

TEST REPORT

Product Name	:	65 inch internal kiosk
Model Number	:	65AMVF30-P03-Bk
FCC ID	:	2ASBQ-65AMVF30

Prepared for Address	::	Shanghai I-Pivot Intelligent Technology Co., Ltd No. 536, Laolu Road, Laogang Town, Pudong New Area, Shanghai, China
Prepared by Address	::	EMTEK (SHENZHEN) CO., LTD. Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China Tel: (0755) 26954280 Fax: (0755) 26954282
•		ENS2302130194W00102R February 16, 2023 to March 14, 2023

Date of issue : March 16, 2023

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TABLE OF CONTENTS

TEST REPORT	1
1 EUT TECHNICAL DESCRIPTION	5
2 SUMMARY OF TEST RESULT	6
3 TEST METHODOLOGY	7
3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS 3.2 MEASUREMENT EQUIPMENT USED 3.3 DESCRIPTION OF TEST MODES	7 8
4 FACILITIES AND ACCREDITATIONS	9
4.1 FACILITIES 4.2 EQUIPMENT 4.3 LABORATORY ACCREDITATIONS AND LISTINGS	9 9
5 TEST SYSTEM UNCERTAINTY	
6 SETUP OF EQUIPMENT UNDER TEST	
 6.1 RADIO FREQUENCY TEST SETUP 1 6.2 RADIO FREQUENCY TEST SETUP 2 6.3 CONDUCTED EMISSION TEST SETUP 6.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM 6.5 SUPPORT EQUIPMENT 	
7 TEST REQUIREMENTS	14
7.1 OCCUPIED BANDWIDTH 7.2 FREQUENCY STABILITY 7.3 RADIATED SPURIOUS EMISSION 7.4 CONDUCTED EMISSION TEST	
8 ANTENNA APPLICATION	34
8.2 RESULT	

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TEST RESULT CERTIFICATION

Applicant	:	Shanghai I-Pivot Intelligent Technology Co., Ltd
Address	:	No. 536, Laolu Road, Laogang Town, Pudong New Area, Shanghai, China
Manufacturer	:	Shenzhen I-Pivot Intelligent Technology Co., Ltd
Address	:	2nd Floor, Building 2A, Dacheng Industrial Zone, No. 357 Jihua Rd, Longgang District, Shenzhen, Guangdong, China
EUT	:	65 inch internal kiosk
Model Name	:	65AMVF30-P03-Bk
Trademark	:	N/A

Measurement Procedure Used:

APPLICABLE STANDARDS			
STANDARD TEST RESULT			
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS		

The above equipment was tested by EMTEK(SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.225.

The test results of this report relate only to the tested sample identified in this report.

Date of Test :	February 16, 2023 to March 14, 2023
Prepared by :	Una gu
	Una Yu/Editor
Reviewer :	Jue Hra SHENZHEN,
	Joe Xia/Supervisor
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Approved & Authorized Signer :	www.
	Lisa Wang/Manager ESTING

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Modified Information

Version Report No.		Revision Date	Summary	
Ver.1.0	ENS2302130194W00102R	/	Original Report	



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1 EUT TECHNICAL DESCRIPTION

Product:	65 inch internal kiosk	
Model Number:	65AMVF30-P03-Bk	
Power Supply	C 100-240V, 8A, 50/60Hz	
Test Voltage	AC 120V/60Hz	
Channel Frequency::	13.56MHz	
Antenna Type:	nduction coil antenna	
Antenna Gain:	0 dBi	
Temperature Range:	-10℃~+50℃	

Note: For more details, please refer to the user's manual of the EUT.



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2 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark	
2.1049	Occupied Bandwidth	PASS		
15.225(e)	Frequency stability	PASS		
15.225(d) 15.209	Radiated Spurious Emissions	PASS		
15.207	Conducted Emission PASS			
NOTE: N/A (Not Applicable)				

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2ASBQ-65AMVF30 filing to comply with Section 15.225 of the FCC Part 15, Subpart C Rules.



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3 TEST METHODOLOGY

3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

3.2 MEASUREMENT EQUIPMENT USED

For Conducted Emission Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESCI	101045	2022/5/14	1Year
PULSE LIMTER	Rohde & Schwarz	ESH3-Z2	100107	2022/5/14	1Year
AMN	Rohde & Schwarz	ESH3-Z5	100191	2022/5/15	1Year
AMN	Schwarzbeck	NNLK 8129	8129203	2022/5/15	1Year
V-Network	Rohde & Schwarz	ESH3-Z6	100011	2022/5/15	1Year
V-Network	Rohde & Schwarz	ESH3-Z6	100253	2022/5/15	1Year

For Spurious Emissions Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Pre-Amplifier	HP	8447F	2944A07999	2022/5/14	1Year
EMI Test Receiver	Rohde & Schwarz	ESCI	101414	2022/5/14	1Year
Bilog Antenna	Schwarzbeck	VULB9163	712	2021/7/5	2 Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1178	2021/8/22	2 Year
Pre-Amplifie	CDSI	PAP-1.0G18	23589	2022/5/15	1Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	100967	2022/5/14	1Year
Horn antenna	Schwarzbeck	BBHA9170	9170-399	2021/6/12	2 Year
Loop Antenna	Schwarzbeck	FMZB1519	1519-012	2021/6/12	2 Year

For other test items:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Wideband Radio Communication Tester	R&S	CMW500	171168	2022/5/3	1Year
Frequency Extender	R&S	CMW-Z800A	100430	2022/5/16	1Year
Spectrum Analyzer	R&S	FSV3044	MY60242456	2022/4/11	1Year
Analog Signal Generator	R&S	SMB100A	MY61252625	2022/4/22	1Year
Vector Signal Generator	R&S	SMM100A	MY61252674	2022/5/9	1Year
RF Control Unit	Tonscend	JS0806-2	22C8060567	2022/7/20	N/A
Temperature&Hum idity Chamber	ESPEC	EL-02KA	12107166	2022/7/2	1 Year

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3.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting mode is programmed.



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4 FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

EMTEK (Shenzhen) Co., Ltd.

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

4.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

4.3 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description EMC Lab.	 Accredited by CNAS The Certificate Registration Number is L2291 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017) Accredited by FCC Designation Number: CN1204 Test Firm Registration Number: 882943 Accredited by A2LA The Certificate Number is 4321.01 Accredited by Industry Canada
	The Conformity Assessment Body Identifier is CN0008
	 EMTEK (SHENZHEN) CO., LTD. Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

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5 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	±1x10^-5
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Occupied Bandwidth Test	±1.0dB
All emission, radiated	±3dB
Temperature	±0.5°C
Humidity	±3%

Measurement Uncertainty for a level of Confidence of 95%



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6 SETUP OF EQUIPMENT UNDER TEST

6.1 RADIO FREQUENCY TEST SETUP 1

The component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



6.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

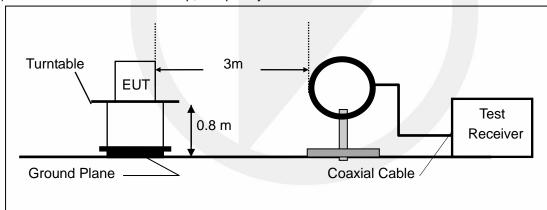
Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

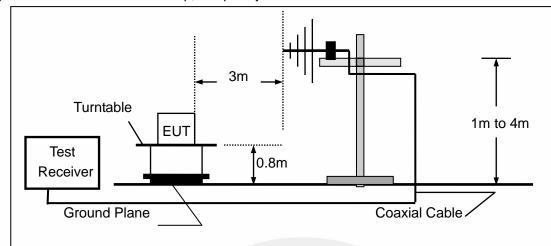
The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).





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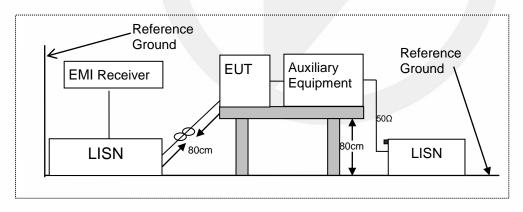


(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz

6.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN. Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

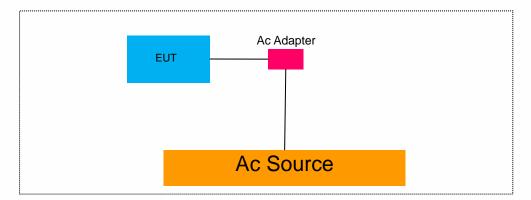
According to the requirements in ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



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6.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



6.5 SUPPORT EQUIPMENT

EUT Cable List and Details						
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite			

Auxiliary Cable List and Details						
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite			

Auxiliary Equipment List and Details					
Description	Manufacturer	Model	Serial Number		

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. Unless otherwise denoted as EUT in *[Remark]* column , device(s) used in tested system is a support equipment

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7 TEST REQUIREMENTS

7.1 OCCUPIED BANDWIDTH

7.1.1 Applicable Standard

According to FCC Part 2.1049

7.1.2 Conformance Limit

No limit requirement.

7.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

7.1.4 Test Procedure

The EUT was operating in transmit mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 1% occupied bandwidth(30Hz).

Set the video bandwidth (VBW) =3 times RBW .

Set Span= approximately 2 to 3 times the occupied bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 99% down one side of the emission. Reset the markerdelta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 99% bandwidth of the emission.

If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation.

Measure and record the results in the test report.

7.1.5 Test Results

Temperature : Humidity :		2011 0	t Date : t By:	February 28, 2 HYD	023
Modulation	Channel	Channel Frequenc	y Measurement	Bandwidth Limit	Verdict
Mode	Number	(MHz)	(kHz	z) (kHz)	veruici
ASK	0	13.56	4.77	6 N/A	PASS
Note: N/A (Not Applicable)					

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al	Occupied Bandwidth Channel 0: 13.56MHz ASK						
el							ASK Modulation
Spe	ctrum	ſ					
Ref Att	.evel 5.00 2		0 dB 👄 RBW 2 ms 👄 VBW		de Auto FFT		
●1Pk	Max						
0 dBr	n				M1[1]		-17.41 dBm 13.5597680 MHz
-10 d	Bm-			M1	ndB		20.00 dB 4.776000000 kHz
-20 d	Bm-				Q factor	- I - I -	2839.3
-30 d	Bm	T1	\wedge			T2	
-40 d	Bm-	- E				2	
-50 d	Bm						
-60 d	Bm						
-70 d	Bm						
-80 d	Bm						
-90 d							
	3.56 MHz			691 pts			Span 10.0 kHz
Marke	er e Ref Tr	c X-value	1 4	-value	Function	Function	Result
M		1 13.559768		-17.41 dBm	ndB down	runctor	4.776 kHz
T		1 13.557395 1 13.562171		-37.43 dBm -37.43 dBm	ndB Q factor		20.00 dB 2839.3
	1 M				Massing	E	28.02.2023

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7.2 FREQUENCY STABILITY

7.2.1 Applicable Standard

According to FCC Part 2.1055

7.2.2 Conformance Limit

According to part 15.225(e), The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to ± 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

7.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

7.2.4 Test Procedures

Connect the EUT to frequency analyzer via the antenna connector.

EUT was placed at temperature chamber and connected to an external power supply.

Temperature and voltage condition shall be tested to confirm frequency stability.

(a) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10° centigrade through the range. A period of time sufficient to stabilize all of the components of the oscillator circuit at each temperature level shall be allowed prior to frequency measurement. The short-term transient effects on the frequency of the transmitter due to keying (except for broadcast transmitters) and any heating element cycling normally occurring at each ambient temperature level also shall be shown. Only the portion or portions of the transmitter containing the frequency determining and stabilizing circuitry need be subjected to the temperature variation test.

(b) The frequency stability shall be measured with variation of primary supply voltage as follows:

(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

(2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point, which shall be specified by the manufacturer.

7.2.5 Test Results

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Operation	ration Channel		Test Condition		Freq.Dev.	Deviation	Limit
Mode	Number	Voltage (V)	Temp (℃)	Frequency (MHz)	(Hz)	(ppm)	(ppm)
			-10	13.559876	-124.0	-9.14	100
			0	13.559904	-96.0	-7.08	100
			10	13.560001	1.0	0.07	100
		Vnom	20	13.560089	89.0	6.56	100
			30	13.559988	-12.0	-0.88	100
ASK	CH0		40	13.559913	-87.0	-6.42	100
			50	13.559946	-54.0	-3.98	100
		85% Vnom	20	13.560076	76.0	5.60	100
		115% Vnom	20	13.560054	54.0	3.98	100
VERDICT				PAS	S		

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7.3 RADIATED SPURIOUS EMISSION

7.3.1 Applicable Standard

According to FCC Part 15.225 and 15.209

7.3.2 Conformance Limit

Field Strength of Fundamental Emissions and Spectrum Mask						
Emissions (uV/m)@30m (dBuV/m)@30m (dBuV/m)@10m (dBuV/m)@3m (dBuV/m)@1m						
Fundamental 15848 84.0 103.1 124.0 143.1						
Quasi peak mea	surement of the fu	undamental.				

Spectrum Mask							
Freq. of	(uV/m)@30m	(dBuV/m)@30m	(dBuV/m)@10m	(dBuV/m)@3m	(dBuV/m)@1m		
Emission (MHz)							
1.705~13.110	30	29.5	48.6	69.5	88.6		
13.110~13.410	106	40.5	59.6	80.5	99.6		
13.410~13.553	334	50.5	69.6	90.5	109.6		
13.553~13.567	15848	84.0	103.1	124.0	143.1		
13.567~13.710	334	50.5	69.6	90.5	109.6		
13.710~14.010	106	40.5	59.6	80.5	99.6		
14.010~30.000	30	29.5	48.6	69.5	88.6		

According to FCC Part15.205, Restricted bands

	Eee, needineted bande		
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	48.5 - 13.8	300
0.490-1.705	24000/F(KHz)	33.8 - 23.0	30
1.705-30	30	29.5	30
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

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7.3.3 Test Configuration

Test according to clause 6.2 radio frequency test setup 2

7.3.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 100 kHz for f < 1 GHz(30MHz to 1GHz), 200Hz for f<150KHz(9KHz to 150KHz), 9KHz for f<30MHz(150KHz to 30KHz)

 $VBW \ge RBW$

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

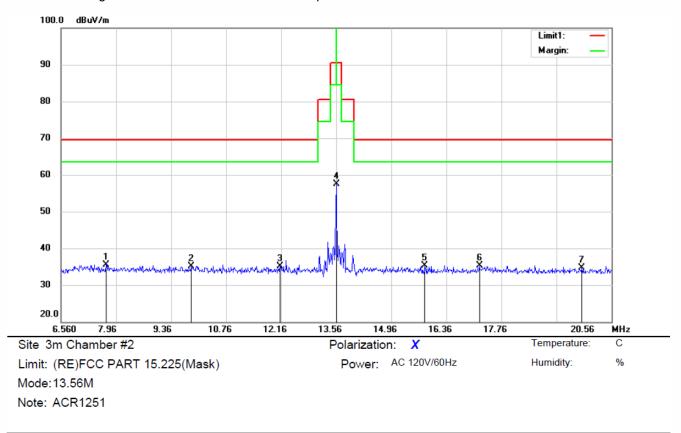
Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

7.3.5 Test Results

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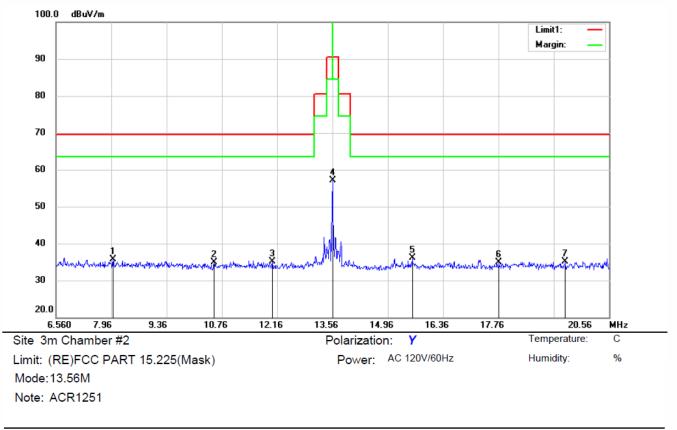


	Field Strength of Fundamental Emissions and Spectrum Mask
_	ricid Ottength of Fundamental Emissions and Opeetrum Mask

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	7.7080	15.13	20.33	35.46	69.50	-34.04	peak			
2		9.8780	14.83	20.20	35.03	69.50	-34.47	peak			
3		12.1320	15.04	20.03	35.07	69.50	-34.43	peak			
4		13.5600	37.72	19.84	57.56	124.00	-66.44	peak			
5		15.8140	15.54	19.66	35.20	69.50	-34.30	peak			
6		17.2000	15.78	19.61	35.39	69.50	-34.11	peak			
7		19.8040	14.99	19.66	34.65	69.50	-34.85	peak			

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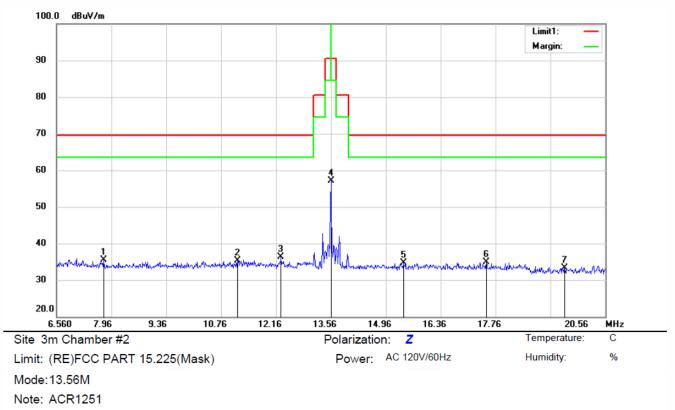
No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	8.0020	15.32	20.30	35.62	69.50	-33.88	peak			
2	10.5640	14.67	20.20	34.87	69.50	-34.63	peak			
3	12.0340	14.99	20.04	35.03	69.50	-34.47	peak			
4	13.5600	37.24	19.84	57.08	124.00	-66.92	peak			
5 *	15.5760	16.39	19.67	36.06	69.50	-33.44	peak			
6	17.7740	15.32	19.64	34.96	69.50	-34.54	peak			
7	19.4540	15.44	19.68	35.12	69.50	-34.38	peak			

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Report No. ENS2302130194W00102R

Ver.1.0





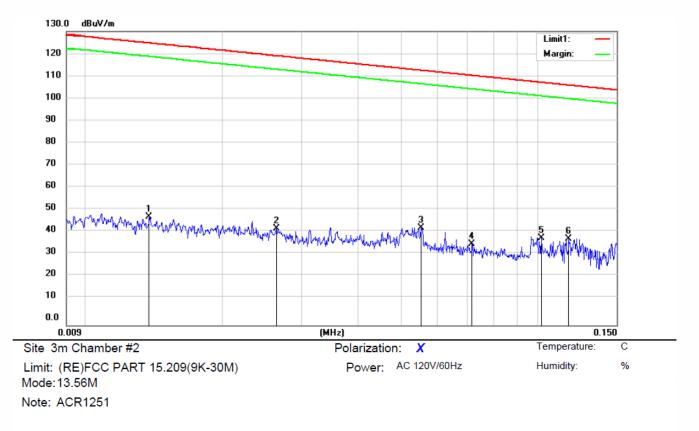
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		7.7640	15.26	20.32	35.58	69.50	-33.92	peak			
2		11.1800	15.20	20.17	35.37	69.50	-34.13	peak			
3	*	12.2860	16.19	20.01	36.20	69.50	-33.30	peak			
4		13.5600	37.17	19.84	57.01	124.00	-66.99	peak			
5		15.4080	15.09	19.68	34.77	69.50	-34.73	peak			
6		17.5220	15.25	19.63	34.88	69.50	-34.62	peak			
7		19.5240	13.62	19.67	33.29	69.50	-36.21	peak			

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Spurious Emission below 150kHz (9KHz to 150kHz)

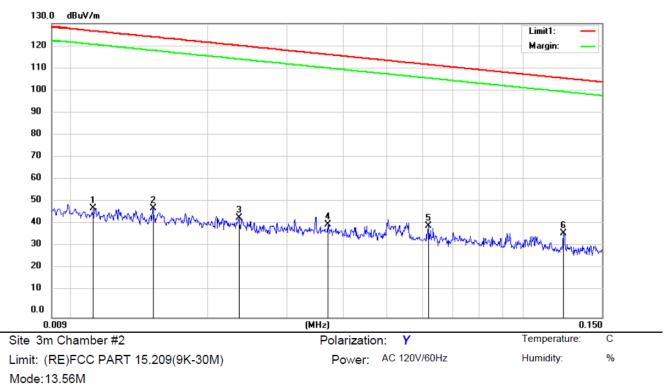
All mode have been tested, and the worst result was report as below:



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0137	27.57	20.40	47.97	124.85	-76.88	peak			
2	0.0263	22.24	20.40	42.64	119.19	-76.55	peak			
3	0.0551	22.57	20.65	43.22	112.77	-69.55	peak			
4	0.0714	15.50	20.51	36.01	110.52	-74.51	peak			
5	0.1020	17.99	20.48	38.47	107.42	-68.95	peak			
6 *	0.1174	17.98	20.29	38.27	106.20	-67.93	peak			

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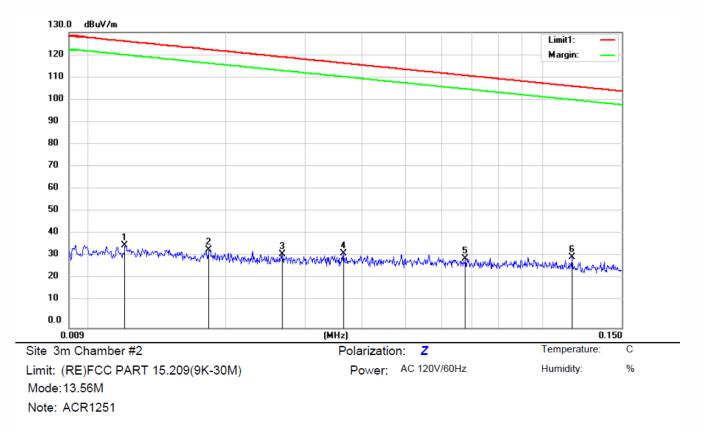


Note: ACR1251

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0111	27.89	20.40	48.29	126.68	-78.39	peak			
2	0.0151	27.73	20.40	48.13	124.01	-75.88	peak			
3	0.0234	23.51	20.40	43.91	120.21	-76.30	peak			
4	0.0370	20.71	20.50	41.21	116.23	-75.02	peak			
5	0.0618	19.94	20.58	40.52	111.77	-71.25	peak			
6 *	0.1231	17.10	20.20	37.30	105.79	-68.49	peak			

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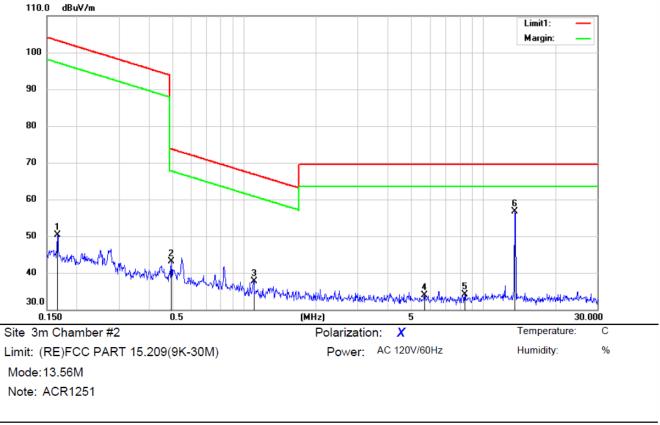


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0120	15.89	20.40	36.29	126.00	-89.71	peak			
2	0.0183	13.78	20.40	34.18	122.34	-88.16	peak			
3	0.0265	11.87	20.40	32.27	119.13	-86.86	peak			
4	0.0364	12.21	20.50	32.71	116.37	-83.66	peak			
5	0.0675	10.00	20.52	30.52	111.01	-80.49	peak			
6 *	0.1164	10.70	20.30	31.00	106.28	-75.28	peak			

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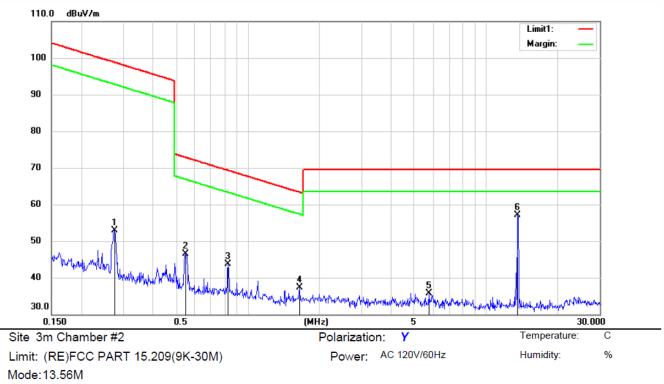
■ Spurious Emission below 30MHz (150KHz to 30MHz) All mode have been tested, and the worst result was report as below:



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.1658	30.14	20.13	50.27	103.21	-52.94	peak			
2	0.4966	22.32	20.79	43.11	73.68	-30.57	peak			
3	1.0995	16.99	20.78	37.77	66.80	-29.03	peak			
4	5.6832	13.53	20.33	33.86	69.50	-35.64	peak			
5	8.3670	13.87	20.26	34.13	69.50	-35.37	peak			
6 *	13.5508	36.84	19.84	56.68	69.50	-12.82	peak			

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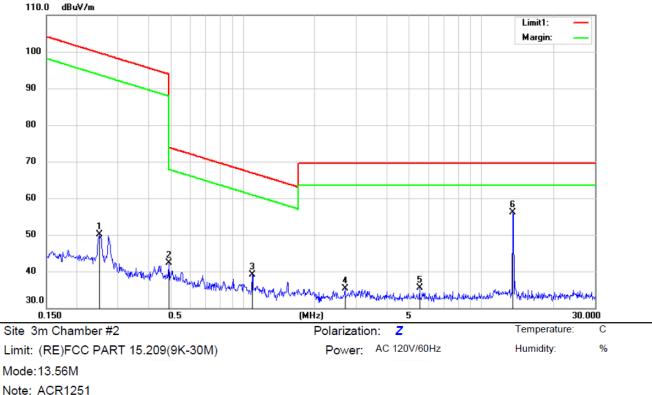


Note: ACR1251

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.2757	32.64	20.35	52.99	98.79	-45.80	peak			
2	0.5463	25.79	20.80	46.59	72.86	-26.27	peak			
3	0.8260	22.84	20.80	43.64	69.28	-25.64	peak			
4	1.6450	16.66	20.67	37.33	63.31	-25.98	peak			
5	5.7437	15.39	20.34	35.73	69.50	-33.77	peak			
6 *	13.5508	37.31	19.84	57.15	69.50	-12.35	peak			

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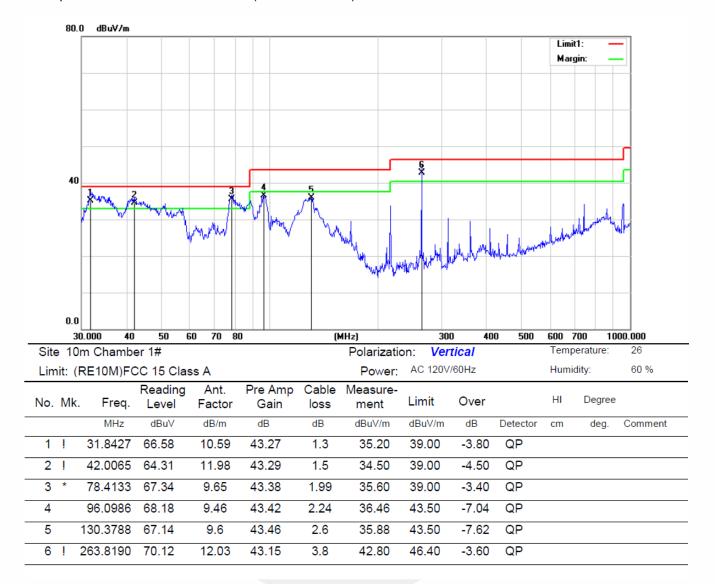
Note:	ACR1	25
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No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.2494	29.84	20.30	50.14	99.66	-49.52	peak			
2	0.4890	21.45	20.78	42.23	93.82	-51.59	peak			
3	1.0938	18.32	20.78	39.10	66.84	-27.74	peak			
4	2.6781	14.91	20.46	35.37	69.50	-34.13	peak			
5	5.5053	15.16	20.33	35.49	69.50	-34.01	peak			
6 *	13.5508	36.31	19.84	56.15	69.50	-13.35	peak			

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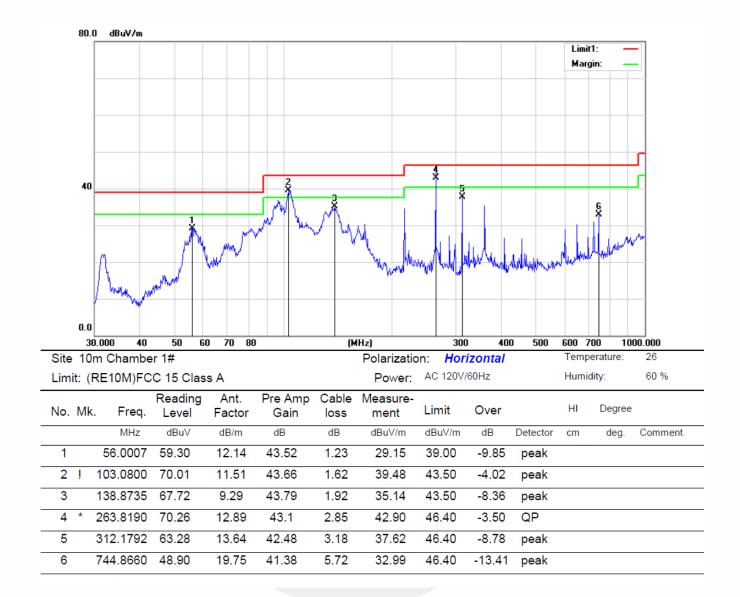


Spurious Emission Above 30MHz (30MHz to 1GHz)



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7.4 CONDUCTED EMISSION TEST

7.4.1 Applicable Standard

According to FCC Part 15.207(a)

7.4.2 Conformance Limit

Conducted Emission Limit									
Frequency(MHz)	Quasi-peak	Average							
0.15-0.5	66-56	56-46							
0.5-5.0	56	46							
5.0-30.0	60	50							
Note: 1. The lower limit shall apply at t	he transition frequencies								

Note: 1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.4.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

7.4.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Repeat above procedures until all frequency measured were complete.

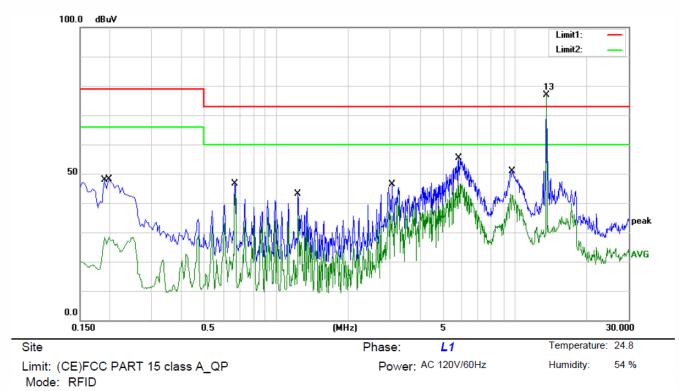
7.4.5 Test Results

Pass

The 120V &240V voltagehave been tested, and the worst result recorded was report as below:

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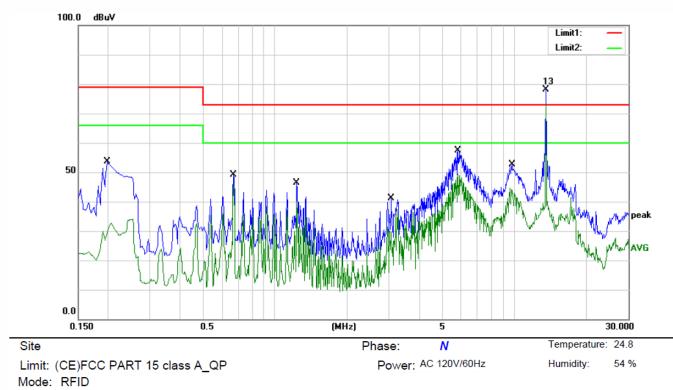


Note:

No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1900	18.23	10.25	28.48	66.00	-37.52	AVG	
2		0.1900	37.84	10.25	48.09	79.00	-30.91	QP	
3		0.6700	36.23	10.28	46.51	73.00	-26.49	QP	
4		0.6700	32.92	10.28	43.20	60.00	-16.80	AVG	
5		1.2340	32.67	10.39	43.06	73.00	-29.94	QP	
6		1.2340	25.77	10.39	36.16	60.00	-23.84	AVG	
7		3.0580	36.10	10.31	46.41	73.00	-26.59	QP	
8		3.0580	31.50	10.31	41.81	60.00	-18.19	AVG	
9		5.8260	44.88	10.39	55.27	73.00	-17.73	QP	
10		5.8260	36.22	10.39	46.61	60.00	-13.39	AVG	
11		9.7060	40.44	10.45	50.89	73.00	-22.11	QP	
12		9.7060	32.55	10.45	43.00	60.00	-17.00	AVG	
13	*	13.5620	66.52	10.48	77.00	73.00	4.00	peak	

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Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1980	43.37	10.25	53.62	79.00	-25.38	QP	
2		0.1980	21.99	10.25	32.24	66.00	-33.76	AVG	
3		0.6700	38.73	10.28	49.01	73.00	-23.99	QP	
4		0.6700	35.48	10.28	45.76	60.00	-14.24	AVG	
5		1.2340	36.04	10.39	46.43	73.00	-26.57	QP	
6		1.2340	25.62	10.39	36.01	60.00	-23.99	AVG	
7		3.0580	30.92	10.31	41.23	73.00	-31.77	QP	
8		3.0580	26.98	10.31	37.29	60.00	-22.71	AVG	
9		5.8260	46.95	10.39	57.34	73.00	-15.66	QP	
10		5.8260	38.90	10.39	49.29	60.00	-10.71	AVG	
11		9.7740	42.13	10.45	52.58	73.00	-20.42	QP	
12		9.7740	34.23	10.45	44.68	60.00	-15.32	AVG	
13	*	13.5660	67.72	10.48	78.20	73.00	5.20	peak	

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8 ANTENNA APPLICATION

8.1.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 15.203	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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, 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. if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.2 RESULT

The EUT is Induction coil antenna, the antenna's gain is 0 dBi and meets the requirement, and the antenna can't be replaced by the user, which in accordance to section 15.203.

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