Report No.: ET-23080906E01

TEST REPORT

Applicant:	Shenzhen Yiqizhao Technology Co.,Ltd
Address of Applicant:	201, Floor 2, Building 6, Yunli Intelligent Park, No. 3, Changfa Middle Road, Yangmei Community, Bantian Street, Shenzhen, Guangdong, China
Manufacturer/Factory:	Shenzhen Yiqizhao Technology Co.,Ltd
Address of Manufacturer/Factory:	201, Floor 2, Building 6, Yunli Intelligent Park, No. 3, Changfa Middle Road, Yangmei Community, Bantian Street, Shenzhen, Guangdong, China
Product Name:	wireless charging car phone holder
Model No.:	A3
Trade Mark:	N/A
FCC ID:	2BC2X-A3
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C
Date of Test:	August.11, 2023- August.15, 2023
Date of report issued:	August.15, 2023
Test Result :	PASS

Remark:

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

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver

Prepared By

Shenzhen ETR Standard Technology Co., Ltd.

Address: No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Compiled by:	Reviewed by:	Approved by:
Carr kang	Smith chen	Smith chen
Project Engineer	Project Manager	Authorized Signature

Report Revision History		
Report No.	Description	Issue Date
ET-23080906E01	Original	Jul.28, 2023

Contents

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1 Test Summary

Test Item	Section in CFR 47	Result	Test by
Antenna requirement	15.203	Pass	/
AC Power Line Conducted Emission	15.207	Pass	Qiao Li
Radiated Emission	15.209	Pass	Qiao Li
20dB Occupied Bandwidth	2.1049&15.215	Pass	Yvan Fan

Remarks:

1. *Pass: The EUT complies with the essential requirements in the standard.*
2. *Test according to ANSI C63.10:2013*

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz-30MHz	±3.98 dB	(1)
Radiated Emission	30MHz-1000MHz	±4.30 dB	
Radiated Emission	1GHz-18GHz	±4.35 dB	(1)
Radiated Emission	18GHz-40GHz	±4.59 dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.02 dB	(1)
Occupied Channel Bandwidth	/	±0.55%	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.			

2 General Information

2.1 General Description of EUT

Product Name:	wireless charging car phone holder
Model No.:	A3
Model of difference:	N/A
Test model:	A3
Sample(s) Status:	Engineer sample
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	115~205KHz
Modulation type:	ASK
Antenna Type:	Induction coil Antenna
Power supply:	Input: DC 5V/9V/12V from USB port Output: 15W(MAX)

Test channel

Channel	Frequency
Middle channel	127.8KHz

2.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.

Pretest mode	Description
Mode 1	Empty load
Mode 2	Half load
Mode 3	Full load
For conducted emission	
Final test mode	Full load
For Radiated emission	
Final test mode	Full load

2.3 Description of Support Units

Equipment	Model	S/N	Manufacturer
Adapter	YG65	/	Lenovo
Load(15W Max)	/	/	/

2.4 Deviation from Standards

None.

2.5 Test Facility

Test laboratory:	Shenzhen ETR Standard Technology Co., Ltd.
CNAS Registration Number:	L11864
A2LA Certificate Number:	6640.01
FCC Designation Number:	CN1326
FCC Test Firm Registration:	183064

2.6 Test Location

All tests were performed at:

Laboratory location:	No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	+86 755 85259392
Fax:	+86 755 27219460

2.7 Additional Instructions

Test Software	/
Power level setup	Default

3 Test Instruments list

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	100605	2023.3.02	2024.3.01
2	EMI Test Receiver	Rohde&schwarz	ESCI3	102696	2023.3.02	2024.3.01
3	Loop Antenna	schwarabeck	FMZB 1519 B	FMZB 1519 B	2022.3.11	2024.3.10
4	Broadband antenna	schwarabeck	VULB9168	1064	2022.3.11	2024.3.10
5	Horn antenna	schwarabeck	BBHA9120D	9120D-1145	2022.3.11	2024.3.10
6	amplifier	EMtrace	RP01A	50117	2023.3.02	2024.3.01
7	Artificial power network	schwarabeck	NSLK8127	8127483	2023.3.02	2024.3.01
8	Artificial power network	ETS	3186/2NM	1132	2023.3.02	2024.3.01
9	10dB attenuator	HUBER+SUHNER	10dB	/	2023.3.02	2024.3.01
10	amplifier	Space-Dtronics	EWLAN0118G-P40	19113001	2023.3.02	2024.3.01
11	Filter	Xingbo	XBLBQ-GTA19	210410-3-1	2023.3.06	2024.3.05
12	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	2023.3.02	2024.3.01
13	Power detector box	MWRFtest	MW100-PSB	MW201020JYT	2022.11.18	2023.11.17

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

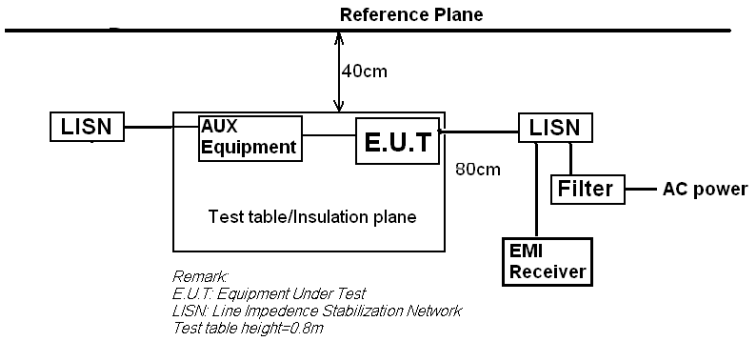
Software Name	Manufacturer	Model	Version
Conducted test software	EZ-EMC	Farad	Ver.EMC-CON 3A1.1
Radiated test software	EZ-EMC	Farad	Ver.FA-03A2 RE

4 Test results and Measurement Data

4.1 Antenna requirement

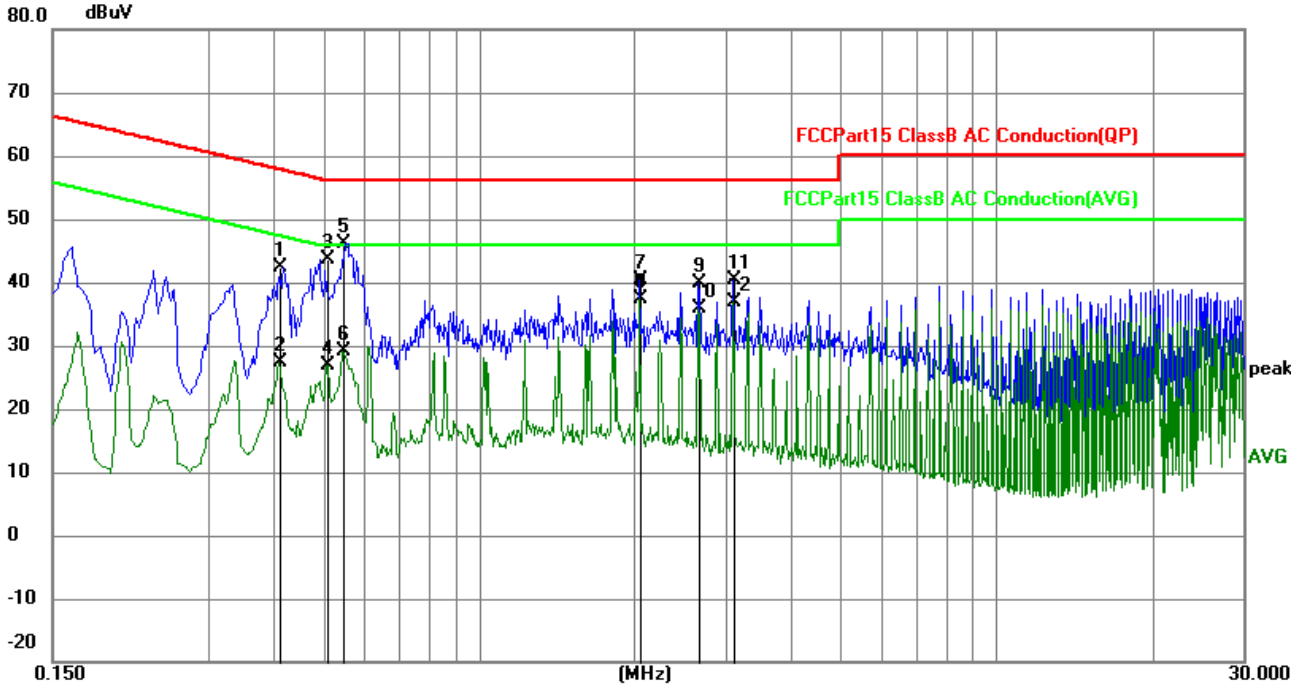
Standard requirement:
FCC part 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional 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 EUT antenna is Coil Antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

4.2 Conducted Emissions

<table>
<tr><td>Test Requirement:</td><td colspan="6">FCC Part15 C Section 15.207,</td></tr>
<tr><td>Test Method:</td><td colspan="6">ANSI C63.10:2013</td></tr>
<tr><td>Test Frequency Range:</td><td colspan="6">150KHz to 30MHz</td></tr>
<tr><td>Class / Severity:</td><td colspan="6">Class B</td></tr>
<tr><td>Receiver setup:</td><td colspan="6">RBW=9KHz, VBW=30KHz, Sweep time=auto</td></tr>
<tr><td>Limit:</td><td colspan="6"><table>
<tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBuV)</td></tr>
<tr><td>Quasi-peak</td><td>Average</td></tr>
<tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr>
<tr><td>0.5-5</td><td>56</td><td>46</td></tr>
<tr><td>5-30</td><td>60</td><td>50</td></tr>
</table>* Decreases with the logarithm of the frequency.</td></tr>
<tr><td>Test setup:</td><td colspan="6"> 
</td></tr>
<tr><td>Test procedure:</td><td colspan="6">1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.</td></tr>
<tr><td>Test Instruments:</td><td colspan="6">Refer to section 3.0 for details</td></tr>
<tr><td>Test mode:</td><td colspan="6">Refer to section 2.2 for details</td></tr>
<tr><td>Test environment:</td><td>Temp.:</td><td>23.5 °C</td><td>Humid.:</td><td>55%</td><td>Press.:</td><td>1012mbar</td></tr>
<tr><td>Test voltage:</td><td colspan="6">AC 120V/60Hz</td></tr>
</table>

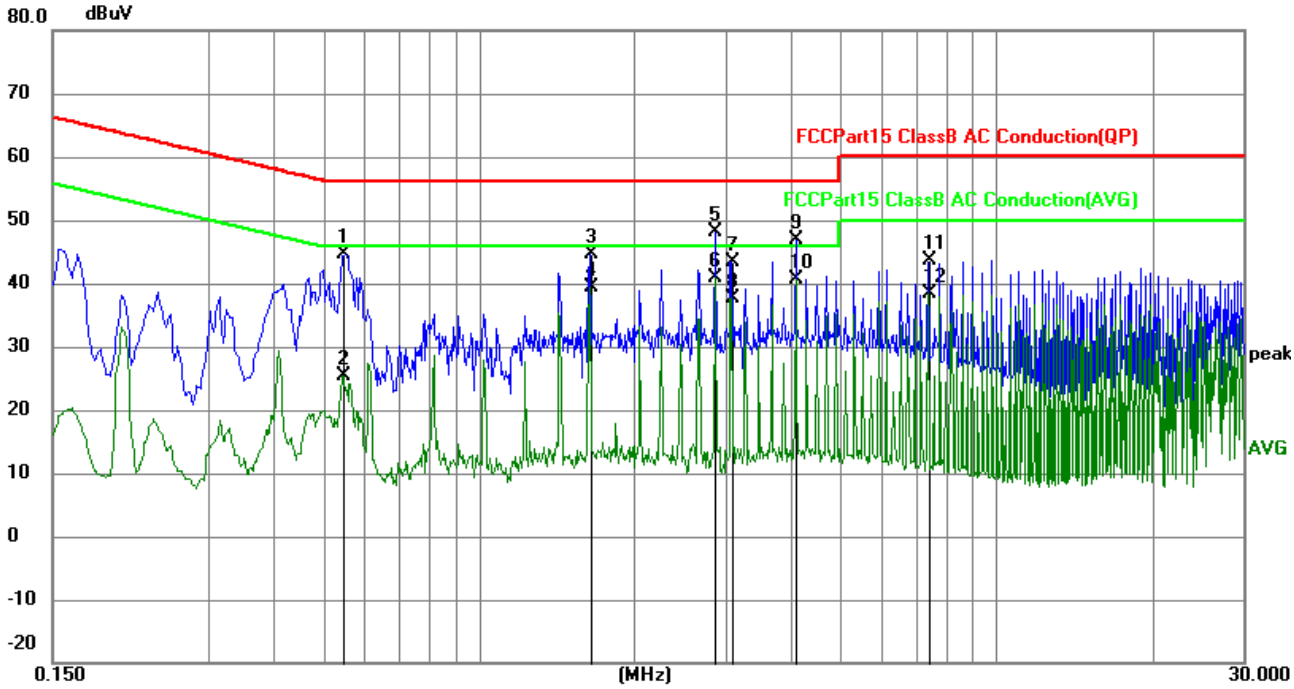
Measurement data

Line:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4110	32.44	9.90	42.34	57.63	-15.29	QP	P
2	0.4110	17.36	9.90	27.26	47.63	-20.37	AVG	P
3	0.5100	33.64	9.94	43.58	56.00	-12.42	QP	P
4	0.5100	17.01	9.94	26.95	46.00	-19.05	AVG	P
5	0.5459	36.13	9.94	46.07	56.00	-9.93	QP	P
6	0.5459	19.07	9.94	29.01	46.00	-16.99	AVG	P
7	2.0490	30.58	9.85	40.43	56.00	-15.57	QP	P
8	2.0490	27.48	9.85	37.33	46.00	-8.67	AVG	P
9	2.6610	29.96	9.85	39.81	56.00	-16.19	QP	P
10	2.6610	26.03	9.85	35.88	46.00	-10.12	AVG	P
11	3.1065	30.57	9.84	40.41	56.00	-15.59	QP	P
12	3.1065	27.08	9.84	36.92	46.00	-9.08	AVG	P

Neutral:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.5459	34.57	9.94	44.51	56.00	-11.49	QP	P
2	0.5459	15.46	9.94	25.40	46.00	-20.60	AVG	P
3	1.6395	34.65	9.90	44.55	56.00	-11.45	QP	P
4	1.6395	29.51	9.90	39.41	46.00	-6.59	AVG	P
5	2.8680	38.24	9.85	48.09	56.00	-7.91	QP	P
6	2.8680	31.14	9.85	40.99	46.00	-5.01	AVG	P
7	3.0750	33.66	9.84	43.50	56.00	-12.50	QP	P
8	3.0750	27.91	9.84	37.75	46.00	-8.25	AVG	P
9	4.0965	36.97	9.84	46.81	56.00	-9.19	QP	P
10	4.0965	30.77	9.84	40.61	46.00	-5.39	AVG	P
11	7.3725	33.73	9.83	43.56	60.00	-16.44	QP	P
12	7.3725	28.51	9.83	38.34	50.00	-11.66	AVG	P

Notes:

1. *An initial pre-scan was performed on the line and neutral lines with peak detector.*
2. *Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.*
3. *Final Level =Receiver Read level + LISN Factor + Cable Loss*
4. *If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessar*

4.3 Radiated Emission measurement

Test Requirement:	FCC Part15 C Section 15.209 & 15.249 (a) &(d). RSS-210 B10(a)& RSS-210 B10(b)& RSS-Gen Clause 8.9&8.10
Test Method:	ANSI C63.10: 2013 & RSS-Gen
Test Frequency Range:	9kHz to 30MHz
Test site:	Measurement Distance: 3m

Receiver setup:

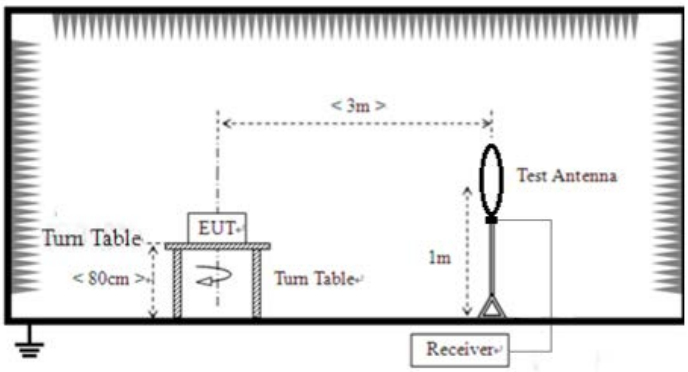
Frequency	Detector	RBW	VBW	Remark
9kHz-150kHz	Quasi-peak	200Hz	300Hz	Quasi-peak Value
150kHz-30MHz	Quasi-peak	9kHz	10kHz	Quasi-peak Value
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value

Limit:

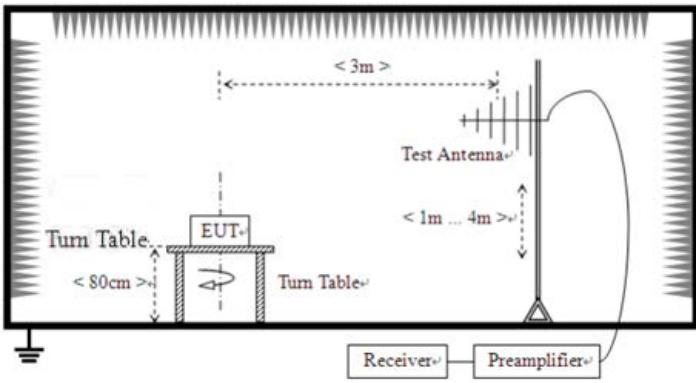
Frequency	Limit (uV/m)	Remark
0.009MHz-0.490MHz	2400/F(kHz) @300m	Quasi-peak Value
0.490MHz-1.705MHz	24000/F(kHz) @30m	Quasi-peak Value
1.705MHz-30.0MHz	30 @30m	Quasi-peak Value
30MHz-88MHz	100 @3m	Quasi-peak Value
88MHz-216MHz	150 @3m	Quasi-peak Value
216MHz-960MHz	200 @3m	Quasi-peak Value
960MHz-1GHz	500 @3m	Quasi-peak Value

Test setup:

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



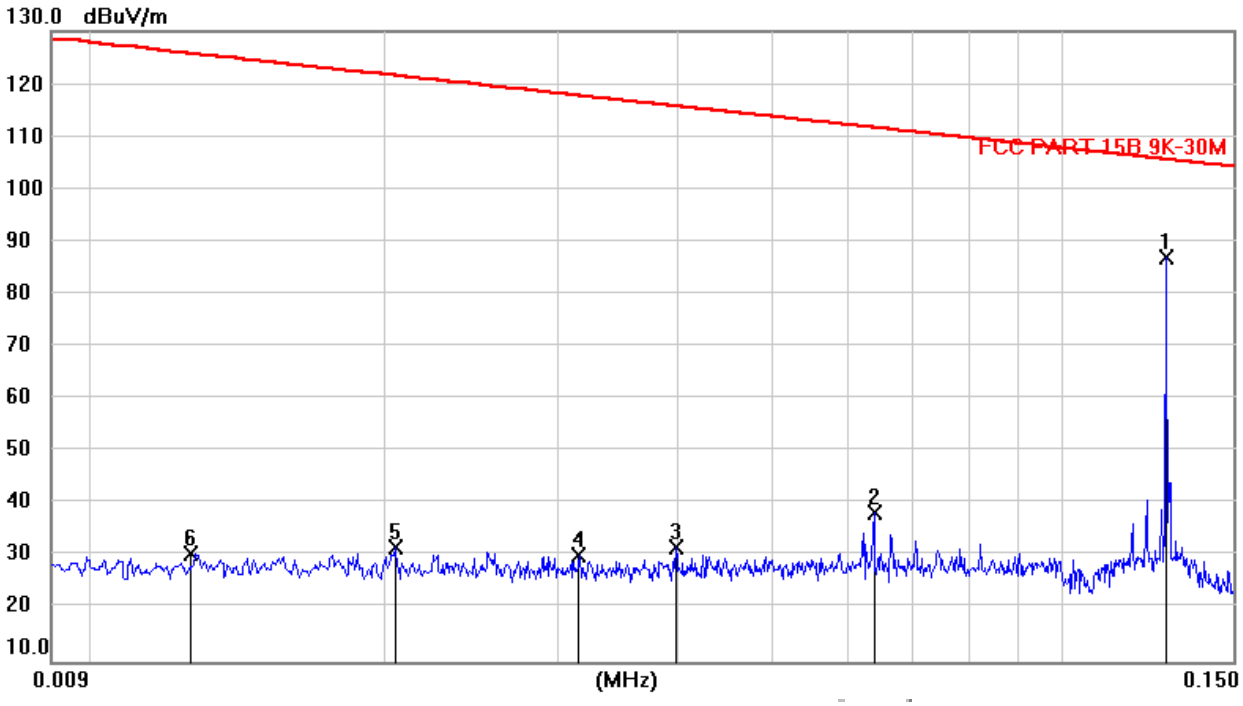
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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.					
Test Instruments:	Refer to section 3.0 for details					
Test mode:	Refer to section 2.2 for details					
Test environment:	Temp.:	25.6 °C	Humid.:	55%	Press.:	1012mbar
Test voltage:	DC 9V					
Test results:	Pass					

■ **Measurement data:**

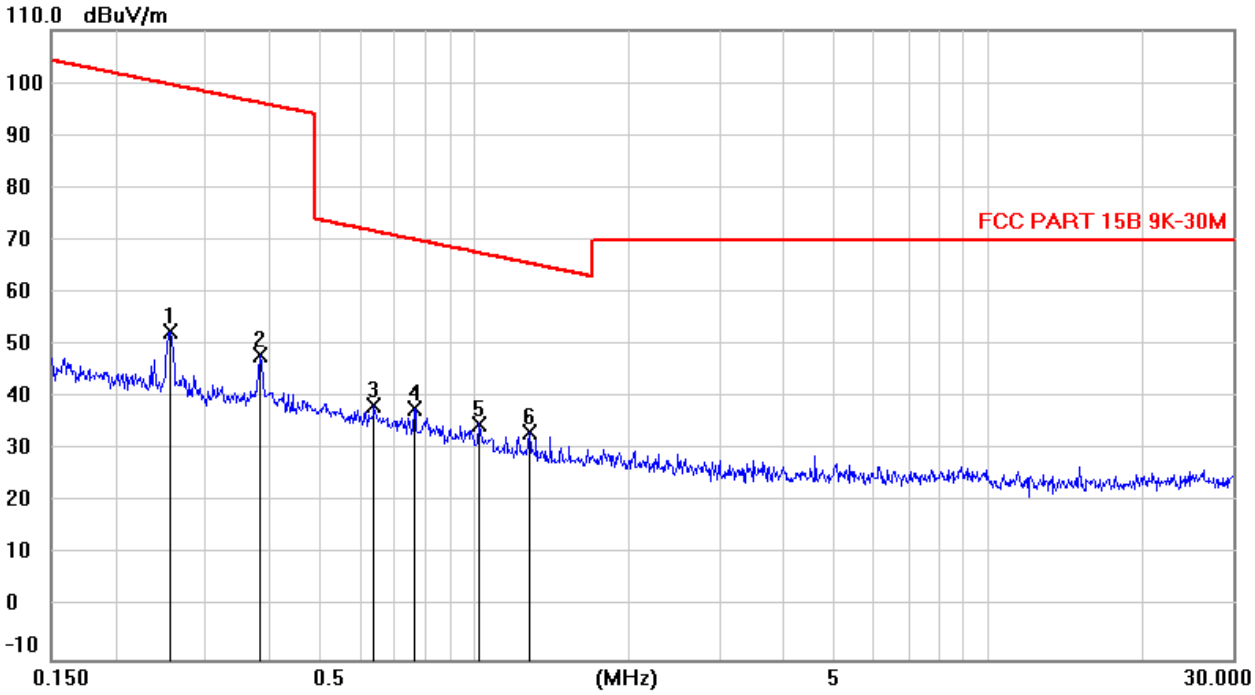
Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

Below 30MHz



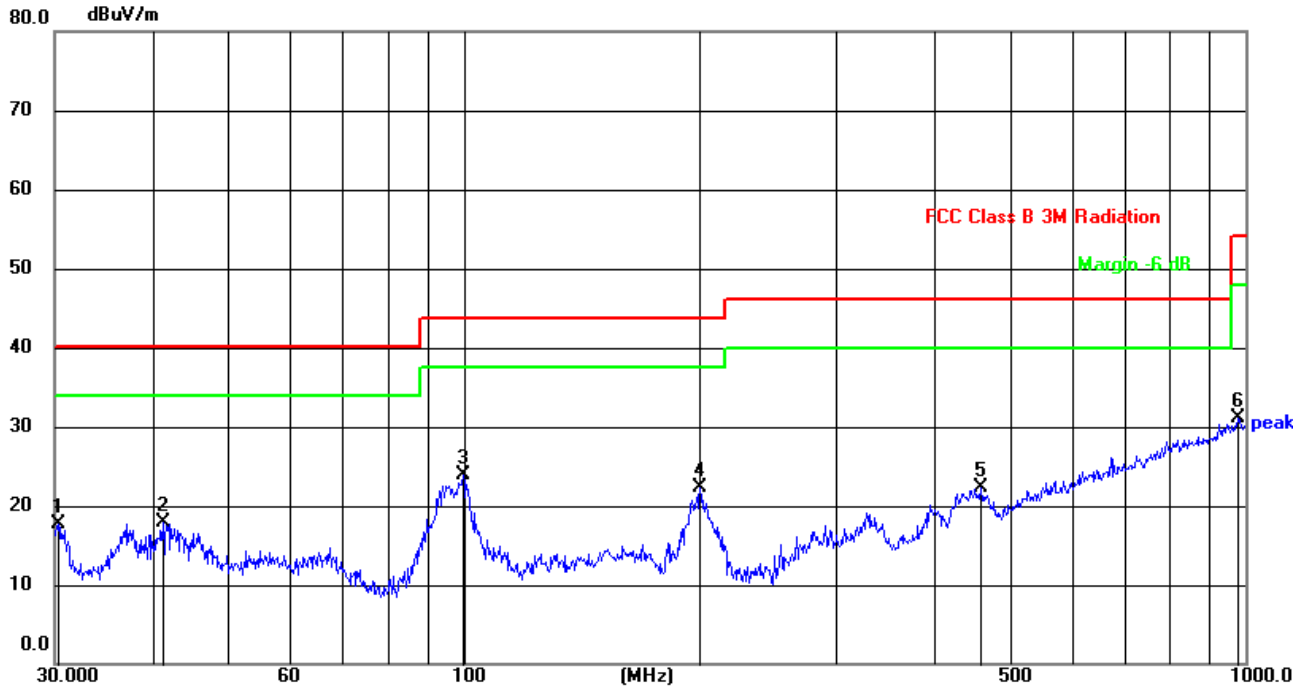
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	0.1276	66.99	19.88	86.87	105.6	-18.78	peak
2		0.0637	18.25	20.11	38.36	111.6	-73.30	peak
3		0.0398	11.39	20.46	31.85	115.7	-83.88	peak
4		0.0316	9.43	20.90	30.33	117.7	-87.40	peak
5		0.0205	10.54	21.23	31.77	121.4	-89.71	peak
6		0.0126	9.12	21.43	30.55	125.6	-95.14	peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		0.2549	32.62	20.05	52.67	99.66	-46.99	peak
2		0.3834	28.17	19.87	48.04	96.12	-48.08	peak
3		0.6381	18.75	19.78	38.53	71.67	-33.14	peak
4	*	0.7641	18.03	19.86	37.89	70.08	-32.19	peak
5		1.0176	15.00	20.00	35.00	67.55	-32.55	peak
6		1.2782	13.19	20.07	33.26	65.54	-32.28	peak

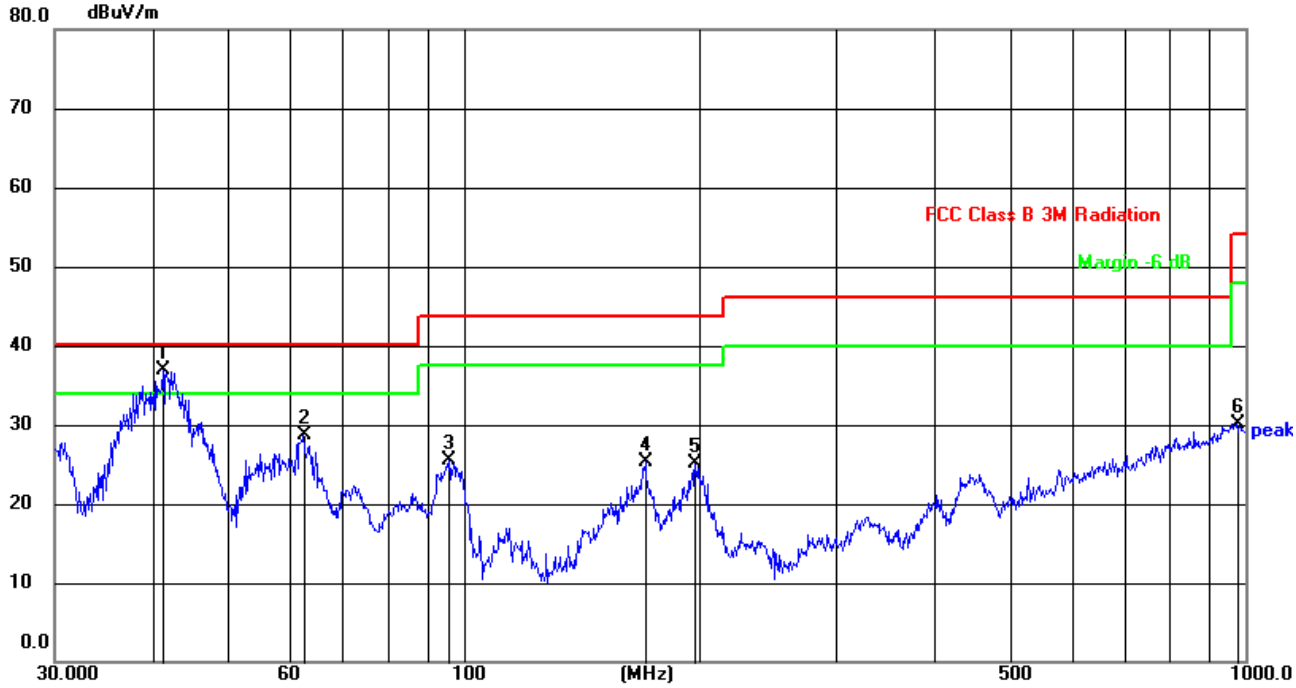
Below 1GHz

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.3172	40.41	-22.71	17.70	40.00	-22.30	QP
2	41.2765	38.85	-21.01	17.84	40.00	-22.16	QP
3	99.8777	49.13	-25.22	23.91	43.50	-19.59	QP
4	200.6880	45.66	-23.39	22.27	43.50	-21.23	QP
5	459.1144	37.81	-15.54	22.27	46.00	-23.73	QP
6	979.1804	34.66	-3.54	31.12	54.00	-22.88	QP

Vertical:

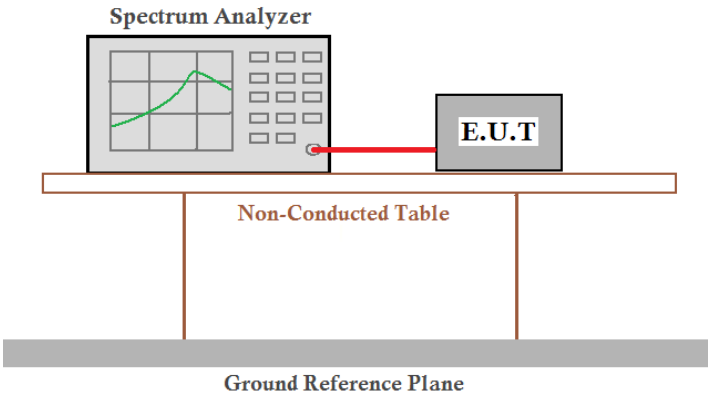


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	41.2765	57.85	-21.01	36.84	40.00	-3.16	QP
2	62.4314	51.54	-22.93	28.61	40.00	-11.39	QP
3	95.7622	50.77	-25.30	25.47	43.50	-18.03	QP
4	170.7926	46.29	-21.07	25.22	43.50	-18.28	QP
5	197.8928	48.49	-23.33	25.16	43.50	-18.34	QP
6	975.7529	33.69	-3.58	30.11	54.00	-23.89	QP

Remark:

1. *Final Level =Receiver Read level +Correction Factor(Antenna Factor + Cable Loss – Preamplifier Factor)*
2. *The emission levels of other frequencies are more than 20 dB below the limit and not show in test report.*
3. *"*", means this data is the too weak instrument of signal is unable to test.*

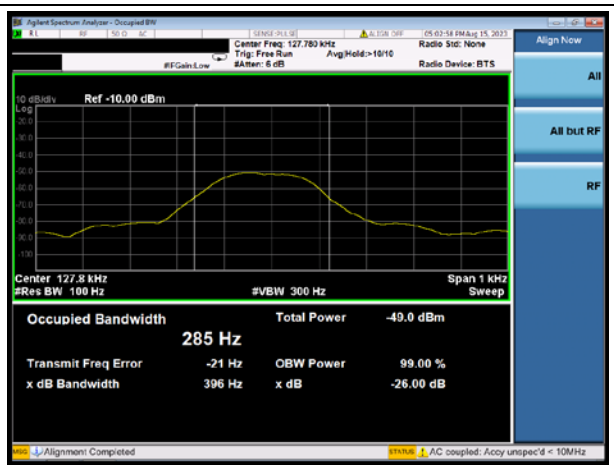
4.4 20dB Bandwidth

Test Requirement:	FCC Part15 C Section 15.215 RSS-Gen Section 6.7					
Test Method:	ANSI C63.10:2013 and RSS-Gen					
Limit:	Only appliance report					
Test setup:						
Test Instruments:	Refer to section 3.0 for details					
Test mode:	Refer to section 2.2 for details					
Test environment:	Temp.:	25.6 °C	Humid.:	55%	Press.:	1012mbar
Test voltage:	DC 9V					
Test Mode:	TX					

Measurement Data

Test frequency (KHz)	20dB Bandwidth (KHz)
127.8	0.396

Test plot as follows:



5 Test Setup Photo

Reference to the **appendix I** Test Setup Photo for details.

6 EUT Constructional Details

Reference to the **appendix II** external photos and **appendix III** internal photos for details.

------End------