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Report No.: SHEM180700604701

Page: 1 of 23

TEST REPORT

Application No.: SHEM1807006047IT
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: 1, ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.
2, ZHEJIANG DAHUA ZHILIAN CO.,LTD.
Address of Factory: 1, No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
2, No.28, Dongqiao Road, Dongzhou Street, Fuyang District, Hangzhou, P.R. China.

Equipment Under Test (EUT):

EUT Name: Digital Video Recorder

Model No.: Refer to page 2;□

□

Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade mark:



Standard(s) : 47 CFR Part 15, Subpart B

Date of Receipt: 2018-03-20

Date of Test: 2018-03-21 to 2018-03-28

Date of Issue: 2018-08-03

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



Parlam Zhan
E&E Section Manager

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 International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Model No.:

DH-XVR5108HE-X, DH-XVR5108HS-X, XVR5108HS-X, DH-XVR5104HS-4KL-X, XVR5104HS-4KL-X, DH-HCVR5108HS-V5, DH-HCVR7104HS-V5, DH-XVR5104HS-X, DH-XVR5104H-X, DH-XVR4104HS-X, DH-XVR4108HS-X, DH-XVR5108HS-4KL-X, XVR5108HS-4KL-X, DH-HCVR7108HS-V5, DH-XVR5108H-4KL-X, XVR5108H-4KL-X, DH-XVR7108HE-4KL-X, XVR7108HE-4KL-X, DH-HCVR7104H-4M-V5, DH-XVR5116H-X, XVR5116H-X, DH-XVR5116HE-X, XVR5116HE-X, X51A3E, X51A3E1, X51A3E2, DH-XVR4116HS-X, XVR4116HS-X, DH-XVR7108HE-4K-X, XVR7108HE-4K-X, DH-HCVR7108H-4M-V5, XVR5104HS-X, XVR4104HS-X, XVR4108HS-X, DH-XVR5108H-X, XVR5108H-X, DH-XVR5104H-4KL-X, XVR5104H-4KL-X, XVR5108HE-X, DH-XVR7104HE-4KL-X, XVR7104HE-4KL-X, X51A2E, X51A2E1, X51A2E2, DH-XVR5104HE-X, X51A1E, X51A1E1, X51A1E2, XVR5104H-X, XVR5104HE-X, DH-XVR5116HS-X, XVR5116HS-X, DH-HCVR5116HS-V5, DH-XVR1B16, XVR1B16, DH-XVR1B16H, XVR1B16H, X51A1HX, X71A1HX, X51A1H, X51A1H1, X51A1H2, X51A1H3, X71A1H, X71A1H1, X71A1H2, X71A1H3



Revision Record			
Version	Description	Date	Remark
00	Add models and update the report and add models	2018-08-03	Based on SHEM180300200401

Authorized for issue by:			
			
		<hr/>	
		Bruce Tang /Project Engineer	
			
		<hr/>	
		Zenger Zhang /Reviewer	

2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4	Class A	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4	Class A	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4	Class A	Pass

InternalSource	UpperFrequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5 th harmonic of the highest frequency or 40GHz, whichever is lower

Note1: Declaration of EUT Family Grouping:

There are series models mentioned in this report and they are the similar in electrical and electronic characters. Only the model DH-XVR5108HE-X was tested since their differences are software functions and customers.

Note2: We add some models (refer to page 2) in this report. The new models added in this report are the same Electronic or Electrical characters as the models in the report SHEM180300200401, so the new models in this report are deemed to fulfil the EMC requirements without testing.

Note3: The report is copied from SHEM180300200401 to update the report.

Note4: We add some models (refer to page 2) in this report. The new models added in this report are the same Electronic or Electrical characters as the models in the report SHEM180300200401, so the new models in this report are deemed to fulfill the EMC requirements without testing.



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4 General Information

4.1 Details of E.U.T.

Power supply: DC12V
Adapter : ADS-25FSG-12 12024GPG ,
input : AC100-240V 50/60Hz , output : DC12V
Cable: DC output cable for adapter : about 1.5m

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC Adapter	HOIOTO	ADS-25FSG-12	/
Hard disk	WD	WD30PURX	/
Headset	HYUNDAI	HY-R362	/
Laptop	LENOVO	X100e	/
Monitor	DELL	ST2220Lb	/
Network Camera	/	DS-2CD893PF-E	/
USB Disk	SanDisk	Cruzer Blade 8GB	/
USB Mouse	3D Optical Mouse	--	/

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Emission at mains port using AMN	3.2dB (9kHz to 150kHz)
		3.0dB (150kHz to 30MHz)
2	Conducted Emission at mains port using VP	1.9 dB(9kHz to 30MHz)
3	Conducted Emission at telecommunication port using AAN	2.4 dB(150kHz to 30MHz)
4	Radiated Power	3.5dB
5	Radiated emission	4.4dB (30MHz-1GHz)
		4.6dB (1GHz-6GHz)

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

4.5 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **NVLAP (Certificate No. 201034-0)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

- **FCC –Designation Number: CN5033**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868,C-14336,T-12221,G-10830 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESR7	SHEM162-1	2017-12-20	2018-12-19
Line impedance stabilization network	SCHWARZBECK	NSLK8127	SHEM061-1	2017-12-20	2018-12-19
Line impedance stabilization network	EMCO	3816/2	SHEM019-1	2017-12-20	2018-12-19
Pulse limiter	Rohde & Schwarz	ESH3-Z2	SHEM029-1	2017-12-20	2018-12-19
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2017-12-20	2018-12-19
CE test Cable	/	/	CE01	2017-12-26	2018-12-25

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2017-09-26	2018-09-25
CONTROLLER	INNCO	CO200	SHEM047-1	N/A	N/A
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A
Broadband UHF-VHF ANTENNA	SCHWARZBECK	VULB9168	SHEM048-1	2017-02-28	2020-02-27
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2018-07-21
Low Amplifier	CLAVIIO	BDLNA-0001-412010	SHEM164-1	2017-08-22	2018-08-21

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2017-09-26	2018-09-25
CONTROLLER	INNCO	CO200	SHEM047-1	N/A	N/A
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A
Double ridged broadband horn ANTENNA	SCHWARZBECK	BBHA9120D	SHEM050-1	2017-01-14	2020-01-13
High-amplifier	SCHWARZBECK	SCU-F0118-G40-BZ4-CS	SHEM050-2	2017-12-20	2018-12-19
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2018-07-21

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Digital pressure meter	YONGZHI	DYM3-01	SHEM082-1	2018-01-25	2019-01-24
Temperature&humidity recorder	ShangHai weather meter work	ZJ 1-2B	SHEM042-1~6	2017-09-13	2018-09-12
Digital Multimeter	FLUKE	17B	SHEM043-3	2017-09-11	2018-09-10
Autoformer regulator	Guangzhou bao de	TDGC2-5KVA	SHEM150-1	N/A	N/A
Multi-purpose tong tester	FLUKE	316	SHEM001-1	2017-12-20	2018-12-19

6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	79dB(μV) quasi-peak, 66dB(μV) average
0.5M-30MHz	73dB(μV) quasi-peak, 60dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

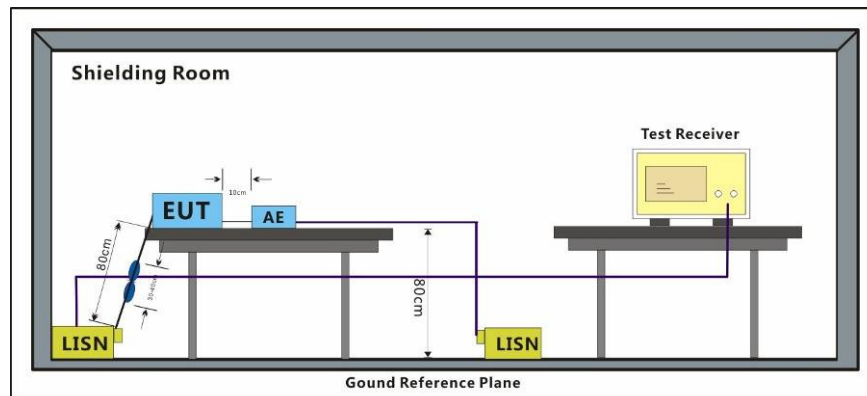
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode a: keep EUT monitoring and data running continual .

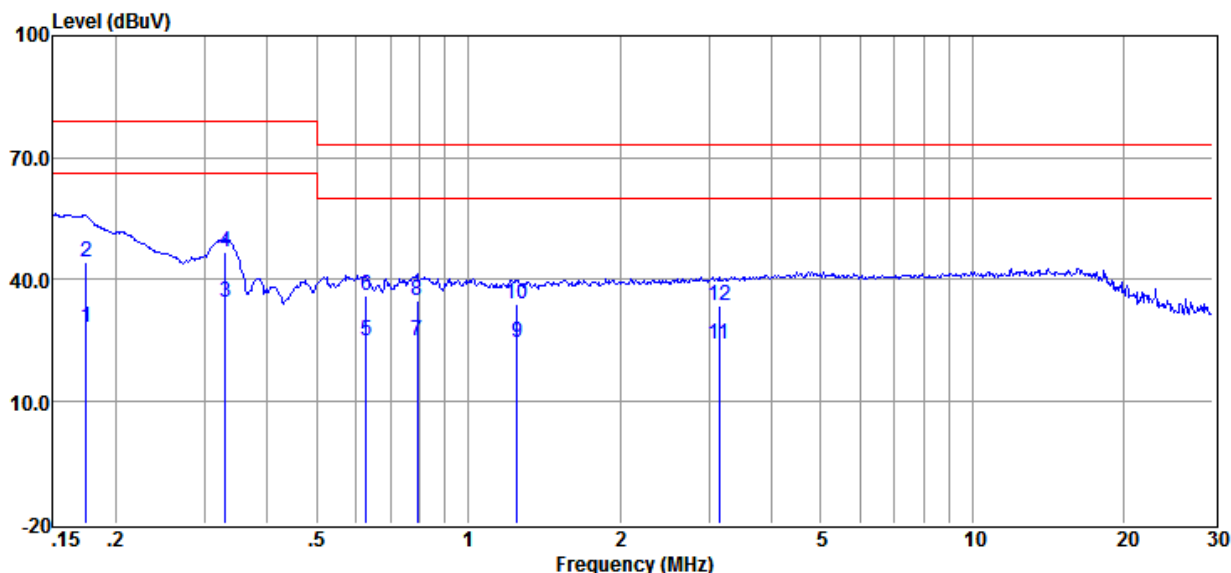
6.1.2 Test Setup Diagram



6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

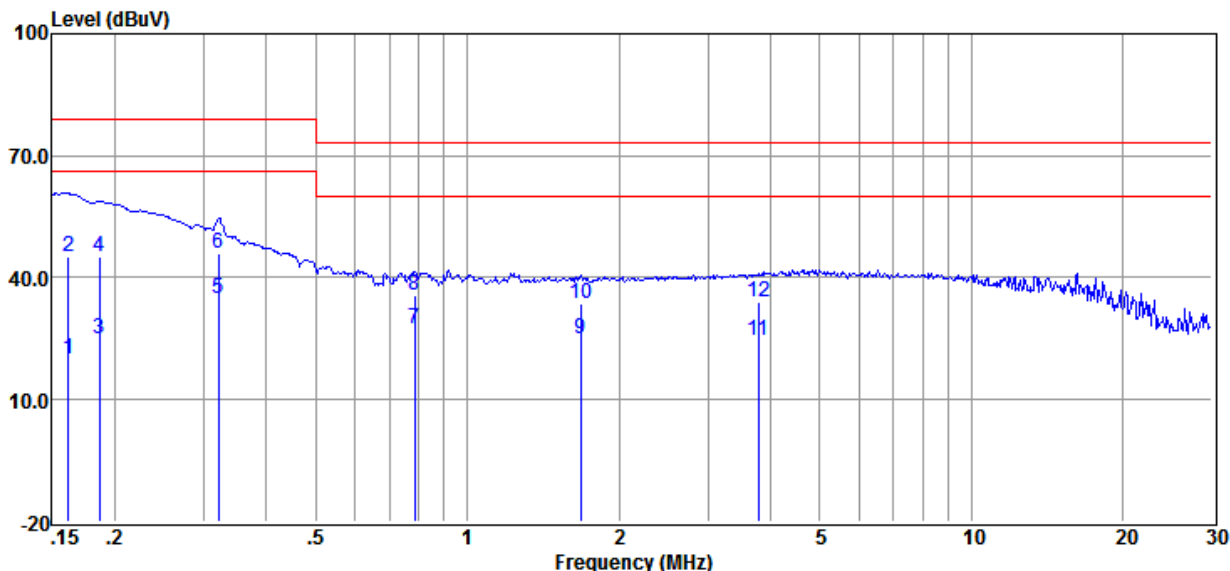
Mode:a; Line:Live Line



Item	Freq.	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)	
1	0.175	18.25	0.05	9.83	28.13	66.00	-37.87	Average
2	0.175	34.41	0.05	9.83	44.29	79.00	-34.71	QP
3	0.330	24.58	0.05	9.84	34.47	66.00	-31.53	Average
4	0.330	36.83	0.05	9.84	46.72	79.00	-32.28	QP
5	0.627	15.11	0.04	9.80	24.95	60.00	-35.05	Average
6	0.627	26.07	0.04	9.80	35.91	73.00	-37.09	QP
7	0.792	15.19	0.04	9.87	25.10	60.00	-34.90	Average
8	0.792	25.00	0.04	9.87	34.91	73.00	-38.09	QP
9	1.249	14.72	0.05	9.80	24.57	60.00	-35.43	Average
10	1.249	24.32	0.05	9.80	34.17	73.00	-38.83	QP
11	3.140	14.25	0.06	9.86	24.17	60.00	-35.83	Average
12	3.140	23.79	0.06	9.86	33.71	73.00	-39.29	QP

Notes: Emission Level=Read Level + LISN Factor + Cable Loss

Mode:a; Line:Neutral Line



Item	Freq.	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)	
1	0.162	10.08	0.06	9.82	19.96	66.00	-46.04	Average
2	0.162	35.17	0.06	9.82	45.05	79.00	-33.95	QP
3	0.186	14.96	0.06	9.83	24.85	66.00	-41.15	Average
4	0.186	35.41	0.06	9.83	45.30	79.00	-33.70	QP
5	0.322	25.07	0.05	9.84	34.96	66.00	-31.04	Average
6	0.322	36.17	0.05	9.84	46.06	79.00	-32.94	QP
7	0.788	17.51	0.05	9.87	27.43	60.00	-32.57	Average
8	0.788	25.86	0.05	9.87	35.78	73.00	-37.22	QP
9	1.680	14.89	0.06	9.87	24.82	60.00	-35.18	Average
10	1.680	23.61	0.06	9.87	33.54	73.00	-39.46	QP
11	3.779	14.42	0.07	9.93	24.42	60.00	-35.58	Average
12	3.779	24.03	0.07	9.93	34.03	73.00	-38.97	QP

Notes: Emission Level=Read Level + LISN Factor + Cable Loss

6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4

Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

Limit:

30MHz -88MHz 49.5(dBμV/m) quasi-peak

88MHz-216MHz 54.0(dBμV/m) quasi-peak

216MHz-960MHz 56.9(dBμV/m) quasi-peak

960MHz-1000MHz 60.0(dBμV/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

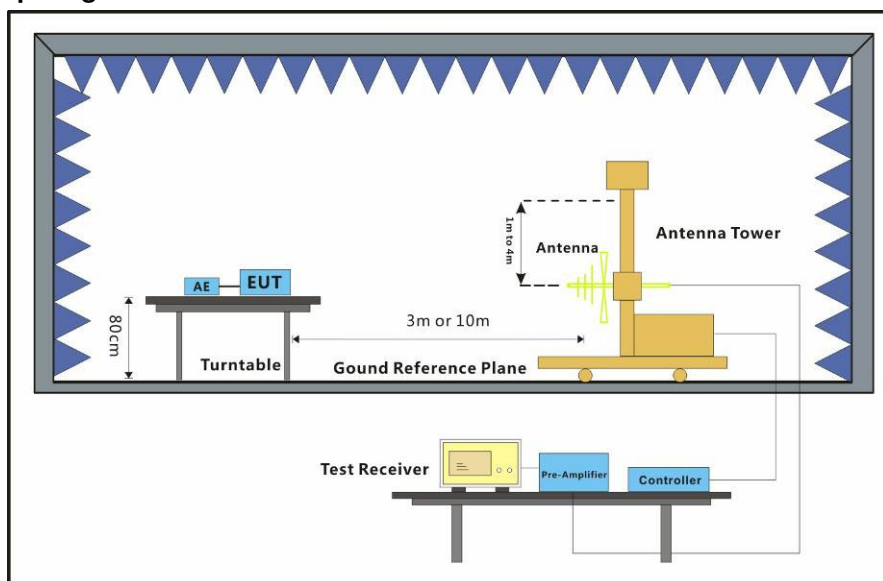
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a: keep EUT monitoring and data running continual .

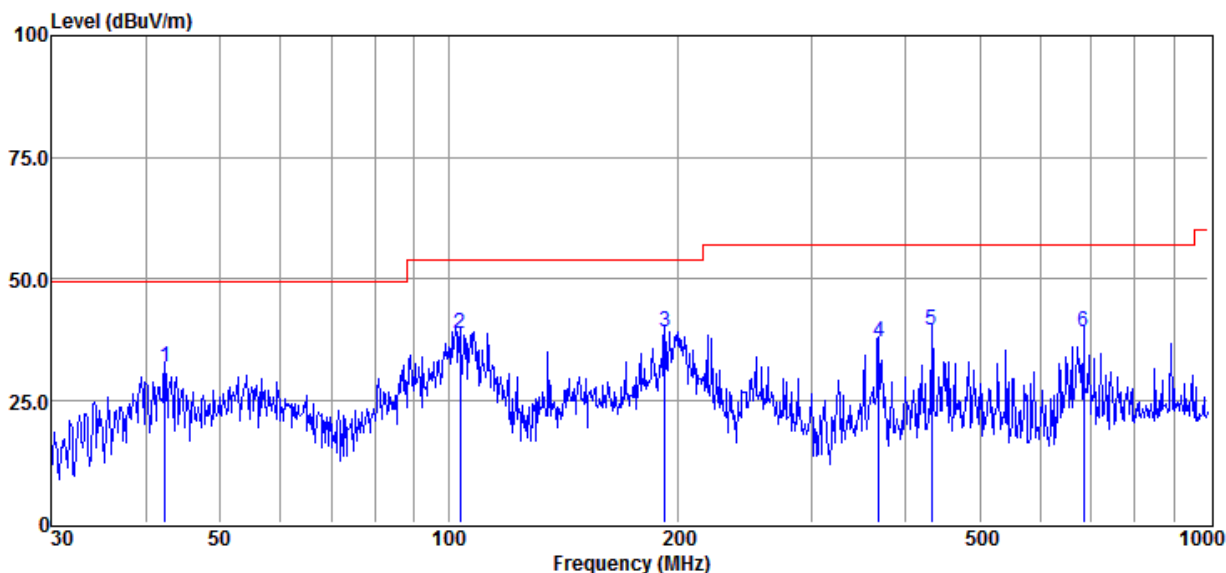
6.2.2 Test Setup Diagram



6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

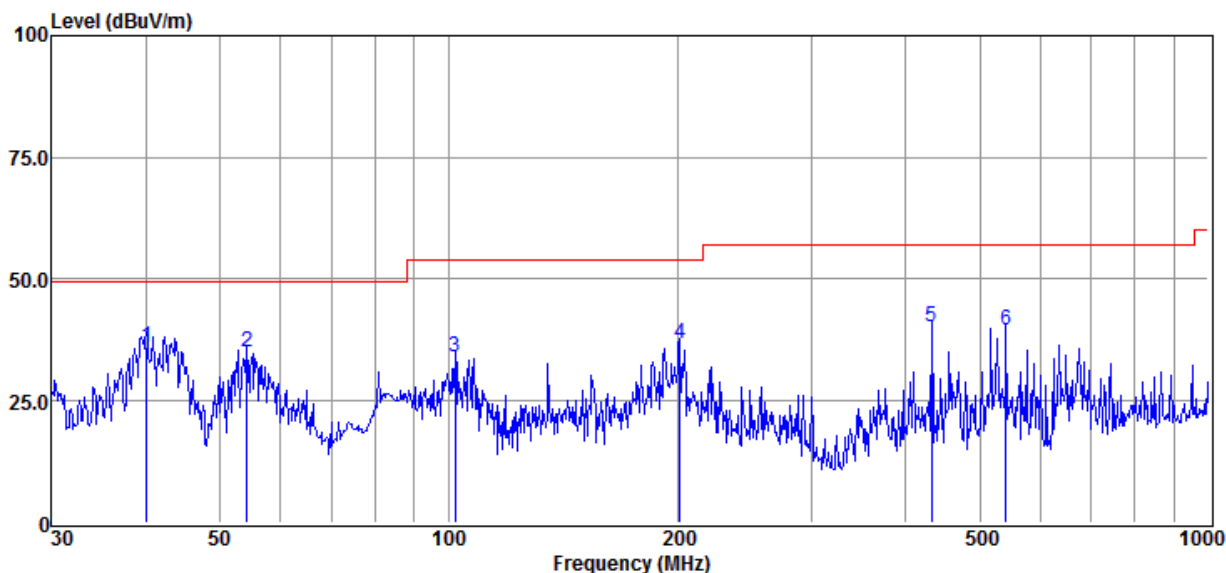
Mode:a; Polarization:Horizontal



Item	Freq.	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1	42.30	59.42	14.88	42.63	0.23	31.90	49.50	-17.60	QP
2	103.44	71.61	9.54	42.69	0.47	38.93	54.00	-15.07	QP
3	192.42	71.02	10.06	42.54	0.68	39.22	54.00	-14.78	QP
4	368.11	63.92	14.54	42.18	0.94	37.22	56.90	-19.68	QP
5	432.55	64.87	15.83	42.11	1.06	39.65	56.90	-17.25	QP
6	684.75	59.91	20.09	42.36	1.65	39.29	56.90	-17.61	QP

Notes: Emission Level=Read Level + Antenna Factor + Cable Loss – Preamplifier Factor

Mode:a; Polarization:Vertical



Item	Freq.	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1	39.99	62.19	16.30	42.62	0.22	36.09	49.50	-13.41	QP
2	54.26	66.11	11.48	42.65	0.28	35.22	49.50	-14.28	QP
3	102.00	66.71	9.52	42.69	0.46	34.00	54.00	-20.00	QP
4	201.39	69.25	9.47	42.52	0.69	36.89	54.00	-17.11	QP
5	432.55	65.34	15.83	42.11	1.06	40.12	56.90	-16.78	QP
6	541.37	62.17	18.17	42.16	1.25	39.43	56.90	-17.47	QP

Notes: Emission Level=Read Level + Antenna Factor + Cable Loss – Preamplifier Factor

6.3 Radiated Emissions (above 1GHz)

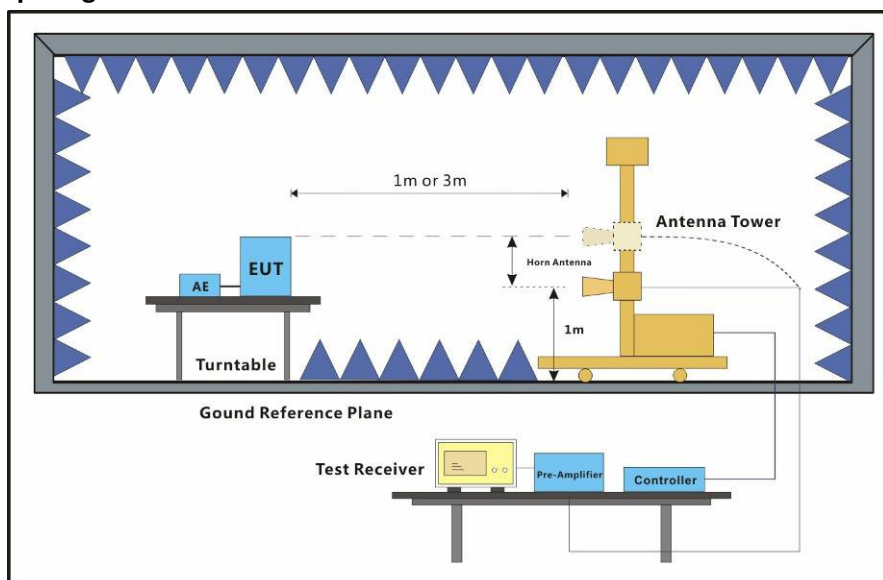
Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4
Frequency Range:	Above 1GHz
Measurement Distance:	3m
Limit:	
Above 1GHz	80(dBμV/m) peak, 60(dBμV/m) average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 18000MHz

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar
Test mode a: keep EUT monitoring and data running continual .

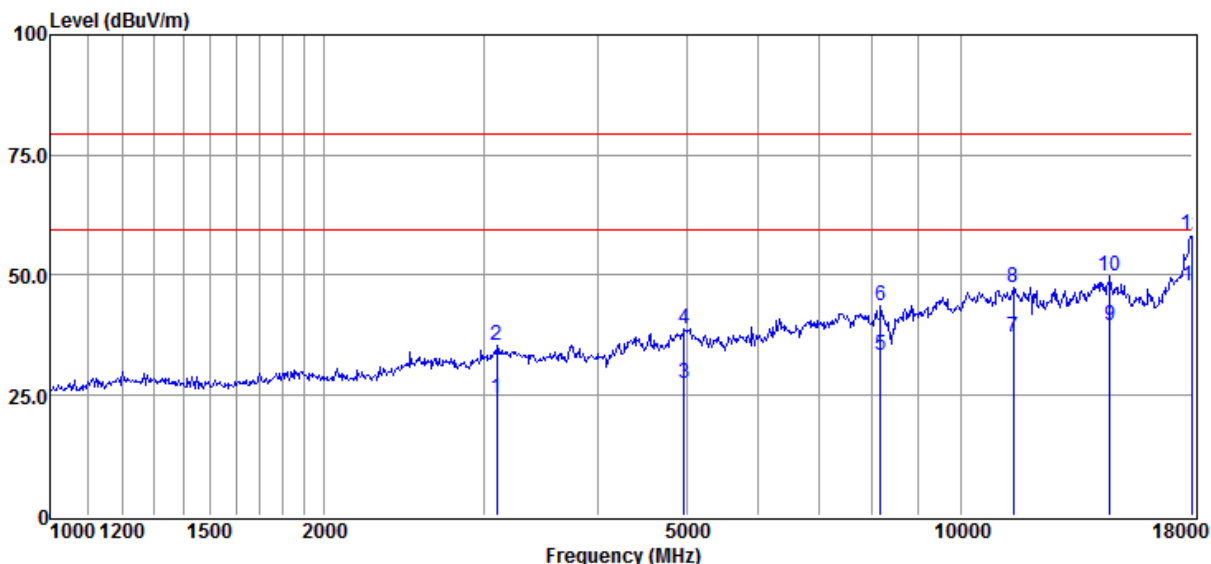
6.3.2 Test Setup Diagram



6.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

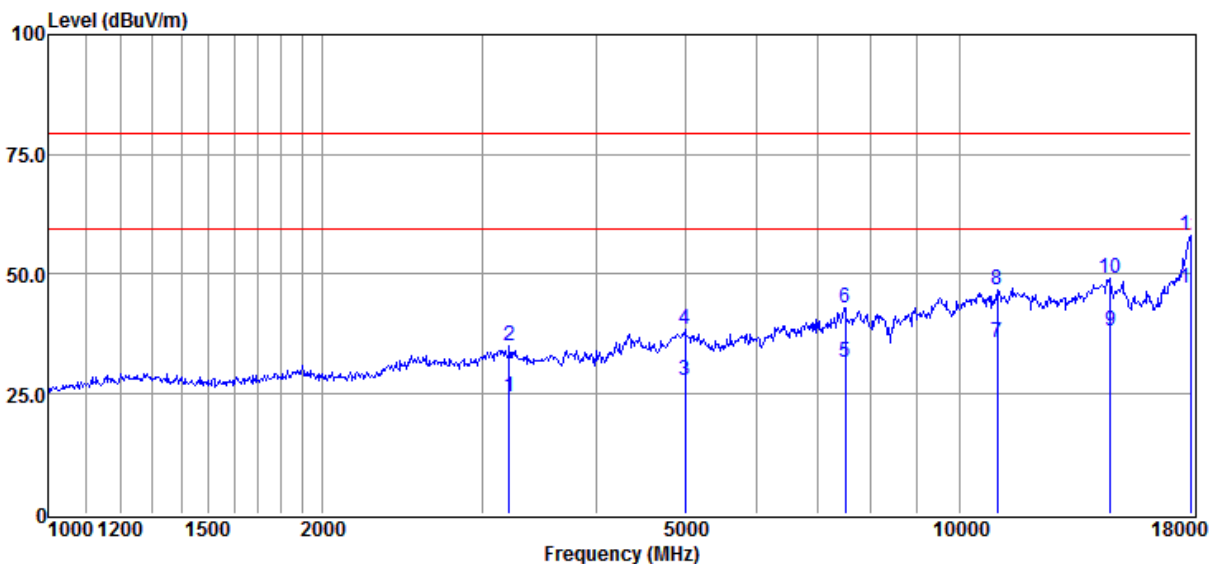
Mode:a; Polarization:Horizontal



Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1	3096.08	31.79	28.56	41.74	5.89	24.50	59.50	-35.00	Average
2	3096.08	42.68	28.56	41.74	5.89	35.39	79.50	-44.11	Peak
3	4973.66	29.45	31.55	41.61	8.17	27.56	59.50	-31.94	Average
4	4973.66	40.60	31.55	41.61	8.17	38.71	79.50	-40.79	Peak
5	8176.80	29.55	37.05	42.25	9.01	33.36	59.50	-26.14	Average
6	8176.80	39.73	37.05	42.25	9.01	43.54	79.50	-35.96	Peak
7	11433.91	28.73	40.24	41.76	9.76	36.97	59.50	-22.53	Average
8	11433.91	39.08	40.24	41.76	9.76	47.32	79.50	-32.18	Peak
9	14618.17	28.88	41.75	41.35	10.24	39.52	59.50	-19.98	Average
10	14618.17	39.04	41.75	41.35	10.24	49.68	79.50	-29.82	Peak
11	18000.00	25.79	50.90	41.86	12.83	47.66	59.50	-11.84	Average
12	18000.00	36.63	50.90	41.86	12.83	58.50	79.50	-21.00	Peak

Notes: Emission Level=Read Level + Antenna Factor + Cable Loss – Preamp Factor

Mode:a; Polarization:Vertical



Item	Freq.	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1	3205.35	31.46	28.63	41.78	5.96	24.27	59.50	-35.23	Average
2	3205.35	42.33	28.63	41.78	5.96	35.14	79.50	-44.36	Peak
3	5002.50	29.57	31.60	41.61	8.19	27.75	59.50	-31.75	Average
4	5002.50	40.15	31.60	41.61	8.19	38.33	79.50	-41.17	Peak
5	7497.65	28.57	36.70	42.48	8.79	31.58	59.50	-27.92	Average
6	7497.65	39.91	36.70	42.48	8.79	42.92	79.50	-36.58	Peak
7	11012.25	27.12	40.50	41.64	9.64	35.62	59.50	-23.88	Average
8	11012.25	38.28	40.50	41.64	9.64	46.78	79.50	-32.72	Peak
9	14660.48	27.46	41.70	41.35	10.24	38.05	59.50	-21.45	Average
10	14660.48	38.56	41.70	41.35	10.24	49.15	79.50	-30.35	Peak
11	17948.05	25.97	50.11	41.80	12.83	47.11	59.50	-12.39	Average
12	17948.05	37.01	50.11	41.80	12.83	58.15	79.50	-21.35	Peak

Notes: Emission Level=Read Level + Antenna Factor + Cable Loss – Preamplifier Factor

7 Photographs

7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup



7.2 Radiated Emissions (30MHz-1GHz) Test Setup

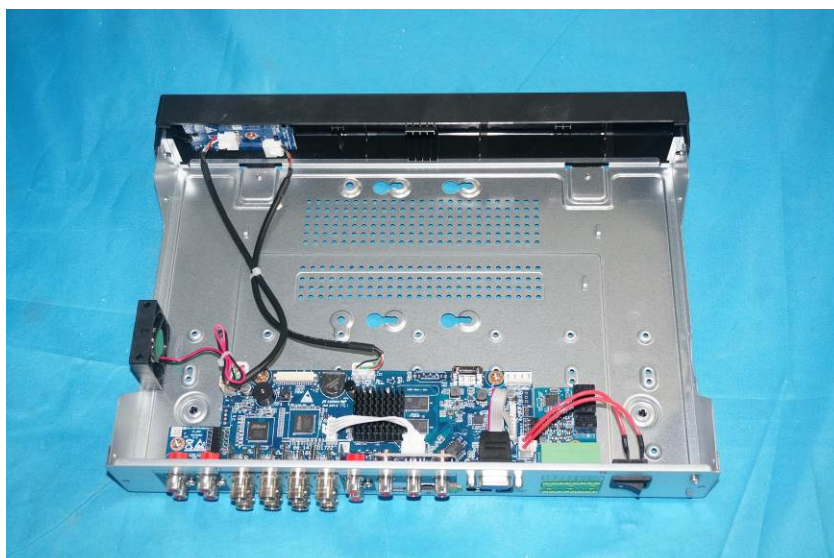


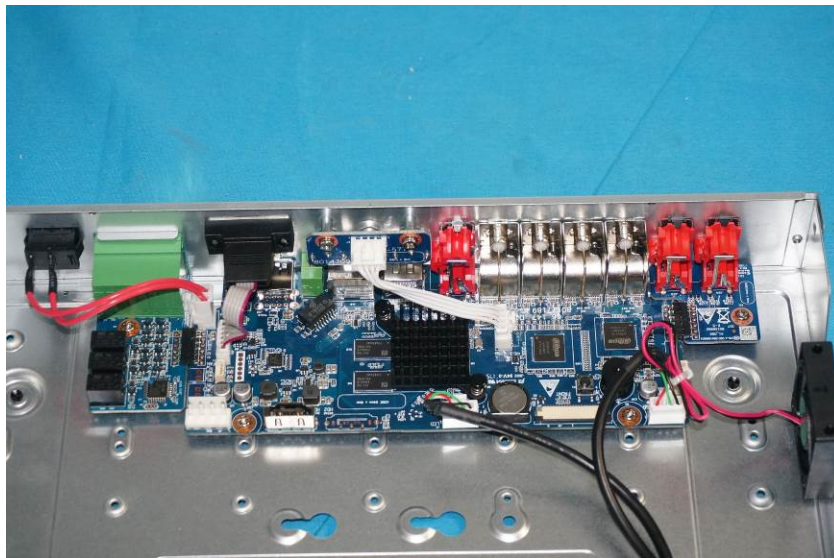
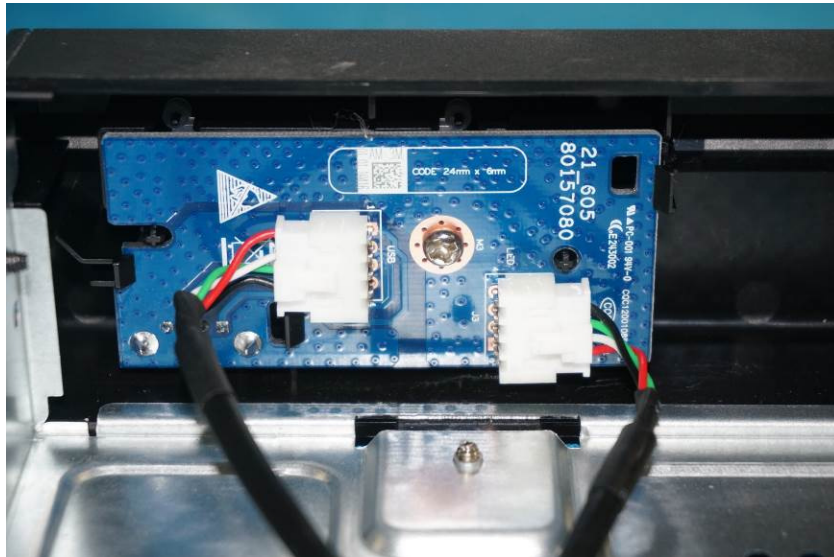
7.3 Radiated Emissions (above 1GHz) Test Setup



7.4 EUT Constructional Details (EUT Photos)









- End of the Report -