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TEST REPORT

Application No.:FYCR2204000095AT(KSCR2204000530AT)Applicant:Hangzhou Hikvision Digital Technology Co., Ltd.

Address of Applicant: No.555 Qianmo Road, Binjiang District Hangzhou 310052, China

Manufacturer: Hangzhou Hikvision Digital Technology Co., Ltd.

Address of Manufacturer: No.555 Qianmo Road, Binjiang District Hangzhou 310052, China

Factory: 1.Hangzhou Hikvision Technology Co., Ltd. 2.Hangzhou Hikvision Electronics Co., Ltd.

3. Hangzhou Hikvision Digital Technology Co., Ltd. 4. Chongqing Hikvision Technology Co., Ltd.

Address of Factory: 1.No.700,Dongliu Road, Binjiang District, Hangzhou Ctiy,Zhejiang, 310052,

China

2.No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County,

Hangzhou, Zhejiang, 310052, China.

3.No.555 Qianmo Road, Binjiang District Hangzhou 310052, China 4.NO.118. Haikang Road, Area C, Jianqiao Industrial Park, Dadukou

District, Chongqing, 401325, China

Equipment Under Test (EUT):

EUT Name: Door Station

Model No.: DS-KV6113-WPE1(C), DS-KV6113-WPE1(C)UHK, DS-KV6113-

WPE1(C)CKV, DS-KV6113-WPE1(C)UVS, DS-KV6113- WPE1(C)KVO, DS-

KV6113-WPE1(C)HUN .

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: HIKVISION

FCC ID: 2ADTD-KV6113WPE1C

Standard(s): 47 CFR Part 15, Subpart C 15.225

Date of Receipt: 2022-04-22

Date of Test: 2022-04-23 to 2022-04-29

Date of Issue: 2022-05-16

Test Result: Pass*

Kidd Yang EMC Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2022-05-16		Original			

Authorized for issue by:		
	Tree Zhan	
	Tree Zhan/Project Engineer	-
	WinkeyWarg	
	Winkey Wang/Reviewer	-



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2 Test Summary

Radio Spectrum Technical Requirement					
Item	Standard	Method	Requirement	Result	
Antenna Requirement	47 CFR Part 15, Subpart C 15.225	N/A	47 CFR Part 15, Subpart C 15.203	Pass	

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass	
Emission Mask	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)	Pass	
Frequency tolerance	·	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.225(e)	Pass	
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass	
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass	

Declaration of EUT Family Grouping:

DS-KV6113-WPE1(C), DS-KV6113-WPE1(C)UHK, DS-KV6113- WPE1(C)CKV,

DS-KV6113-WPE1(C)UVS, DS-KV6113- WPE1(C)KVO, DS-KV6113-WPE1(C)HUN

Only the model DS-KV6113-WPE1(C) was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on model No..



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4 General Information

4.1 Details of E.U.T.

	DO 40/40 04 1 1 1 DO 00 57/40 04 1 DO 5
Power supply:	DC 12V,0.6A by adapter or DC 36-57V,0.2A by POE
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Loop Antenna
Serial Number:	J66345583
Firmware Version:	V2.2.55

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Personal Computer	Lenovo	L480	PF-1PDHYD
Adapter	SHENZHEN HONOR ELECTRONIC CO., LTD.	ADS-12AM-12 12012EPCU	1
PoE Adapter	PowerDsine	PD-9001GR/AC	1

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 2.1 dB (9kHz to 30MHz)
20dB Bandwidth	± 0.3%
Emission Mask	± 0.3%
Frequency tolerance	± 5.4 x 10-8
Radiated Emissions (30MHz-1GHz)	± 5.6 dB (30MHz-1GHz)
Radiated Emissions (9kHz-30MHz)	± 2.7 dB (9kHz-30MHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark,Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC -Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None





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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2021/7/13	2024/7/12
EMI Test Receiver(9kHz-3GHz)	Rohde & Schwarz	ESCI	SEM004-01	2021/7/13	2022/7/12
Two-Line V- Network(9kHz-30MHz)	Rohde & Schwarz	ENV216	SEM007-16	2021/7/13	2022/7/12
Two-Line V- Network(9kHz-30MHz)	Rohde & Schwarz	ESH3-Z5	SEM007-22	2021/7/13	2022/7/12

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz- 26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Signal Generator(9kHz- 40GHz)	Agilent	N5173B	SEM006-05	2021/7/13	2022/7/12
ESG Vector Signal Generator(250kHz- 6GHz)	Agilent	E4438C	SEM006-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2021/7/13	2022/7/12
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021/7/13	2022/7/12

Emission Mask										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12					
MXA Signal Analyzer(10Hz- 26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12					
Signal Generator(9kHz- 40GHz)	Agilent	N5173B	SEM006-05	2021/7/13	2022/7/12					



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ESG Vector Signal Generator(250kHz- 6GHz)	Agilent	E4438C	SEM006-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2021/7/13	2022/7/12
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021/7/13	2022/7/12

Frequency tolerance									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12				
MXA Signal Analyzer(10Hz- 26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12				
Signal Generator(9kHz- 40GHz)	Agilent	N5173B	SEM006-05	2021/7/13	2022/7/12				
ESG Vector Signal Generator(250kHz- 6GHz)	Agilent	E4438C	SEM006-15	2021/7/13	2022/7/12				
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2021/7/13	2022/7/12				
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2021/7/13	2022/7/12				
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2021/7/13	2022/7/12				
Programmable DC Source	- Linioma		SEM011-09	2021/7/13	2022/7/12				
Attenuator(18GHz, 20dB, 2W) Huber+Suhner		6620_SMA-50- 1	SEM021-09	2021/7/13	2022/7/12				

Radiated Emissions (30MHz-1GHz)										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12					
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24					
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25					
Loop Antenna(9kHz- 30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25					
MXE EMI receiver(20Hz-	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12					



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8.4GHz)					
Pre-amplifier (0.1- 1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1- 18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz- 18GHz)	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz- 26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12

Radiated Emissions (9kHz-30MHz)									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12				
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24				
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25				
Loop Antenna(9kHz- 30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25				
MXE EMI receiver(20Hz- 8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12				
Pre-amplifier (0.1- 1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12				
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10				
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25				
Double-ridged waveguide horn (1- 18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24				
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12				
Low Noise Amplifier(100MHz-	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2021/7/13	2022/7/12				



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18GHz)					
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz- 26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12

General used equipment										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2021-07-13	2022-07-12					
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2021-07-13	2022-07-12					
Barometer	DUMAI	DYM3	SEM002-24	2021-07-13	2022-07-12					



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

Antenna location: Refer to Internal photos



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of	Conducted limit(dBµV)	Conducted limit(dBµV)					
emission(MHz)	Quasi-peak	Average					
0.15-0.5	66 to 56*	56 to 46*					
0.5-5	56	46					
5-30	60	50					
*Decreases with the lo	*Decreases with the logarithm of the frequency.						
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz							

7.1.1 E.U.T. Operation

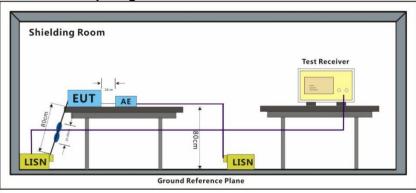
Operating Environment:

Temperature: 22.5 °C Humidity: 47.3 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Dro coon	00	TX mode_Powered by POE and keep the EUT in continuously transmitting mode
Pre-scan	01	TX mode_Powered by adapter and keep the EUT in continuously transmitting mode
Final test	01	TX mode_Powered by adapter and keep the EUT in continuously transmitting mode

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data



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1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

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.

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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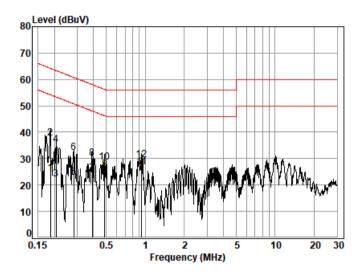
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Test Mode: 01; Line: Live line



Site : Shielding Room

Condition: Line Job No. : 00095AT

Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	——dB	
1	0.1864	0.02	0.26	23.92	24.20	54.20	-30.00	Average
2	0.1864	0.02	0.26	37.53	37.81	64.20	-26.39	QP
3	0.2061	0.02	0.26	21.80	22.08	53.36	-31.28	Average
4	0.2061	0.02	0.26	34.96	35.24	63.36	-28.12	QP
5	0.2818	0.03	0.26	22.57	22.86	50.76	-27.90	Average
6	0.2818	0.03	0.26	31.97	32.26	60.76	-28.50	QP
7	0.3914	0.03	0.27	24.10	24.40	48.03	-23.63	Average
8	0.3914	0.03	0.27	29.69	29.99	58.03	-28.04	QP
9	0.4863	0.01	0.27	25.54	25.82	46.23	-20.41	Average
10	0.4863	0.01	0.27	28.25	28.53	56.23	-27.70	QP
11	0.9381	0.02	0.20	26.52	26.74	46.00	-19.26	Average
12	0.9381	0.02	0.20	29.44	29.66	56.00	-26.34	QP



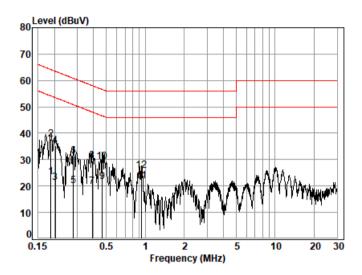
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Test Mode: 01; Line: Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 00095AT Test mode: 01

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1884	0.02	0.29	23.18	23.49	54.11	-30.62	Average
2	0.1884	0.02	0.29	37.56	37.87	64.11	-26.24	QP
3	0.2029	0.02	0.29	20.91	21.22	53.49	-32.27	Average
4	0.2029	0.02	0.29	35.02	35.33	63.49	-28.16	QP
5	0.2803	0.03	0.28	19.78	20.09	50.81	-30.72	Average
6	0.2803	0.03	0.28	31.06	31.37	60.81	-29.44	QP
7	0.3914	0.03	0.28	19.46	19.77	48.03	-28.26	Average
8	0.3914	0.03	0.28	29.24	29.55	58.03	-28.48	QP
9	0.4686	0.02	0.27	21.39	21.68	46.54	-24.86	Average
10	0.4686	0.02	0.27	28.95	29.24	56.54	-27.30	QP
11	0.9381	0.02	0.08	21.81	21.91	46.00	-24.09	Average
12	0.9381	0.02	0.08	25.72	25.82	56.00	-30.18	OP



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7.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

7.2.1 E.U.T. Operation

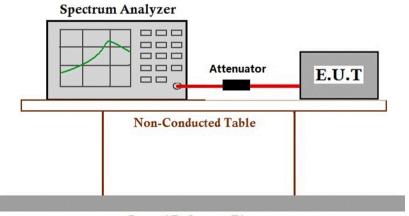
Operating Environment:

Temperature: 25.6 °C Humidity: 61.9 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Powered by adapter and keep the EUT in continuously transmitting mode

7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.



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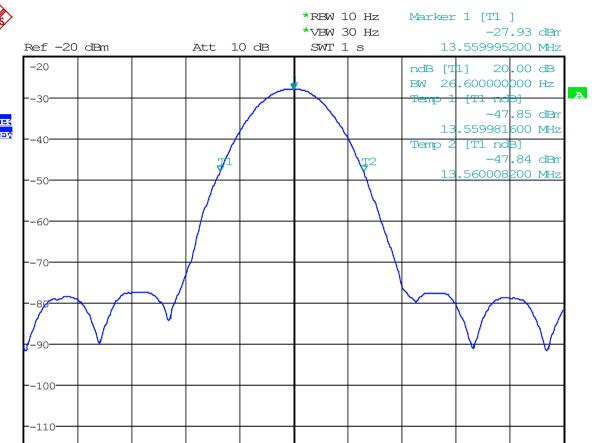
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Center 13.5599952 MHz 10 Hz/



-120

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Span 100 Hz



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7.3 Emission Mask

Test Requirement 47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)

Test Method: ANSI C63.10 (2013) Section 6.4

Limit:

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

Below 30MHz

The limit at 30m test distance is below:

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

 FS_{limit} is the calculation of field strength at the limit distance, expressed in dB μ V/m

 $FS_{\rm max}$ is the measured field strength, expressed in dBμV/m $d_{\rm measure}$ is the distance of the measurement point from the EUT is the reference distance or the distance of the $\lambda/2\pi$ point

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 84dBuV/m at 30 meters.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C Humidity: 61.9 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	TX mode_Powered by POE and keep the EUT in continuously transmitting mode
	01	TX mode_Powered by adapter and keep the EUT in continuously transmitting mode
Final test	01	TX mode_Powered by adapter and keep the EUT in continuously transmitting mode



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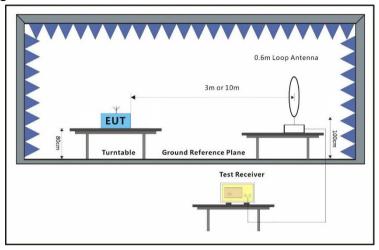
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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



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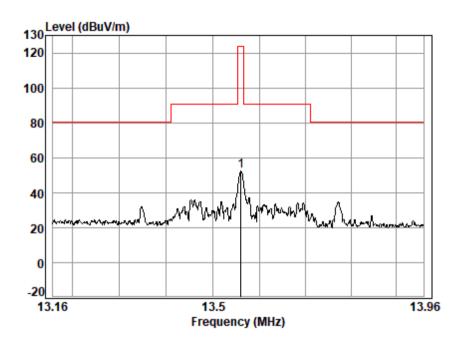
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Test Mode: 01; Polarity: Vertical



Condition: 3m

Job No. : 00095AT

Test Mode: 01

1 P 13.5600

0.60

Cable Ant Preamp Read Limit Over
Freq Loss Factor Factor Level Level Line Limit Remark

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

8.65 32.06 75.09 52.28 124.00 -71.72 QP



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7.4 Frequency tolerance

Test Requirement 47 CFR Part 15, Subpart C 15.225(e)
Test Method: ANSI C63.10 (2013) Section 6.8

Limit:

±0.01%

7.4.1 E.U.T. Operation

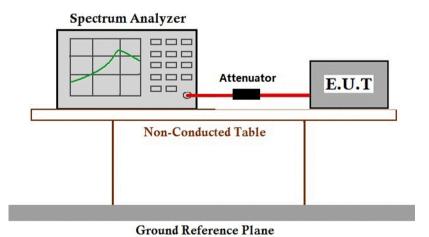
Operating Environment:

Temperature: 25.6 °C Humidity: 61.9 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Powered by adapter and keep the EUT in continuously transmitting mode

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data



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Declared Frequency (MHz)	13.56MHz	@10 minutes
--------------------------	----------	-------------

Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50	12	13.5612	0.0088		Pass
40		13.5611	0.0081		Pass
30		13.5613	0.0096		Pass
20		13.5612	0.0088		Pass
10		13.5611	0.0081	±0.01	Pass
0		13.5612	0.0088		Pass
-10		13.5612	0.0088		Pass
-20		13.5611	0.0081		Pass
20	13.8	13.5612	0.0088		Pass
20	10.2	13.5611	0.0081		Pass



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7.5 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	TX mode_Powered by POE and keep the EUT in continuously transmitting mode
	01	TX mode_Powered by adapter and keep the EUT in continuously transmitting mode
Final test	01	TX mode_Powered by adapter and keep the EUT in continuously transmitting mode



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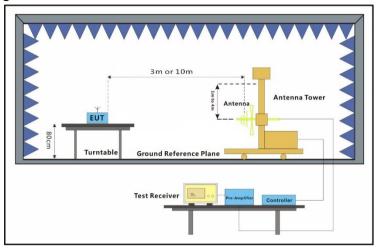
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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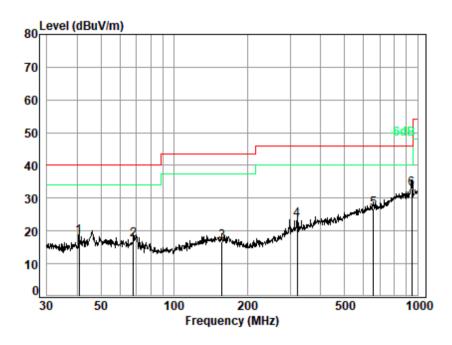
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Test Mode: 01; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00095AT

Mode : 01

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	40.7016	0.20	16.88	25.88	27.15	18.35	40.00	-21.65	QP
2	67.9129	0.27	16.37	25.83	26.39	17.20	40.00	-22.80	QP
3	157.0074	0.81	17.27	25.51	24.25	16.82	43.50	-26.68	QP
4	319.9370	1.21	19.27	25.26	28.07	23.29	46.00	-22.71	QP
5	658.8362	1.98	25.33	26.73	26.33	26.91	46.00	-19.09	QP
6 P	948.7610	2.08	29.26	26.29	27.67	32.72	46.00	-13.28	OP



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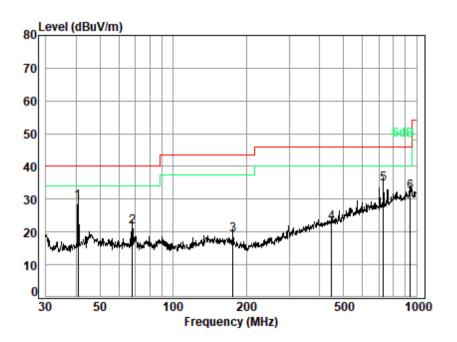
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Test Mode: 01; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 00095AT

Mode : 01

		Cable	Δnt	Preamp	Read		limit	Over	
	Freq			Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 P	40.7016	0.20	16.88	25.88	38.07	29.27	40.00	-10.73	QP
2	67.9129	0.27	16.37	25.83	30.78	21.59	40.00	-18.41	QP
3	176.2686	0.68	16.43	25.44	27.44	19.11	43.50	-24.39	QP
4	447.9822	1.45	21.66	26.08	25.69	22.72	46.00	-23.28	QP
5	731.9203	1.82	25.98	26.66	33.56	34.70	46.00	-11.30	QP
6	942.1305	2.10	29.32	26.31	27.12	32.23	46.00	-13.77	OP



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7.6 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m) Detector		Measurement Distance (meters)	
0.009-0.490	2400/F(kHz)	-	-	300	
0.490-1.705	24000/F(kHz)	-	-	30	
1.705-30	30	-	-	30	

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi peak detector except for the frequency bands 9–90kHz, 110–490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

Below 30MHz

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than $\lambda/2\pi$ and the limit distance is greater than $\lambda/2\pi$, the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the $\lambda/2\pi$ distance, and at a 20 dB/decade of distance rate beyond $\lambda/2\pi$. This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40log\{d_{(near field)}/d_{(10m)}\} + 20log\{d_{(30/300m)}/d_{(near field)}\}$$
(2)

If the single point measured is at a distance greater than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20log\{d_{(30/300m)}/d_{(10m)}\}$$
(3)

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40log\{d_{(30/300m)}/d_{(10m)}\}$$
(4)

Remark:

 $d_{near field} = 47.77 / f_{MHz}$

where f_{MHz} is the frequency of the emission being measured in MHz.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor



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$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

 FS_{limit} is the calculation of field strength at the limit distance, expressed in dB μ V/m

FS_{max} is the measured field strength, expressed in dBμV/m d_{measure} is the distance of the measurement point from the EUT is the reference distance or the distance of the $\lambda/2\pi$ point

r

7.6.1 E.U.T. Operation

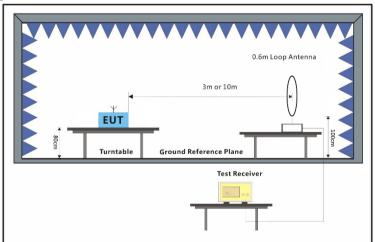
Operating Environment:

Temperature: 23.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Dra coor	00	TX mode_Powered by POE and keep the EUT in continuously transmitting mode
Pre-scan	01	TX mode_Powered by adapter and keep the EUT in continuously transmitting mode
Final test	01	TX mode_Powered by adapter and keep the EUT in continuously transmitting mode

7.6.3 Test Setup Diagram





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7.6.4 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of horizontal was shown in the report.



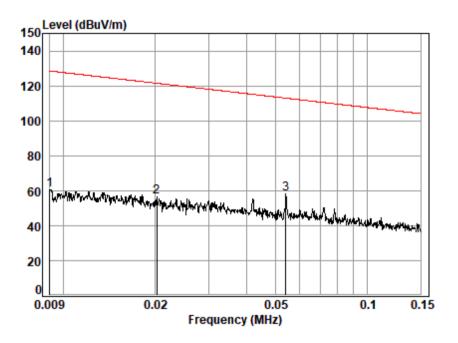
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Test Mode: 01, Polarity: Horizontal



Condition: 3m

Job No. : 00095AT

Test Mode: 01

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.0090	0.29	18.98	30.70	72.07	60.64	128.52	-67.88	Average
2	0.0203	0.30	13.58	31.66	74.38	56.60	121.46	-64.86	Average
3 F	0.0540	0.31	10.93	31.75	78.54	58.03	112.95	-54.92	Average



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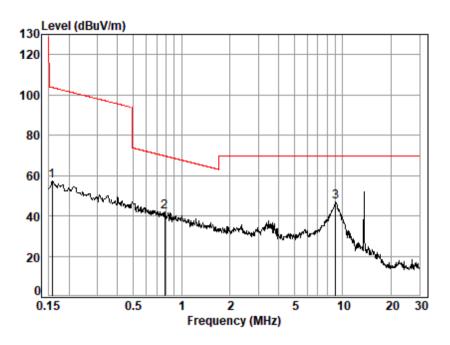
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Test Mode: 01, Polarity: Horizontal



Condition: 3m

Job No. : 00095AT

Test Mode: 01

	Fred			Preamp Factor					
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 a	0.1573	0.33	10.40	31.78	78.31	57.26	103.67	-46.41	Average
2	0.7876	0.28	10.29	31.71	63.38	42.24	69.68	-27.44	QP
3 P	9.0592	0.56	9.35	31.99	68.85	46.77	69.54	-22.77	OP



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8 Test Setup Photo

Refer to Appendix -Setup Photos for FYCR2204000095AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for FYCR2204000095AT

- End of the Report -



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