FCC DOC TEST REPORT

According to

47 CFR, Part 2, Part 15, CISPR PUB. 22,
ICES 003 Issue 5:2012

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	:	HDCVI CAMERA
Model No.	:	DH-HAC-HFW1200RMN, DH-HAC-HFW1200RMP, HAC-HFW1200RMN, HAC-HFW1200RMP, DH-HAC-HFW1200RN, DH-HAC-HFW1200RP, HAC-HFW1200RN, HAC-HFW1200RP

I HEREBY CERTIFY THAT :

The sample was received on Dec. 24, 2014 and the testing was carried out on Mar. 09, 2015 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Hill Chen
EMC/RF B.U. Assistant Manager

FCC TEST REPORT

Issued by:

Cerpass Technology Co.,Ltd

No.10, Lane 2, Lianfu Street, Luzhu Township, Taoyuan County 33848, Taiwan(R.O.C.)

Tel: 886-3-322-6888

Fax: 886-3-322-6881

The test record, data evaluation & Equipment. Under Test configurations represented herein are true and accurate accounts of the measurements of the samples EMC characteristics under the conditions specified in this report.

Laboratory Accreditation:

☒ Cerpass Technology Corporation Test Laboratory

NVLAP LAB CODE:200954-0

Contents

History of this test report

■ ORIGINAL.

☐ Additional attachment as following record:

Report No	Version	Date	Description
SEFD1412136	Rev 01	Mar 11, 2015	Initial Issue

1. Summary of Test Procedure and Test Result

1.1. Applicable Standards

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 Part 2, Part 15, CISPR PUB. 22.

The energy emitted by this equipment was passed both Radiated and Conducted Emissions Class B limits.

Test Item	Normative References	Test Result	Remarks
Conducted Emission	ANSI C63.4-2009 FCC Part 15 Subpart B ICES 003 Issue 5:2012	PASS	Meets Class B Limit Minimum passing margin(QP) is -2.50dB at 0.3180MHz
Radiated Emission	ANSI C63.4-2009 FCC Part 15 Subpart B ICES 003 Issue 5:2012	PASS	Meets Class B Limit Minimum passing margin(QP) is -3.49dB at 103.7200MHz

2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Product Name:	HDCVI CAMERA	
Model Name:	DH-HAC-HFW1200RMP, DH-HAC-HFW1200RP	
Series Model:	DH-HAC-HFW1200RMN, HAC-HFW1200RMN, HAC-HFW1200RMP, DH-HAC-HFW1200RN, HAC-HFW1200RN, HAC-HFW1200RP	
Model Discrepancy:	1) These models are similar except for software video formats and case logo. 2) DH-HAC-HFW1200RMN, DH-HAC-HFW1200RMP, HAC-HFW1200RMN and HAC-HFW1200RMP are metal case, DH-HAC-HFW1200RN, DH-HAC-HFW1200RP, HAC-HFW1200RN and HAC-HFW1200RP are plastic case.	
Adapter	Model No.:	ADS-12B-12 12012Gz
	Input:	100-240V~50/60Hz 0.3A Max.
	Output:	12V,1.0A

Note: Please refer to user manual.

I/O PORT:

I/O PORT TYPE	Quantity
1). BNC Port	1

2.2. Test Manner

a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
b. Turn on the power of all equipment.
c. The complete test system included Monitor, DVR and EUT for EMI test.
d. The test modes of EMI test as follow:
   Test Mode 1. Normal Operation for DH-HAC-HFW1200RMP
   Test Mode 2. Normal Operation for DH-HAC-HFW1200RP
   "Test Mode 1, 2" was reported as final data.
e. The maximum operating frequency is above 108MHz, the test frequency range is from 30MHz to 18GHz.

2.3. Description of Test System

No	Device	Manufacturer	Model No.	Description
1	Monitor	PTS	PTS-1401C	Non-Shielded,1.5m
2	DVR	DAHUA	HCVR5208A	Non-Shielded,1.5m

Use Cable:

No	Cable	Quantity	Description
A	BNC Cable	1	Shielded, >3.0m
B	BNC Cable	1	Shielded, >3.0m

2.4. General Information of Test

Test Site :	**Cerpass Technology Corporation Test Laboratory** Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881 Address: No.68-1, Shihbachongsi, Shihding Township, New Taipei City 223, Taiwan, R.O.C. Tel: +886-2-2663-8582
FCC Registration Number :	TW1079, TW1061,390316, 228391, 641184
IC Registration Number :	4934B-1, 4934E-1, 4934E-2
VCCI	T-2205 for Telecommunication Test C-4463 for Conducted emission test R-3428, R-4128 for Radiated emission test G-812, G-813 for radiated disturbance above 1GHz
Frequency Range Investigated :	Conducted Emission Test: from 150 kHz to 30 MHz Radiated Emission Test: from 30 MHz to 6,000 MHz
Test Distance :	The test distance of radiated emission below 1GHz from antenna to EUT is 10 M. The test distance of radiated emission above 1GHz from antenna to EUT is 3 M.

2.5. 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

Test results and Measurement uncertainty without any relationship in the test report.

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.

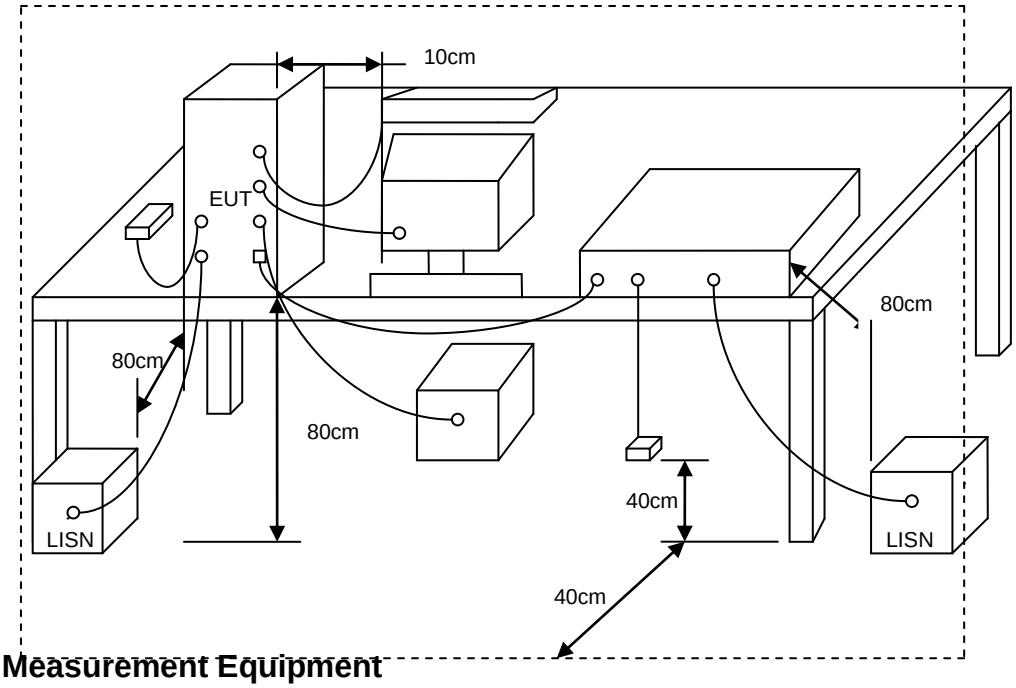
Conducted Emission Limits:

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

a. 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.
b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
c. All the support units are connecting to the other LISN.
d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
f. Both sides of AC line were checked for maximum conducted interference.
g. The frequency range from 150 kHz to 30 MHz was searched.
h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

3.3. Typical test Setup



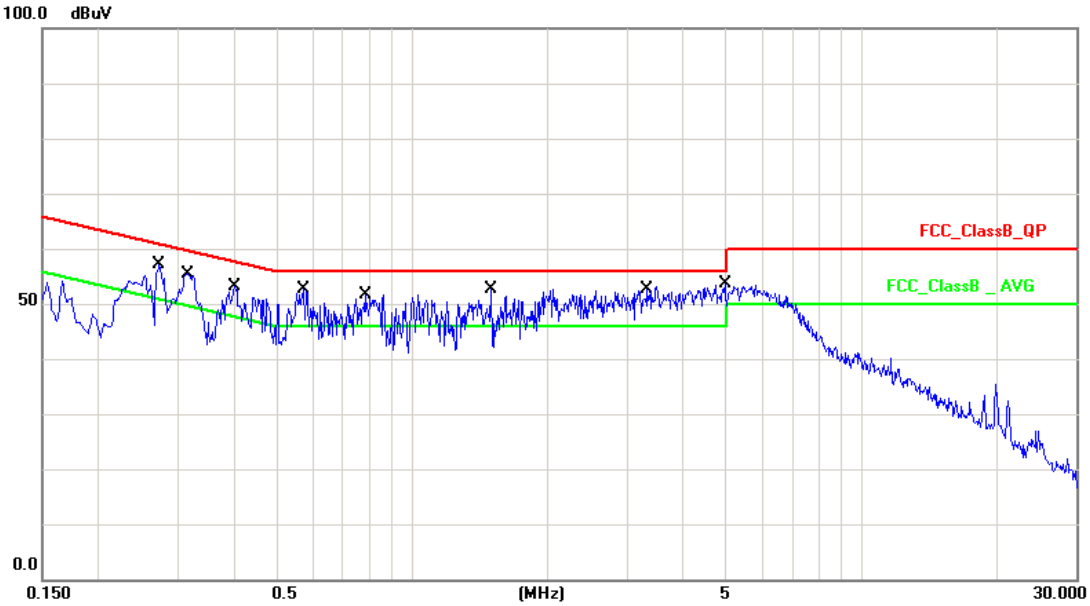
3.4. Measurement Equipment

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	2014.09.04	2015.09.03
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
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A

3.5. Test Result and Data

Test Mode :	Mode 1: Normal Operation for DH-HAC-HFW1200RMP		
AC Power :	AC 120V/60Hz	Phase :	LINE

Equipment :	HDCVI CAMERA	Model No :	DH-HAC-HFW1200RMP
Temperature :	22℃	Humidity :	54%
Pressure(mbar) :	1002	Date :	2015/03/07

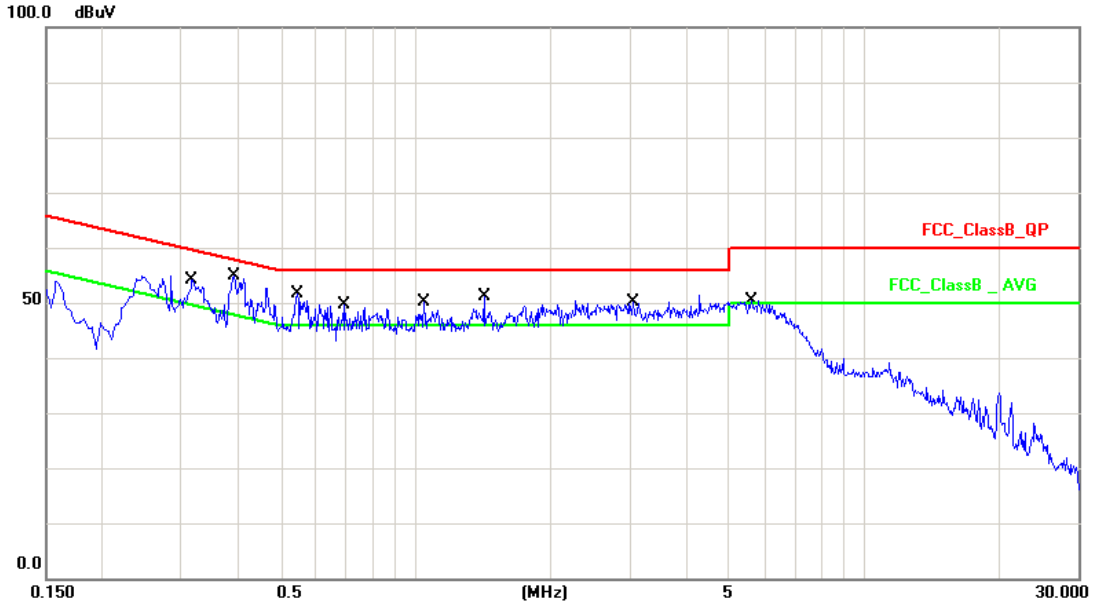


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2740	10.13	44.79	54.92	60.99	-6.07	QP
2	0.2740	10.13	34.98	45.11	50.99	-5.88	AVG
3	0.3149	10.14	45.55	55.69	59.84	-4.15	QP
4	0.3149	10.14	33.73	43.87	49.84	-5.97	AVG
5	0.4020	10.15	42.39	52.54	57.81	-5.27	QP
6	0.4020	10.15	30.52	40.67	47.81	-7.14	AVG
7	0.5740	10.16	40.06	50.22	56.00	-5.78	QP
8	0.5740	10.16	28.65	38.81	46.00	-7.19	AVG
9	0.7860	10.15	37.59	47.74	56.00	-8.26	QP
10	0.7860	10.15	28.43	38.58	46.00	-7.42	AVG
11	1.4980	10.16	33.88	44.04	56.00	-11.96	QP
12	1.4980	10.16	23.40	33.56	46.00	-12.44	AVG
13	3.3340	10.19	37.25	47.44	56.00	-8.56	QP
14	3.3340	10.19	26.98	37.17	46.00	-8.83	AVG
15	4.9580	10.24	37.79	48.03	56.00	-7.97	QP
16	4.9580	10.24	27.93	38.17	46.00	-7.83	AVG

Note: Measurement Level = Reading Level + Correct Factor

Test Mode :	Mode 1: Normal Operation for DH-HAC-HFW1200RMP		
AC Power :	AC 120V/60Hz	Phase :	NEUTRAL
Equipment :	HDCVI CAMERA	Model No :	DH-HAC-HFW1200RMP

Temperature :	22℃	Humidity :	54%
Pressure(mbar) :	1002	Date :	2015/03/07

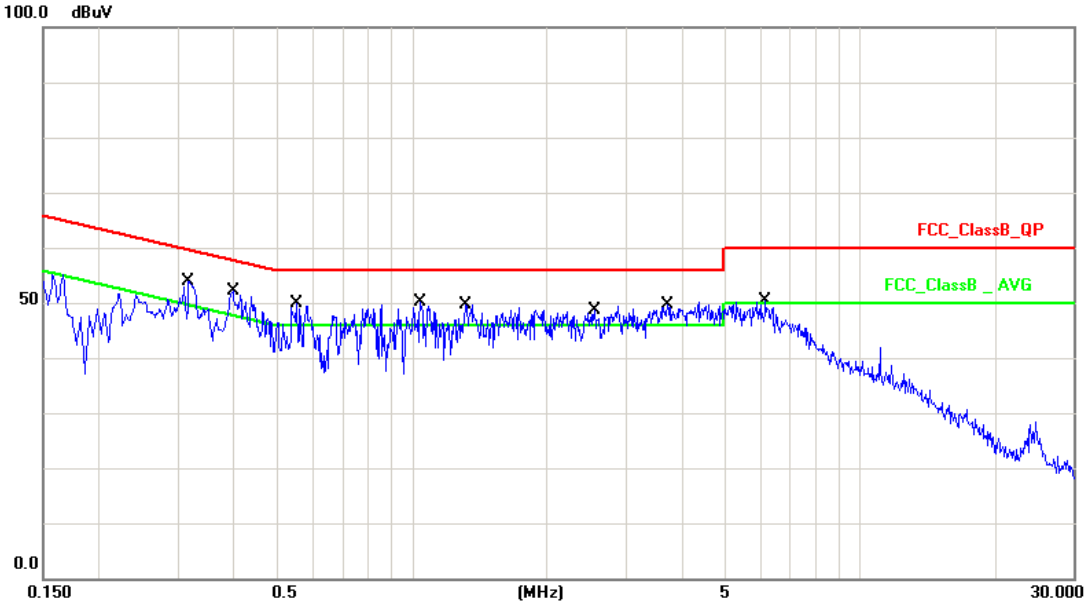


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3180	10.14	34.82	44.96	59.76	-14.80	QP
2	0.3180	10.14	30.07	40.21	49.76	-9.55	AVG
3	0.3940	10.15	41.83	51.98	57.98	-6.00	QP
4	0.3940	10.15	30.65	40.80	47.98	-7.18	AVG
5	0.5460	10.15	38.40	48.55	56.00	-7.45	QP
6	0.5460	10.15	27.95	38.10	46.00	-7.90	AVG
7	0.6900	10.16	34.91	45.07	56.00	-10.93	QP
8	0.6900	10.16	25.90	36.06	46.00	-9.94	AVG
9	1.0460	10.18	35.01	45.19	56.00	-10.81	QP
10	1.0460	10.18	26.42	36.60	46.00	-9.40	AVG
11	1.4220	10.18	34.48	44.66	56.00	-11.34	QP
12	1.4220	10.18	25.70	35.88	46.00	-10.12	AVG
13	3.0660	10.20	35.36	45.56	56.00	-10.44	QP
14	3.0660	10.20	25.98	36.18	46.00	-9.82	AVG
15	5.6220	10.26	36.61	46.87	60.00	-13.13	QP
16	5.6220	10.26	26.77	37.03	50.00	-12.97	AVG

Note: Measurement Level = Reading Level + Correct Factor

Test Mode :	Mode 2: Normal Operation for DH-HAC-HFW1200RP		
AC Power :	AC 120V/60Hz	Phase :	LINE
Equipment :	HDCVI CAMERA	Model No :	DH-HAC-HFW1200RP

Temperature :	22℃	Humidity :	54%
Pressure(mbar) :	1002	Date :	2015/03/07

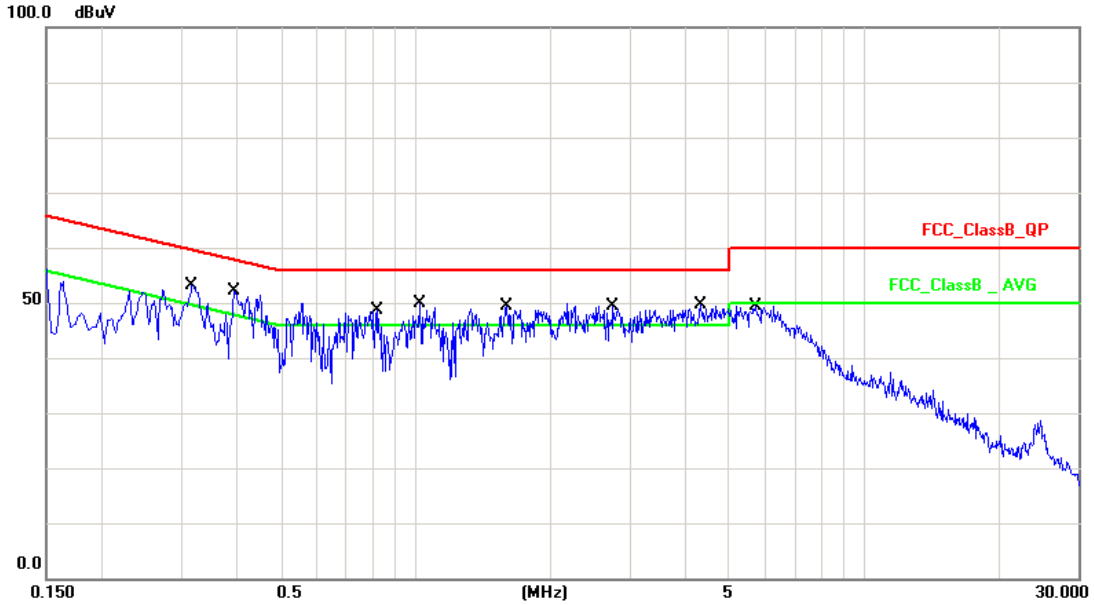


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3180	10.14	47.12	57.26	59.76	-2.50	QP
2	0.3180	10.14	36.82	46.96	49.76	-2.80	AVG
3	0.3980	10.15	38.53	48.68	57.89	-9.21	QP
4	0.3980	10.15	29.52	39.67	47.89	-8.22	AVG
5	0.5540	10.16	35.01	45.17	56.00	-10.83	QP
6	0.5540	10.16	24.53	34.69	46.00	-11.31	AVG
7	1.0460	10.16	34.86	45.02	56.00	-10.98	QP
8	1.0460	10.16	23.85	34.01	46.00	-11.99	AVG
9	1.3220	10.16	36.35	46.51	56.00	-9.49	QP
10	1.3220	10.16	25.39	35.55	46.00	-10.45	AVG
11	2.5579	10.18	34.75	44.93	56.00	-11.07	QP
12	2.5579	10.18	23.62	33.80	46.00	-12.20	AVG
13	3.7220	10.20	34.78	44.98	56.00	-11.02	QP
14	3.7220	10.20	23.58	33.78	46.00	-12.22	AVG
15	6.1620	10.25	34.68	44.93	60.00	-15.07	QP
16	6.1620	10.25	24.14	34.39	50.00	-15.61	AVG

Note: Measurement Level = Reading Level + Correct Factor

Test Mode :	Mode 2: Normal Operation for DH-HAC-HFW1200RP		
AC Power :	AC 120V/60Hz	Phase :	NEUTRAL
Equipment :	HDCVI CAMERA	Model No :	DH-HAC-HFW1200RP

Temperature :	22℃	Humidity :	54%
Pressure(mbar) :	1002	Date :	2015/03/07



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3180	10.14	46.17	56.31	59.76	-3.45	QP
2	0.3180	10.14	36.83	46.97	49.76	-2.79	AVG
3	0.3955	10.15	37.98	48.13	57.95	-9.82	QP
4	0.3955	10.15	29.21	39.36	47.95	-8.59	AVG
5	0.8260	10.16	32.59	42.75	56.00	-13.25	QP
6	0.8260	10.16	22.20	32.36	46.00	-13.64	AVG
7	1.0220	10.18	33.18	43.36	56.00	-12.64	QP
8	1.0220	10.18	23.06	33.24	46.00	-12.76	AVG
9	1.5980	10.18	34.68	44.86	56.00	-11.14	QP
10	1.5980	10.18	24.25	34.43	46.00	-11.57	AVG
11	2.7540	10.20	33.57	43.77	56.00	-12.23	QP
12	2.7540	10.20	22.92	33.12	46.00	-12.88	AVG
13	4.3220	10.24	33.70	43.94	56.00	-12.06	QP
14	4.3220	10.24	23.15	33.39	46.00	-12.61	AVG
15	5.7180	10.26	33.63	43.89	60.00	-16.11	QP
16	5.7180	10.26	23.54	33.80	50.00	-16.20	AVG

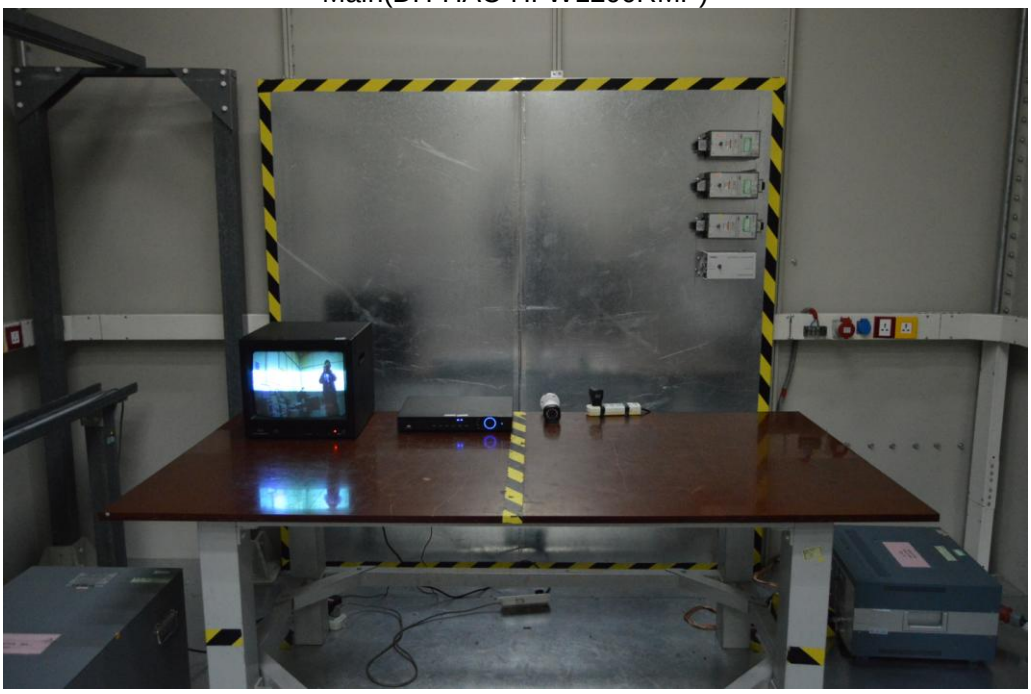
Note: Measurement Level = Reading Level + Correct Factor

Test engineer: Dian

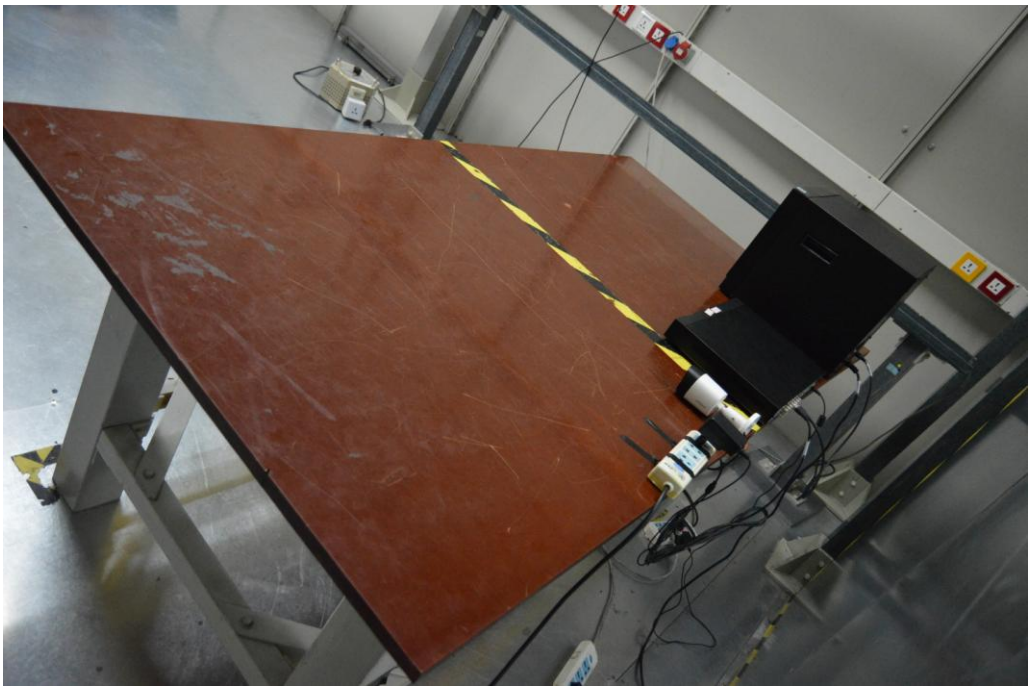
3.6. Test Photographs

Main(DH-HAC-HFW1200RMP)

Front View



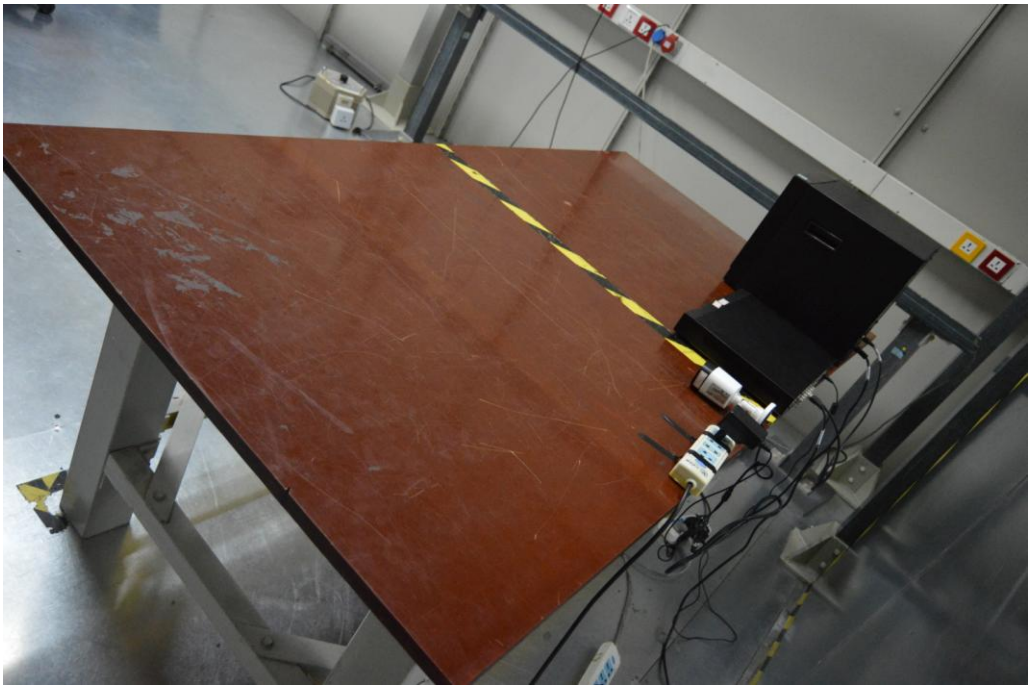
Rear View



Main(DH-HAC-HFW1200RP)

Front View

Rear View



4. Test of Radiated Emission

4.1. Test Limit

Radiated emissions from 30 MHz to 15,000 MHz were measured with a bandwidth of 120 kHz 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.

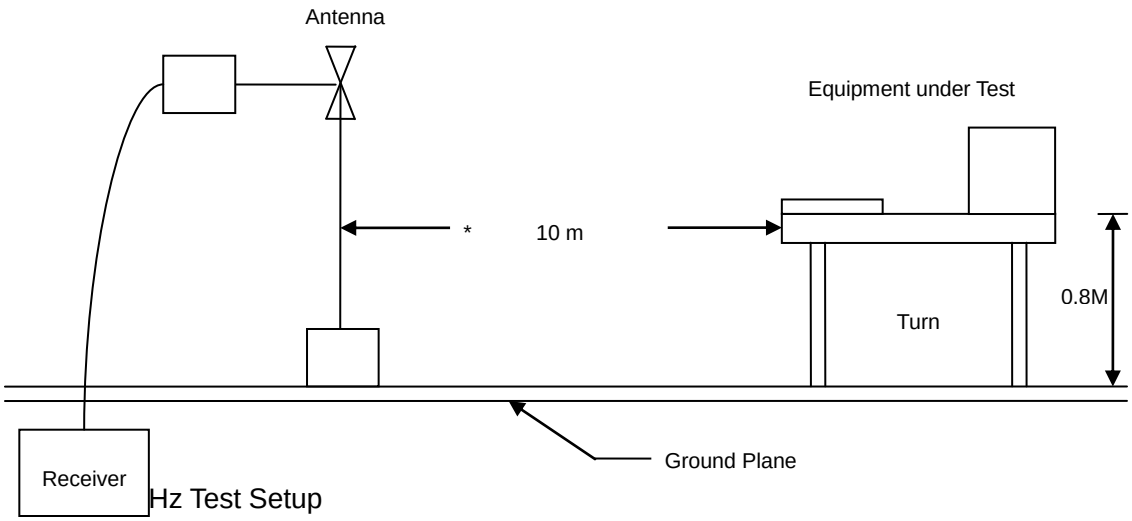
Frequency (MHz)	Distance Meters	Radiated (dB μ V/ M)
30-230	10	30
230-1000	10	37

4.2. Test Procedures

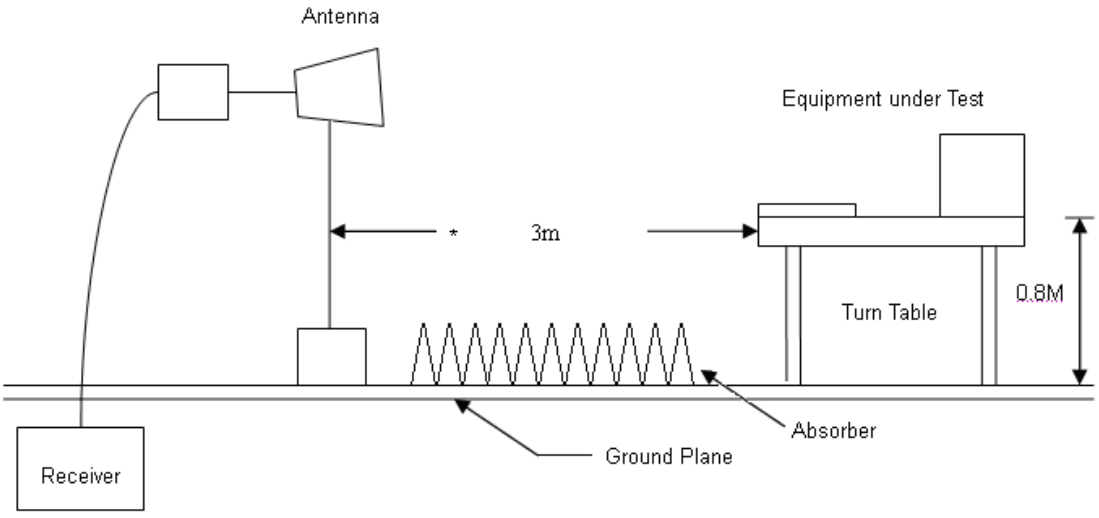
a. The EUT was placed on a Rota table top 0.8 meter above ground.
b. The EUT was set 3/10 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
c. The table was rotated 360 degrees to determine the position of the highest radiation.
d. The antenna 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.
e. 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.
f. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
g. 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



Hz Test Setup



4.4. Measurement Equipment

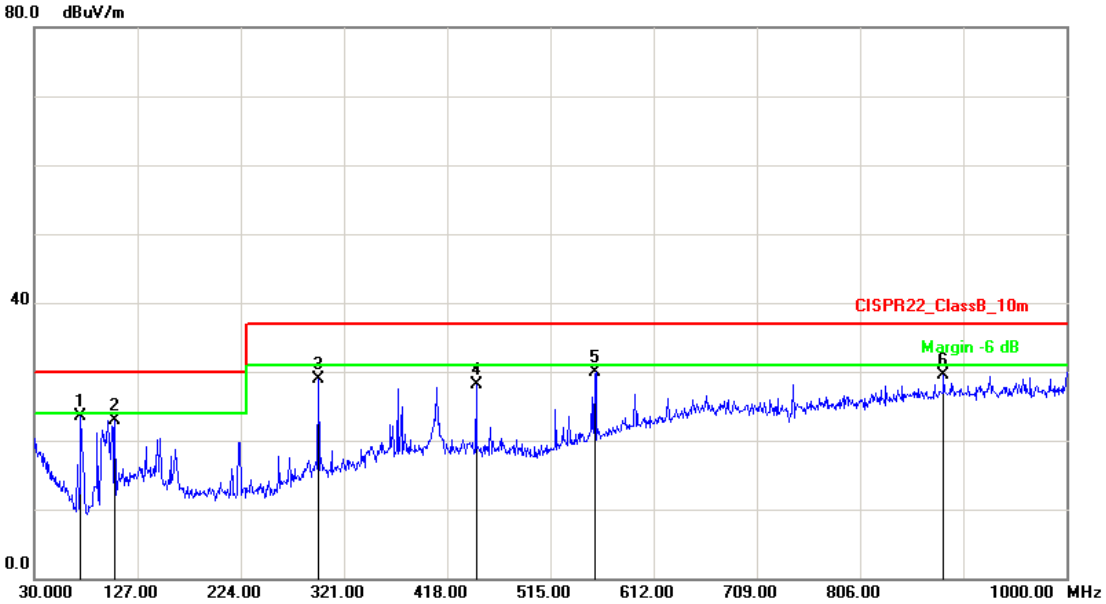
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
EMI Test Receiver	R&S	ESCI7	100968	2014.06.11	2015.06.10

Preamplifier	Agilent	87405B	My39500554	2014.03.24	2015.03.23
Preamplifier	Agilent	8449B	3008A02342	2014.03.24	2015.03.23
Bilog Antenna	Sunol Science	JB1	A072414-3	2014.08.05	2015.08.04
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2014.05.24	2015.05.23
Spectrum Analyzer	R&S	FSP40	100324	2014.03.24	2015.03.23
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-001	2014.03.31	2015.03.30
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A

4.5. Test Result and Data (30MHz~1GHz)

Test Mode :	Mode 1: Normal Operation for DH-HAC-HFW1200RMP		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Horizontal
Equipment :	HDCVI CAMERA	Model No :	DH-HAC-HFW1200RMP

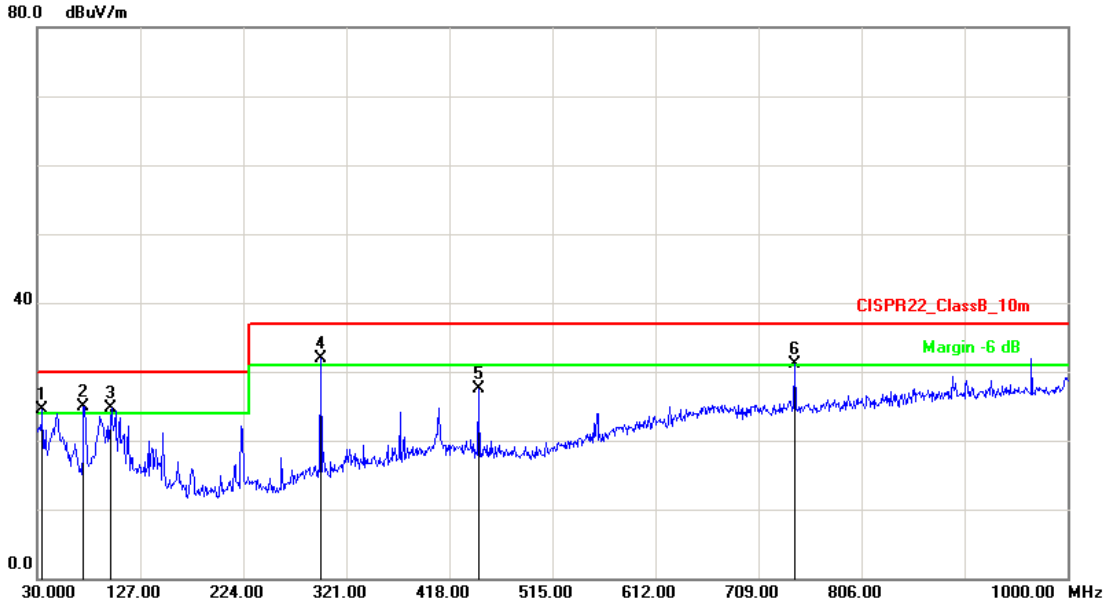
Temp :	22℃	Humidity :	53%
Pressure(mbar) :	1002	Date :	2015/03/09



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	73.6500	-15.80	39.23	23.43	30.00	-6.57	peak	400	50
2	105.6599	-11.95	34.89	22.94	30.00	-7.06	peak	101	360
3	296.7500	-9.39	38.22	28.83	37.00	-8.17	peak	400	78
4	445.1600	-5.44	33.63	28.19	37.00	-8.81	peak	100	230
5	557.6799	-3.39	33.20	29.81	37.00	-7.19	peak	100	185
6	884.5700	2.12	27.32	29.44	37.00	-7.56	peak	400	170

Note: Measurement Level = Reading Level + Correct Factor

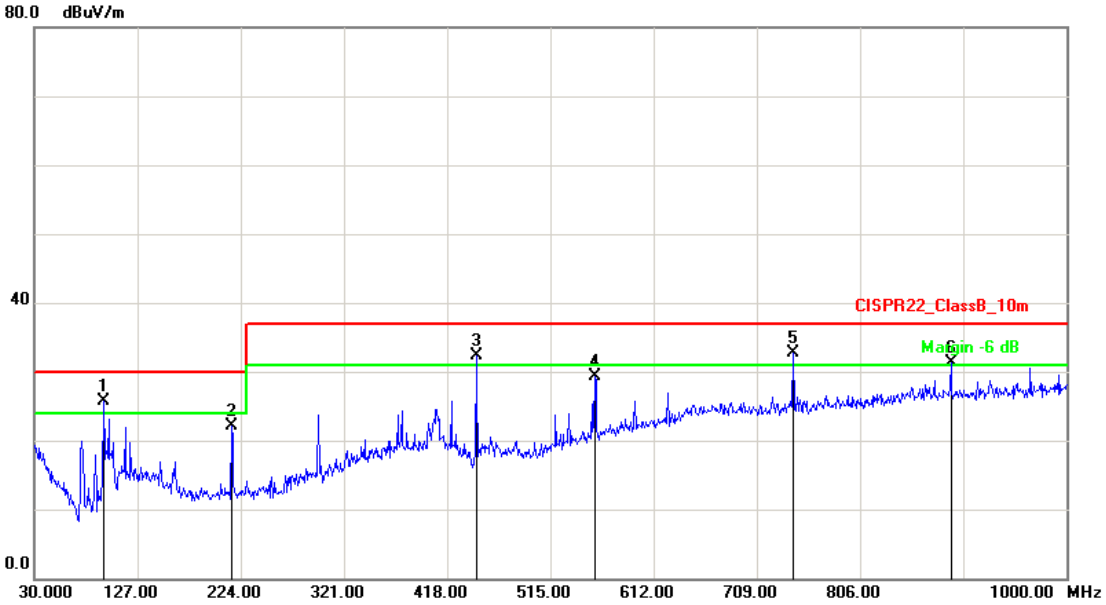
Test Mode :	Mode 1: Normal Operation for DH-HAC-HFW1200RMP		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Vertical
Equipment :	HDCVI CAMERA	Model No :	DH-HAC-HFW1200RMP
Temp :	22℃	Humidity :	53%
Pressure(mbar) :	1002	Date :	2015/03/09



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	34.8500	-6.82	31.39	24.57	30.00	-5.43	QP	100	280
2	73.6500	-15.80	40.66	24.86	30.00	-5.14	QP	100	102
3	99.8399	-12.83	37.58	24.75	30.00	-5.25	QP	100	266
4	296.7500	-9.39	41.27	31.88	37.00	-5.12	QP	100	200
5	445.1600	-5.44	33.02	27.58	37.00	-9.42	peak	100	37
6	742.9500	0.36	30.76	31.12	37.00	-5.88	QP	100	307

Note: Measurement Level = Reading Level + Correct Factor

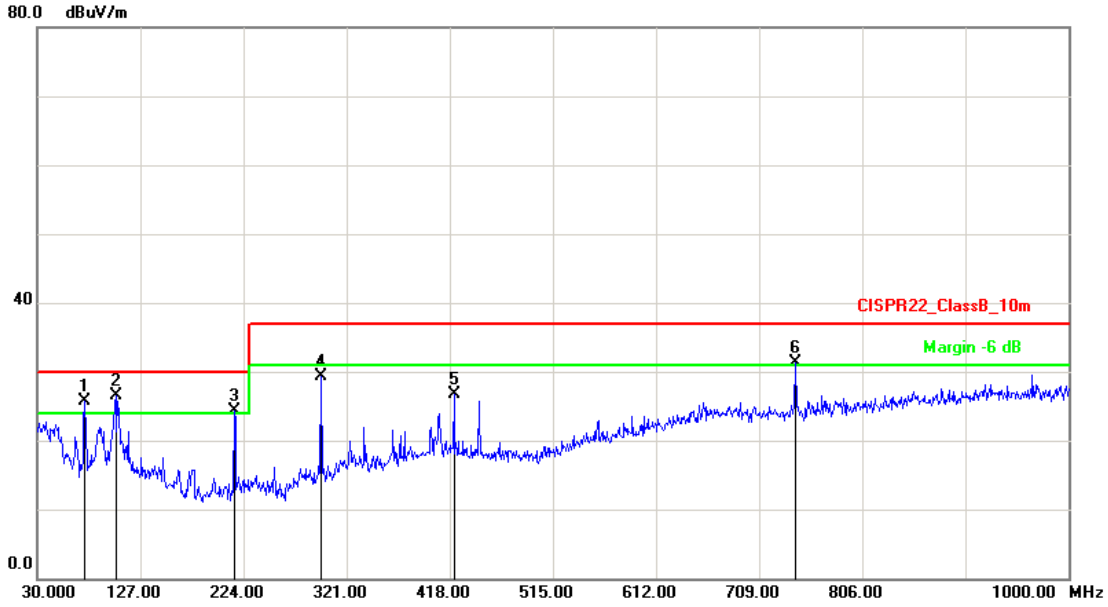
Test Mode :	Mode 2: Normal Operation for DH-HAC-HFW1200RP		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Horizontal
Equipment :	HDCVI CAMERA	Model No :	DH-HAC-HFW1200RP
Temp :	22℃	Humidity :	53%
Pressure(mbar) :	1002	Date :	2015/03/09



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	94.9899	-14.01	39.69	25.68	30.00	-4.32	QP	100	9
2	215.2700	-12.25	34.40	22.15	30.00	-7.85	peak	200	236
3	445.1600	-5.44	37.82	32.38	37.00	-4.62	QP	100	360
4	556.7100	-3.42	32.67	29.25	37.00	-7.75	peak	200	158
5	742.9500	0.36	32.35	32.71	37.00	-4.29	QP	108	85
6	891.3600	2.17	29.10	31.27	37.00	-5.73	QP	400	174

Note: Measurement Level = Reading Level + Correct Factor

Test Mode :	Mode 2: Normal Operation for DH-HAC-HFW1200RP		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Vertical
Equipment :	HDCVI CAMERA	Model No :	DH-HAC-HFW1200RP
Temp :	22℃	Humidity :	53%
Pressure(mbar) :	1002	Date :	2015/03/09



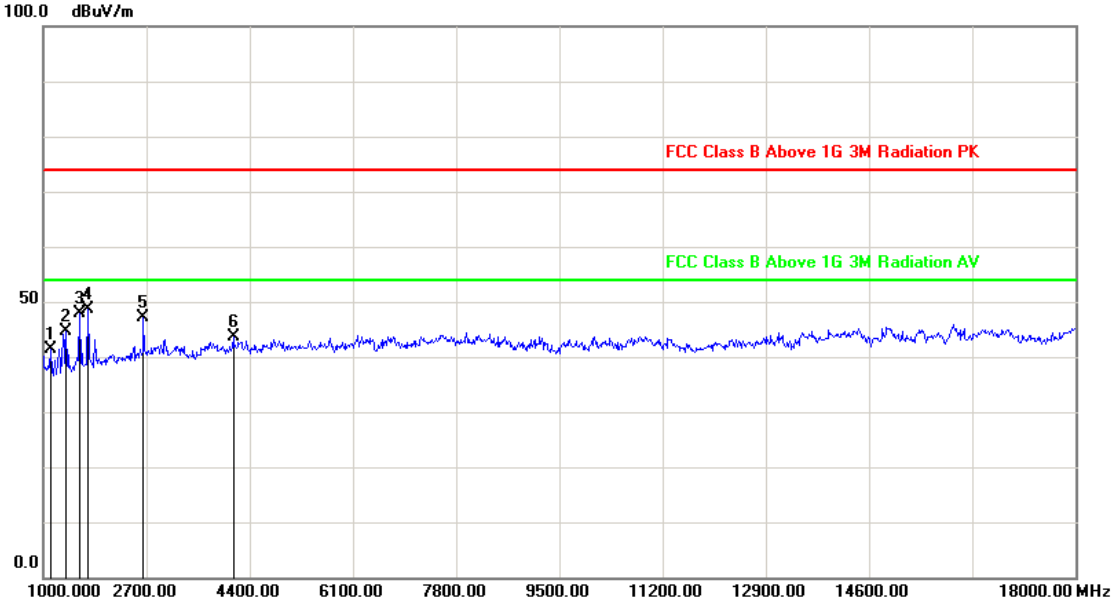
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	74.6200	-15.84	41.56	25.72	30.00	-4.28	QP	100	185
2	103.7200	-12.24	38.75	26.51	30.00	-3.49	QP	200	26
3	215.2700	-12.25	36.54	24.29	30.00	-5.71	QP	400	336
4	296.7500	-9.39	38.77	29.38	37.00	-7.62	peak	100	21
5	421.8800	-5.29	32.01	26.72	37.00	-10.28	peak	114	84
6	742.9500	0.36	30.95	31.31	37.00	-5.69	QP	200	159

Note: Measurement Level = Reading Level + Correct Factor

4.6. Test Result and Data (1GHz ~ 18GHz)

Test Mode :	Mode 1: Normal Operation for DH-HAC-HFW1200RMP		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Horizontal

Equipment :	HDCVI CAMERA	Model No :	DH-HAC-HFW1200RMP
Temp :	22℃	Humidity :	53%
Pressure(mbar) :	1002	Date :	2015/03/09

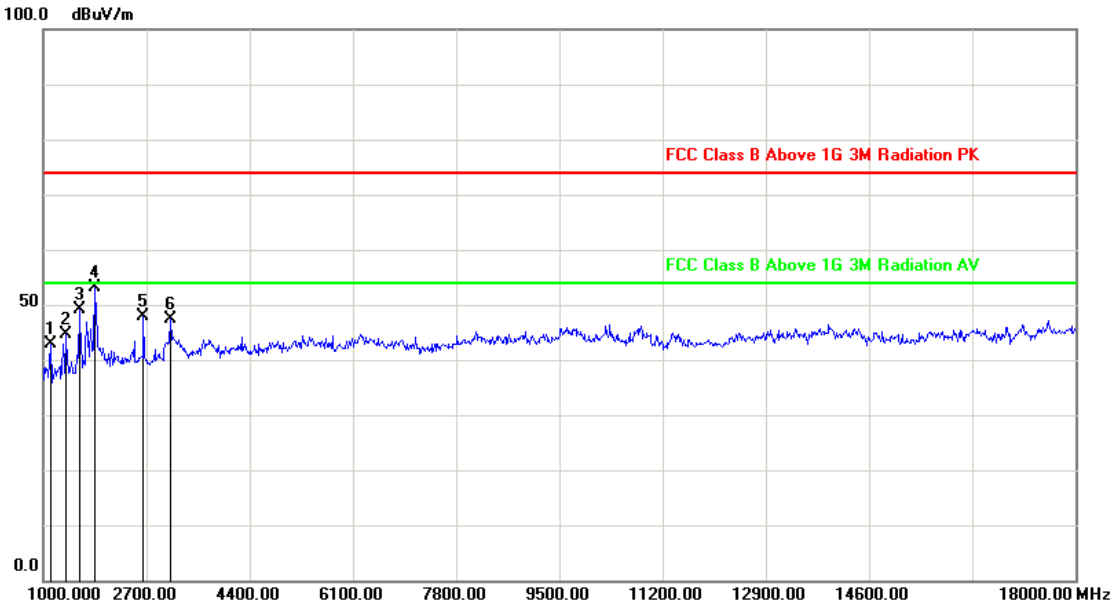


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1119.000	-6.37	47.65	41.28	74.00	-32.72	peak	200	114
2	1374.000	-5.31	49.93	44.62	74.00	-29.38	peak	100	22
3	1595.000	-4.39	52.15	47.76	74.00	-26.24	peak	100	360
4	1731.000	-3.82	52.57	48.75	74.00	-25.25	peak	200	226
5	2649.000	-0.53	47.55	47.02	74.00	-26.98	peak	200	15
6	4128.000	4.68	38.93	43.61	74.00	-30.39	peak	100	17

Note: Measurement Level = Reading Level + Correct Factor

Test Mode :	Mode 1: Normal Operation for DH-HAC-HFW1200RMP		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Vertical
Equipment :	HDCVI CAMERA	Model No :	DH-HAC-HFW1200RMP
Temp :	22℃	Humidity :	53%

Pressure(mbar) :	1002	Date :	2015/03/09

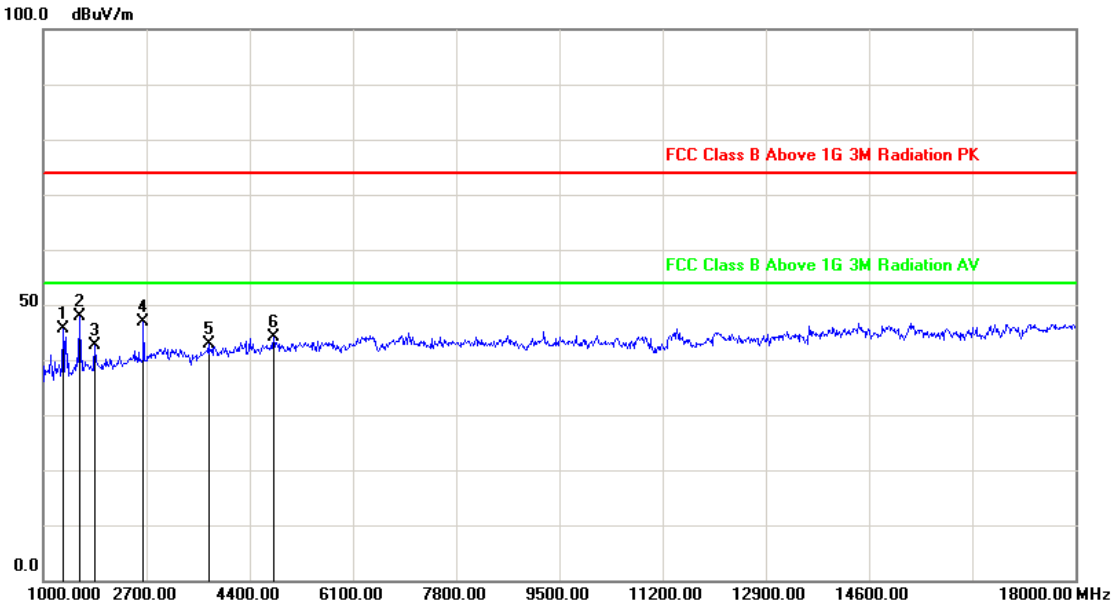


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1119.000	-6.37	49.20	42.83	74.00	-31.17	peak	100	117
2	1374.000	-5.31	49.87	44.56	74.00	-29.44	peak	200	2
3	1595.000	-4.39	53.51	49.12	74.00	-24.88	peak	100	360
4	1850.000	-3.33	56.42	53.09	74.00	-20.91	peak	100	226
5	2649.000	-0.53	48.41	47.88	74.00	-26.12	peak	200	2
6	3091.000	0.99	46.46	47.45	74.00	-26.55	peak	100	147

Note: Measurement Level = Reading Level + Correct Factor

Test Mode :	Mode 2: Normal Operation for DH-HAC-HFW1200RP		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Horizontal
Equipment :	HDCVI CAMERA	Model No :	DH-HAC-HFW1200RP
Temp :	22℃	Humidity :	53%

Pressure(mbar) :	1002	Date :	2015/03/09

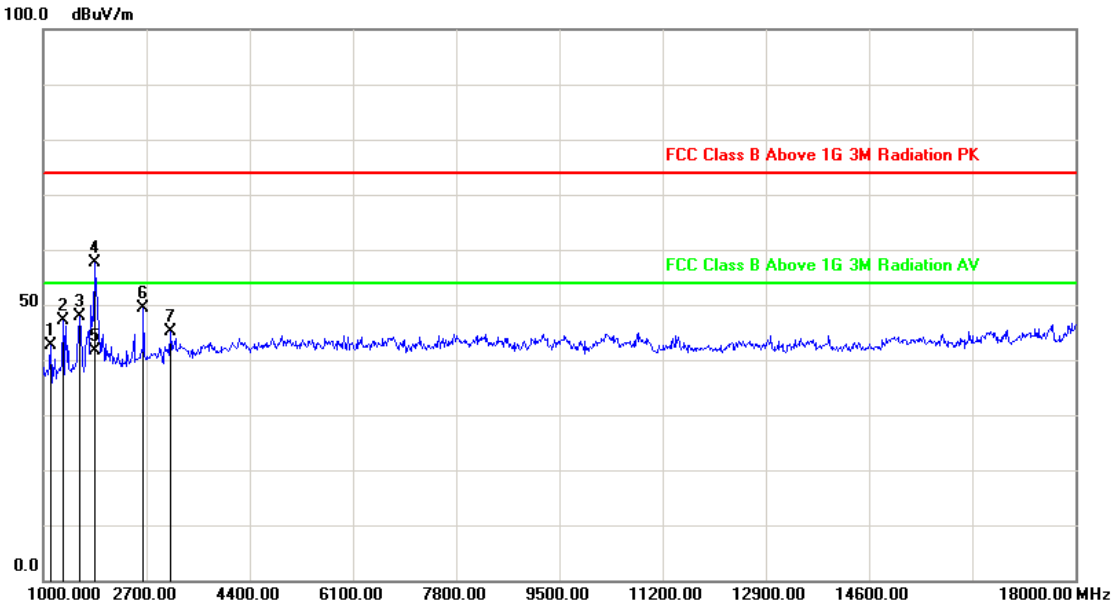


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1323.000	-5.52	51.05	45.53	74.00	-28.47	peak	100	114
2	1595.000	-4.39	52.33	47.94	74.00	-26.06	peak	100	360
3	1850.000	-3.33	45.91	42.58	74.00	-31.42	peak	100	22
4	2649.000	-0.53	47.42	46.89	74.00	-27.11	peak	200	226
5	3720.000	3.32	39.66	42.98	74.00	-31.02	peak	110	82
6	4791.000	6.33	37.90	44.23	74.00	-29.77	peak	200	147

Note: Measurement Level = Reading Level + Correct Factor

Test Mode :	Mode 2: Normal Operation for DH-HAC-HFW1200RP		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Vertical
Equipment :	HDCVI CAMERA	Model No :	DH-HAC-HFW1200RP
Temp :	22℃	Humidity :	53%

Pressure(mbar) :	1002	Date :	2015/03/09



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1119.000	-6.37	48.97	42.60	74.00	-31.40	peak	100	287
2	1323.000	-5.52	52.63	47.11	74.00	-26.89	peak	200	2
3	1595.000	-4.39	52.20	47.81	74.00	-26.19	peak	200	11
4	1850.000	-3.33	60.92	57.59	74.00	-16.41	peak	100	226
5	1850.000	-3.33	44.91	41.58	54.00	-12.42	AVG	100	360
6	2649.000	-0.53	49.90	49.37	74.00	-24.63	peak	200	15
7	3091.000	0.99	44.13	45.12	74.00	-28.88	peak	100	174

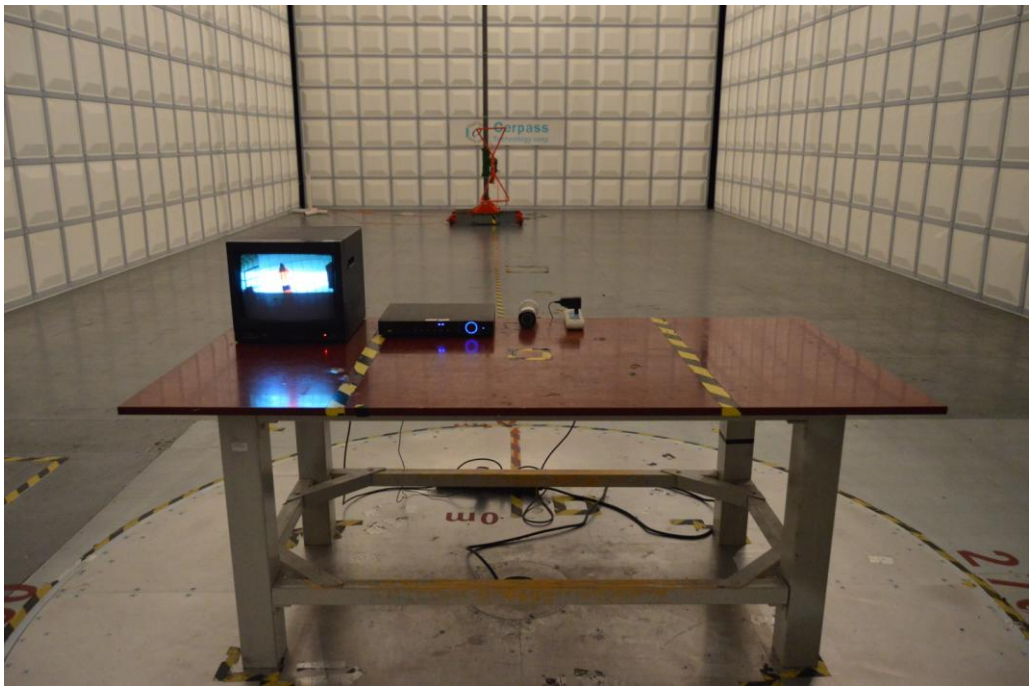
Note: Measurement Level = Reading Level + Correct Factor

Test engineer:_____

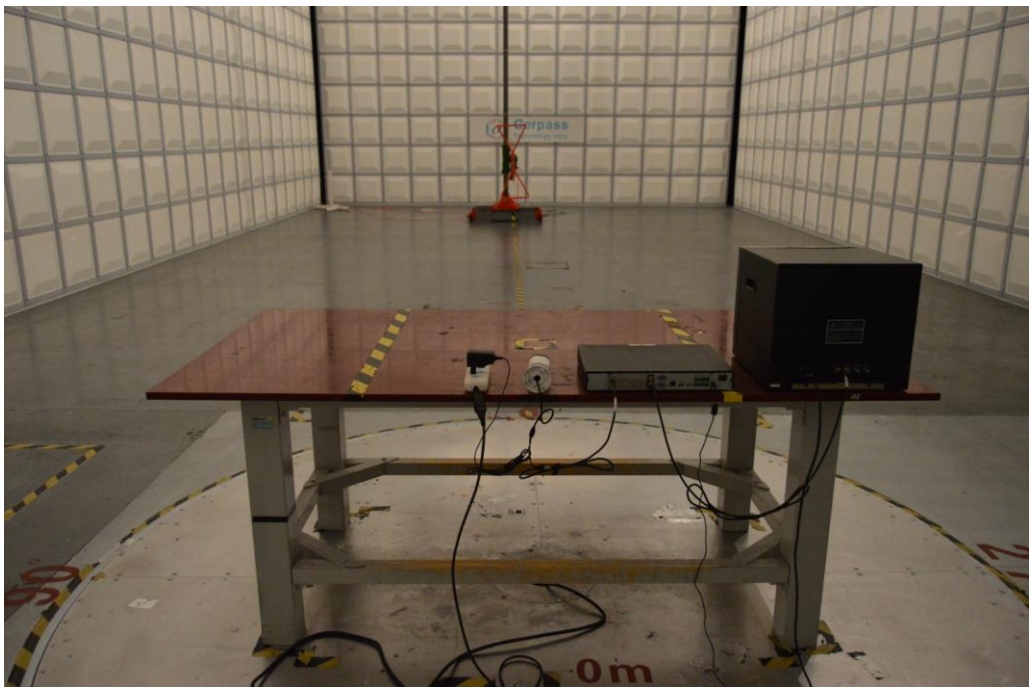
4.7. Test Photographs (30MHz ~ 1GHz)

DH-HAC-HFW1200RMP

Front View

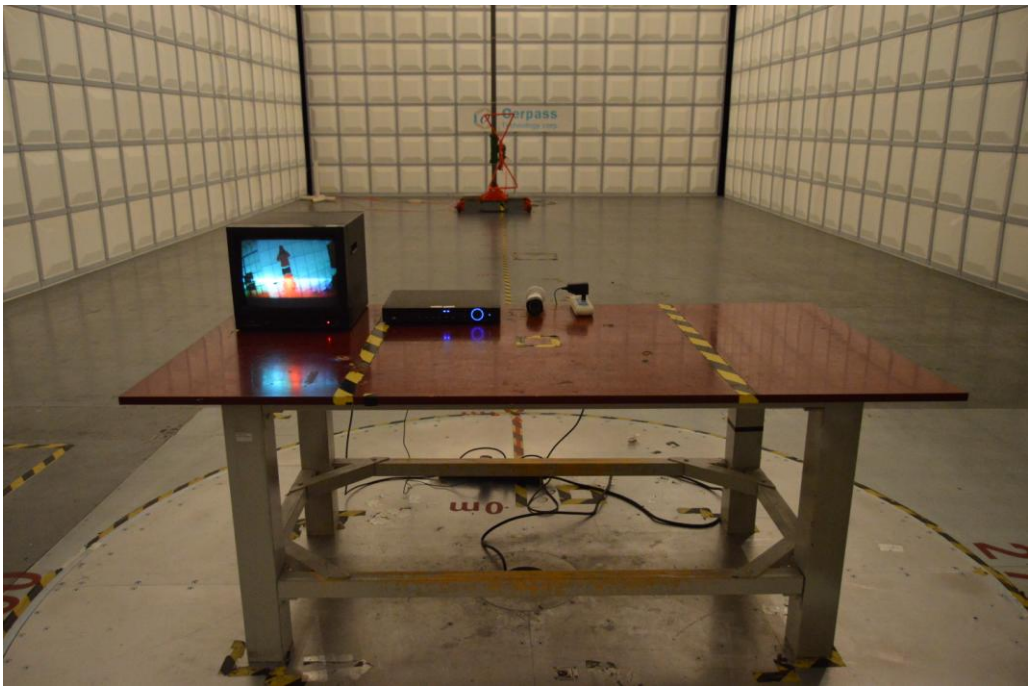


Rear View

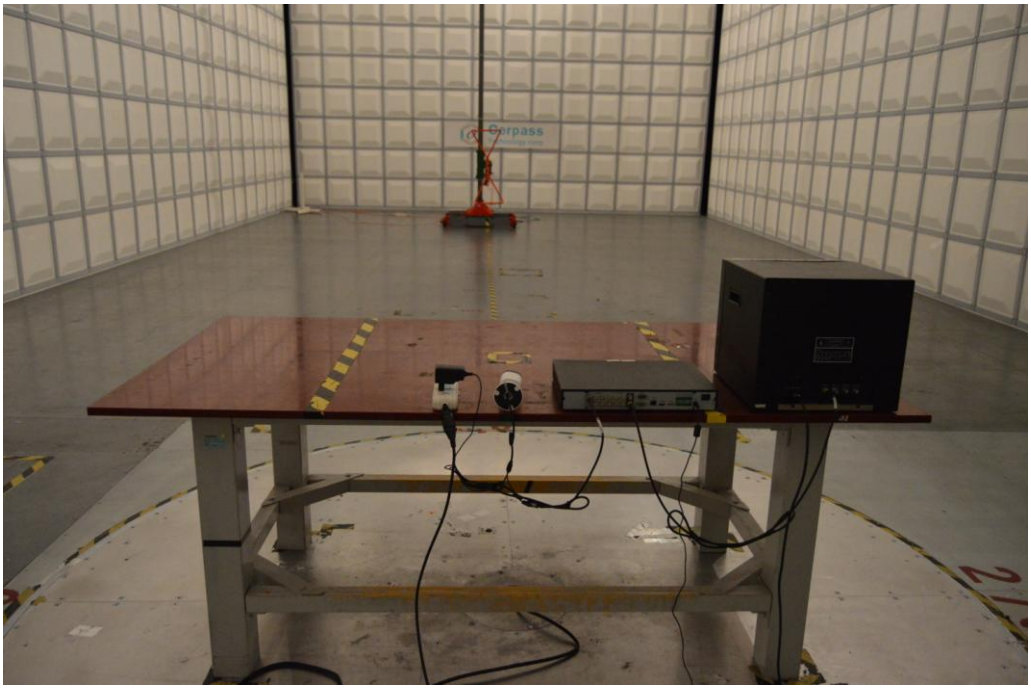


DH-HAC-HFW1200RP

Front View



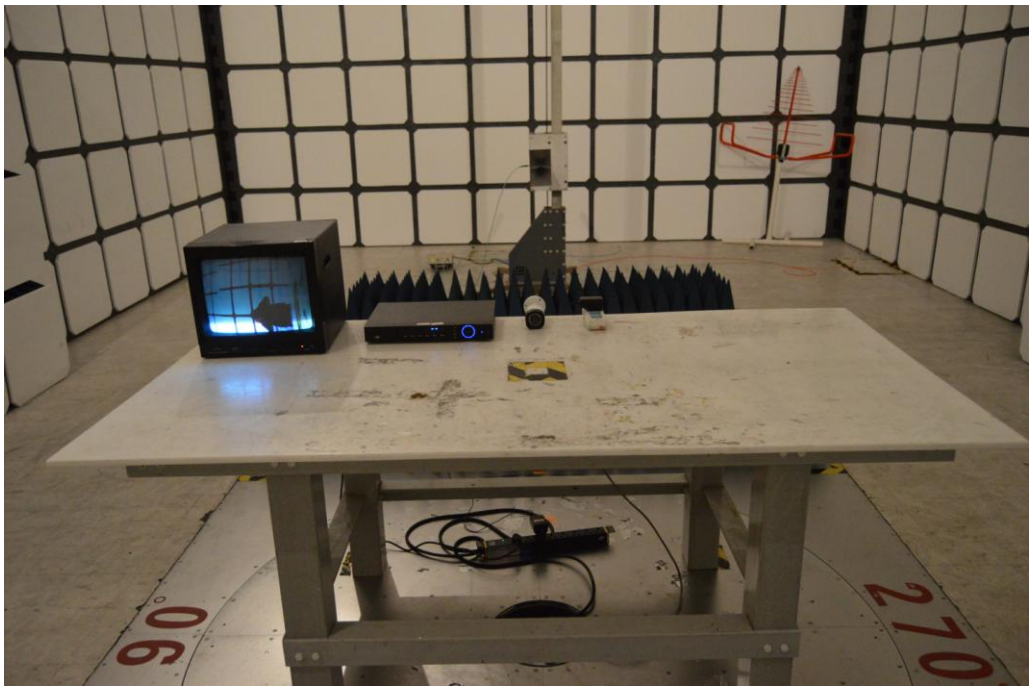
Rear View



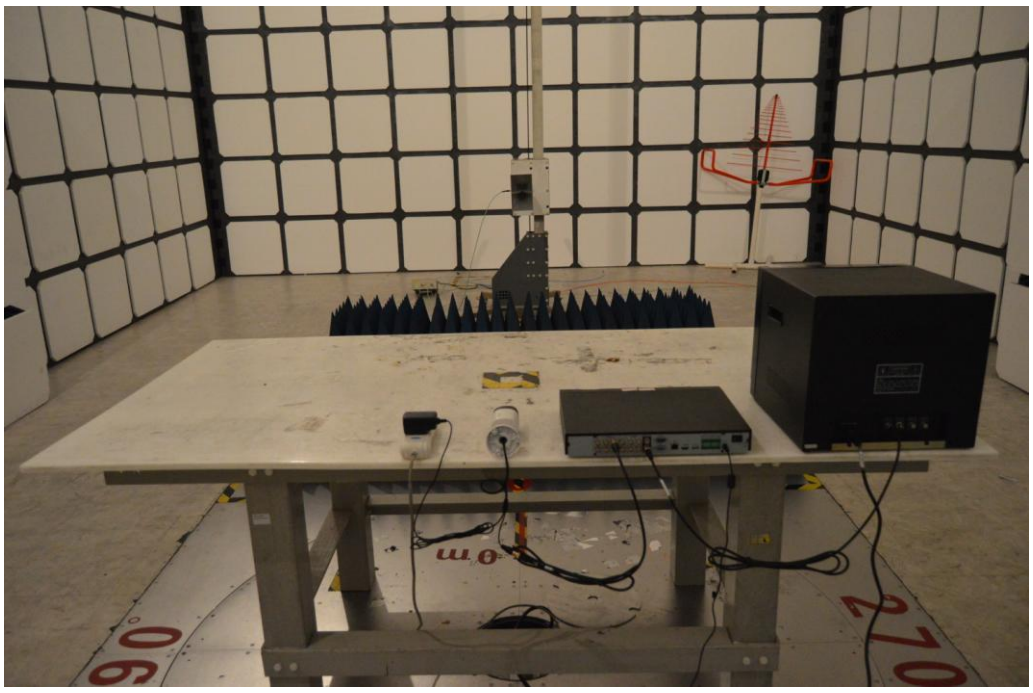
4.8. Test Photographs (1GHz ~ 18GHz)

DH-HAC-HFW1200RMP

Front View

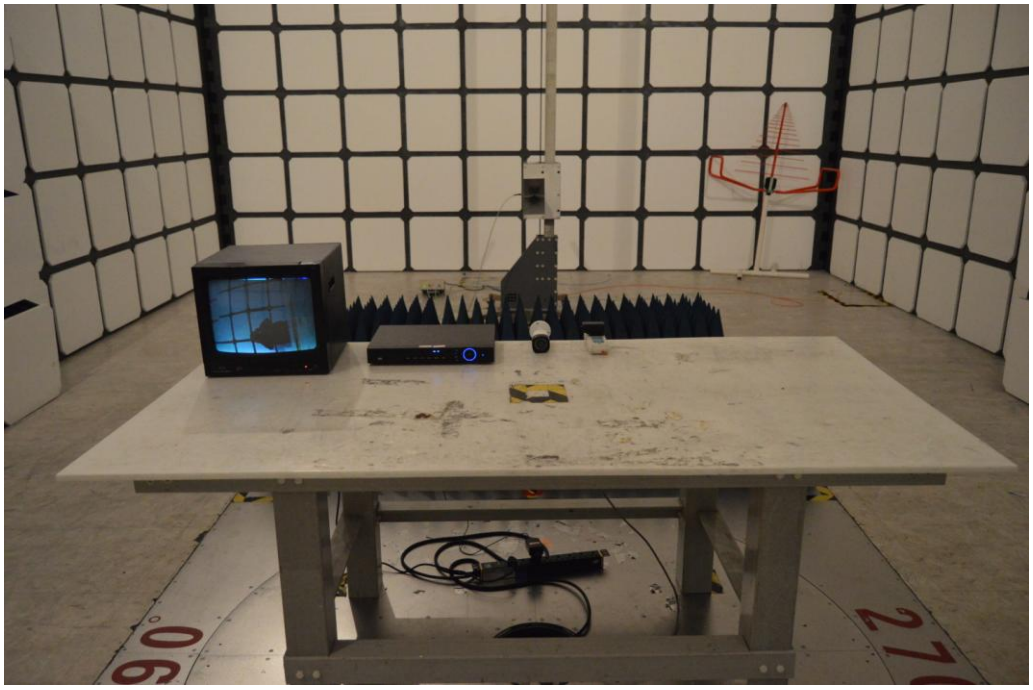


Rear View

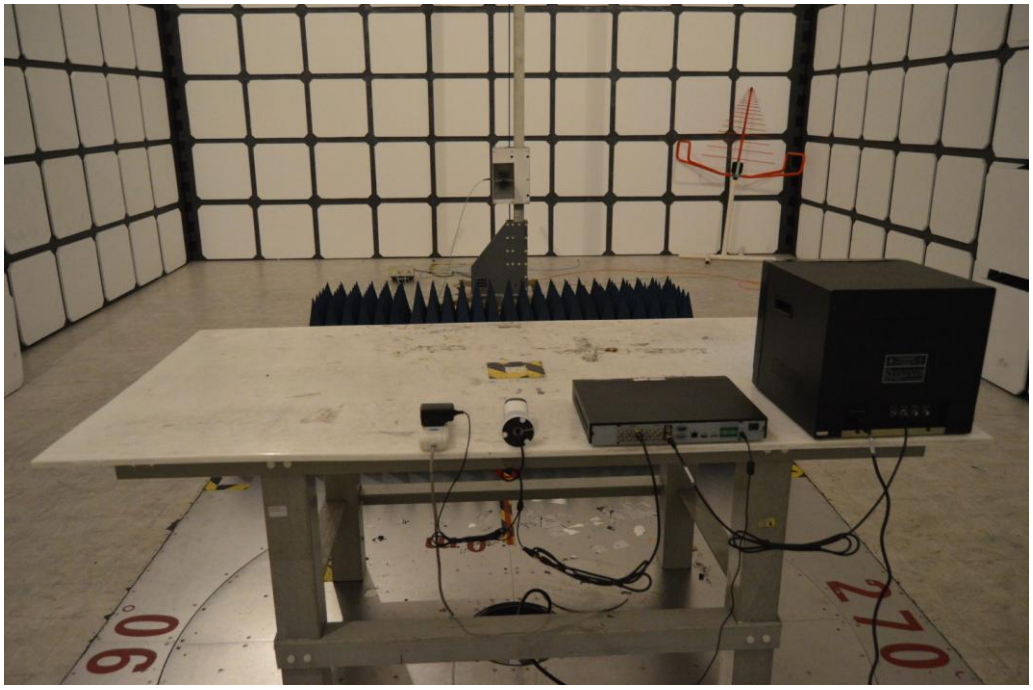


DH-HAC-HFW1200RP

Front View



Rear View

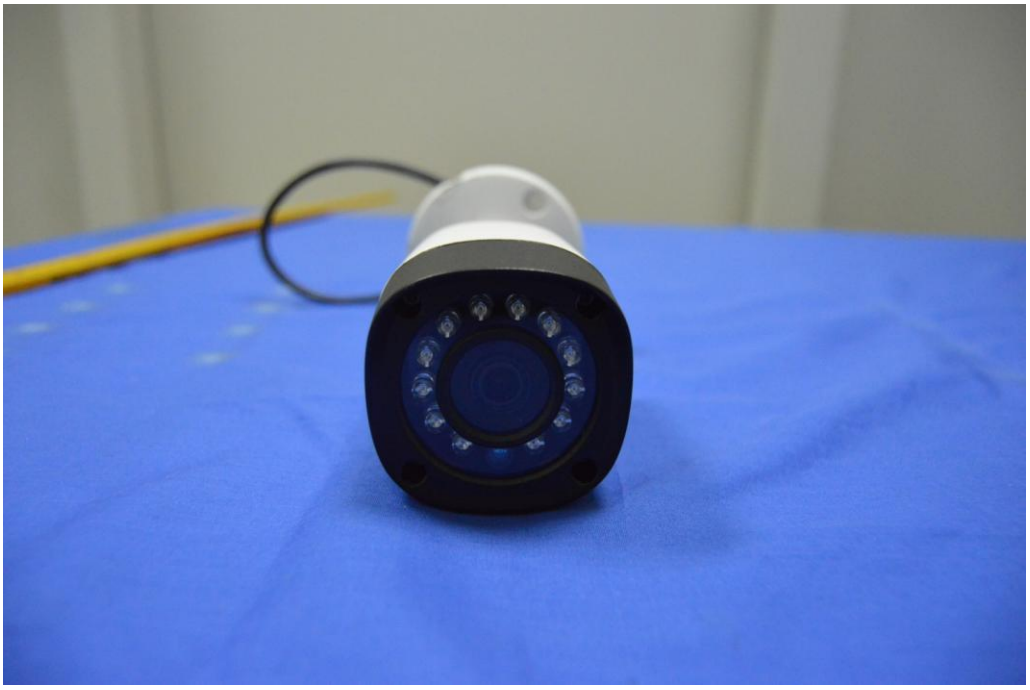


5. Photographs of EUT

1) EUT Photo(DH-HAC-HFW1200RMP)

2) EUT Photo(DH-HAC-HFW1200RMP)

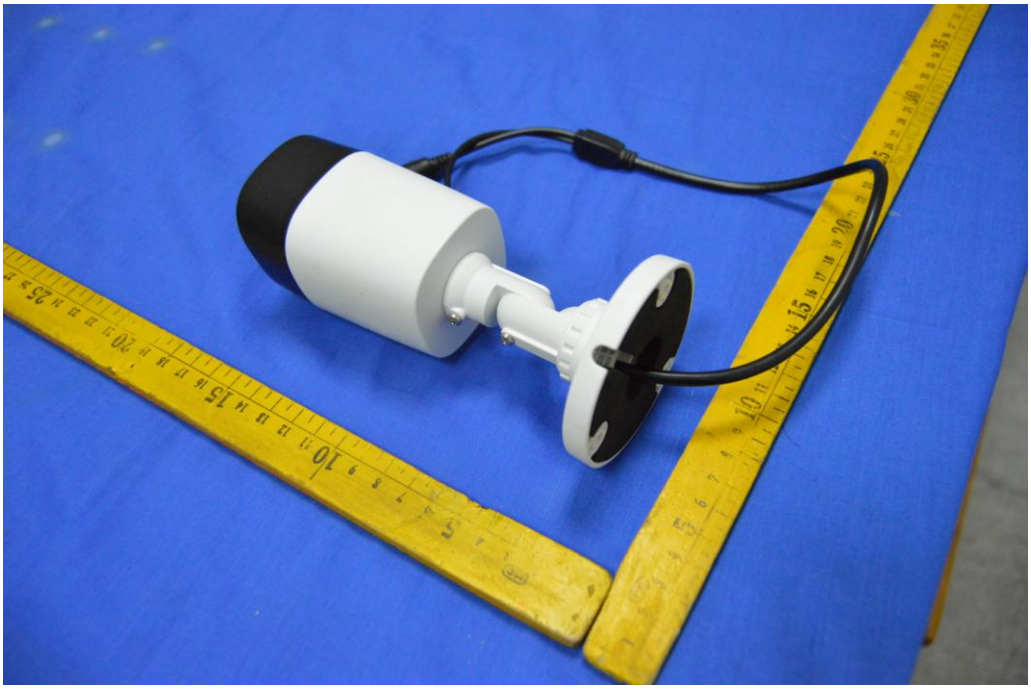
3) EUT Photo(DH-HAC-HFW1200RMP)



4) EUT Photo(DH-HAC-HFW1200RMP)

5) EUT Photo(DH-HAC-HFW1200RMP)

6) EUT Photo(DH-HAC-HFW1200RP)



7) EUT Photo(DH-HAC-HFW1200RP)

8) EUT Photo(DH-HAC-HFW1200RP)

9) EUT Photo(DH-HAC-HFW1200RP)

10) EUT Photo(DH-HAC-HFW1200RP)