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TEST REPORT

Application No.:	KSCR2109000108AT
FCC ID:	2ADTD-CP03009601212
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 Electronics Co., Ltd.
	2.Hangzhou Hikvision Technology Co., Ltd. 3.CHONGQING HIKVISION TECHNOLOGY CO., LTD.
Address of Factory:	1.No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou, Zhejiang.
	2.No.700 Dongliu Road, Binjiang District, Hangzhou 310052, China 3.Building 18, Louyu Area, C area, Jianqiao industrial park, Chongqing
Equipment Under Test (EU	Т):
EUT Name:	AX PRO
Model No.:	DS-PWA96-M-WA,DS-PWA96-M-WAUHK,DS-PWA96-M-WACKV,DS- PWA96-M-WAUVS,DS-PWA96-M-WAKVO,DS-PWA96-M-WAHUN¤
¤	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	HIKVISION
Standard(s) :	47 CFR Part 15, Subpart C 15.225
Date of Receipt:	2021-09-27
Date of Test:	2021-10-01 to 2021-10-04
Date of Issue:	2021-10-18
Test Result:	Pass*

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

Foria fri

Eric Lin Laboratory 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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Revision Record									
Version Description Date Remark									
00	Original	2021-10-18	/						

Authorized for issue by:		
	Damon zhou	
	Damon Zhou / Project Engineer	
	En fri	
	Eric Lin / Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement							
Item Standard Method Requirement Resu							
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)	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass			
20dB Bandwidth	47 CFR Part 15, Subpart C 15.225	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	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.225(e)	Pass			
Radiated Emissions(9kHz- 30MHz)	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass			
Radiated Emissions(30MHz- 1GHz)	47 CFR Part 15, Subpart C 15.225	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:

There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model DS-PWA96-M-WA was tested since their differences were the model number, trade name, Color and appearance.



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 100~240V 50/60Hz + DC 3.8V by Rechargeable li-ion Polymer Battery Battery Model: 765965 Capacity: 4520mAh/17.176Wh
Test voltage:	AC 120V/60Hz
Antenna Type	Loop antenna
Modulation Type	ASK
Number of Channels	1
Operation Frequency	13.56MHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book	Acer	ZQT	NXM0QCN01031403EE876

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Occupied Bandwidth	3%
		4.2dB (Below 30MHz)
3	Dedicted Coursians emission test	4.5dB (30MHz-1GHz)
3	Radiated Spurious emission test	5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
4	Temperature test	1°C
5	Humidity test	3%
6	Supply voltages	1.5%
7	Time	3%

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



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4.4 Test Location

All tests were performed at: Compliance Certification Services (Kunshan) Inc. No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China. Tel: +86 512 5735 5888 Fax: +86 512 5737 0818 No tests were sub-contracted.

4.5 Test Facility

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

CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 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.

• A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC (Designation Number: CN1172)

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

• ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

CAB Identifier: CN0072.

• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.6 Deviation from Standards

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
Con	ducted Emission at Mains Terminals (150	kHz-30MHz)				
1	EMI Test Receive	R&S	ESCI	100781	02/01/2021	01/31/2022
2	LISN	R&S	ENV216	101604	10/19/2020	10/18/2021
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/19/2020	10/18/2021
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
5	CE test Cable	Thermax	/	14	10/17/2020	10/16/2021
6	Test Software	Farad	EZ-EMC	CCS-03A1	N.C.R	N.C.R
RF R	adiated Test					
1	Spectrum Analyzer	R&S	FSV40	101493	10/19/2020	10/18/2021
2	Signal Generator	Agilent	E8257C	MY43321570	10/19/2020	10/18/2021
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
7	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
8	RE test cable	/	RE01-RE04	/	04/15/2021	04/14/2022
9	Software	Faratronic	EZ_EMC-v 3A1	N/A	N/A	N/A



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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

Standard 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an 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 Loop antenna integrated on the main PCB and no consideration of replacement.

Antenna location: Refer to Appendix (Internal Photos)



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7 Radio Spectrum Matter Test Results

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

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

	Limit (dBuV)				
Frequency range (MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

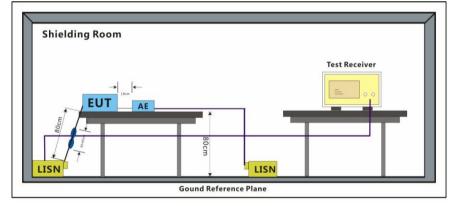
* Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1020 mbarTest modec:TX mode_Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram





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7.1.3 Measurement Procedure and Data

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/50 μ H + 50hm 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.

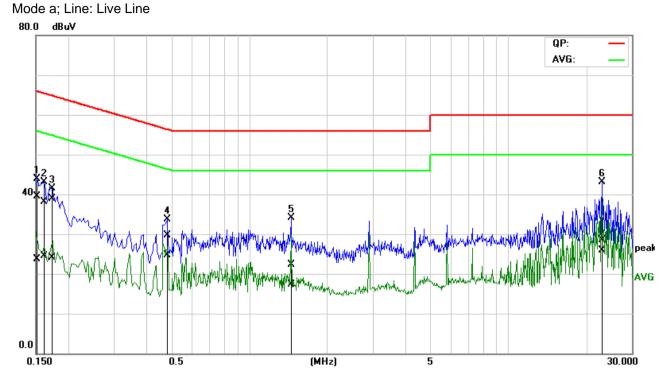
Remark: LISN=Read Level+ Cable Loss+ LISN Factor.



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No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1529	20.08	4.27	19.46	39.54	23.73	65.84	55.84	-26.30	-32.11	Pass
2	0.1607	18.66	5.00	19.46	38.12	24.46	65.42	55.43	-27.30	-30.97	Pass
3	0.1742	19.43	4.66	19.46	38.89	24.12	64.75	54.76	-25.86	-30.64	Pass
4*	0.4797	10.21	5.25	19.52	29.73	24.77	56.34	46.34	-26.61	-21.57	Pass
5	1.4637	2.73	-2.29	19.57	22.30	17.28	56.00	46.00	-33.70	-28.72	Pass
6	23.1388	8.23	5.49	20.32	28.55	25.81	60.00	50.00	-31.45	-24.19	Pass

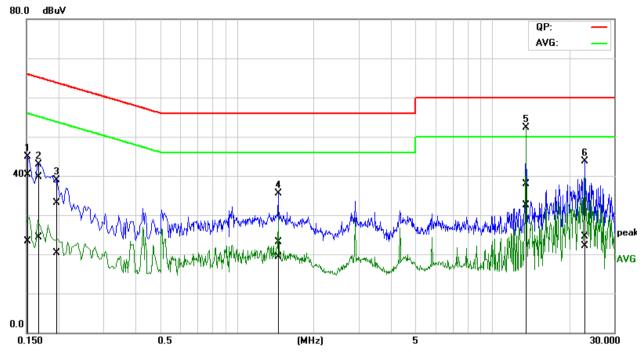


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Mode: a; Line: Neutral Lin	е
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No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1528	20.85	3.94	19.42	40.27	23.36	65.84	55.85	-25.57	-32.49	Pass
2	0.1654	20.27	4.83	19.42	39.69	24.25	65.18	55.19	-25.49	-30.94	Pass
3	0.1938	13.69	0.80	19.43	33.12	20.23	63.87	53.87	-30.75	-33.64	Pass
4	1.4624	3.59	-0.19	19.55	23.14	19.36	56.00	46.00	-32.86	-26.64	Pass
5*	13.5715	17.84	12.34	20.08	37.92	32.42	60.00	50.00	-22.08	-17.58	Pass
6	23.1396	4.09	1.73	20.32	24.41	22.05	60.00	50.00	-35.59	-27.95	Pass



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7.2 20dB Bandwidth

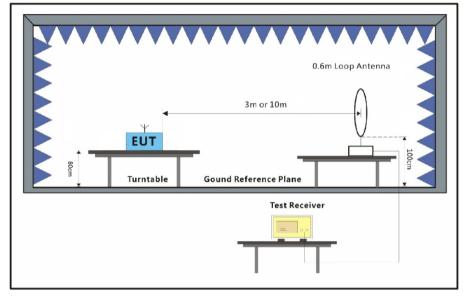
Test Requirement	47 CFR Part 15, Subpart C 15.215
Test Method:	ANSI C63.10 (2013) Section 6.9
Limit:	N/A

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1002 mbarTest modec:TX mode_Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data



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 $\overline{}$

20dB bandwidth (kHz)	F∟ (MHz)	F _н (MHz)	Limit (MHz)	Result
0.4455	13.5598	14.0053	13.110 - 14.010	Pass

Test plot as follows:

Spectrum								
Ref Level			RBW 10 Hz					
Att	1	OdB SWT 2 s 👄	VBW 30 Hz M	ode Sweep				
●1Pk Max					0141			- II
					3[1]			3 di
80 dBµV							445.5	
					11[1]		46.98 d 13.55977620	
70 dBµV				M2	1		10.00977020	
				\bigwedge				
60 dBµV				+				
50 dBµV	4 47 0	30 dBµV	M1		23			
	1 47.0							
40 dBµV								
30 dBµV								
20 dBµV								
10.40.44								
10 dBµV								
CF 13.56 MH	lz		100)1 pts			Span 2.0	kHz
Marker								
Type Ref		X-value	Y-value		tion	Fund	ction Result	
M1	1	13.5597762 MH						
M2 D3 M1	1	13.56002797 MH						
D3 M1	1	445.5 H	lz 0.03	5 UB				_
	Π				Mea	isuring 🔳		



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7.3 Emission Mask

Test Requirement
Test Method:
Limit:

47 CFR Part 15 Subpart C 15.225(a)&(b)&(C) ANSI C63.10 (2013) Section 6.4

(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.

NOTE:

For test distance other than what is specified, but fulfilling the requirements of section 15.31(f) (2) the field strength is calculated by adding additionally an extrapolation factor of 40dB/decade (inverse linear distance for field strength measurements).

So the Distance Extrapolation Factor in dB is $40*\log (D_{TEST} / D_{SPEC})$ where $D_{TEST} = Test$ Distance and $D_{SPEC} = Specified$ Distance.

Field strength limit $(dB\mu V/m)@$ test distance= Field strength limit $(dB\mu V/m)@$ specified distance +Distance Extrapolation Factor

7.3.1 E.U.T. Operation

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1002 mbarTest modec:TX mode_Keep the EUT in transmitting with modulation mode.

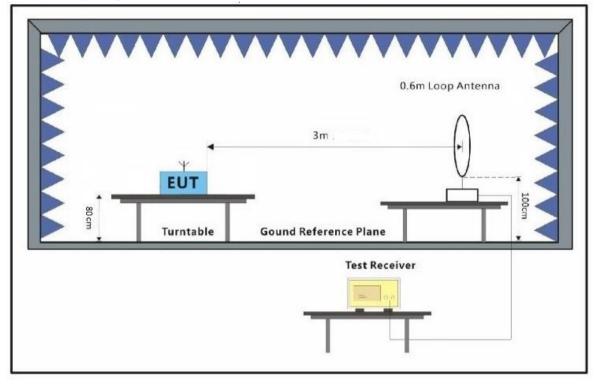


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7.3.2 Test Setup Diagram



7.3.3 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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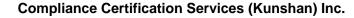
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Item	Freq.	Read Level	Correct Factor	Result Level@3m	Limit Line@3m	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	13.3475	38.90	13.02	51.92	80.50	-28.58	QP
2	13.4754	41.63	13.01	54.64	90.50	-35.86	QP
3	13.5600	63.95	13.00	76.95	124.00	-47.05	peak
4	13.6446	42.22	12.99	55.21	90.50	-35.29	QP
5	13.7723	40.56	12.98	53.54	80.50	-26.96	QP



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Item	Freq.	Read Level	Correct Factor	Result Level@3m	Limit Line@3m	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	13.3484	38.22	13.02	51.24	80.50	-29.26	QP
2	13.4754	41.72	13.01	54.73	90.50	-35.77	QP
3	13.5600	64.47	13.00	77.47	124.00	-46.53	peak
4	13.6446	42.34	12.99	55.33	90.50	-35.17	QP
5	13.7722	40.72	12.98	53.70	80.50	-26.80	QP



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7.4 Frequency tolerance

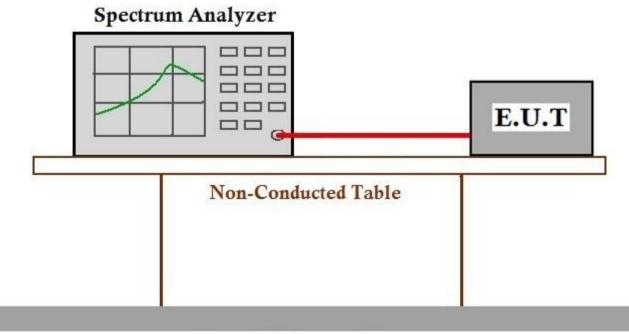
Test Requirement	47 CFR Part 15, Subpart C 15.225(e)
Test Method:	ANSI C63.10 (2013) Section 6.8
Limit:	1.356kHz

7.4.1 E.U.T. Operation

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1002 mbarTest modec:TX mode_Keep the EUT in transmitting with modulation mode.

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data



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Test Co	onditions	Test Result	Deviation	Limit	Popult
Temp (℃)	Volt (V AC)	(MHz)	(MHz) (kHz)		Result
T _{nom} (-20)	V _{nom} (120)	13.55991	-0.09		Pass
T _{nom} (-10)	V _{nom} (120)	13.55994	-0.06		Pass
T _{nom} (0)	V _{nom} (120)	13.55997	-0.03		Pass
T _{nom} (10)	V _{nom} (120)	13.56000	0.00		Pass
T _{nom} (20)	V _{nom} (120)	13.56002	0.02	±0.01%	Pass
T _{nom} (30)	V _{nom} (120)	13.56004	0.04	(1.3560kHz)	Pass
T _{nom} (40)	V _{nom} (120)	13.56007	0.07		Pass
T _{nom} (50)	V _{nom} (120)	13.56010	0.10		Pass
T (20)	V _{min} (102)	13.56001	0.01		Pass
T _{nom} (20)	V _{max} (138)	13.56006	0.06		Pass

Nominal Operation Frequency: 13.56MHz

Note: Deviation (kHz) = (Test Result-13.56MHz)*1000



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7.5 Radiated Emissions(9kHz-30MHz)

· · · ·									
ement 47 CFR Part 15, Subpart C 15.225(d) & 15.209									
ANSI C63.10 (20 ²	ANSI C63.10 (2013) Section 6.4&6.5								
Field strength	Limit	Detector	Measurement Distance						
(microvolts/meter)	(dBuV/m)	Detector	(meters)						
2400/F(kHz)	-	-	300						
24000/F(kHz)	-	-	30						
30	-	-	30						
100	40.0	QP	3						
150	43.5	QP	3						
200	46.0	QP	3						
500	54.0	QP	3						
500	54.0	AV	3						
	ANSI C63.10 (20 Field strength (microvolts/meter) 2400/F(kHz) 24000/F(kHz) 30 100 150 200 500	ANSI C63.10 (2013) Section 6.4 Field strength (microvolts/meter) Limit (dBuV/m) 2400/F(kHz) - 24000/F(kHz) - 30 - 100 40.0 150 43.5 200 46.0 500 54.0	ANSI C63.10 (2013) Section 6.4&6.5 Field strength (microvolts/meter) Limit (dBuV/m) Detector 2400/F(kHz) - - 24000/F(kHz) - - 30 - - 100 40.0 QP 150 43.5 QP 200 46.0 QP 500 54.0 QP						

NOTE:

(1) For test distance other than what is specified but fulfilling the requirements of section 15.31(f) (2) the field strength is calculated by adding additionally an extrapolation factor of 40dB/decade (inverse linear distance for field strength measurements).

So, the Distance Extrapolation Factor in dB is 40*log (D_{TEST} / D_{SPEC}) where D_{TEST} = Test Distance and D_{SPEC} = Specified Distance.

Field strength limit ($dB\mu V/m$) @ test distance= Field strength limit ($dB\mu V/m$) @ specified distance - Distance Extrapolation Factor

(2) The lower limit shall apply at the transition frequencies.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1002 mbarTest moded:TX mode_Keep the EUT in transmitting with modulation mode.



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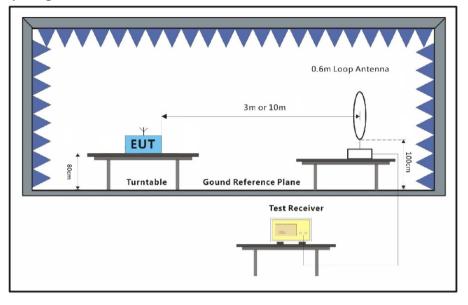




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7.5.2 Test Setup Diagram



7.5.3 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.



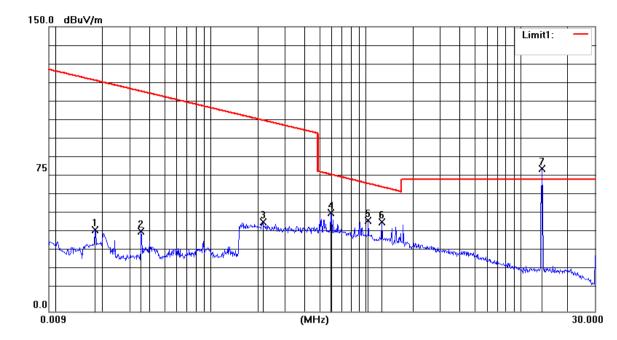
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Item	Freq.	Read Level	Correct Factor	Result Level@ 3m	Result Level@S PEC	Limit Line@SP EC	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0177	27.04	15.91	42.95	-37.05	41.80	-78.85	QP
2	0.0354	26.57	15.72	42.29	-37.71	35.96	-73.67	QP
3	0.2151	32.65	14.44	47.09	-32.91	20.74	-53.65	QP
4	0.5916	37.42	14.40	51.82	11.82	32.17	-20.35	QP
5	1.0320	33.64	14.35	47.99	7.99	27.35	-19.36	QP
6	1.2620	32.84	14.33	47.17	7.17	25.61	-18.44	QP
7	13.5600	62.11	13.00	75.11	35.11	84.00	-48.89	peak

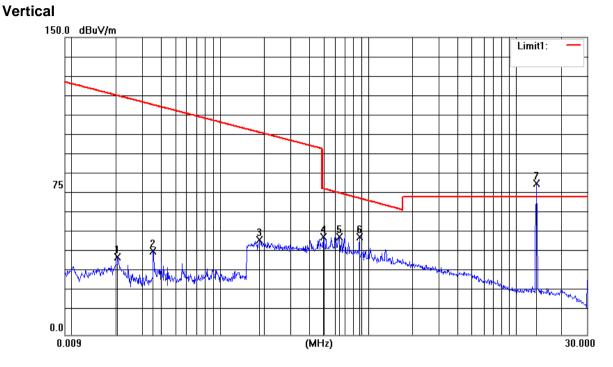


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Item	Freq.	Read Level	Correct Factor	Result Level@3 m	Result Level@SP EC	Limit Line@SP EC	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0204	23.24	15.88	39.12	-40.88	40.61	-81.49	QP
2	0.0354	26.61	15.72	42.33	-37.67	35.96	-73.63	QP
3	0.1854	33.51	14.45	47.96	-32.04	22.00	-54.04	QP
4	0.4965	34.97	14.41	49.38	9.38	33.69	-24.31	QP
5	0.6370	35.10	14.40	49.50	9.50	31.53	-22.03	QP
6	0.8662	34.83	14.37	49.20	9.20	28.87	-19.67	QP
7	13.5600	63.43	13.00	76.43	36.43	84.00	-47.57	peak



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7.6 Radiated Emissions(30MHz-1GHz)

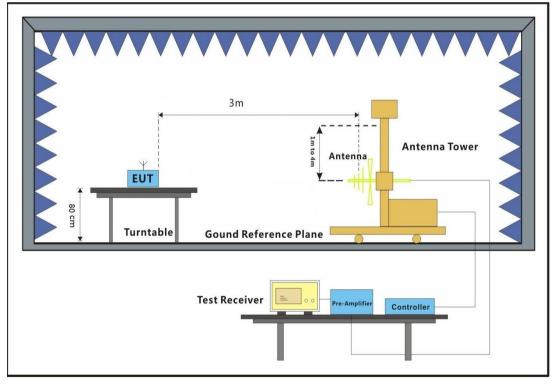
Test Requirement	47 CFR Part 15, Subpart C 15.225(d) & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4&6.5
Limit:	

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3

7.6.1 E.U.T. Operation

Operating Environment:Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1002 mbarTest modec:TX mode_Keep the EUT in transmitting with modulation mode.

7.6.2 Test Setup Diagram





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No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300



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7.6.3 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:

1. Level = Read Level+ Cable Loss+ Antenna Factor- Preamp Factor.



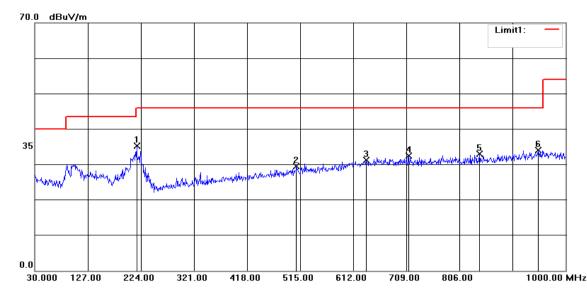
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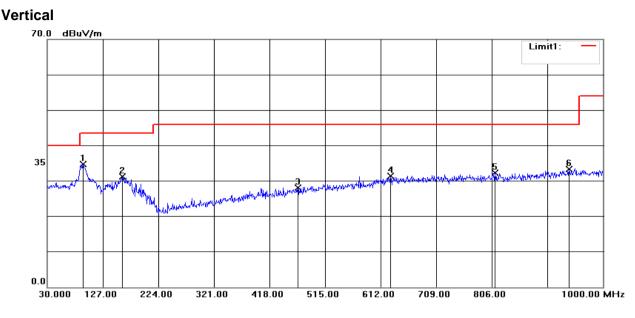
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	216.2400	17.97	17.25	35.22	46.00	-10.78	QP
2	508.2100	4.22	25.34	29.56	46.00	-16.44	QP
3	635.2800	4.31	26.93	31.24	46.00	-14.76	QP
4	712.8800	4.98	27.49	32.47	46.00	-13.53	QP
5	842.8600	4.96	28.04	33.00	46.00	-13.00	QP
6	949.5600	4.71	29.29	34.00	46.00	-12.00	QP



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	92.0800	17.68	17.01	34.69	43.50	-8.81	QP
2	160.9500	11.94	19.29	31.23	43.50	-12.27	QP
3	467.4700	3.46	24.63	28.09	46.00	-17.91	QP
4	629.4600	4.57	26.86	31.43	46.00	-14.57	QP
5	811.8200	4.36	27.89	32.25	46.00	-13.75	QP
6	940.8300	4.24	29.18	33.42	46.00	-12.58	QP



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8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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