



FCC DOC TEST REPORT

According to

47 CFR, Part 2, Part 15, CISPR PUB. 22

Applicant : Zhejiang Dahua Vision Technology Co., Ltd.

Address : The 1st floor, building F, No.1199 Bin'an road, Changhe Street, Binjiang District, Hangzhou, P.R. China.

Equipment : IP Camera

Model No. : IPC-HDB8301P, IPC-HDB8301N, IPC-HDBW8301P, IPC-HDBW8301N, IPC-HDB8306P, IPC-HDB8306N, IPC-HDBW8306P, IPC-HDBW8306N, IPC-HDB8301P-DI, IPC-HDB8301N-DI, IPC-HDBW8301P-DI, IPC-HDBW8301N-DI, IPC-HDB8306P-DI, IPC-HDB8306N-DI, IPC-HDBW8306P-DI, IPC-HDBW8306N-DI, DH-IPC-HDB8301P, DH-IPC-HDB8301N, DH-IPC-HDBW8301P, DH-IPC-HDBW8301N, DH-IPC-HDB8306P, DH-IPC-HDB8306N, DH-IPC-HDBW8306P, DH-IPC-HDBW8306N, DH-IPC-HDB8301P-DI, DH-IPC-HDB8301N-DI, DH-IPC-HDBW8301P-DI, DH-IPC-HDBW8301N-DI, DH-IPC-HDB8306P-DI, DH-IPC-HDB8306N-DI, DH-IPC-HDBW8306P-DI, DH-IPC-HDBW8306N-DI

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of **CerpPASS Technology Corp.** the test report shall not be reproduced except in full.



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History of this test report

☒ ORIGINAL.

☐ Additional attachment as following record:

Attachment No.	Date	Description



FCC DOC TEST REPORT

Declaration of Conformity

According to

47 CFR, Part 2, Part 15, CISPR PUB. 22

Applicant : Zhejiang Dahua Vision Technology Co., Ltd.

Address : The 1st floor, building F, No.1199 Bin'an road, Changhe Street,
Binjiang District, Hangzhou, P.R. China.

Equipment : IP Camera

Model No. : IPC-HDB8301P, IPC-HDB8301N, IPC-HDBW8301P,
IPC-HDBW8301N, IPC-HDB8306P, IPC-HDB8306N
IPC-HDBW8306P, IPC-HDBW8306N, IPC-HDB8301P-DI,
IPC-HDB8301N-DI, IPC-HDBW8301P-DI, IPC-HDBW8301N-DI,
IPC-HDB8306P-DI, IPC-HDB8306N-DI, IPC-HDBW8306P-DI,
IPC-HDBW8306N-DI, DH-IPC-HDB8301P, DH-IPC-HDB8301N,
DH-IPC-HDBW8301P, DH-IPC-HDBW8301N, DH-IPC-HDB8306P,
DH-IPC-HDB8306N, DH-IPC-HDBW8306P, DH-IPC-HDBW8306N,
DH-IPC-HDB8301P-DI, DH-IPC-HDB8301N-DI,
DH-IPC-HDBW8301P-DI, DH-IPC-HDBW8301N-DI,
DH-IPC-HDB8306P-DI, DH-IPC-HDB8306N-DI,
DH-IPC-HDBW8306P-DI, DH-IPC-HDBW8306N-DI

I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 – 2009** and the energy emitted by this equipment was **passed CISPR PUB. 22, FCC Part 15** in both radiated and conducted emission class B limits.

Testing was carried out on May 24, 2014 at Cerpass Technology Corp.

Signature

Hill Chen

EMC/RF B.U. Assistant Manager



1. Summary of Test Procedure and Test Result

Test Item	Normative References	Test Result
Conducted Emission	ANSI C63.4-2009 FCC Part 15 Subpart B	PASS
Radiated Emission	ANSI C63.4-2009 FCC Part 15 Subpart B	PASS




2. Test Configuration of Equipment under Test

2.1. Manufacturer

Zhejiang Dahua Vision Technology Co., Ltd.

The 1st floor, building F, No.1199 Bin'an road, Changhe Street, Binjiang District, Hangzhou, P.R. China.

2.2. Feature of Equipment under Test

IP Camera	Model No.:	IPC-HDB8301P, IPC-HDB8301N, IPC-HDBW8301P, IPC-HDBW8301N, IPC-HDB8306P, IPC-HDB8306N, IPC-HDBW8306P, IPC-HDBW8306N, IPC-HDB8301P-DI, IPC-HDB8301N-DI, IPC-HDBW8301P-DI, IPC-HDBW8301N-DI, IPC-HDB8306P-DI, IPC-HDB8306N-DI, IPC-HDBW8306P-DI, IPC-HDBW8306N-DI, DH-IPC-HDB8301P, DH-IPC-HDB8301N, DH-IPC-HDBW8301P, DH-IPC-HDBW8301N, DH-IPC-HDB8306P, DH-IPC-HDB8306N, DH-IPC-HDBW8306P, DH-IPC-HDBW8306N, DH-IPC-HDB8301P-DI, DH-IPC-HDB8301N-DI, DH-IPC-HDBW8301P-DI, DH-IPC-HDBW8301N-DI, DH-IPC-HDB8306P-DI, DH-IPC-HDB8306N-DI, DH-IPC-HDBW8306P-DI, DH-IPC-HDBW8306N-DI
Remark	DH-IPC-HDBW8301N was selected as the test model and its data have been recorded in this report.	
Adapter 1	Model No.:	ADS-24RD-12 1224G
	Input :	100-240V~ 50/60Hz Max.0.7A
	Output :	12V  2.0A
Adapter 2	Model No.:	A12-3A-10
	Input :	120V~ 60Hz 46W
	Output :	24VAC~1500mA



Models' Differences:

Model No	IPC-HDB8301P, IPC-HDB8301N, IPC-HDBW8301P, IPC-HDBW8301N, IPC-HDB8306P, IPC-HDB8306N IPC-HDBW8306P, IPC-HDBW8306N, IPC-HDB8301P-DI, IPC-HDB8301N-DI, IPC-HDBW8301P-DI, IPC-HDBW8301N-DI, IPC-HDB8306P-DI, IPC-HDB8306N-DI, IPC-HDBW8306P-DI, IPC-HDBW8306N-DI, DH-IPC-HDB8301P, DH-IPC-HDB8301N, DH-IPC-HDBW8301P, DH-IPC-HDBW8301N, DH-IPC-HDB8306P, DH-IPC-HDB8306N, DH-IPC-HDBW8306P, DH-IPC-HDBW8306N, DH-IPC-HDB8301P-DI, DH-IPC-HDB8301N-DI, DH-IPC-HDBW8301P-DI, DH-IPC-HDBW8301N-DI, DH-IPC-HDB8306P-DI, DH-IPC-HDB8306N-DI, DH-IPC-HDBW8306P-DI, DH-IPC-HDBW8306N-DI
Differences	1) The difference between with "DH" and without "DH" is different sales areas . 2) The models with "DH" have dahua logo. 3) HDBW has infrared function, HDB hasn't infrared function and infrared light board. 4) The focus mode of 8306 is powered zoom, more than one board, SENSOR has a little difference. 5) With "-D" and without "-DI": The shell of "-DI " and cover assembly are not the same.

2.3. Test Manner

Test Manner

- During testing, the interface cables and equipment positions were varied according to ANSI C63.4-2009
- Turn on the power of all equipment.
- The complete test system included Notebook PC and EUT for EMI test.

The pre-test modes

Test Mode 1: Normal Operation with ADS-24RD-12 1224G

Test Mode 2: Normal Operation with A12-3A-10

Select the worst case of the pre-test modes as the final test mode

Test Mode 1: Normal Operation with ADS-24RD-12 1224G

Test Mode 2: Normal Operation with A12-3A-10

**2.4. Description of Test System**

No.	Device	Manufacturer	Model No.	Description
1	Notebook PC	SONY	PCG-71811P	Non-Shielded,1.5m (R33021)

No.	Cable	Quantity	Description
A	LAN Cable	1	Non-Shielded,>3.0m



2.5. General Information of Test

Test Site :	Cerpass Technology Corp. 2F-11, No. 3, Yuan Qu St., (Nankang Software Park), Taipei, Taiwan 115, R.O.C.
Test Site Location (OATS2-SD) :	No.68-1, Shihbachongsi, Shihding Township, Taipei City 223, Taiwan, R.O.C.
FCC Registration Number :	TW1049, TW1061
IC Registration Number :	4934B-1, 4934D-1
VCCI Registration Number :	T-1173 for Telecommunication Test C-4139 for Conducted emission test R-3428 for Radiated emission test G-97 for radiated disturbance above 1GHz
Frequency Range Investigated :	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 1,000 MHz Radiation: from 1,000 MHz to 18,000 MHz
Test Distance :	The test distance of radiated emission below 1GHz from antenna to EUT is 3 M. The test distance of radiated emission above 1GHz from antenna to EUT is 3 M.



2.6. Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE / NEUTRAL	3.25 dB
Radiated Emission	30 MHz ~ 1,000 MHz	Vertical / Horizontal	3.93 dB
	1,000 MHz ~ 18,000 MHz	Vertical / Horizontal	5.18 dB



3. Test of Conducted Emission

3.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2009 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Conducted Emission Limits:

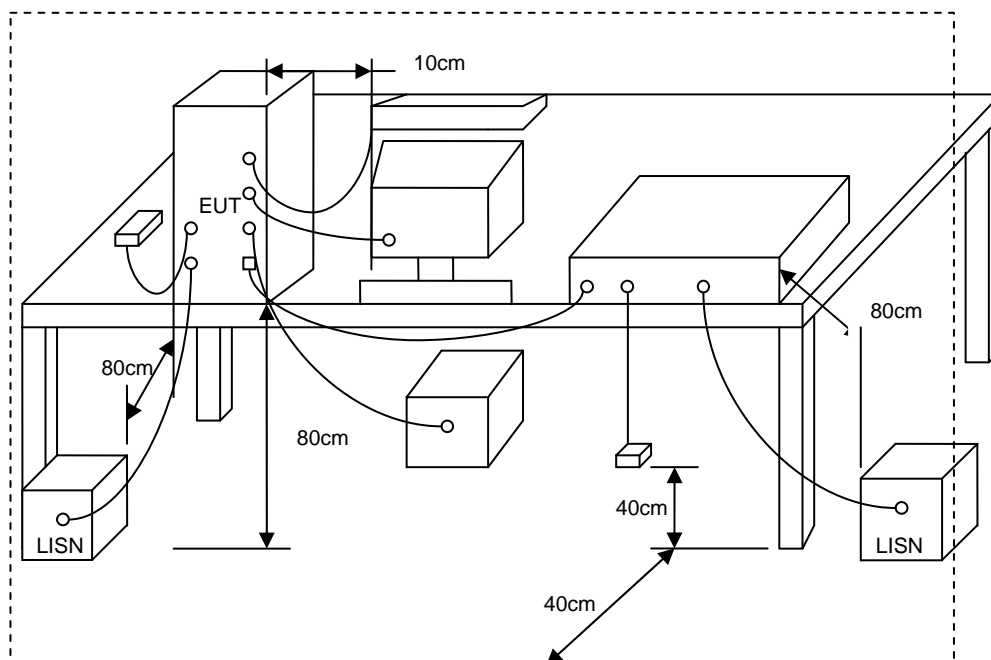
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

3.2. Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



3.3. Typical test Setup



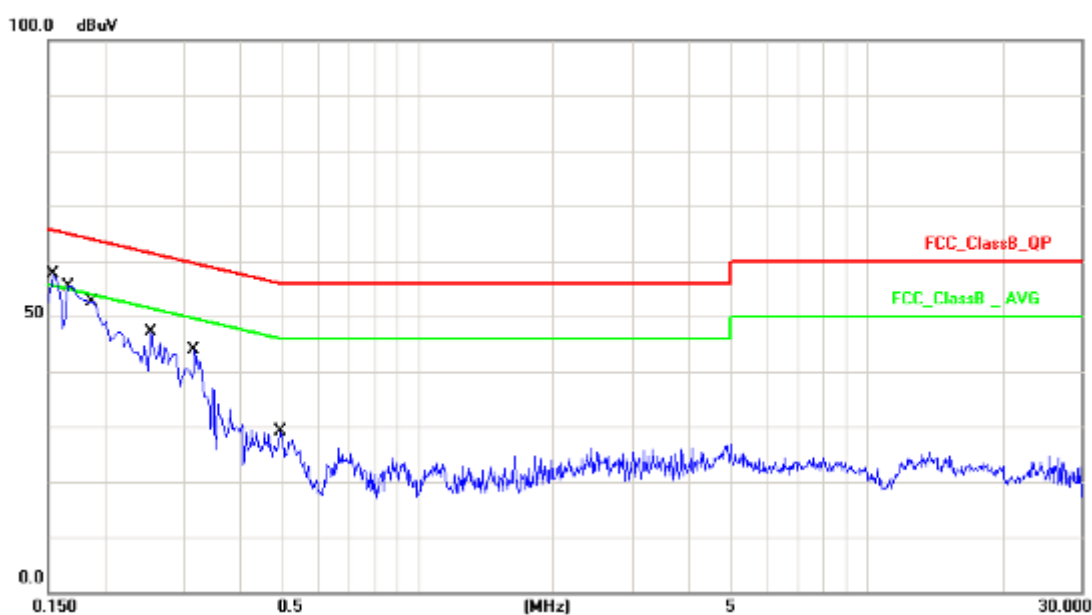
3.4. Measurement equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Test Receiver	R&S	ESCI	100565	2014.03.24	2015.03.23
AMN	R&S	ESH2-Z5	100182	2013.09.11	2014.09.10
Two-Line V-Network	R&S	ENV216	100325	2013.12.04	2014.12.03
ISN	FCC	FCC-TLISN-T2-02	20379	2014.03.24	2015.03.23
ISN	FCC	FCC-TLISN-T4-02	20380	2014.03.24	2015.03.23
ISN	FCC	FCC-TLISN-T8-02	20381	2014.03.24	2015.03.23
ISN	TESEQ	ISN ST08	30175	2014.03.24	2015.03.23
Current Probe	R&S	EZ-17	100303	2014.04.04	2015.04.03
Passive Voltage Probe	R&S	ESH2-Z3	100026	2014.03.24	2015.03.23
Pulse Limiter	R&S	ESH3-Z2	100529	2014.03.24	2015.03.23
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2014.03.31	2015.03.30



3.5. Test Result and Data

Test Mode :	Mode 1: Normal Operation with ADS-24RD-12 1224G		
AC Power :	AC 120V/60Hz	Phase :	LINE
Equipment :	IP Camera	Model No :	DH-IPC-HDBW8301N
Temperature :	23℃	Humidity :	52%
Pressure(mbar) :	1002	Date :	2014/04/20

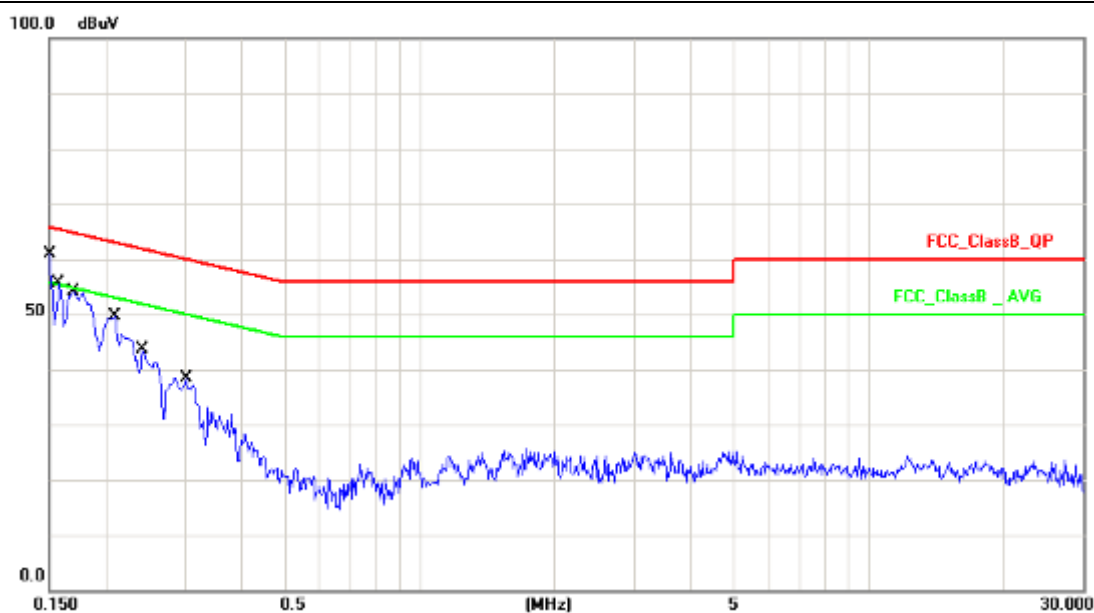


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	10.13	43.64	53.77	65.78	-12.01	QP
2	0.1539	10.13	21.37	31.50	55.78	-24.28	AVG
3	0.1660	10.13	40.59	50.72	65.15	-14.43	QP
4	0.1660	10.13	19.98	30.11	55.15	-25.04	AVG
5	0.1884	10.12	35.76	45.88	64.10	-18.22	QP
6	0.1884	10.12	13.72	23.84	54.10	-30.26	AVG
7	0.2540	10.13	30.56	40.69	61.62	-20.93	QP
8	0.2540	10.13	17.22	27.35	51.62	-24.27	AVG
9	0.3180	10.14	30.35	40.49	59.76	-19.27	QP
10	0.3180	10.14	21.43	31.57	49.76	-18.19	AVG
11	0.4940	10.16	14.71	24.87	56.10	-31.23	QP
12	0.4940	10.16	8.57	18.73	46.10	-27.37	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Normal Operation with ADS-24RD-12 1224G		
AC Power :	AC 120V/60Hz	Phase :	NEUTRAL
Equipment :	IP CAMERA	Model No :	DH-IPC-HDBW8301N
Temperature :	23℃	Humidity :	52%
Pressure(mbar) :	1002	Date :	2014/04/20

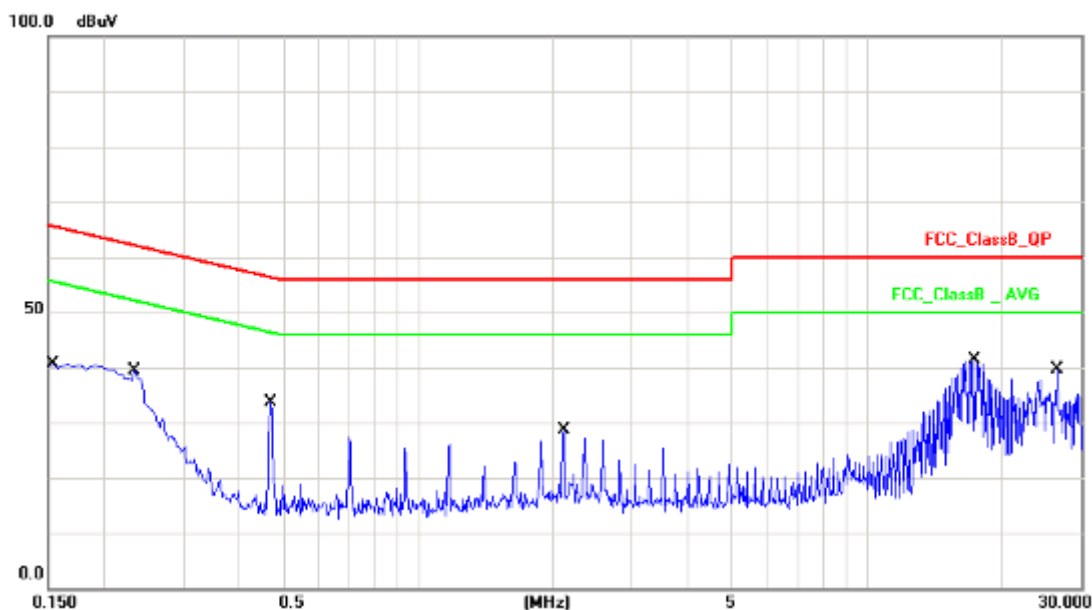


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	44.69	54.82	65.99	-11.17	QP
2	0.1500	10.13	24.70	34.83	55.99	-21.16	AVG
3	0.1580	10.13	42.49	52.62	65.56	-12.94	QP
4	0.1580	10.13	20.66	30.79	55.56	-24.77	AVG
5	0.1700	10.13	41.66	51.79	64.96	-13.17	QP
6	0.1700	10.13	23.34	33.47	54.96	-21.49	AVG
7	0.2100	10.13	36.02	46.15	63.20	-17.05	QP
8	0.2100	10.13	16.64	26.77	53.20	-26.43	AVG
9	0.2420	10.13	30.03	40.16	62.02	-21.86	QP
10	0.2420	10.13	11.25	21.38	52.02	-30.64	AVG
11	0.3020	10.14	22.67	32.81	60.19	-27.38	QP
12	0.3020	10.14	5.54	15.68	50.19	-34.51	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 2: Normal Operation with A12-3A-10		
AC Power :	AC 120V/60Hz	Phase :	LINE
Equipment :	IP Camera	Model No :	DH-IPC-HDBW8301N
Temperature :	23℃	Humidity :	52%
Pressure(mbar) :	1002	Date :	2014/05/24

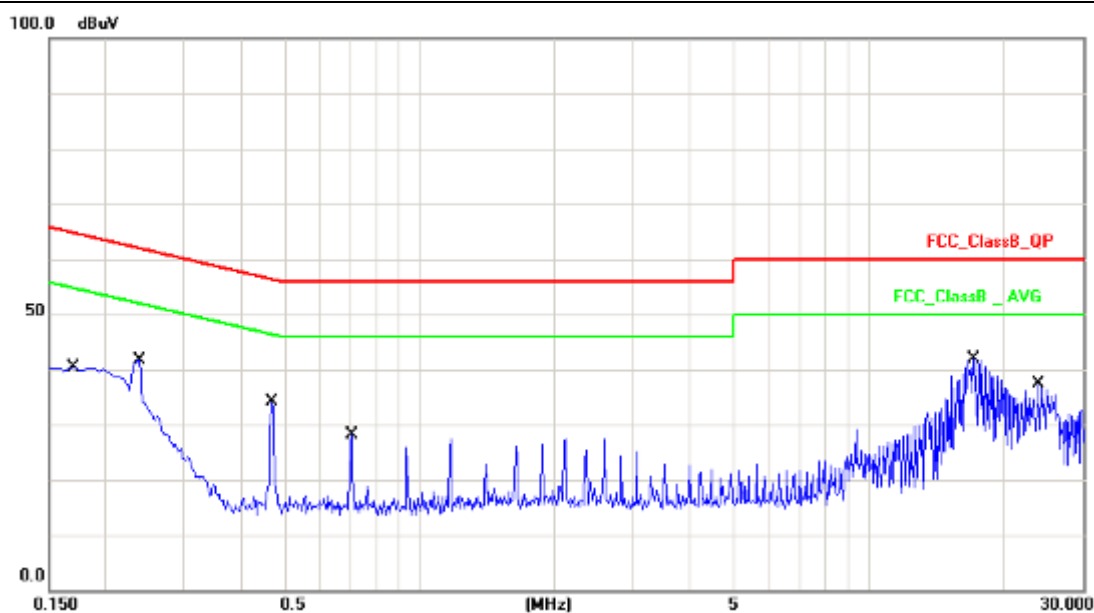


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	10.13	23.27	33.40	65.78	-32.38	QP
2	0.1539	10.13	1.68	11.81	55.78	-43.97	AVG
3	0.2340	10.12	27.61	37.73	62.30	-24.57	QP
4	0.2340	10.12	23.75	33.87	52.30	-18.43	AVG
5	0.4700	10.16	21.28	31.44	56.51	-25.07	QP
6	0.4700	10.16	20.33	30.49	46.51	-16.02	AVG
7	2.1140	10.17	14.48	24.65	56.00	-31.35	QP
8	2.1140	10.17	10.32	20.49	46.00	-25.51	AVG
9	17.3620	10.43	29.46	39.89	60.00	-20.11	QP
10	17.3620	10.43	25.39	35.82	50.00	-14.18	AVG
11	26.6100	10.43	27.41	37.84	60.00	-22.16	QP
12	26.6100	10.43	24.81	35.24	50.00	-14.76	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 2: Normal Operation with A12-3A-10		
AC Power :	AC 120V/60Hz	Phase :	NEUTRAL
Equipment :	IP CAMERA	Model No :	DH-IPC-HDBW8301N
Temperature :	23°C	Humidity :	52%
Pressure(mbar) :	1002	Date :	2014/05/24



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1700	10.13	22.99	33.12	64.96	-31.84	QP
2	0.1700	10.13	0.81	10.94	54.96	-44.02	AVG
3	0.2380	10.13	26.63	36.76	62.16	-25.40	QP
4	0.2380	10.13	24.81	34.94	52.16	-17.22	AVG
5	0.4700	10.15	21.84	31.99	56.51	-24.52	QP
6	0.4700	10.15	21.04	31.19	46.51	-15.32	AVG
7	0.7060	10.16	15.76	25.92	56.00	-30.08	QP
8	0.7060	10.16	14.69	24.85	46.00	-21.15	AVG
9	17.1299	10.48	29.26	39.74	60.00	-20.26	QP
10	17.1299	10.48	25.33	35.81	50.00	-14.19	AVG
11	23.9340	10.37	21.12	31.49	60.00	-28.51	QP
12	23.9340	10.37	16.29	26.66	50.00	-23.34	AVG

Note: Measurement Level = Reading Level + Correct Factor

Test engineer: Dian



3.6. Test Photographs

ADS-24RD-12 1224G

Front View



Rear View





A12-3A-10

Front View



Rear View





4. Test of Radiated Emission

4.1. Test Limit

Radiated emissions were measured with a bandwidth according to the methods defines in ANSI C63.4-2009. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in section 3.2. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated (μ V / M)	Radiated (dB μ V/ M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

Frequency (MHz)	Distance Meters	Radiated (dB μ V/ M)
30-230	10	30
230-1000	10	37

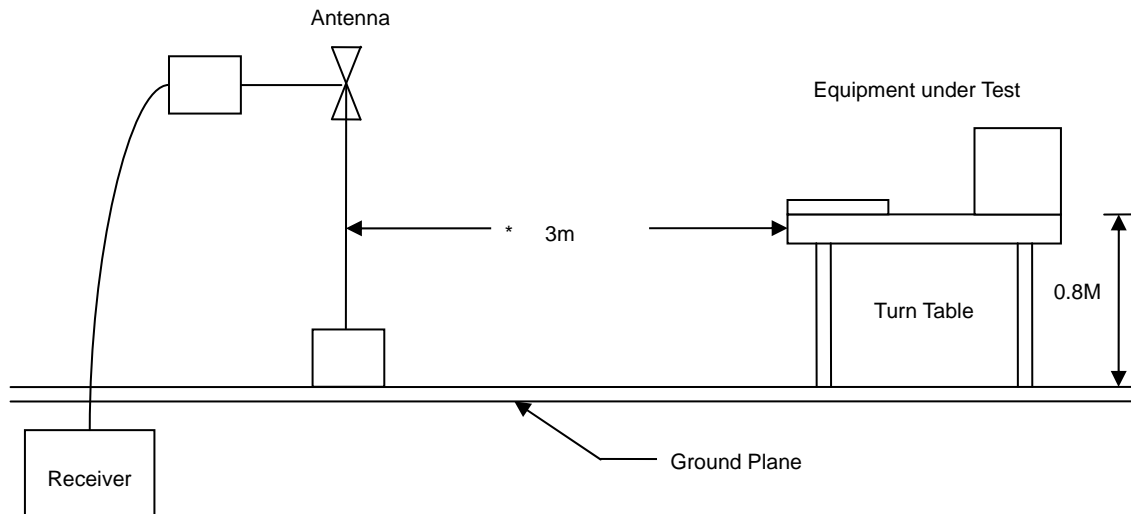
4.2. Test Procedures

- The EUT was placed on a Rota table top 0.8 meter above ground.
- The EUT was set 3/10 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 6 dB margin will be repeated one by one using the quasi-peak method and reported.

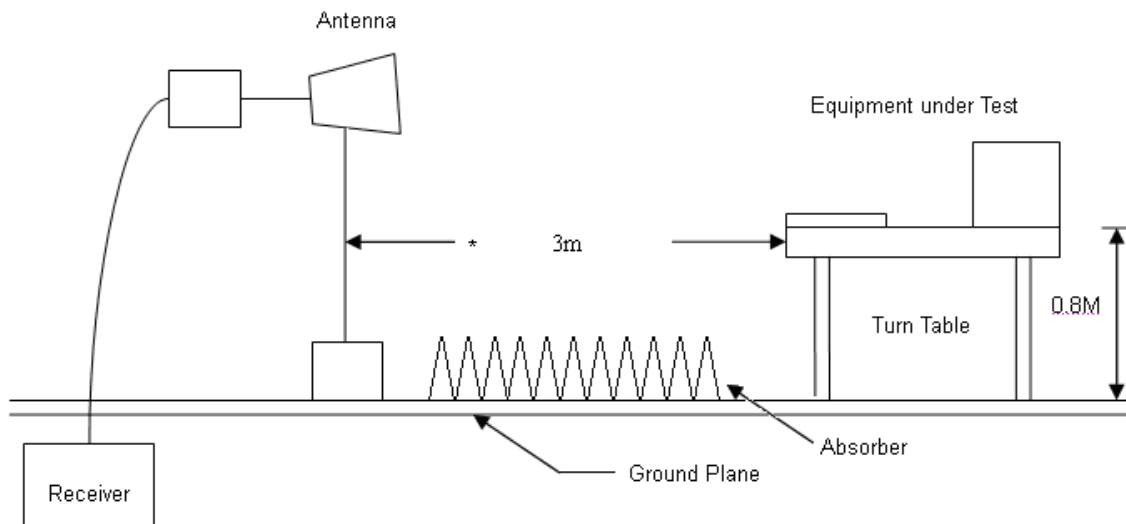


4.3. Typical test Setup

Below 1GHz Test Setup



Above 1GHz Test Setup



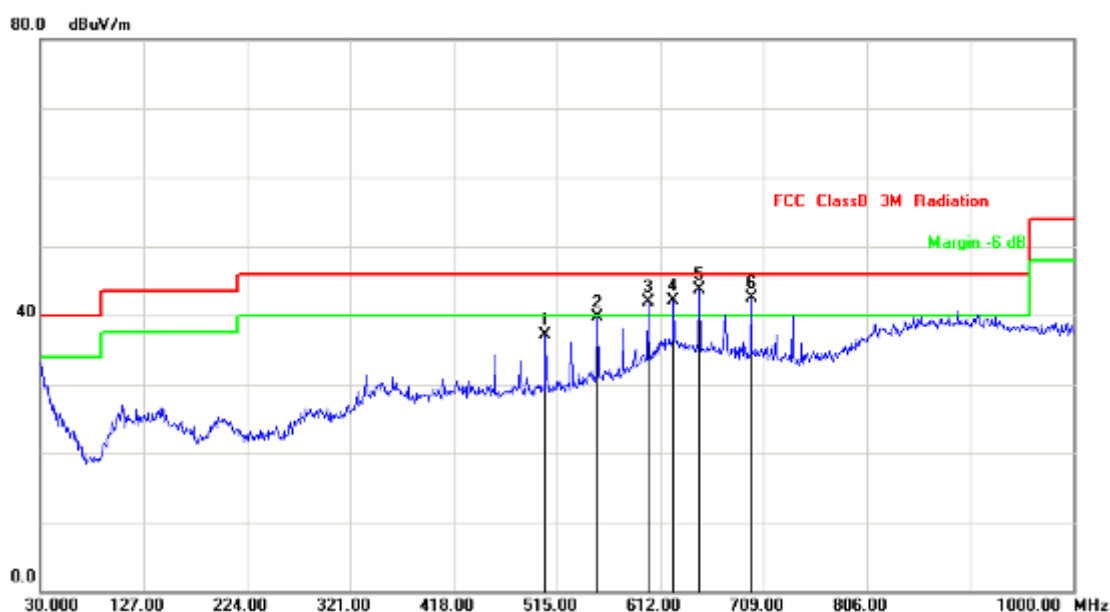
**4.4. Measurement equipment**

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
EMI Test Receiver	R&S	ESCI	100563	2014.02.10	2015.02.09
H64 Preamplifier	HP	8447F	3113A05582	2014.03.24	2015.03.23
Preamplifier	Agilent	8449B	3008A02342	2014.03.24	2015.03.23
Ultra Broadband Antenna	R&S	HL562	100362	2014.05.24	2015.05.23
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2014.05.24	2015.05.23
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	9170-348	2013.11.04	2014.11.03
Spectrum Analyzer	R&S	FSP40	100324	2014.03.23	2015.03.24
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2014.03.31	2015.03.30



4.5. Test Result and Data (30MHz ~ 1000MHz)

Test Mode :	Mode 1: Normal Operation with ADS-24RD-12 1224G		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Horizontal
Equipment :	IP Camera	Model No :	DH-IPC-HDBW8301N
Temp :	24°C	Humidity :	42%
Pressure(mbar) :	1002	Date :	2014/03/20

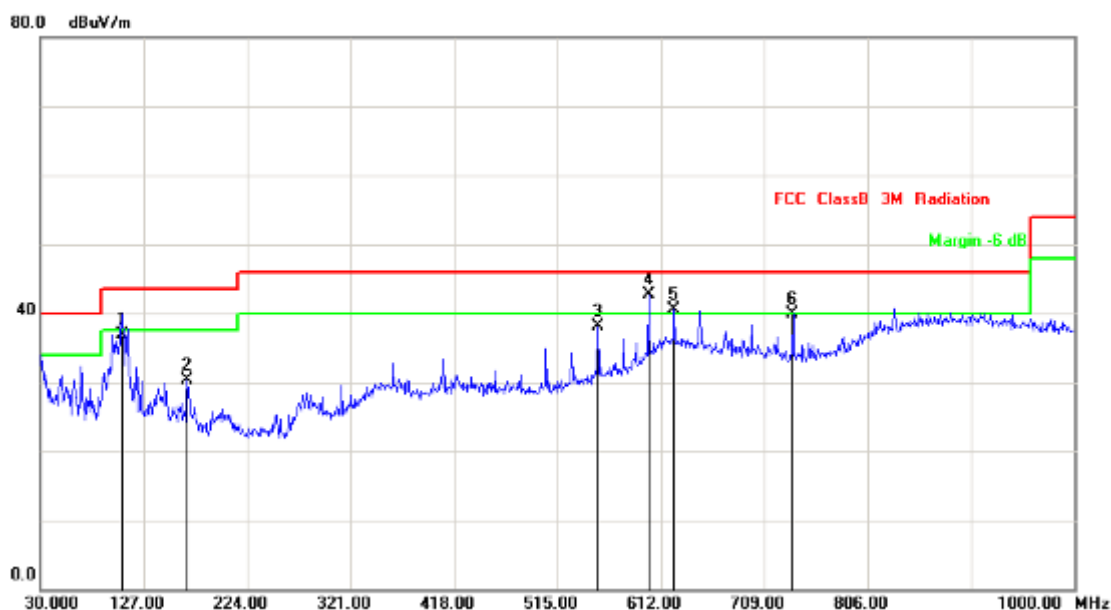


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	504.3299	4.34	32.72	37.06	46.00	-8.94	QP	200	12
2	552.8300	6.44	33.17	39.61	46.00	-6.39	QP	200	267
3	600.3600	9.46	32.35	41.81	46.00	-4.19	QP	200	36
4	624.6100	11.31	30.76	42.07	46.00	-3.93	QP	200	36
5	648.8600	10.63	33.10	43.73	46.00	-2.27	QP	100	44
6	697.3600	9.90	32.53	42.43	46.00	-3.57	QP	400	42

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Normal Operation with ADS-24RD-12 1224G		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Vertical
Equipment :	IP Camera	Model No :	DH-IPC-HDBW8301N
Temp :	24°C	Humidity :	42%
Pressure(mbar) :	1002	Date :	2014/03/20

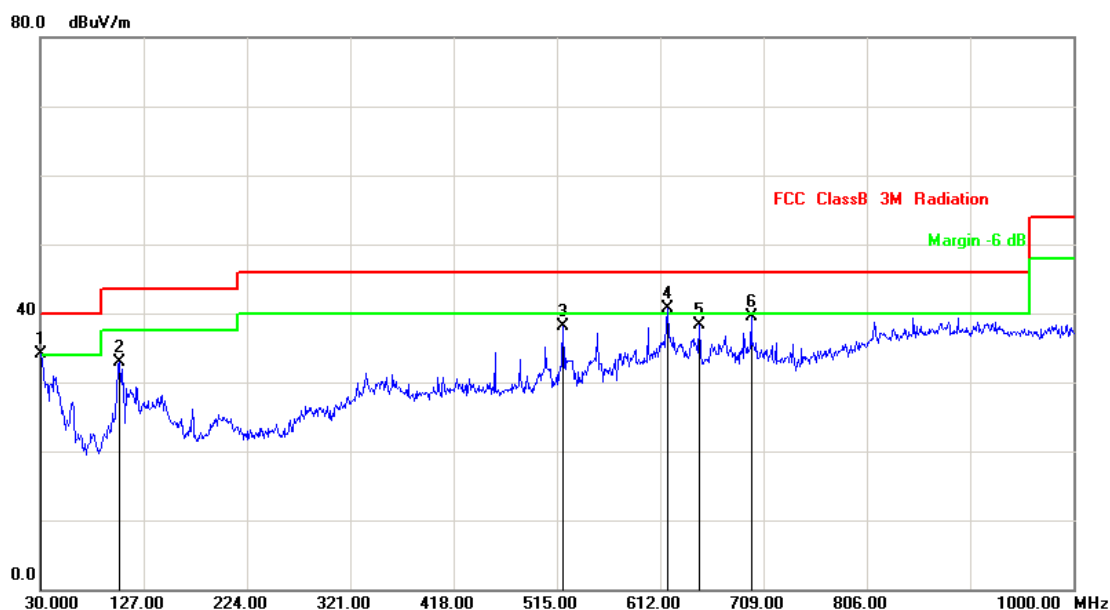


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	106.6950	-1.80	38.70	36.90	43.50	-6.60	QP	100	247
2	167.7400	-1.94	32.33	30.39	43.50	-13.11	QP	100	1
3	552.8300	6.44	31.58	38.02	46.00	-7.98	QP	100	139
4	600.3600	9.46	33.21	42.67	46.00	-3.33	QP	100	135
5	624.6100	11.31	29.17	40.48	46.00	-5.52	QP	100	139
6	736.1599	9.06	30.94	40.00	46.00	-6.00	QP	300	157

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 2: Normal Operation with A12-3A-10		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Horizontal
Equipment :	IP Camera	Model No :	DH-IPC-HDBW8301N
Temp :	24°C	Humidity :	42%
Pressure(mbar) :	1002	Date :	2014/03/20

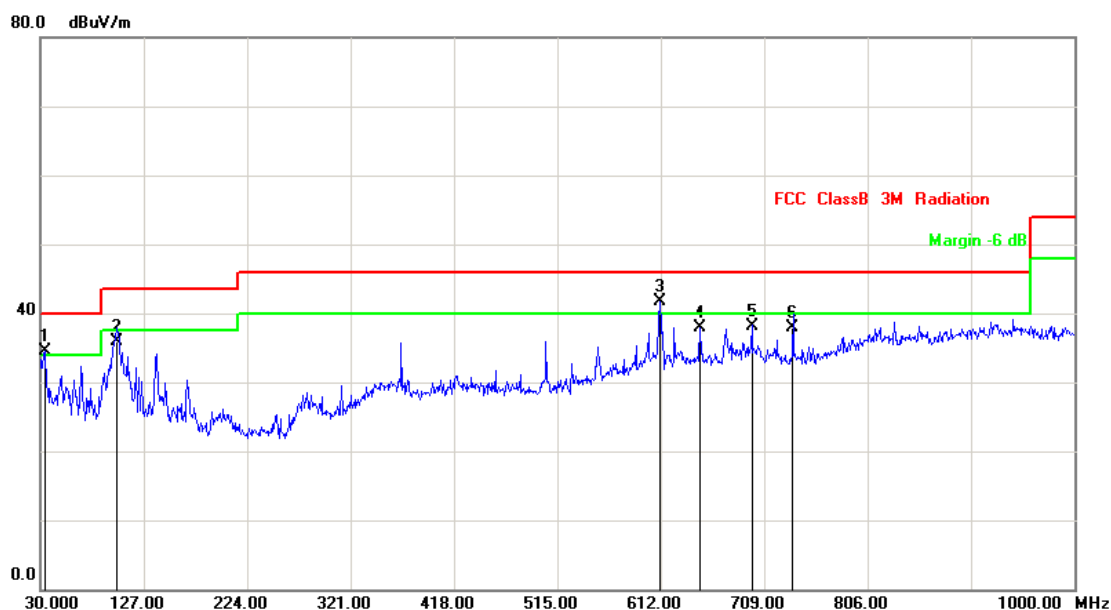


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9697	6.96	27.20	34.16	40.00	-5.84	QP	100	13
2	104.6898	-2.09	35.06	32.97	43.50	-10.53	QP	100	0
3	520.8200	5.10	32.95	38.05	46.00	-7.95	QP	100	36
4	618.7898	11.32	29.29	40.61	46.00	-5.39	QP	100	169
5	648.8600	10.63	27.60	38.23	46.00	-7.77	QP	200	90
6	697.3600	9.90	29.53	39.43	46.00	-6.57	QP	400	45

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 2: Normal Operation with A12-3A-10		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Vertical
Equipment :	IP Camera	Model No :	DH-IPC-HDBW8301N
Temp :	24°C	Humidity :	42%
Pressure(mbar) :	1002	Date :	2014/03/20



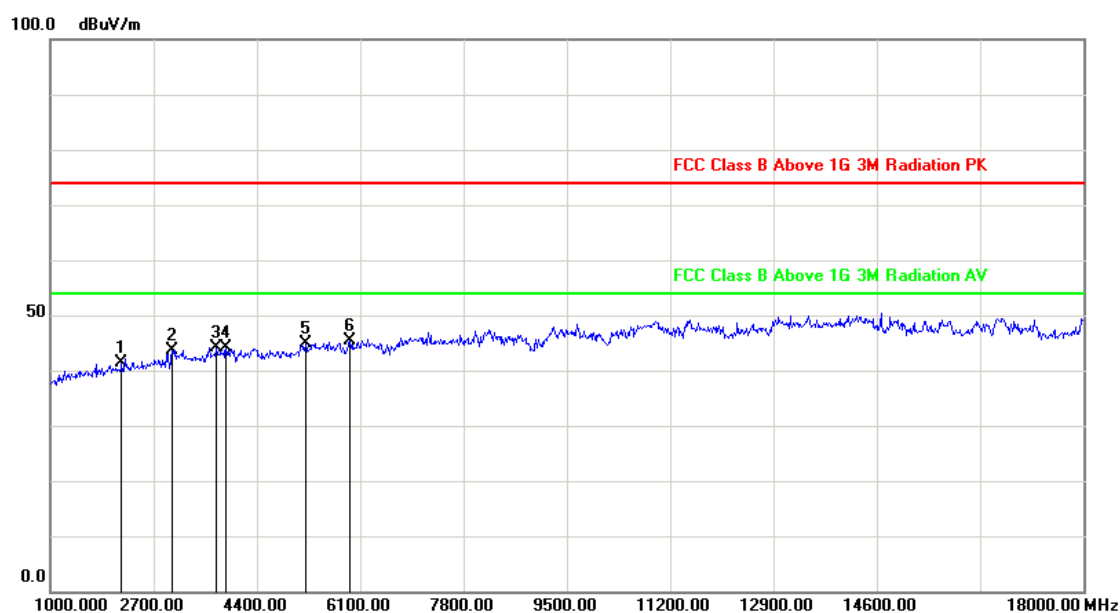
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	34.8500	4.72	29.85	34.57	40.00	-5.43	QP	300	68
2	101.7800	-2.53	38.49	35.96	43.50	-7.54	QP	100	159
3	611.0299	10.54	31.14	41.68	46.00	-4.32	QP	200	18
4	648.8600	10.63	27.26	37.89	46.00	-8.11	QP	100	317
5	697.3600	9.90	28.30	38.20	46.00	-7.80	QP	100	91
6	736.1599	9.06	28.94	38.00	46.00	-8.00	QP	400	87

Note: Measurement Level = Reading Level + Correct Factor



4.6. Test Result and Data (1000MHz ~ 18000MHz)

Test Mode :	Mode 1: Normal Operation with ADS-24RD-12 1224G		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Horizontal
Equipment :	IP Camera	Model No :	DH-IPC-HDBW8301N
Temp :	24℃	Humidity :	42%
Pressure(mbar) :	1002	Date :	2014/04/20

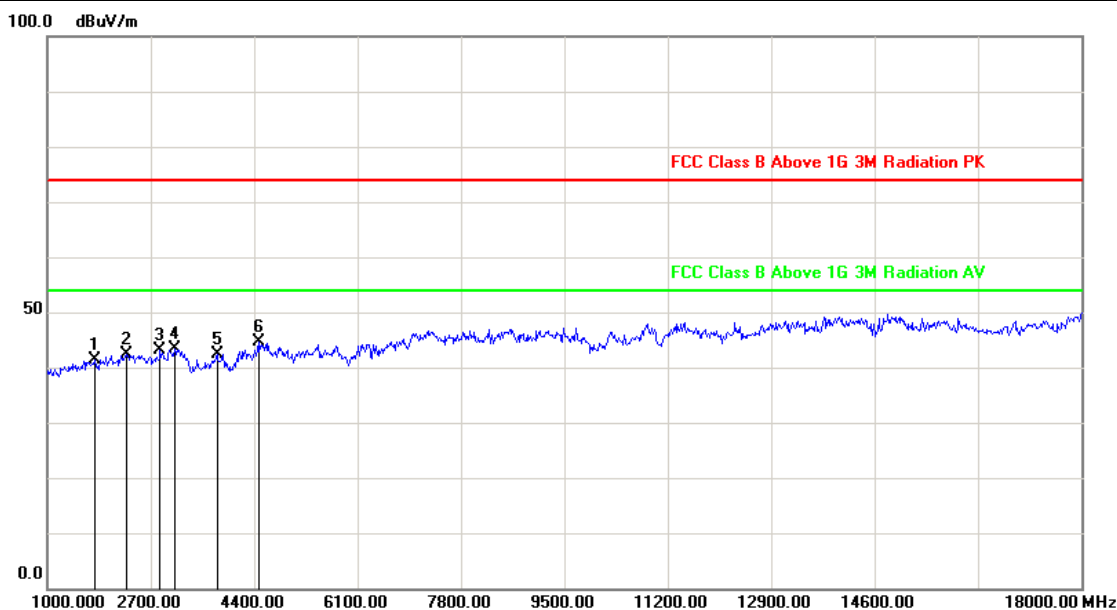


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2173.000	-2.12	43.49	41.37	74.00	-32.63	peak	100	157
2	3006.000	0.67	42.99	43.66	74.00	-30.34	peak	100	85
3	3737.000	3.38	40.74	44.12	74.00	-29.88	peak	100	262
4	3890.000	3.95	40.13	44.08	74.00	-29.92	peak	100	360
5	5199.000	7.18	37.78	44.96	74.00	-29.04	peak	100	0
6	5930.000	8.41	37.07	45.48	74.00	-28.52	peak	100	114

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Normal Operation with ADS-24RD-12 1224G		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Vertical
Equipment :	IP Camera	Model No :	DH-IPC-HDBW8301N
Temp :	24°C	Humidity :	42%
Pressure(mbar) :	1002	Date :	2014/04/20

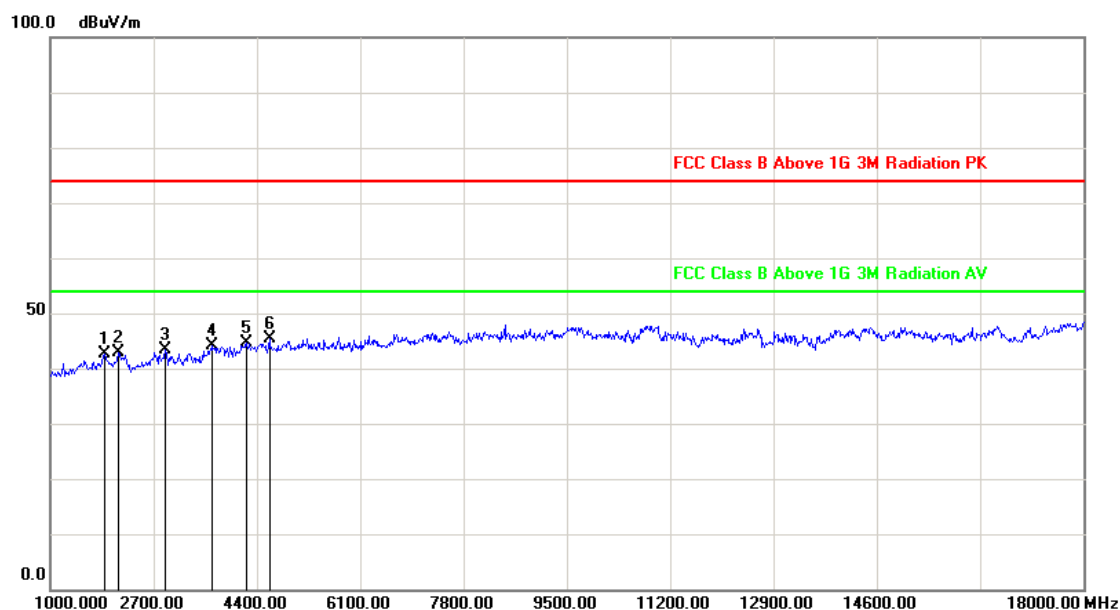


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1782.000	-3.61	44.90	41.29	74.00	-32.71	peak	100	258
2	2292.000	-1.72	43.99	42.27	74.00	-31.73	peak	100	11
3	2853.000	0.16	43.00	43.16	74.00	-30.84	peak	100	56
4	3091.000	0.99	42.46	43.45	74.00	-30.55	peak	100	360
5	3788.000	3.57	38.85	42.42	74.00	-31.58	peak	100	112
6	4468.000	5.53	39.02	44.55	74.00	-29.45	peak	100	0

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 2: Normal Operation with A12-3A-10		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Horizontal
Equipment :	IP Camera	Model No :	DH-IPC-HDBW8301N
Temp :	24°C	Humidity :	42%
Pressure(mbar) :	1002	Date :	2014/04/20

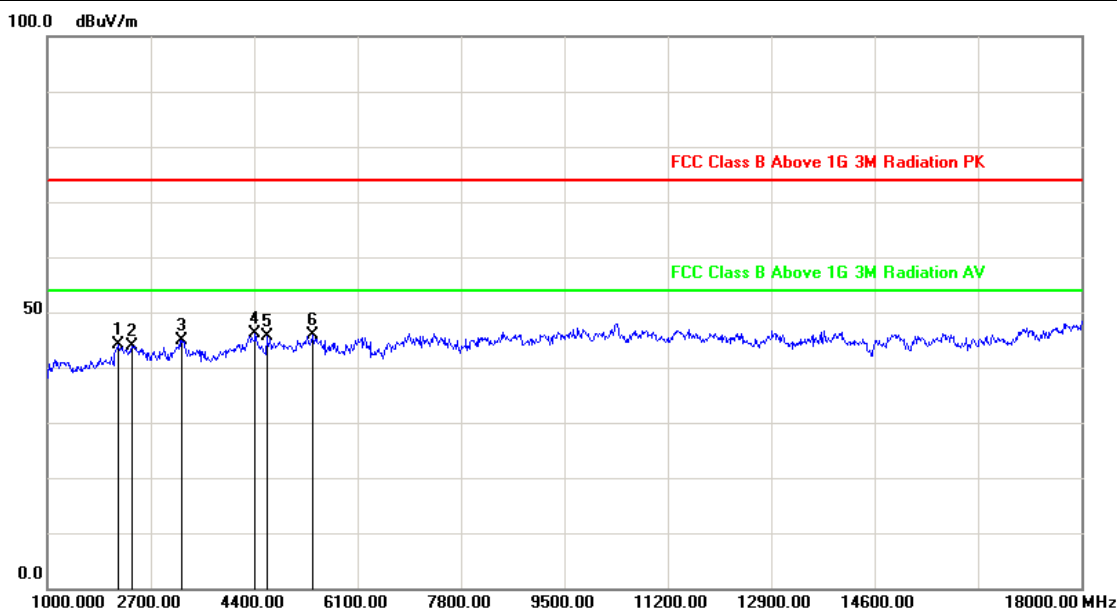


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1901.000	-3.11	45.70	42.59	74.00	-31.41	peak	100	284
2	2122.000	-2.29	45.17	42.88	74.00	-31.12	peak	100	346
3	2887.000	0.27	43.06	43.33	74.00	-30.67	peak	100	151
4	3669.000	3.13	40.95	44.08	74.00	-29.92	peak	200	63
5	4230.000	4.93	39.66	44.59	74.00	-29.41	peak	100	9
6	4604.000	5.86	39.62	45.48	74.00	-28.52	peak	200	99

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 2: Normal Operation with A12-3A-10		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Vertical
Equipment :	IP Camera	Model No :	DH-IPC-HDBW8301N
Temp :	24°C	Humidity :	42%
Pressure(mbar) :	1002	Date :	2014/04/20



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2173.000	-2.12	46.25	44.13	74.00	-29.87	peak	100	121
2	2394.000	-1.38	45.36	43.98	74.00	-30.02	peak	200	47
3	3210.000	1.43	43.51	44.94	74.00	-29.06	peak	100	316
4	4417.000	5.40	40.72	46.12	74.00	-27.88	peak	100	78
5	4604.000	5.86	39.87	45.73	74.00	-28.27	peak	100	59
6	5369.000	7.47	38.31	45.78	74.00	-28.22	peak	100	12

Note: Measurement Level = Reading Level + Correct Factor

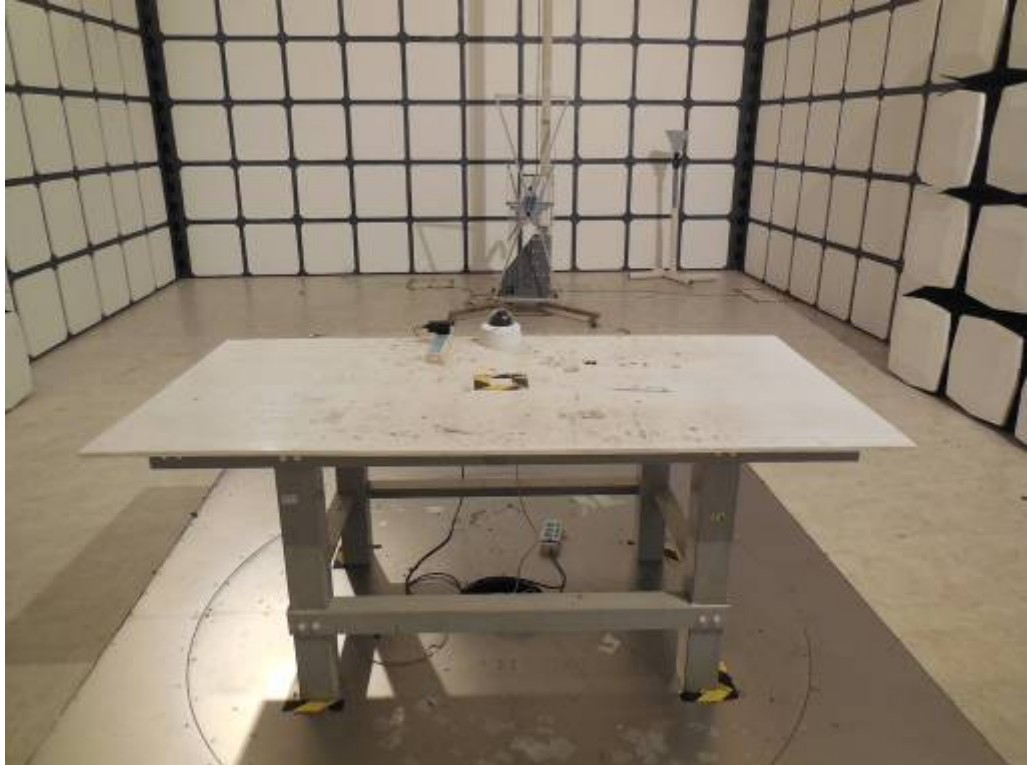
Test engineer: Karp



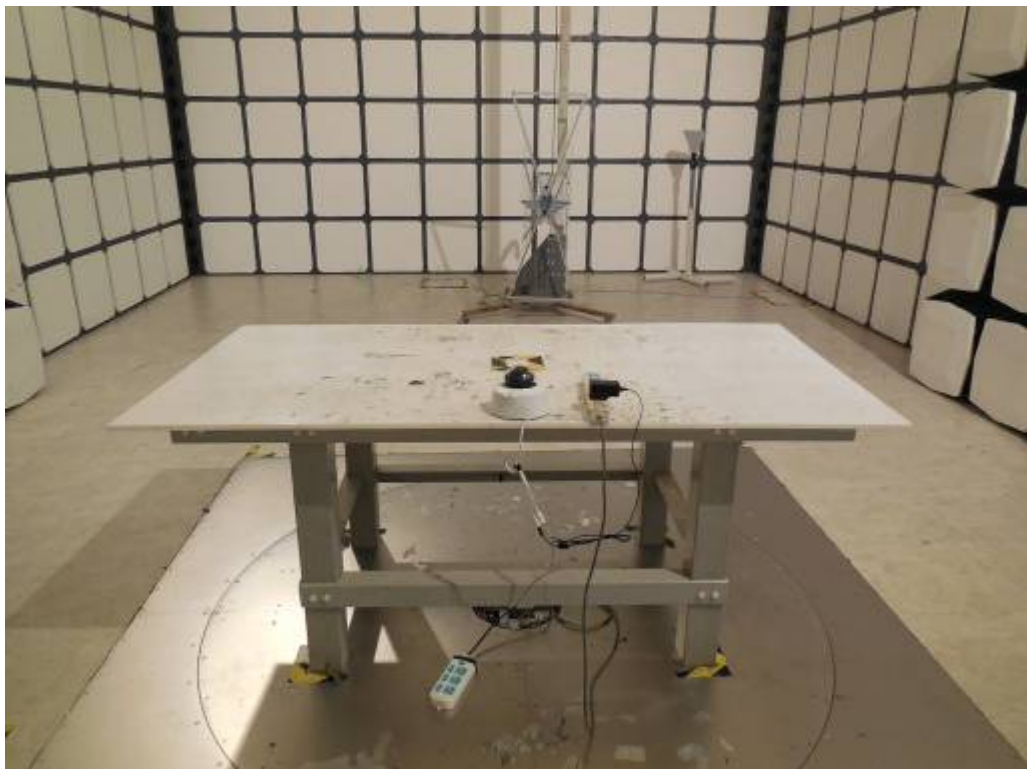
4.7. Test Photographs (30MHz ~ 1000MHz)

ADS-24RD-12 1224G

Front View



Rear View



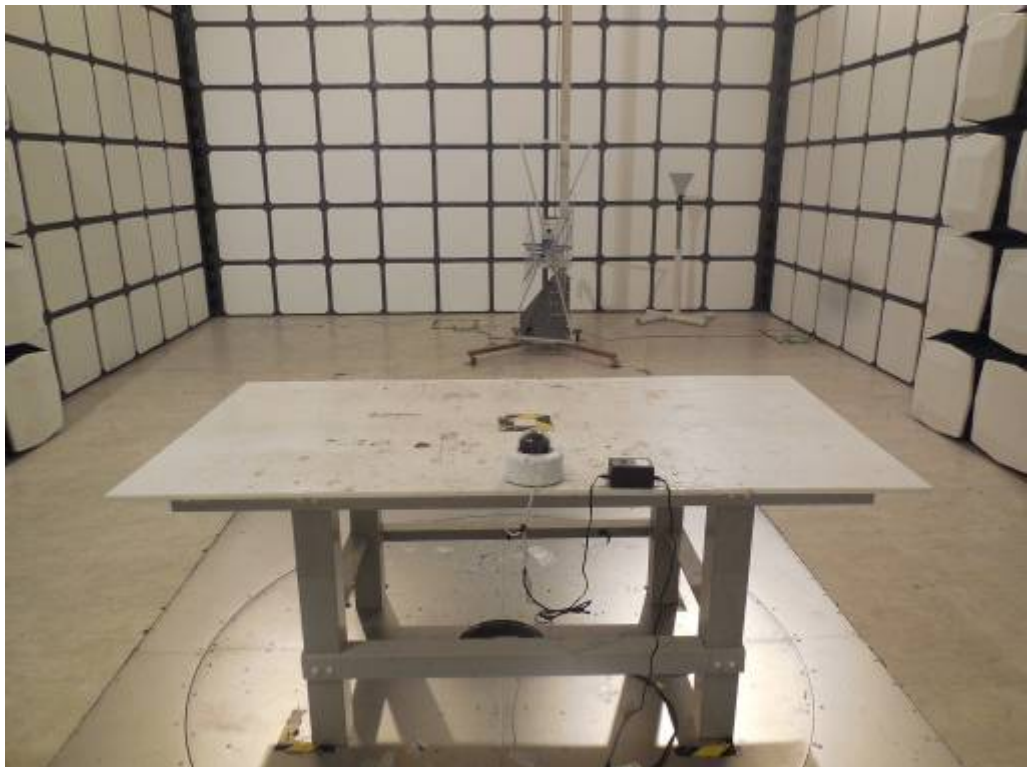


A12-3A-10

Front View



Rear View





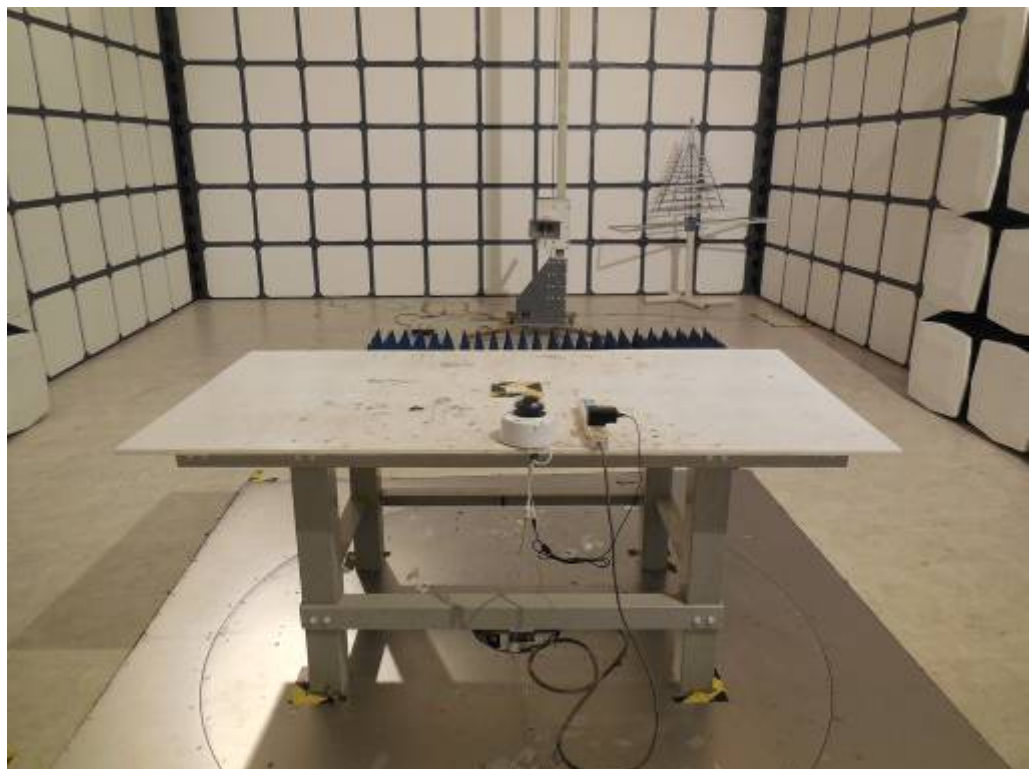
4.8. Test Photographs (1000MHz ~ 18000MHz)

ADS-24RD-12 1224G

Front View



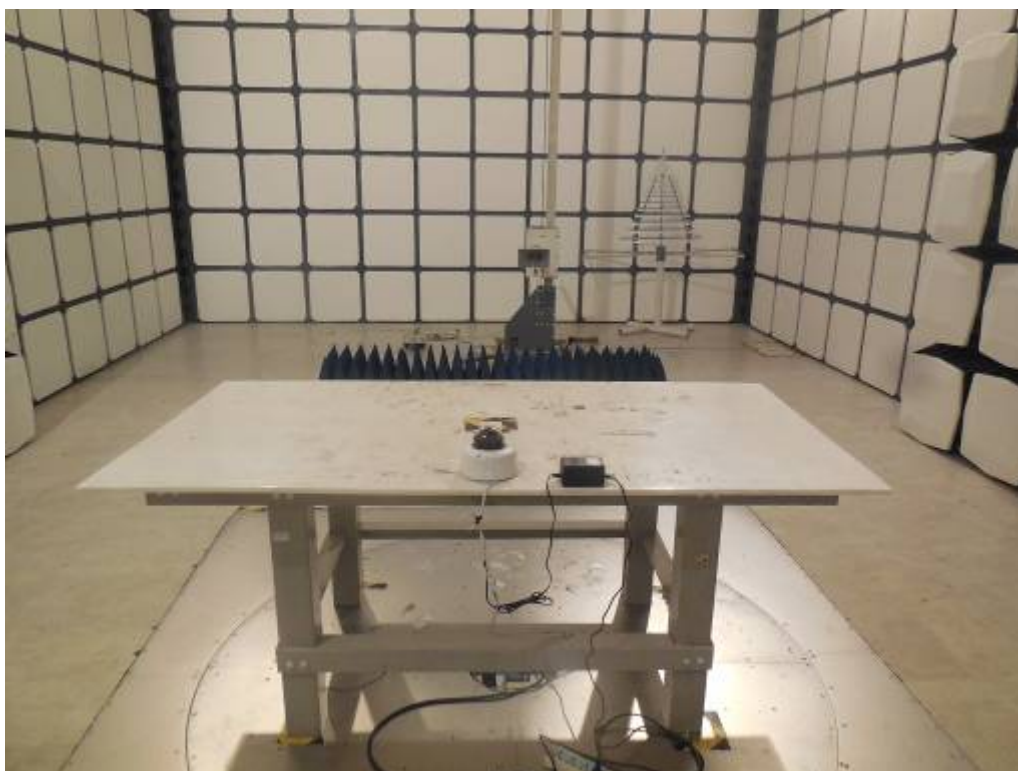
Rear View





A12-3A-10

Front View



Rear View



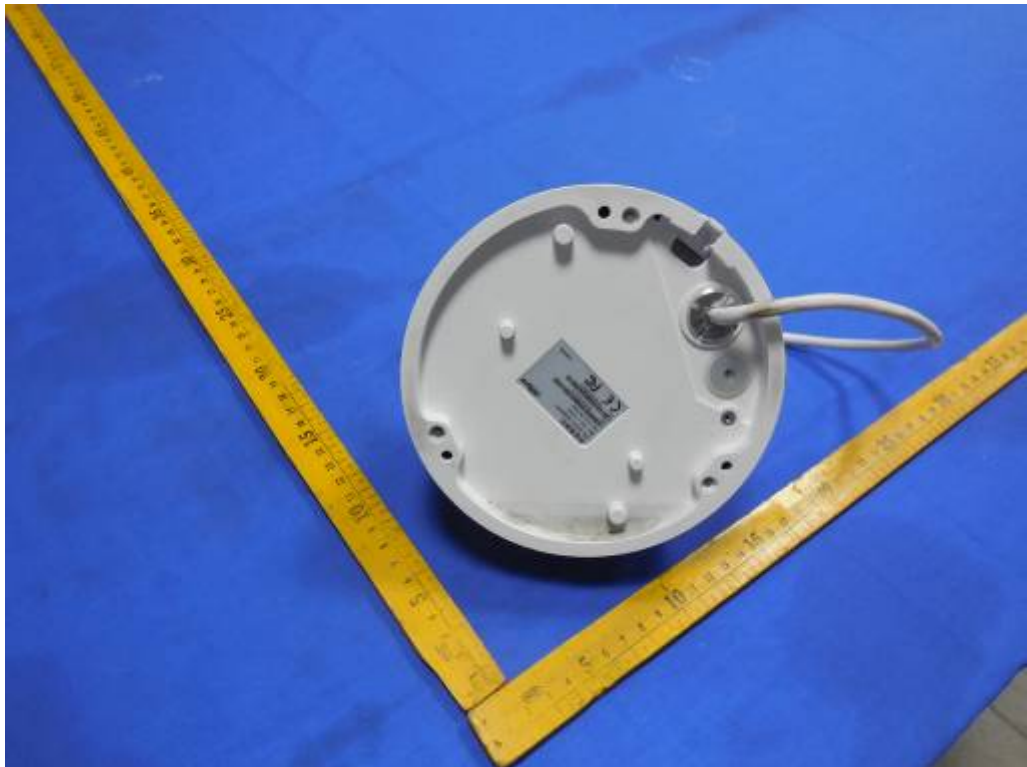


5. Photographs of EUT

1) EUT Photo



2) EUT Photo





3) EUT Photo



4) EUT Photo(Adapter/ADS-24RD-12 1224G)





5) EUT Photo(Adapter/ADS-24RD-12 1224G)



6) EUT Photo(Adapter/ADS-24RD-12 1224G)





7) EUT Photo(Adapter/ADS-24RD-12 1224G)



8) EUT Photo(Adapter/A12-3A-10)





9) EUT Photo(Adapter/A12-3A-10)



10) EUT Photo(Adapter/A12-3A-10)

