

TEST REPORT

Applicant: SHENZHEN MEINOE ELECTRONICS TECHNOLOGY CO.,LTD.

Address of Applicant: 4/F Bldg.21,Blk C, NanLian No.6 industrial zone,Longgang district, Shenzhen city, China

Manufacturer/Factory: SHENZHEN MEINOE ELECTRONICS TECHNOLOGY CO.,LTD.

Address of Manufacturer/Factory: 4/F Bldg.21,Blk C, NanLian No.6 industrial zone,Longgang district, Shenzhen city, China

Equipment Under Test (EUT)

Product Name: Portable Bluetooth CD player

Model No.: MS-010, MS-010-W, MS-010-B, MS-011, MS-012, MS-013, MS-015, MS-016, MS-017, MS-018, MS-019, MS-020, MS-021, MS-022, MS-023, MS-024, MS-025, MS-026, MS-027, MS-028, MS-029, MS-030, MS-031, MS-032, MS-001, MS-002, MS-003, MS-005, MS-006, MS-007, MS-008, MS-009, CM-608, RD-X7, RD-X9, RD-X10

FCC ID: 2BXHV-MS-010

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.239

Date of sample receipt: July 20, 2026

Date of Test: July 21, 2026-August 17, 2026

Date of report issued: August 17, 2026

Test Result : PASS *

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

Authorized Signature:



Laboratory Manager

This 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.

2 Version

Version No.	Date	Description
00	August 17, 2026	Original

Tested By:

Jaoh. Cai

Date:

August 17, 2026

Test Engineer

Prepared By:

Jianliu

Date:

August 17, 2026

Project Engineer

Check By:

Robinson

Date:

August 17, 2026

Reviewer

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4 Test Summary

Test Item	Section	Result
Antenna requirement	47 CFR Part 15, Subpart C 15.203	Pass
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C 15.207	Pass
Field strength of the fundamental signal	47 CFR Part 15, Subpart C 15.239(b)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.239 (c)	Pass
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C 15.239(a)	Pass

Remarks:

1. Test according to ANSI C63.10:2020.
2. Pass: The EUT complies with the essential requirements in the standard.
3. N/A: Not applicable

4.1 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 3\text{dB}$
6	Conducted Spurious emissions	$\pm 2.58\text{dB}$
7	AC Power Line Conducted Emission	$\pm 3.44\text{dB}$ (0.15MHz ~ 30MHz)
8	Radiated Spurious emission test	$\pm 3.1\text{dB}$ (9kHz-30MHz)
		$\pm 3.8039\text{dB}$ (30MHz-200MHz)
		$\pm 3.9679\text{dB}$ (200MHz-1GHz)
		$\pm 4.29\text{dB}$ (1GHz-18GHz)
		$\pm 3.30\text{dB}$ (18GHz-40GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Time	$\pm 3\%$

5 General Information

5.1 General Description of EUT

Product Name:	Portable Bluetooth CD player
Model No.:	MS-010, MS-010-W, MS-010-B, MS-011, MS-012, MS-013, MS-015, MS-016, MS-017, MS-018, MS-019, MS-020, MS-021, MS-022, MS-023, MS-024, MS-025, MS-026, MS-027, MS-028, MS-029, MS-030, MS-031, MS-032, MS-001, MS-002, MS-003, MS-005, MS-006, MS-007, MS-008, MS-009, CM-608, RD-X7, RD-X9, RD-X10
Test Model No.:	MS-010
Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are appearance color and model name for commercial purpose.	
Test sample(s) ID:	GTS2026070421-1
Sample(s) Status:	Engineer sample
S/N:	MS260600001
Operation Frequency:	88.1MHz~107.9MHz
Channel numbers:	199
Channel Separation:	100KHz
Modulation Type:	FM
Antenna Type:	Integral antenna
Antenna Gain:	0dBi(declare by applicant)
Power Supply:	DC 3.7V, 2500mAh, 9.25Wh for Li-ion battery The battery is charged via USB DC 5V

Disclaimer statement:

1. Antenna gain information provided by the customer, and the laboratory is not responsible for its authenticity.
2. The information in this section is provided by the applicant or manufacturer, GTS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Operation Frequency each of Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	88.1MHz	46	92.6MHz	96	97.6MHz	146	102.6MHz
2	88.2MHz	47	92.7MHz	97	97.7MHz	147	102.7MHz
3	88.3MHz	48	92.8MHz	98	97.8MHz	148	102.8MHz
4	88.4MHz	49	92.9MHz	99	97.9MHz	149	102.9MHz
5	88.5MHz	50	93.0MHz	100	98.0MHz	150	103.0MHz
6	88.6MHz	51	93.1MHz	101	98.1MHz	151	103.1MHz
7	88.7MHz	52	93.2MHz	102	98.2MHz	152	103.2MHz
8	88.8MHz	53	93.3MHz	103	98.3MHz	153	103.3MHz
9	88.9MHz	54	93.4MHz	104	98.4MHz	154	103.4MHz
10	89.0MHz	55	93.5MHz	105	98.5MHz	155	103.5MHz
11	89.1MHz	56	93.6MHz	106	98.6MHz	156	103.6MHz
12	89.2MHz	57	93.7MHz	107	98.7MHz	157	103.7MHz
13	89.3MHz	58	93.8MHz	108	98.8MHz	158	103.8MHz
.....							
45	92.5MHz	95	97.5MHz	145	102.5MHz	199	107.9MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test Channel:

Channel	Frequency
The lowest channel	88.1MHz
The middle channel	98.0MHz
The Highest channel	107.9MHz

5.2 Test mode

Mode 1	Keep transmit mode
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Per-test mode:

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	53.39	54.86	52.66

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
UGREEN	USB Charger	CD244	N/A
APPLE	Mobile Phone	IPHONE XR	DX3ZG240KXM7
Sony	Headphone	N/A	N/A

5.4 Test Facility

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

- **FCC —Registration No.: 381383**

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

- **ISED—Registration No.: 9079A**

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing.

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.6 Other Information Requested by the Customer

None.

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Apr. 10, 2026	Apr. 09, 2031
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Apr. 10, 2026	Apr. 09, 2027
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Apr. 11, 2026	Apr. 10, 2027
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 11, 2026	Apr. 10, 2027
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Jul 17, 2026	Jul 16, 2027
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.22, 2025	Nov.21, 2026
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 10, 2026	Apr. 09, 2027
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 10, 2026	Apr. 09, 2027
10	Horn Antenna (18GH-40GHz)	Schwarzbeck	BBHA 9170	GTS691	Apr. 11, 2026	Apr. 10, 2027
11	Spectrum analyzer (9kHz-40GHz)	Rohde & Schwarz	FSV40-N	GTS666	Mar. 10, 2026	Mar. 09, 2027
12	Amplifier	/	LNA-1000-30S	GTS650	Apr. 10, 2026	Apr. 09, 2027
13	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 24, 2025	Nov. 23, 2026
14	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	Apr. 10, 2026	Apr. 09, 2027
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 13, 2026	Apr. 12, 2027
16	RE cable 1	GTS	N/A	GTS675	Jul. 17, 2026	Jul. 16, 2027
17	RE cable 2	GTS	N/A	GTS676	Jul. 17, 2026	Jul. 16, 2027
18	RE cable 3	GTS	N/A	GTS677	Jul. 17, 2026	Jul. 16, 2027
19	RE cable 4	GTS	N/A	GTS678	Jul. 17, 2026	Jul. 16, 2027
20	RE cable 5	GTS	N/A	GTS679	Jul. 17, 2026	Jul. 16, 2027
21	RE cable 6	GTS	N/A	GTS680	Jul. 17, 2026	Jul. 16, 2027
22	RE cable 7	GTS	N/A	GTS681	Jul. 22, 2026	Jul. 21, 2027
23	RE cable 8	GTS	N/A	GTS682	Jul. 22, 2026	Jul. 21, 2027
24	CE cable 9	GTS	N/A	GTS683	Jul. 23, 2026	Jul. 22, 2027
25	EMI Test Software	AUDIX	E3-6.100614a	GTS725	N/A	N/A

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	Jul. 12, 2022	Jul. 11, 2027
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Jun. 03, 2026	Jun. 02, 2027
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	Apr. 10, 2026	Apr. 09, 2027
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
5	Thermo meter	JINCHUANG	GSP-8A	GTS642	Apr. 14, 2026	Apr. 13, 2027
6	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	Apr. 11, 2026	Apr. 10, 2027
7	ISN	SCHWARZBECK	NTFM 8158	GTS565	Apr. 10, 2026	Apr. 09, 2027
8	High voltage probe	SCHWARZBECK	TK9420	GTS537	Apr. 10, 2026	Apr. 09, 2027
9	Antenna end assembly	Weinschel	1870A	GTS560	Apr. 10, 2026	Apr. 09, 2027
10	EMI Test Software	AUDIX	E3-6.100622	GTS726	N/A	N/A
11	Current probe	CYBERTEK	EM5011	GTS698	Jan. 27, 2026	Jan. 26, 2027

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	Apr. 10, 2026	Apr. 09, 2027
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Jun. 03, 2026	Jun. 02, 2027
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	Apr. 10, 2026	Apr. 09, 2027
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	Apr. 10, 2026	Apr. 09, 2027
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	Apr. 10, 2026	Apr. 09, 2027
6	Wideband Power Meter	Keysight	N1924A	GTS673	Apr. 10, 2026	Apr. 09, 2027
7	USB RF Power Sensor	DARE	RPR3006W	GTS569	Apr. 10, 2026	Apr. 09, 2027
8	RF Switch Box	Shongyi	RFSW3003328	GTS571	Apr. 10, 2026	Apr. 09, 2027
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	Apr. 10, 2026	Apr. 09, 2027
10	Thermo meter	JINCHUANG	GSP-8A	GTS641	Apr. 14, 2026	Apr. 13, 2027
11	EXA Signal Analyzer	Keysight	N9010B	MY60241168	Nov. 01, 2025	Oct. 31, 2026

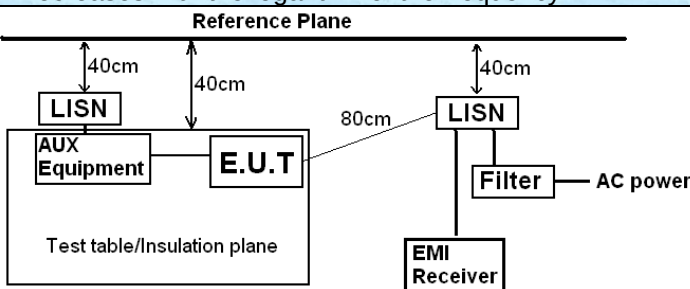
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	Jul. 21, 2026	Jul. 20, 2027

7 Test results and Measurement Data

7.1 Antenna requirement

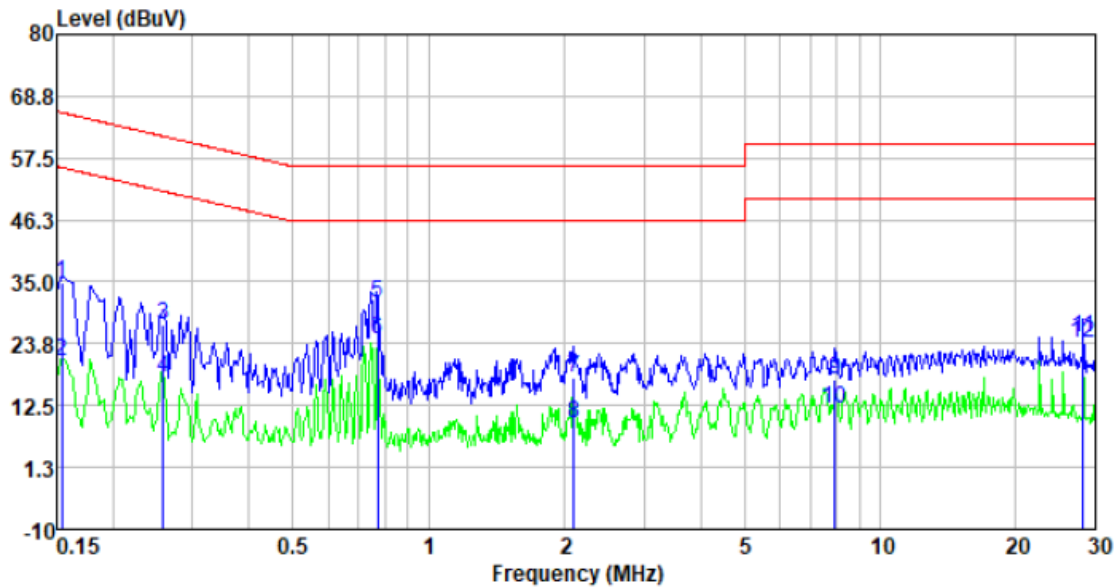
Standard requirement:	47 CFR Part 15, Subpart C 15.203
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may 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.	
E.U.T Antenna:	
The antenna is integral antenna, reference to the appendix II for details.	

7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2020						
Test Frequency Range:	150KHz to 30MHz						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto						
Limit:	Frequency range (MHz)		Limit (dBuV)				
			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.							
Test setup:	Reference Plane  Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m						
Test procedure:	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 C63.10:2020 on conducted measurement.						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	
Test voltage:	AC 120V, 60Hz						
Test results:	Pass						

Measurement data:

Pre-scan all test modes, found worst case at 88.1MHz, and so only show the test result of it
Line

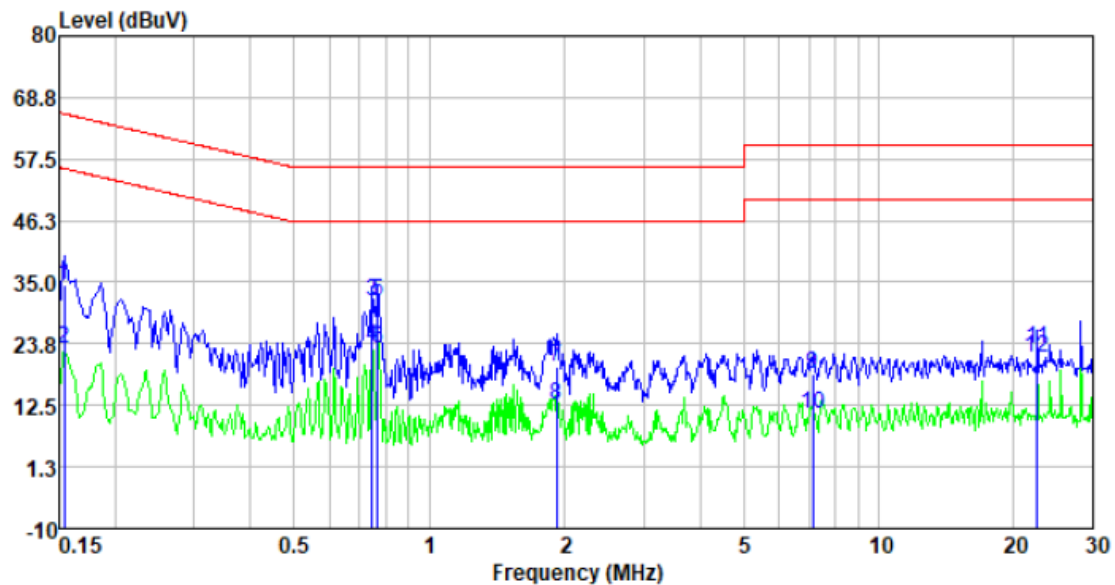


Freq	Reading level	Correct Factor	Final level	Limit level	Over limit	Remark
MHz	dBuV	dB	dBuV	level	dBuV	
0.15	15.03	19.83	34.86	65.78	-30.92	QP
0.15	0.64	19.83	20.47	55.78	-35.31	Average
0.26	7.53	19.76	27.29	61.51	-34.22	QP
0.26	-2.08	19.76	17.68	51.51	-33.83	Average
0.77	11.44	19.80	31.24	56.00	-24.76	QP
0.77	4.57	19.80	24.37	46.00	-21.63	Average
2.10	-2.28	19.88	17.60	56.00	-38.40	QP
2.10	-10.70	19.88	9.18	46.00	-36.82	Average
7.94	-2.51	19.69	17.18	60.00	-42.82	QP
7.94	-7.88	19.69	11.81	50.00	-38.19	Average
28.22	4.77	20.18	24.95	60.00	-35.05	QP
28.22	3.81	20.18	23.99	50.00	-26.01	Average

Note:Correct Factor (dB)=LISN Factor (dB) + Cable Loss (dB)

Final level (dBuV)=Reading level (dBuV) + Correct Factor (dB)

Neutral



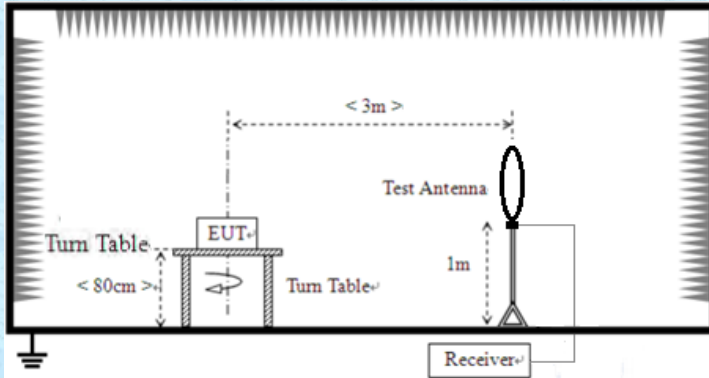
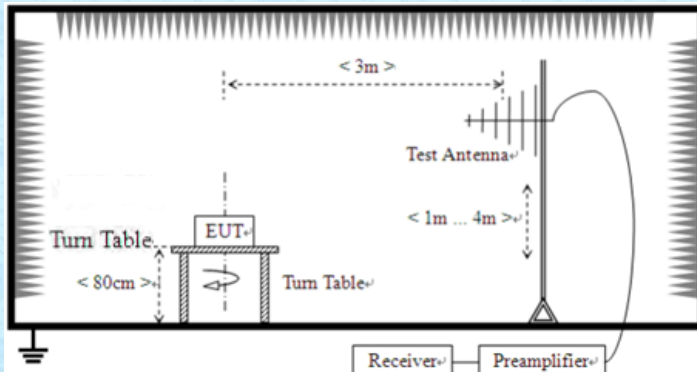
Freq	Reading level	Correct Factor	Final level	Limit level	Over limit	Remark
MHz	dBuV	dB	dBuV	level	dBuV	
0.15	14.68	19.83	34.51	65.78	-31.27	QP
0.15	3.11	19.83	22.94	55.78	-32.84	Average
0.75	11.76	19.79	31.55	56.00	-24.45	QP
0.75	3.28	19.79	23.07	46.00	-22.93	Average
0.77	11.62	19.80	31.42	56.00	-24.58	QP
0.77	3.12	19.80	22.92	46.00	-23.08	Average
1.92	-0.29	19.88	19.59	56.00	-36.41	QP
1.92	-7.26	19.88	12.62	46.00	-33.38	Average
7.14	-1.42	19.68	18.26	60.00	-41.74	QP
7.14	-8.72	19.68	10.96	50.00	-39.04	Average
22.58	2.76	20.21	22.97	60.00	-37.03	QP
22.58	1.14	20.21	21.35	50.00	-28.65	Average

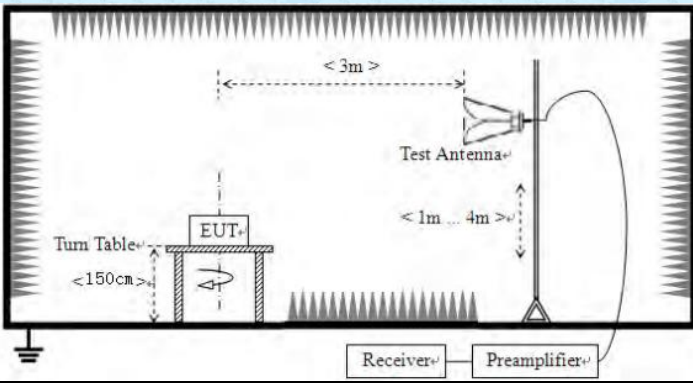
Note: Correct Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
 Final level (dBuV) = Reading level (dBuV) + Correct Factor (dB)

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

7.3 Radiated Emission Method

Test Requirement:	47 CFR Part 15, Subpart C 15.209 & 15.239 (c)				
Test Method:	ANSI C63.10:2020				
Test Frequency Range:	9kHz to 1000MHz				
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: (Field strength of the fundamental signal)	Frequency		Limit (dBuV/m @3m)		Remark
	88.1MHz-107.9MHz		48.0		Average Value
			68.0		Peak Value
Limit: (Spurious Emissions)	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
Limit: (band edge)	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
Test setup:	For radiated emissions from 30MHz to 1GHz				
					

	For radiated emissions above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) 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 6.0 for details
Test mode:	Refer to section 5.2 for details
Test voltage:	DC 12V
Test results:	Pass

Measurement data:

7.3.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
88.10	74.80	8.94	1.71	33.32	52.13	68.00	-15.87	Horizontal
88.10	77.53	8.94	1.71	33.32	54.86	68.00	-13.14	Vertical
98.00	75.38	9.40	1.91	33.30	53.39	68.00	-14.61	Horizontal
98.00	76.28	9.40	1.91	33.30	54.29	68.00	-13.71	Vertical
107.90	73.16	10.59	2.05	33.28	52.52	68.00	-15.48	Horizontal
107.90	73.43	10.59	2.05	33.28	52.79	68.00	-15.21	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
88.10	59.87	8.94	1.71	33.32	37.20	48.00	-10.80	Horizontal
88.10	62.45	8.94	1.71	33.32	39.78	48.00	-8.22	Vertical
98.00	60.92	9.40	1.91	33.30	38.93	48.00	-9.07	Horizontal
98.00	61.45	9.40	1.91	33.30	39.46	48.00	-8.54	Vertical
107.90	58.72	10.59	2.05	33.28	38.08	48.00	-9.92	Horizontal
107.90	58.02	10.59	2.05	33.28	37.38	48.00	-10.62	Vertical

Note:

1. Final Level(dBuV/m)=Reading level(dBuV)+Antenna Factor(dB/m)+Cable Loss(dB)–Preamplifier Factor(dB)

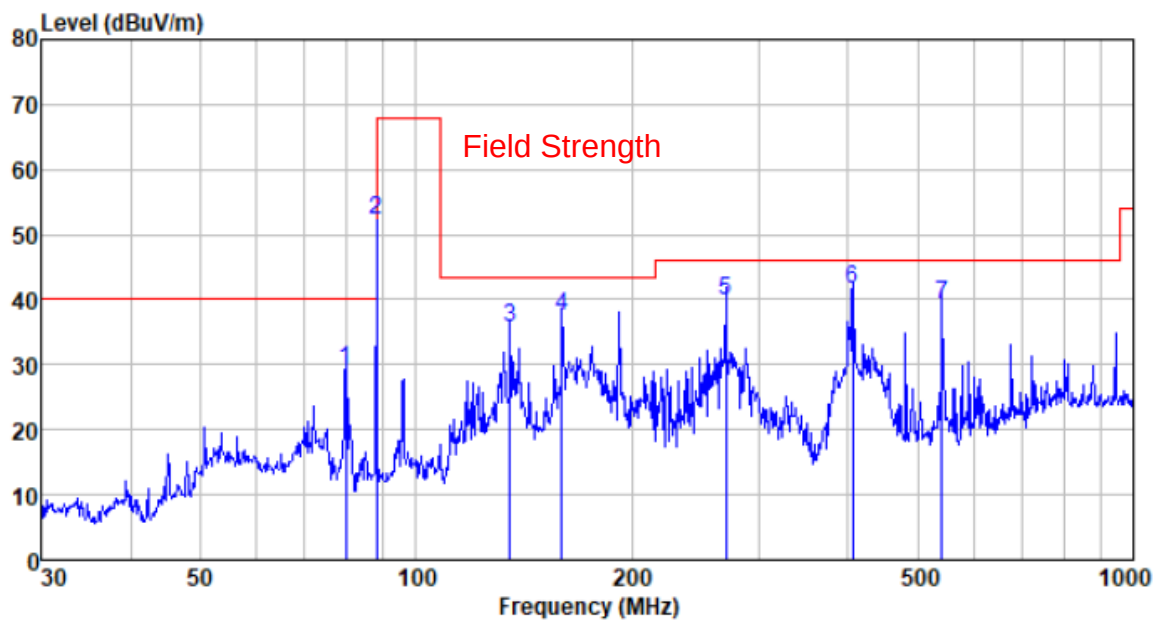
7.3.2 Radiated Spurious Emissions

■ 9kHz~30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

■ 30MHz~1GHz

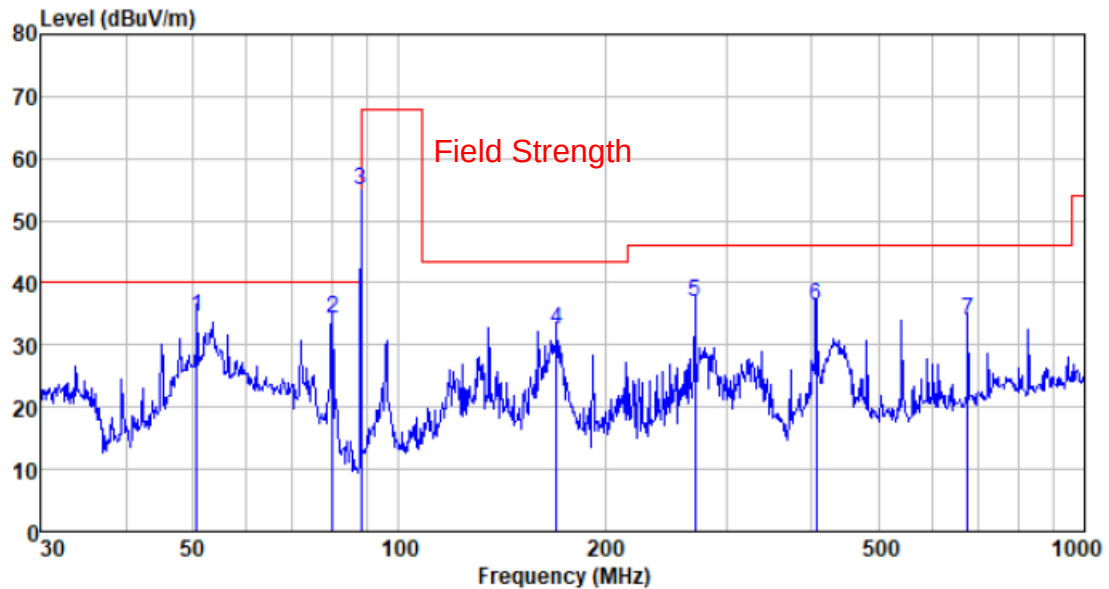
Test channel:	Lowest channel	Polarization:	Vertical
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
79.800	51.85	9.00	1.80	33.33	29.32	40.00	-10.68	QP
88.100	74.80	8.94	1.71	33.32	52.13	68.00	-15.87	Peak
135.032	53.81	12.71	2.32	33.21	35.63	43.50	-7.87	QP
159.784	54.46	13.80	2.52	33.16	37.62	43.50	-5.88	QP
270.375	57.05	12.32	3.36	32.95	39.78	46.00	-6.22	QP
406.088	54.63	15.57	4.17	32.78	41.59	46.00	-4.41	QP
541.373	49.16	17.86	4.80	32.58	39.24	46.00	-6.76	QP

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

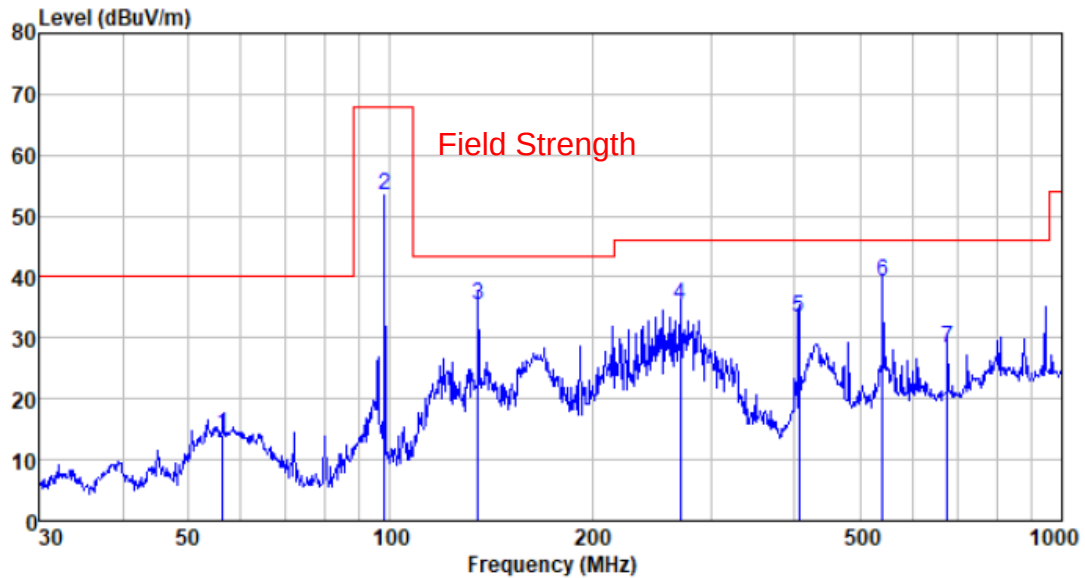
Test channel:	Lowest channel	Polarization:	Horizontal
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
50.764	53.29	13.12	1.46	33.40	34.47	40.00	-5.53	QP
80.081	56.71	9.00	1.80	33.33	34.18	40.00	-5.82	QP
88.100	77.53	8.94	1.71	33.32	54.86	68.00	-13.14	Peak
169.599	50.19	12.94	2.59	33.15	32.57	43.50	-10.93	QP
270.375	54.32	12.32	3.36	32.95	37.05	46.00	-8.95	QP
406.088	49.38	15.57	4.17	32.78	36.34	46.00	-9.66	QP
675.208	40.80	20.10	5.42	32.25	34.07	46.00	-11.93	QP

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

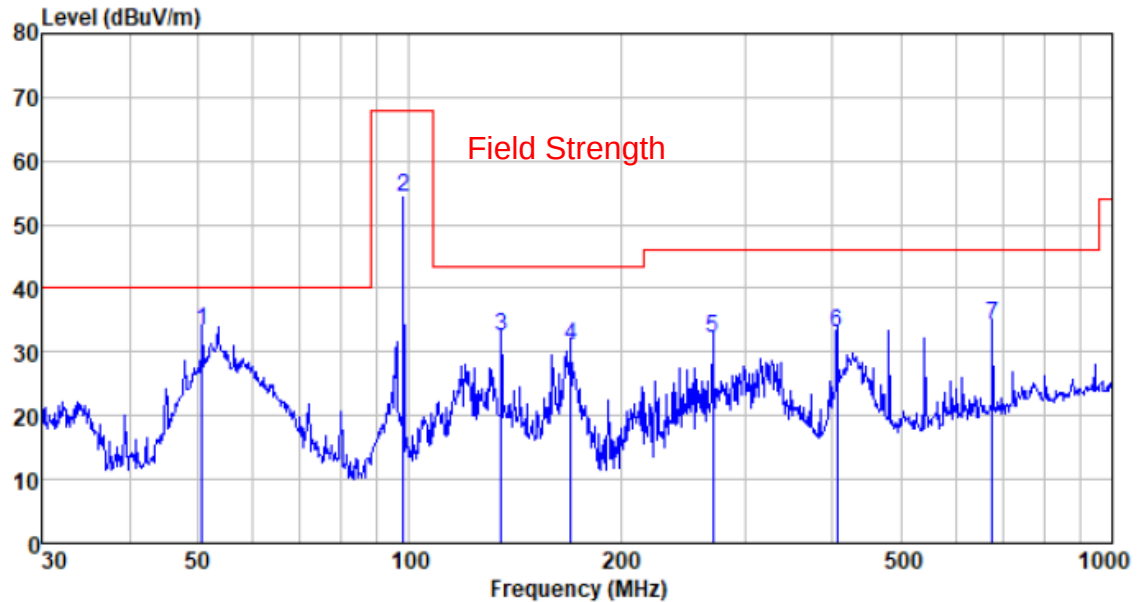
Test channel:	Middle channel	Polarization:	Vertical
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
56.395	33.31	12.72	1.56	33.38	14.21	40.00	-25.79	QP
98.000	75.38	9.40	1.91	33.30	53.39	68.00	-14.61	Peak
135.032	53.59	12.71	2.32	33.21	35.41	43.50	-8.09	QP
270.375	52.67	12.32	3.36	32.95	35.40	46.00	-10.60	QP
406.088	46.52	15.57	4.17	32.78	33.48	46.00	-12.52	QP
541.373	49.23	17.86	4.80	32.58	39.31	46.00	-6.69	QP
675.208	35.06	20.10	5.42	32.25	28.33	46.00	-17.67	QP

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

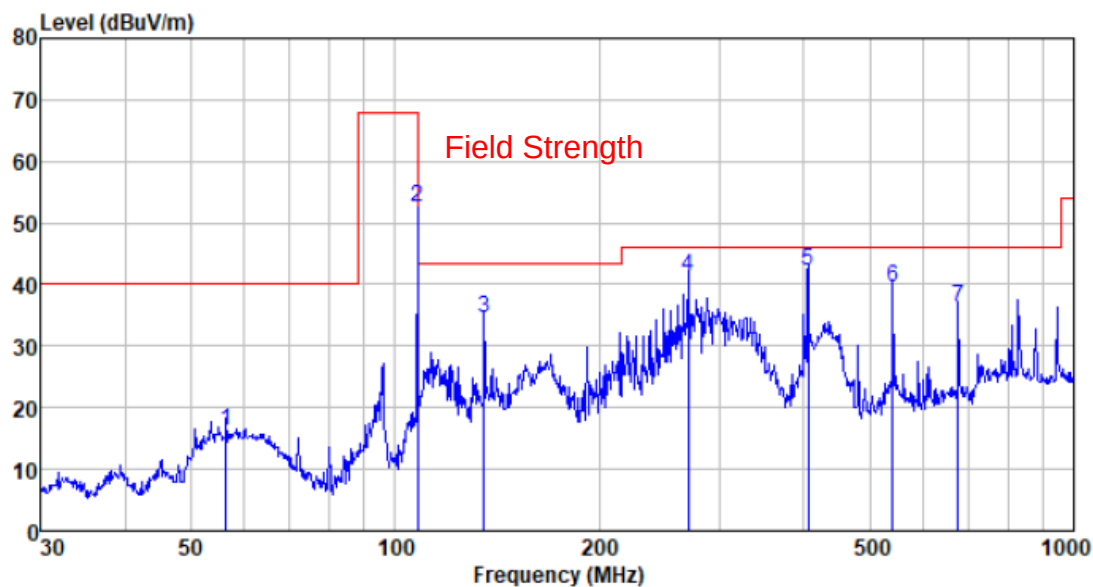
Test channel:	Middle channel	Polarization:	Horizontal
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
50.764	52.12	13.12	1.46	33.40	33.30	40.00	-6.70	QP
98.000	76.28	9.40	1.91	33.30	54.29	68.00	-13.71	Peak
135.032	50.59	12.71	2.32	33.21	32.41	43.50	-11.09	QP
169.599	48.73	12.94	2.59	33.15	31.11	43.50	-12.39	QP
270.375	49.56	12.32	3.36	32.95	32.29	46.00	-13.71	QP
406.088	46.09	15.57	4.17	32.78	33.05	46.00	-12.95	QP
675.208	40.93	20.10	5.42	32.25	34.20	46.00	-11.80	QP

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

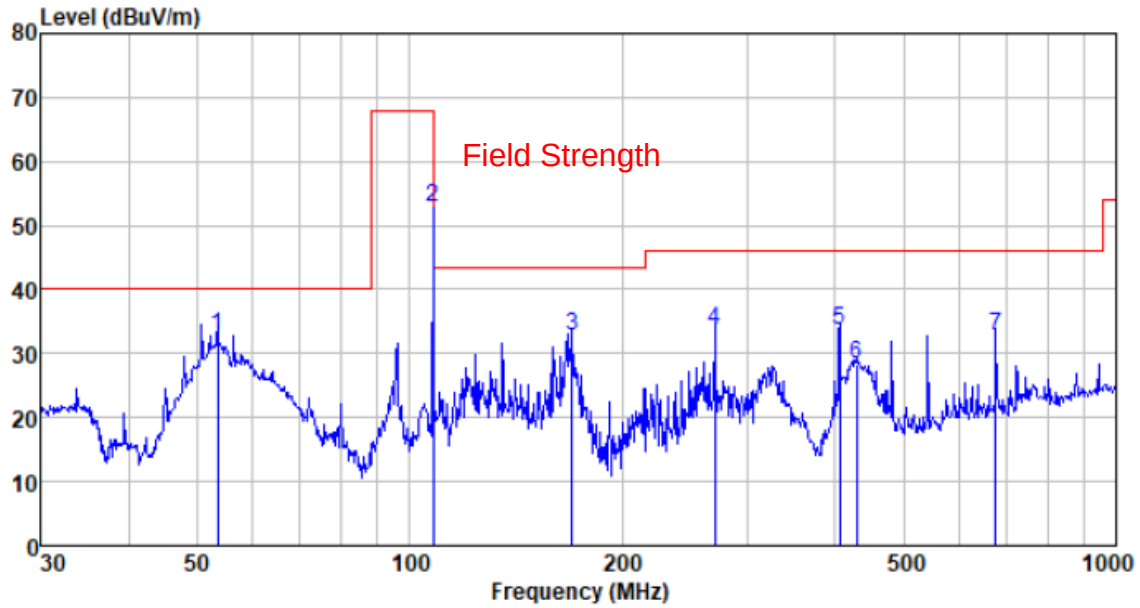
Test channel:	Highest channel	Polarization:	Vertical
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
56.395	35.42	12.72	1.56	33.38	16.32	40.00	-23.68	QP
107.900	73.16	10.59	2.05	33.28	52.52	68.00	-15.48	Peak
135.032	52.86	12.71	2.32	33.21	34.68	43.50	-8.82	QP
270.375	58.62	12.32	3.36	32.95	41.35	46.00	-4.65	QP
406.088	55.17	15.57	4.17	32.78	42.13	46.00	-3.87	QP
541.373	49.52	17.86	4.80	32.58	39.60	46.00	-6.40	QP
675.208	42.94	20.10	5.42	32.25	36.21	46.00	-9.79	QP

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

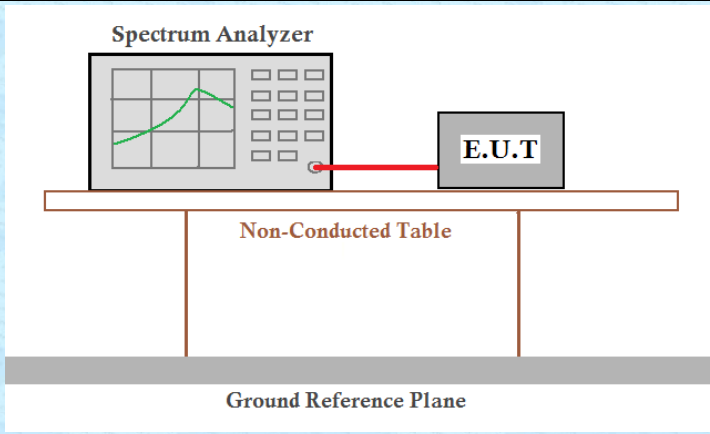
Test channel:	Highest channel	Polarization:	Horizontal
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
53.505	51.62	12.90	1.51	33.39	32.64	40.00	-7.36	QP
107.900	73.43	10.59	2.05	33.28	52.79	68.00	-15.21	Peak
169.599	50.27	12.94	2.59	33.15	32.65	43.50	-10.85	QP
270.375	51.01	12.32	3.36	32.95	33.74	46.00	-12.26	QP
406.088	46.82	15.57	4.17	32.78	33.78	46.00	-12.22	QP
429.523	40.68	16.16	4.28	32.76	28.36	46.00	-17.64	QP
675.208	39.55	20.10	5.42	32.25	32.82	46.00	-13.18	QP

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

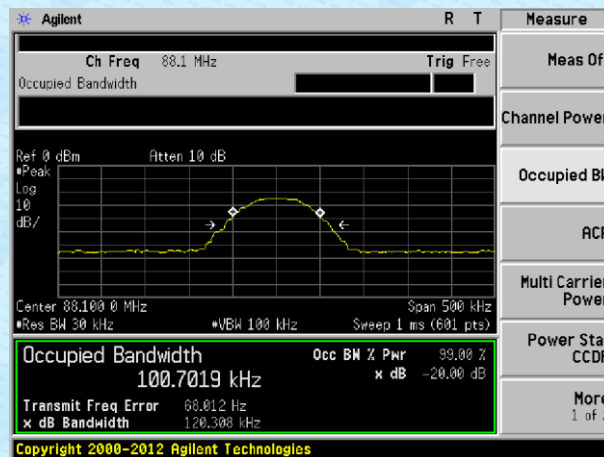
7.4 20dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15, Subpart C 15.239(a)
Test Method:	ANSI C63.10:2020
Receiver setup:	RBW=1KHz, VBW=3KHz, detector: Peak
Limit:	<200 kHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

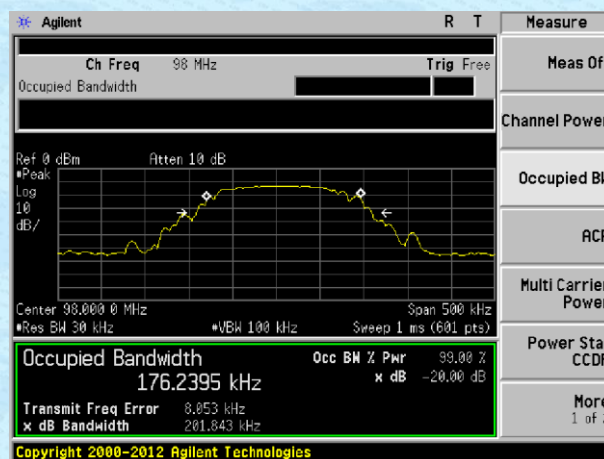
Measurement Data:

Test channel	20dB bandwidth(kHz)	Limit(kHz)
Lowest	120.308	200
Middle	201.843	
Highest	197.954	

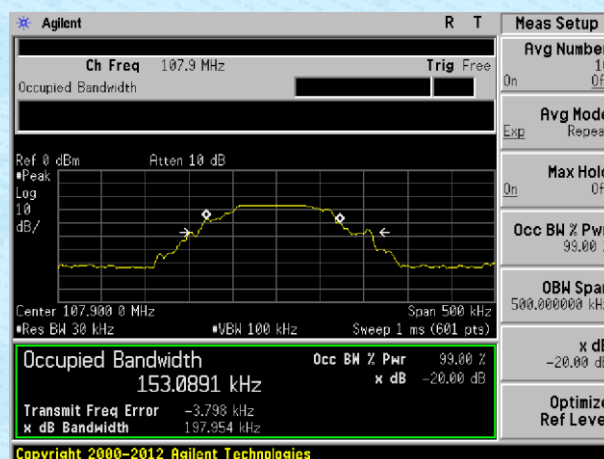
Test plot as follows:



Lowest channel



Middle channel



Highest channel

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

----- End -----