230P, IPC-EBW81230, DH-IPC-EBW81230, IPC-EBW81230P, IPC-EBW81230N, DH-IPC-EBW81230N, IPC-EBW8630, DH-IPC-EBW8630, IPC-EBW8630P, IPC-EBW8630N, DH-IPC-EBW8630P, DH-IPC-EBW8630N, IPC-EBW8630N-IVC, PC-EBW8630P-IVC, DH-IPC-EBW8630P-IVC, DH-IPC-EBW8630N-IVC, NK8BR4, N68BR4, N68BR4V
Serial No.: --
Requirement: 47 CFR PART 15,SUBPART B:2016
Date of Receipt: 2017-03-13
Date of Test: 2017-03-13 to 2017-03-25
Date of Issue: 2017-06-27

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



CHEN Jian-feng, Jeffrey



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS IECC Ltd. or testing done by SGS IECC Ltd. in connection with, distribution or use of the product described in this report must be approved by SGS IECC Ltd. in writing.

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2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission (150kHz to 30MHz)	FCC PART 15, SUBPART B: 2016	ANSI C63.4:2014	Class B	PASS
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART B: 2016	ANSI C63.4:2014	Class B	PASS
Radiated Emission above 1 GHz	FCC PART 15, SUBPART B: 2016	ANSI C63.4:2014	Class B	PASS

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4 General Information

4.1 Client Information

Applicant: Zhejiang Dahua Vision Technology Co., Ltd.
 Address of Applicant: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
 Manufacturer: Zhejiang Dahua Vision Technology Co., Ltd.
 Address of Manufacturer: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
 Factory: Zhejiang Dahua Vision Technology Co., Ltd.
 Address of Factory: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

4.2 General Description of EUT

EUT Name: IP CAMERA
 Model: DH-IPC-EBW81230P
 Serial No.: --
 EUT Description: DH-IPC-EBW81230P with LAN port which can be connect to PC to monitoring video .

4.3 Details of EUT

Power Supply: DC12V or PoE
 Power Cord: --
 Operating frequency: >108MHz

4.4 Description of Support Units

Supporting equipment :

No.	Equipment	Model No.	Serial No.	FCC ID / BSMI ID	Brand Name	Data Cable	Power Cord
1	POE Injector	LAS60-57 CN-RJ45	LNHBBFEE014 S610	N/A	SUPLET	Unshielding 10M	Unshielding 1.8M
2	Notebook	ZQT	NXM8CN00531 708D897600	N/A	Acer	Unshielding 10M	Unshielding 1.8M

Cables:

#	Type	Length, m	Shield	Metallic hood	Ferrite
1	LAN cable	1.8	NO	No	NO

Software:

Description	Manufacturer	Software name	Version no.
EMC test software	Microsoft	Internet Explorer	11.0.9600.18204

4.5 Standards Applicable for Testing

CFR 47, FCC Part 15, 2016
 ANSI C63.4:2014

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4.6 Test Location

SGS IECC Limited (Member of the SGS Group (SGS SA))

Units 303-305, 3/F., 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong

Tel: +852 2305 2570 Fax: +852 2756 4480.

Compliance Certification Services Inc. Xindian Lab.

No. 163-1, Jhongsheng Rd., Xindian Dist.,

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC – CAB Registration No.: 446297**

Measurement facility located at Fanling (Hong Kong), accredited as a Conformity Assessment Body (CAB) and was designated by FCC to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Part 15 and 18 of the Commission's Rules.

4.8 Deviation from Standards

None.

4.9 Abnormalities from Standard Conditions

None.

4.10 Declaration of Family Grouping

Model No.: DH-IPC-EBW81230P, IPC-EBW81230, DH-IPC-EBW81230, IPC-EBW81230P, IPC-EBW81230N, DH-IPC-EBW81230N, IPC-EBW8630, DH-IPC-EBW8630, IPC-EBW8630P, IPC-EBW8630N, DH-IPC-EBW8630P, DH-IPC-EBW8630N, IPC-EBW8630N-IVC, PC-EBW8630P-IVC, DH-IPC-EBW8630P-IVC, DH-IPC-EBW8630N-IVC, NK8BR4, N68BR4, N68BR4V

Only the model DH-IPC-EBW81230P was tested, since the electrical circuit design, PCB layout, components used and internal wiring were identical for the above models, with only difference being software and resolution, market segmentation.

4.11 Abbreviations

N/A: Not Applicable

EUT: Equipment Under Test

4.12 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radiated disturbance 30MHz – 1GHz	5.5
2	Conducted Emissions	3.1

5 Equipments Used during Test

Conducted Emission room				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI TEST RECEIVER	R&S	ESCI	100781	02/27/2018
V (V-LISN)	SCHWARZBECK	NNLK 8129	8129-143	10/31/2017
TWO-LINE V-NETWORK	R&S	ENV216	101604	10/31/2017
Pulse LIMITER	R&S	ESH3-Z2	100524	01/04/2018
Test S/W	EZ-EMC ver.3A1			

Radiated Emission (3M Semi Anechoic Chamber (977))				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI	101378	01/04/2018
Spectrum Analyzer	R&S	FSU26	200789	07/20/2017
Amplifier	Miteq	JS41-00101800-32-10P	1675713	10/31/2017
Bilog Antenna	Sunol	JB1	A110204-1	05/28/2017
Horn-antenna	SCHWARZBECK	BBHA9120D	267	11/09/2017
Test S/W	EZ-EMC ver.3A1			

6 Test Results

6.1 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15 B
 Test Method: ANSI C63.4:2014
 Test Voltage & frequency: 120V AC, 60Hz
 Test Date: 2017-03-25
 Frequency Range: 150KHz to 30MHz
 Class / Severity: Class B
 Detector: Peak for pre-scan (9kHz Resolution Bandwidth)
 Quasi-Peak and Average if maximised peak within 20dB of Quasi-Peak limit

Limit:

Frequency range MHz	Class B Limits dB (µV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note:
 1) The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.
 2) The lower limit is applicable at the transition frequency.

6.1.1 EUT Operation

Operating Environment:

Temperature: 25°C Humidity: 47% Atmospheric Pressure: 1020mbar

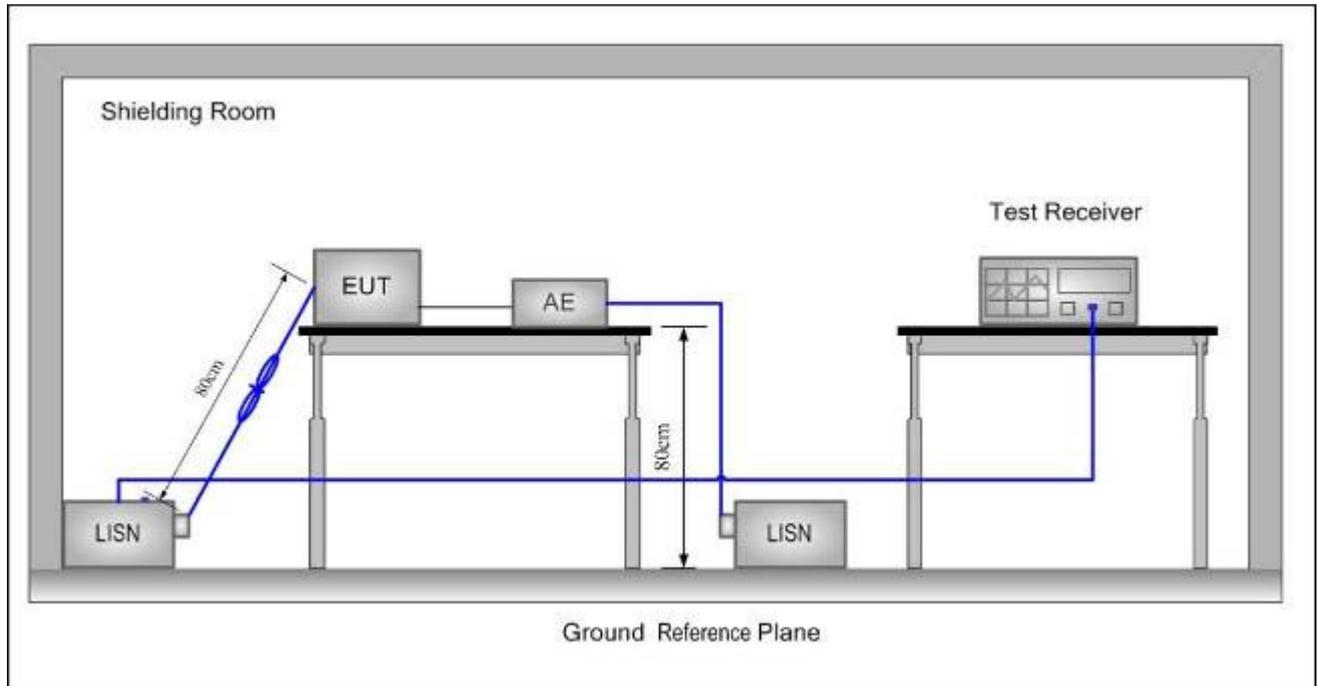
EUT Operation: Pre-test with Peak detector with the following mode(s):

- 1: Normal operation with POE model;
- 2: Normal operation with Adapter mode;

Final test with Quasi-Peak and Average detector with the following mode(s):

- 1: Normal operation with POE model;

6.1.2 Test Setup and Procedure



1. The mains terminal conducted emission test was conducted in a shielded room.
2. The EUT was connected via the host computer to AC power source through a LISN (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. For Load terminal voltage measurement, a voltage probe was used on the load terminals. Measurement at control terminals were carried out by means of an impedance stabilization network (ISN). The ISN was bounded to ground.
3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
4. The EUT kept a distance of at least 0.8m from any other earthed conducting surface. The Artificial Mains Network was situated at a distance of 0.8m from the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m.

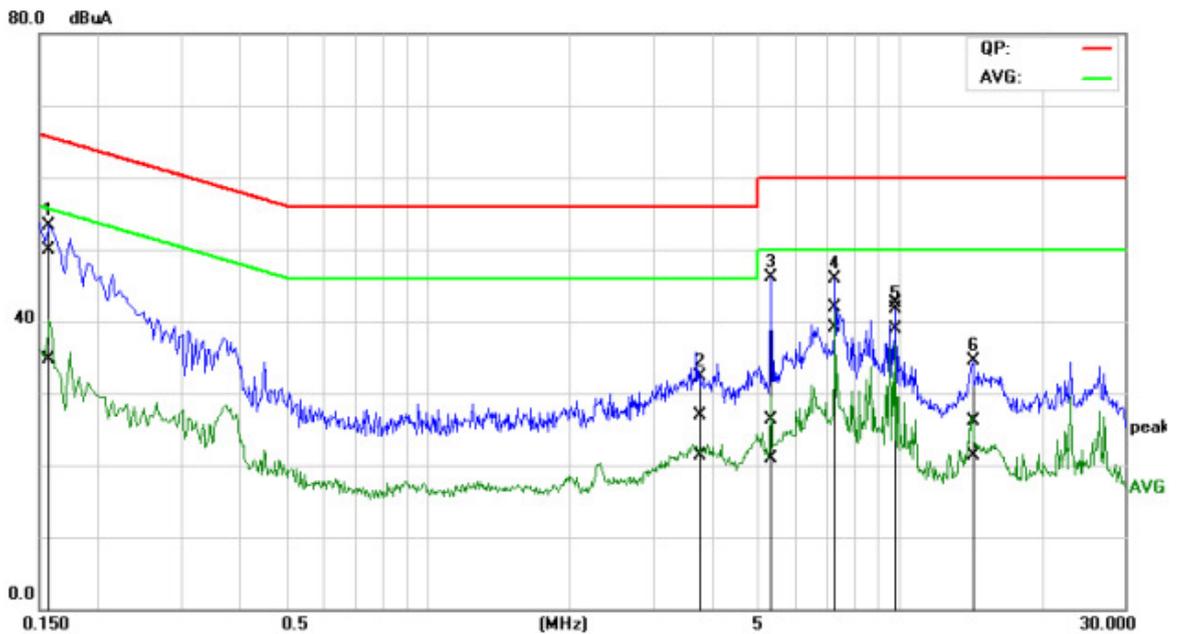
6.1.3 Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

The following Quasi-Peak and Average measurements were performed on POE model :

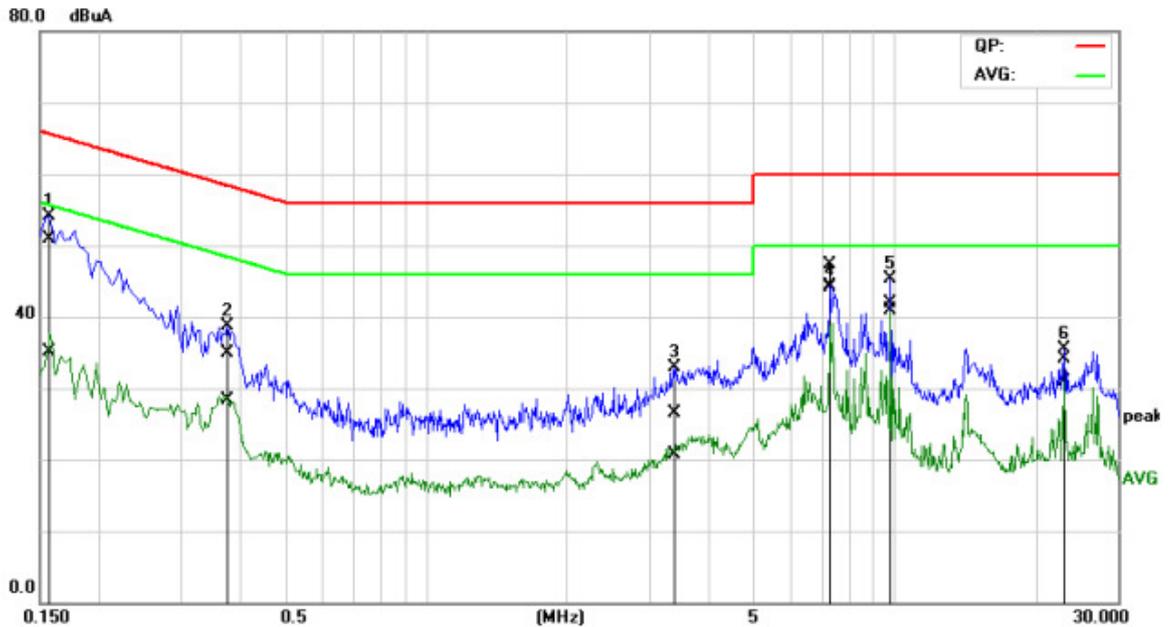
Live Line:



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuA)	(dBuA)	(dB)	(dBuA)	(dBuA)	(dBuA)	(dBuA)	(dB)	(dB)	
1	0.1572	30.06	14.97	19.79	49.85	34.76	65.61	55.61	-15.76	-20.85	Pass
2	3.7812	7.07	1.40	19.91	26.98	21.31	56.00	46.00	-29.02	-24.69	Pass
3	5.3101	6.34	1.00	19.93	26.27	20.93	60.00	50.00	-33.73	-29.07	Pass
4*	7.3020	21.95	19.15	19.92	41.87	39.07	60.00	50.00	-18.13	-10.93	Pass
5	9.8255	22.54	19.04	19.96	42.50	39.00	60.00	50.00	-17.50	-11.00	Pass
6	14.3285	6.01	1.21	20.02	26.03	21.23	60.00	50.00	-33.97	-28.77	Pass

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

Neutral Line:



No.	Frequency (MHz)	QuasiPeak reading (dBuA)	Average reading (dBuA)	Correction factor (dB)	QuasiPeak result (dBuA)	Average result (dBuA)	QuasiPeak limit (dBuA)	Average limit (dBuA)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1582	31.22	15.45	19.74	50.96	35.19	65.55	55.56	-14.59	-20.37	Pass
2	0.3764	15.11	8.64	19.75	34.86	28.39	58.36	48.36	-23.50	-19.97	Pass
3	3.3912	6.62	0.89	19.80	26.42	20.69	56.00	46.00	-29.58	-25.31	Pass
4*	7.2993	27.42	24.11	19.91	47.33	44.02	60.00	50.00	-12.67	-5.98	Pass
5	9.8248	21.86	20.69	20.12	41.98	40.81	60.00	50.00	-18.02	-9.19	Pass
6	23.1285	13.59	10.50	20.45	34.04	30.95	60.00	50.00	-25.96	-19.05	Pass

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

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6.2 Radiated Emissions, 30MHz to 1GHz

Test Requirement: FCC Part15 B
 Test Method: ANSI C63.4:2014
 Test Voltage & frequency: 120V AC, 60Hz
 Test Date: 2017-03-25
 Frequency Range: 30MHz to 1GHz
 Measurement Distance: 3m
 Detector: Peak for pre-scan (120kHz resolution bandwidth)
 Quasi-Peak if maximised peak within 20dB of limit
 Class: Class B

Frequency range MHz	Quasi-peak limits dB (µV/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960	54

Note: At transitional frequencies the lower limit applies.

6.2.1 EUT Operation

Operating Environment:

Temperature: 25°C

Humidity: 47%

Atmospheric Pressure: 1020mbar

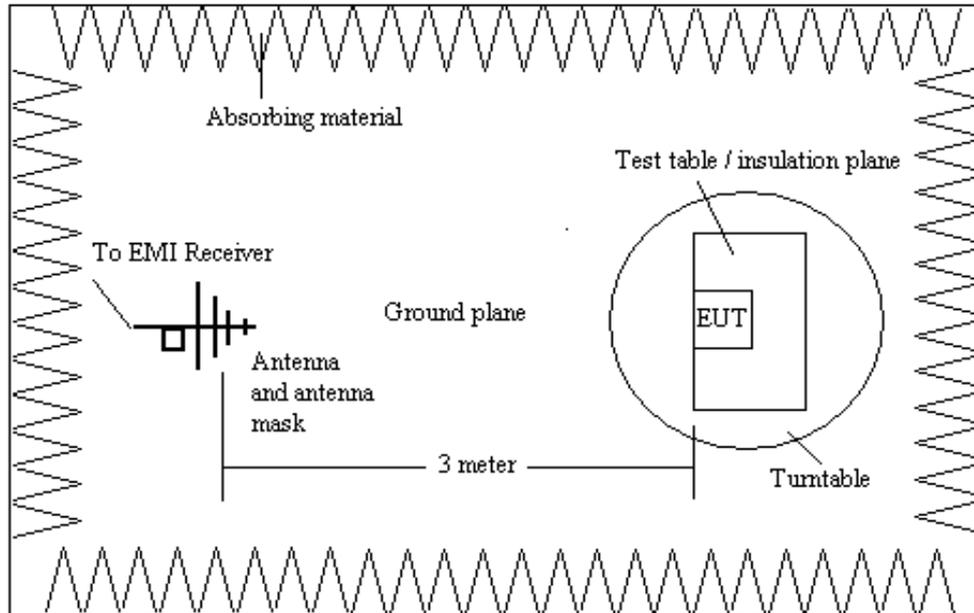
EUT Operation: Pre-test with Peak detector with the following mode(s):

- 1: Normal operation with POE model;
- 2: Normal operation with Adapter mode;

Final test with Quasi-Peak and AVERAGE detector with the following mode(s):

- 1: Normal operation with POE model;

6.2.2 Test Setup and Procedure



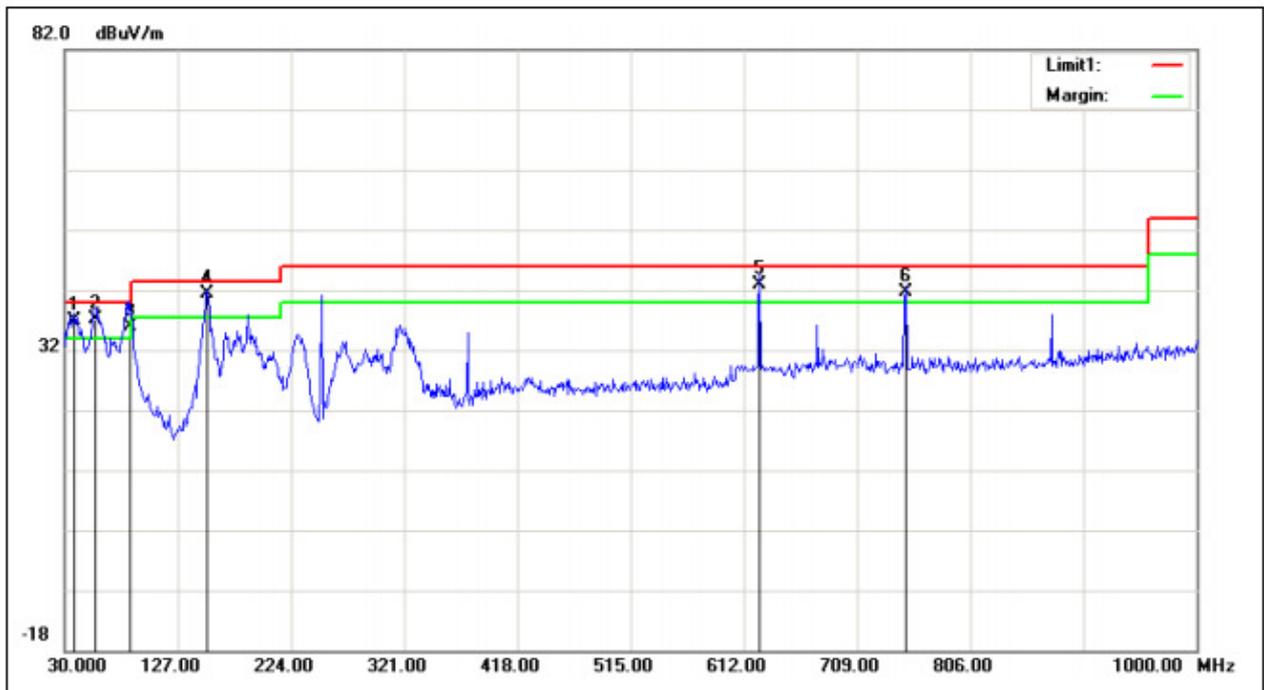
1. The pre-test of the radiated emissions test was conducted in a semi-anechoic chamber and the final measurement was conducted in the open area test site.
2. Bilog antenna was used for the frequency range from 30MHz to 1GHz
3. The EUT was connected to the host PC which was connected to AC power source through a mains power outlet which was bonded to the ground reference plane; The mains cables shall drape to the ground reference plane. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT with located frequencies.
5. The actual frequencies of maximum emission were confirmed in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

6.2.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by Bilog antenna with 2 orthogonal polarities and frequencies of peak emissions from the EUT were detected within 20dB of the class B limit line. Final measurement was conducted in the open area test site with data as follows:

Test results on POE mode:

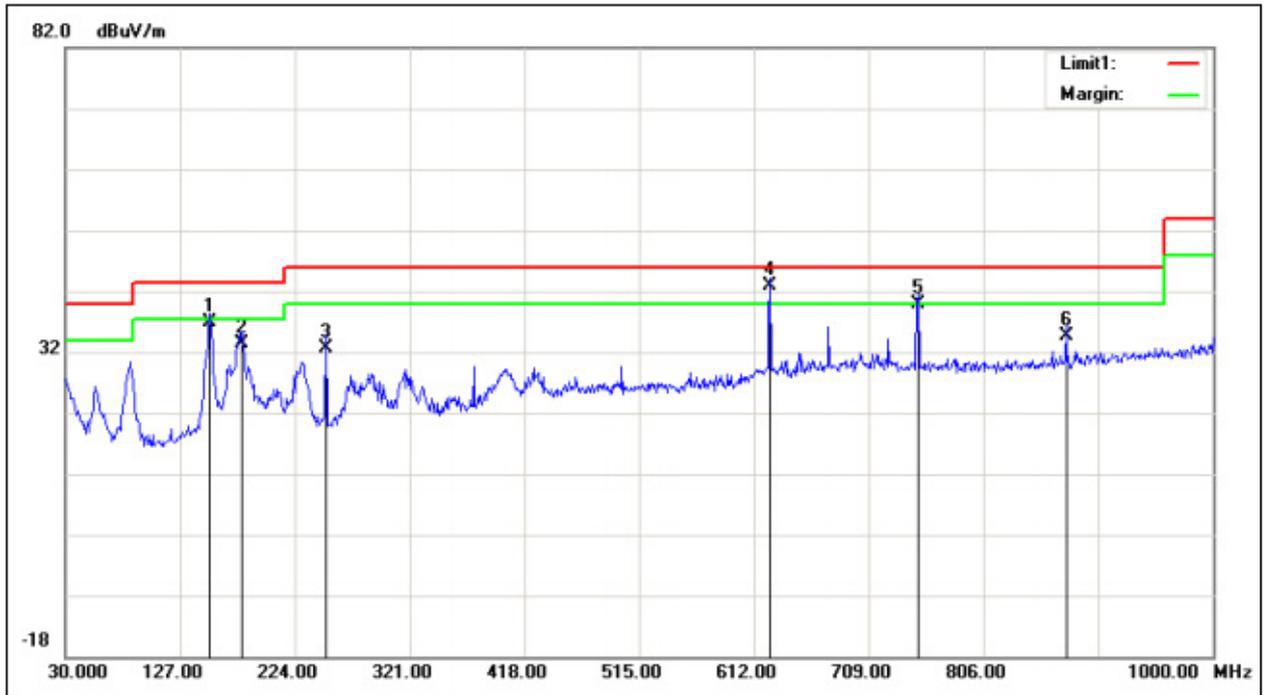
Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	38.7300	19.07	17.74	36.81	40.00	-3.19	100	359	QP
2	56.1900	26.23	11.02	37.25	40.00	-2.75	100	325	QP
3	85.6300	25.87	9.94	35.81	40.00	-4.19	200	163	QP
4	152.2200	27.27	14.06	41.33	43.50	-2.17	100	30	QP
5	625.5800	19.30	23.53	42.83	46.00	-3.17	100	253	QP
6	750.7100	16.30	25.32	41.62	46.00	-4.38	100	240	QP

Note: 1. The other emission levels were very low against the limit.

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	152.2200	22.72	14.06	36.78	43.50	-6.72	100	235	QP
2	179.3800	17.90	15.38	33.28	43.50	-10.22	100	85	QP
3	250.1900	16.23	16.44	32.67	46.00	-13.33	200	185	QP
4	625.5800	19.30	23.53	42.83	46.00	-3.17	100	253	QP
5	750.7100	14.60	25.32	39.92	46.00	-6.08	100	275	QP
6	875.8400	8.41	26.25	34.66	46.00	-11.34	200	168	QP

Note: 1. The other emission levels were very low against the limit.

6.3 Radiated Emissions, above 1GHz

Test Requirement: FCC Part15 B
 Test Method: ANSI C63.4:2014
 Test Voltage & frequency: 120V AC, 60Hz
 Test Date: 2017-03-25
 Frequency Range: 1GHz to 6GHz
 Measurement Distance: 3m
 Detector: Peak for pre-scan (1MHz resolution bandwidth)
 Peak and Average if maximised peak within 20dB of limit
 Class: Class B

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement Range (MHz)
Below 1.705	30
1.705 to 108	1000
108 to 500	2000
500 to 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower
Average limits dB(μV/m)	Peak limits dB(μV/m)
54	74

6.3.1 EUT Operation

Operating Environment:

Temperature: 25°C

Humidity: 47%

Atmospheric Pressure: 1020mbar

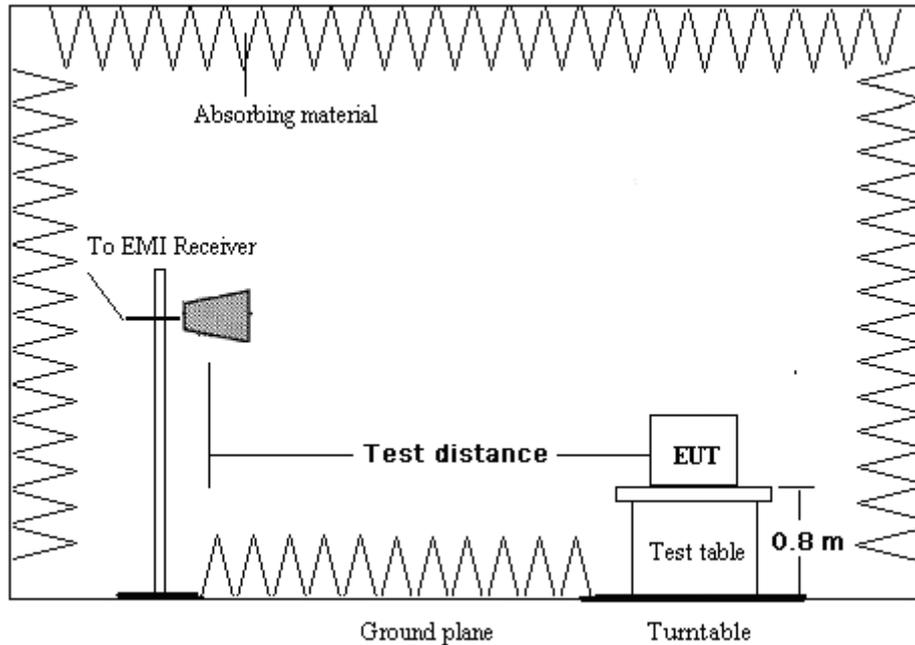
EUT Operation: Pre-test with Peak detector with the following mode(s):

- 1: Normal operation with POE model;
- 2: Normal operation with Adapter mode;

Final test with Quasi-Peak and Average detector with the following mode(s):

- 1: Normal operation with POE model;

6.3.2 Test Setup and Procedure



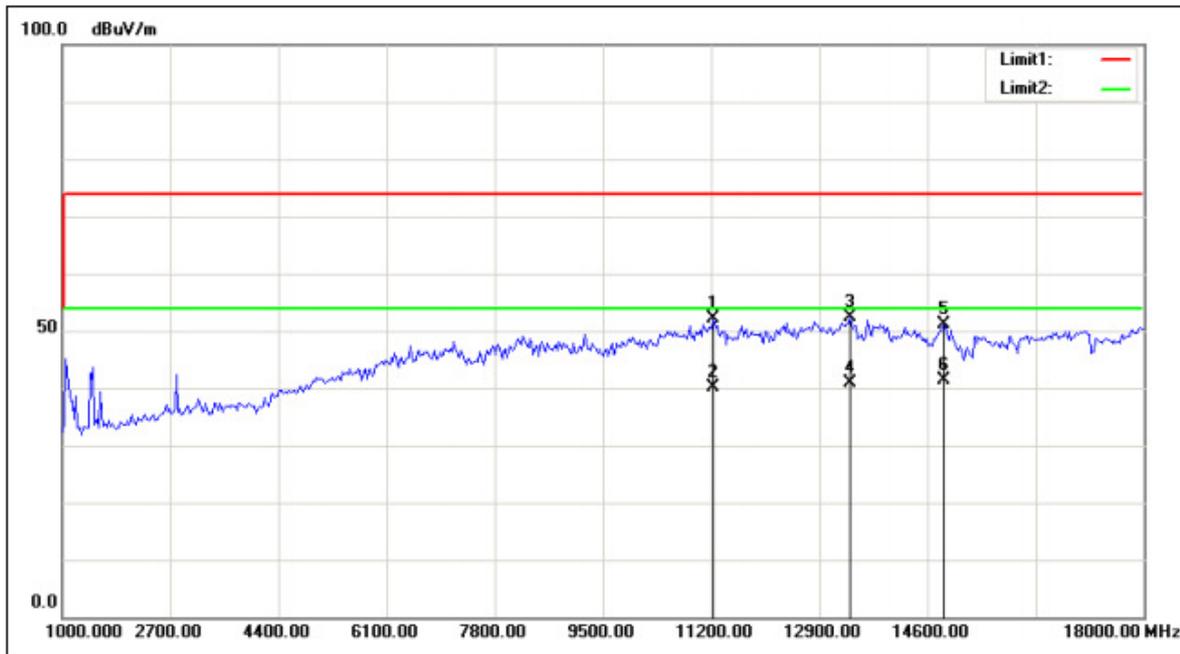
1. The radiated emissions test was conducted in a fully-anechoic chamber.
2. Horn antenna was used for the frequency above 1GHz.
3. The EUT was connected to the host PC which was connected to AC power source through a mains power outlet which was bonded to the ground reference plane; The mains cables shall drape to the ground reference plane. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT with located frequencies.
5. The actual frequencies of maximum emission were confirmed in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters, and keeping point the antenna in cones of radiation from EUT area both in azimuth and elevation in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

6.3.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by Horn antenna with 2 orthogonal polarities and frequencies of peak emissions from the EUT were detected within 20dB of the class B limit line. Final measurement was conducted in the open area test site with data as follows:

Test results on POE mode:

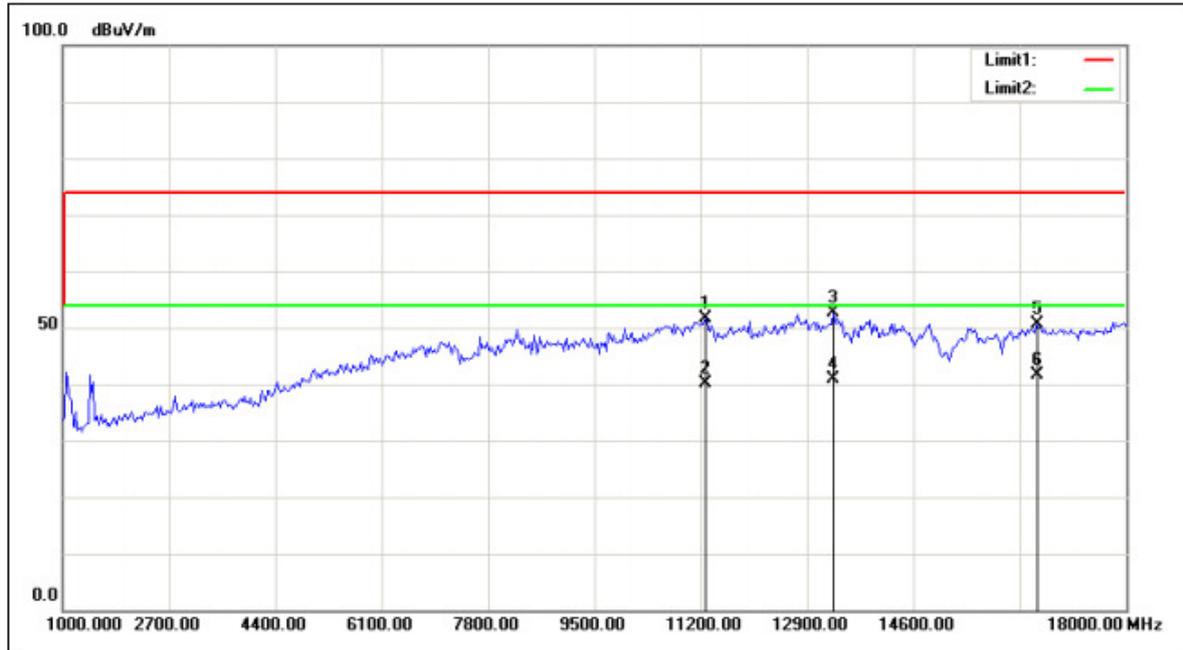
Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11243.590	41.94	10.30	52.24	74.00	-21.76	100	298	peak
2	11243.590	29.94	10.30	40.24	54.00	-13.76	100	298	AVG
3	13395.833	40.03	12.37	52.40	74.00	-21.60	100	201	peak
4	13395.833	28.56	12.37	40.93	54.00	-13.07	100	201	AVG
5	14866.987	39.66	11.35	51.01	74.00	-22.99	100	214	peak
6	14866.987	30.07	11.35	41.42	54.00	-12.58	100	214	AVG

Note: 1. The other emission levels were very low against the limit.

Horizontal:

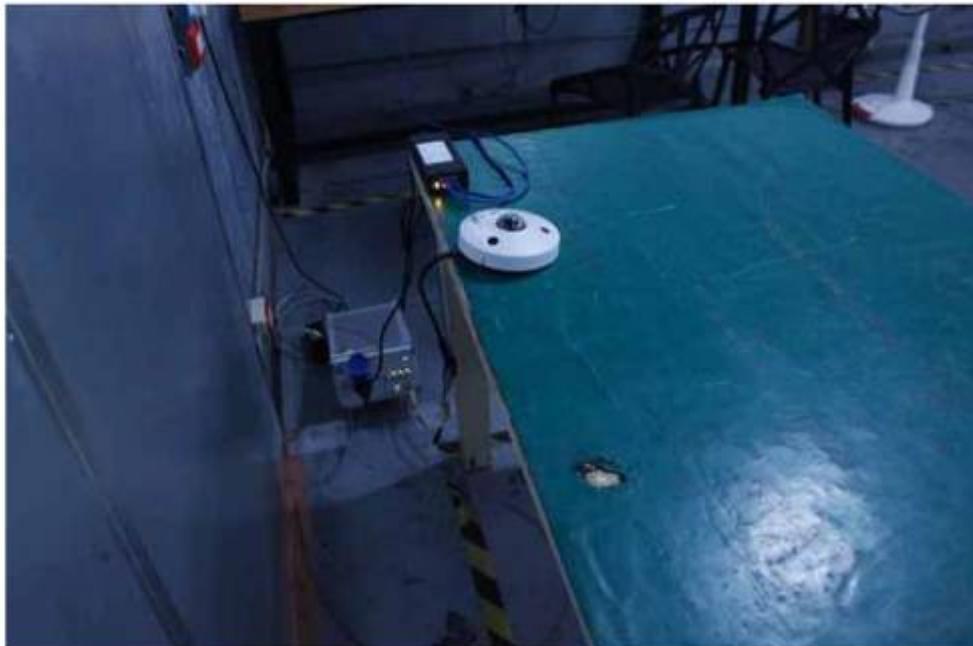


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	11270.833	41.22	10.30	51.52	74.00	-22.48	100	102	peak
2	11270.833	29.82	10.30	40.12	54.00	-13.88	100	102	AVG
3	13314.103	40.14	12.42	52.56	74.00	-21.44	100	161	peak
4	13314.103	28.41	12.42	40.83	54.00	-13.17	100	161	AVG
5	16583.333	40.89	9.79	50.68	74.00	-23.32	100	1	peak
6	16583.333	31.74	9.79	41.53	54.00	-12.47	100	1	AVG

Note: 1. The other emission levels were very low against the limit.

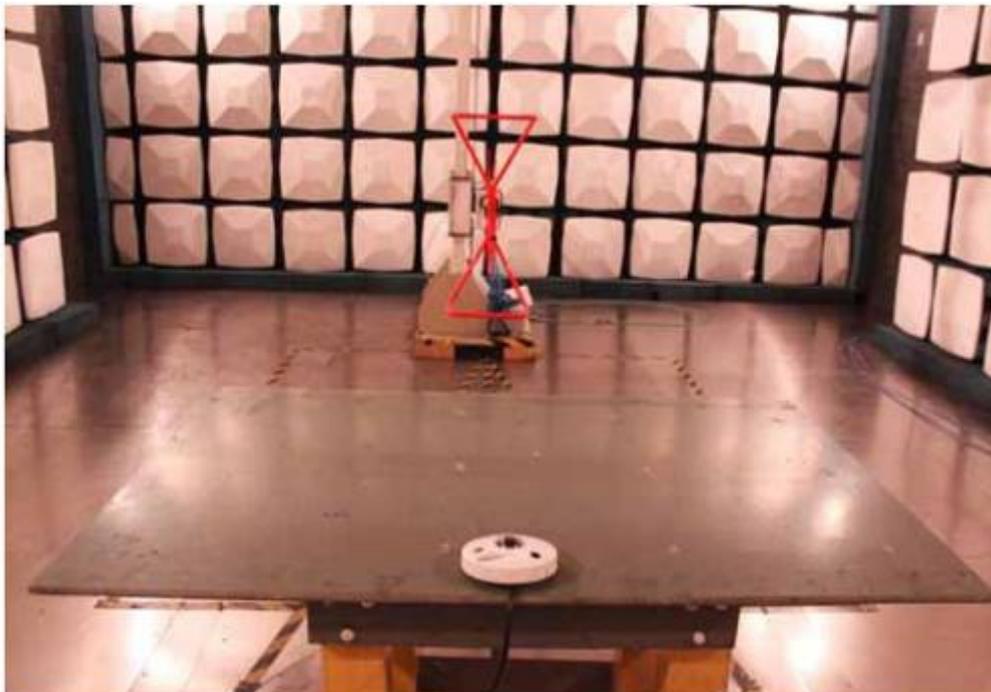
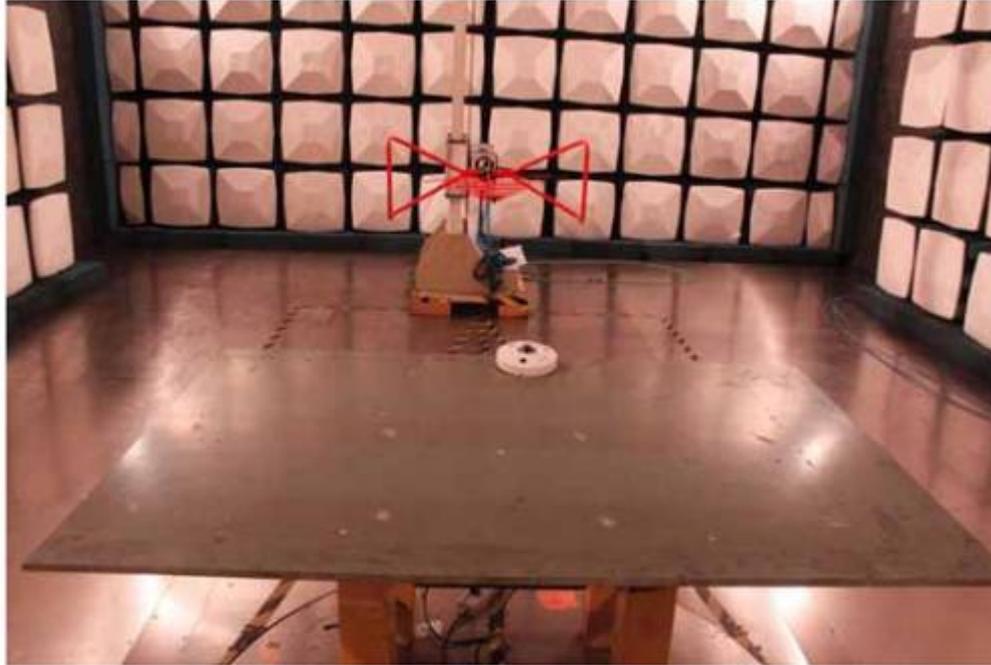
7 Photographs

7.1 Conducted Emission Test Setup



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7.2 Radiated Emission Test Setup

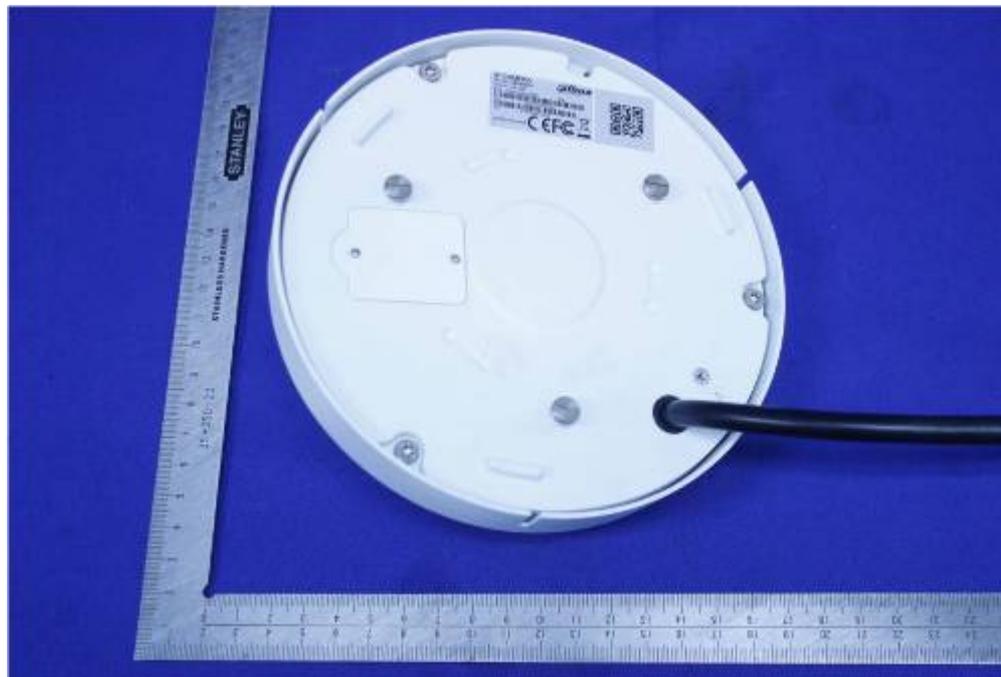


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7.3 EUT Constructional Details



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--End of the Report--