

FCC Test Report

Applicant : Henan Honghui Electronic Technology Co., Ltd

Address : NO.20, 4/F, Building 1, NO36, Hong song road,
High-techzone, zhengzhou, China

Product Name : Children's car remote control

Report Date : Oct. 12, 2023

Shenzhen Anbotech Compliance Laboratory Limited



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TEST REPORT

Applicant : Henan Honghui Electronic Technology Co., Ltd
Manufacturer : Henan Honghui Electronic Technology Co., Ltd
Product Name : Children's car remote control
Test Model No. : HH-672Y
Reference Model No. : HH-982Y, HH-983Y, HH-985Y, HH-996Y, HH-986Y, HH-987Y, HH-988Y, HH-989Y, HH-990Y, HH-991Y, HH-992Y
Trade Mark : 
Rating(s) : Input: DC 3V with "AAA" *2 battery
Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.249
Test Method(s) : ANSI C63.10: 2020

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Sept. 05, 2023

Date of Test

Sept. 05 ~ 15, 2023

Prepared by

Ella Liang

(Ella Liang)

Approved & Authorized Signer

Edward Pan

(Edward Pan)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Oct. 12, 2023



1. General Information

1.1. Client Information

Applicant	:	Henan Honghui Electronic Technology Co., Ltd
Address	:	NO.20, 4/F, Building 1, NO36, Hong song road, High-techzone, zhengzhou, China
Manufacturer	:	Henan Honghui Electronic Technology Co., Ltd
Address	:	NO.20, 4/F, Building 1, NO36, Hong song road, High-techzone, zhengzhou, China
Factory	:	Henan Honghui Electronic Technology Co., Ltd
Address	:	NO.20, 4/F, Building 1, NO36, Hong song road, High-techzone, zhengzhou, China

1.2. Description of Device (EUT)

Product Name	:	Children's car remote control
Test Model No.	:	HH-672Y
Reference Model No.	:	HH-982Y, HH-983Y, HH-985Y, HH-996Y, HH-986Y, HH-987Y, HH-988Y, HH-989Y, HH-990Y, HH-991Y, HH-992Y (Note: All samples are the same except the model number and appearance color, so we prepare "HH-672Y" for test only.)
Trade Mark	:	
Test Power Supply	:	DC 3V battery
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A

RF Specification

Operation Band	:	2419~2474MHz
Number of Channel	:	6 Channels
Modulation Type	:	GFSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	2.499 dBi

Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
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1.4. Description of Test Configuration

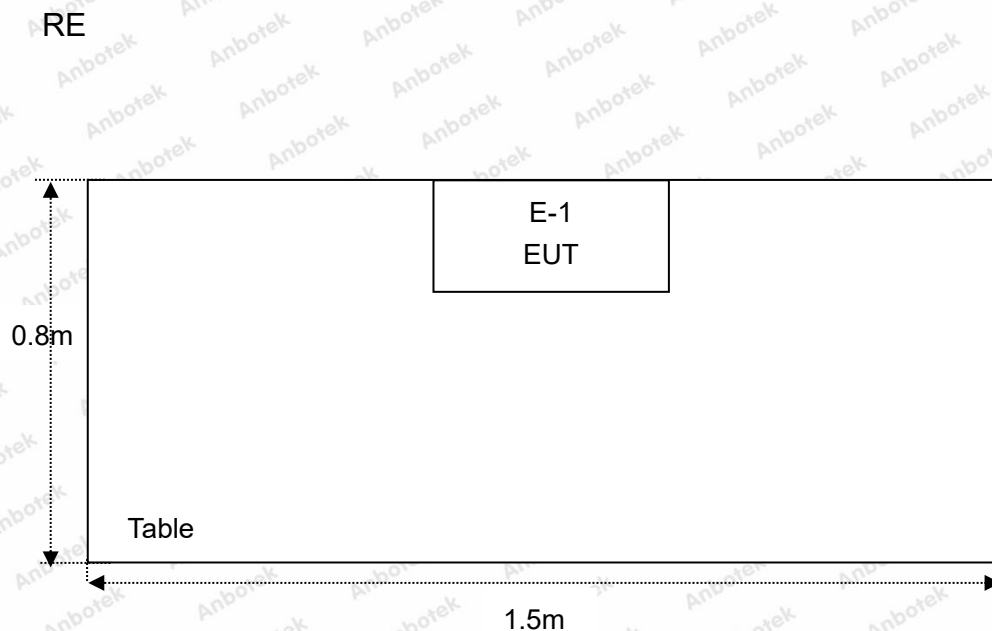
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2419	04	2450				
02	2425	05	2470				
03	2445	06	2474				

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. EUT was tested with 2419MHz, 2445MHz and 2474MHz.



1.5. Description of Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 23, 2022	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2023	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 13, 2022	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 23, 2022	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 13, 2022	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G -45	SKET-PA-002	Oct. 13, 2022	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 23, 2022	1 Year
10.	Horn Antenna	A-INFO	LB-180400- KF	J211060628	Oct. 23, 2022	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 23, 2022	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 13, 2022	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 13, 2022	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 13, 2022	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2022	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 19, 2022	1 Year
18.	Power Meter	Agilent	N1914A	MY50001102	Oct.26, 2022	1 Year



1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.8. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, 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 our files. Registration No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotech and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



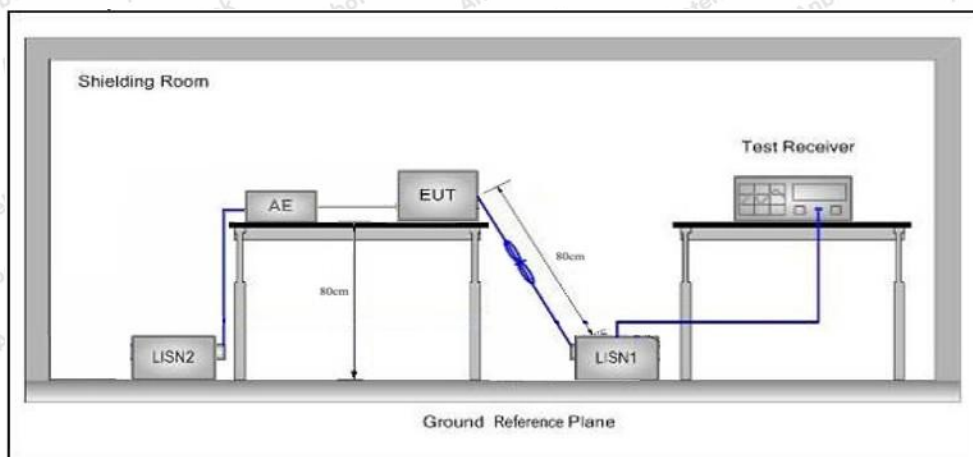
2. Summary of Test Results

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission	N/A
15.205/15.209/15.249	Radiated Emission	PASS
15.249(d)	Band Edge	PASS
15.215(c)	20dB Bandwidth	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		



3.1. Test Standard and Limit

3.2. Test Setup



Not applicable for equipment operated with DC power supply.



4. Radiated Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz~1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz~30MHz	30	-	-	30
	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~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test Standard	FCC Part15 C Section 15.249					
Test Limit	Frequency (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	2400~2483.5	50	-	114.0	Peak	3
	2400~2483.5	50	-	94.0	Average	3
	2400~2483.5	-	500	74.0	Peak	3
	2400~2483.5	-	500	54.0	Average	3

Remark:

(1) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.



4.2. Test Setup

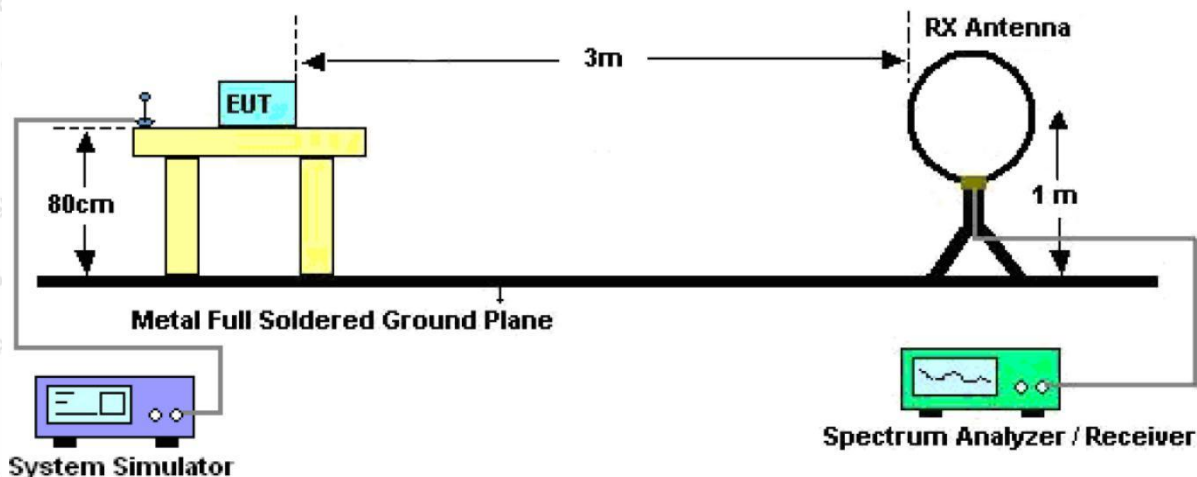


Figure 1. Below 30MHz

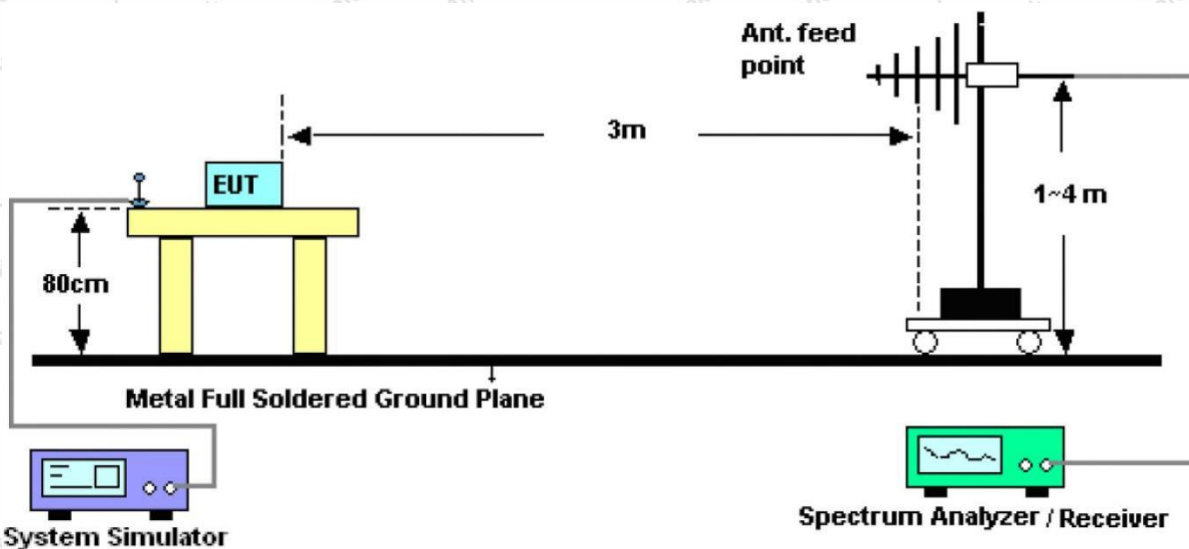


Figure 2. 30MHz to 1GHz



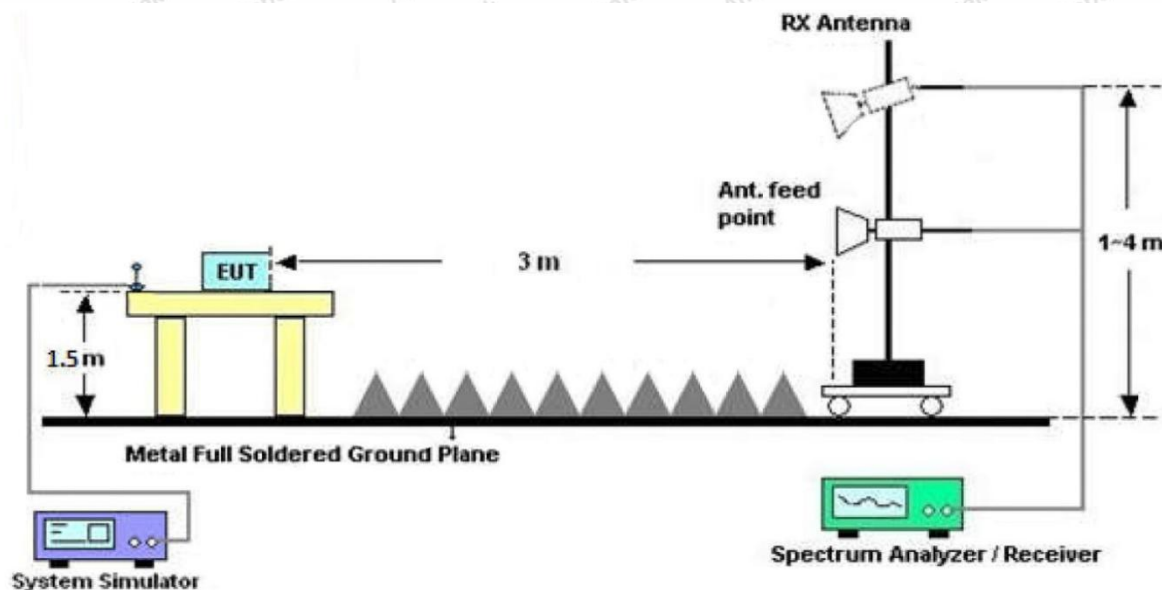


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.



For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector = Quasi-Peak, Trace mode = Max hold, Sweep = auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector = Peak, Trace mode = Max hold, Sweep = auto couple.

RBW = 1MHz, VBW = 10Hz, Detector = Average, Trace mode = Max hold, Sweep = auto couple.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

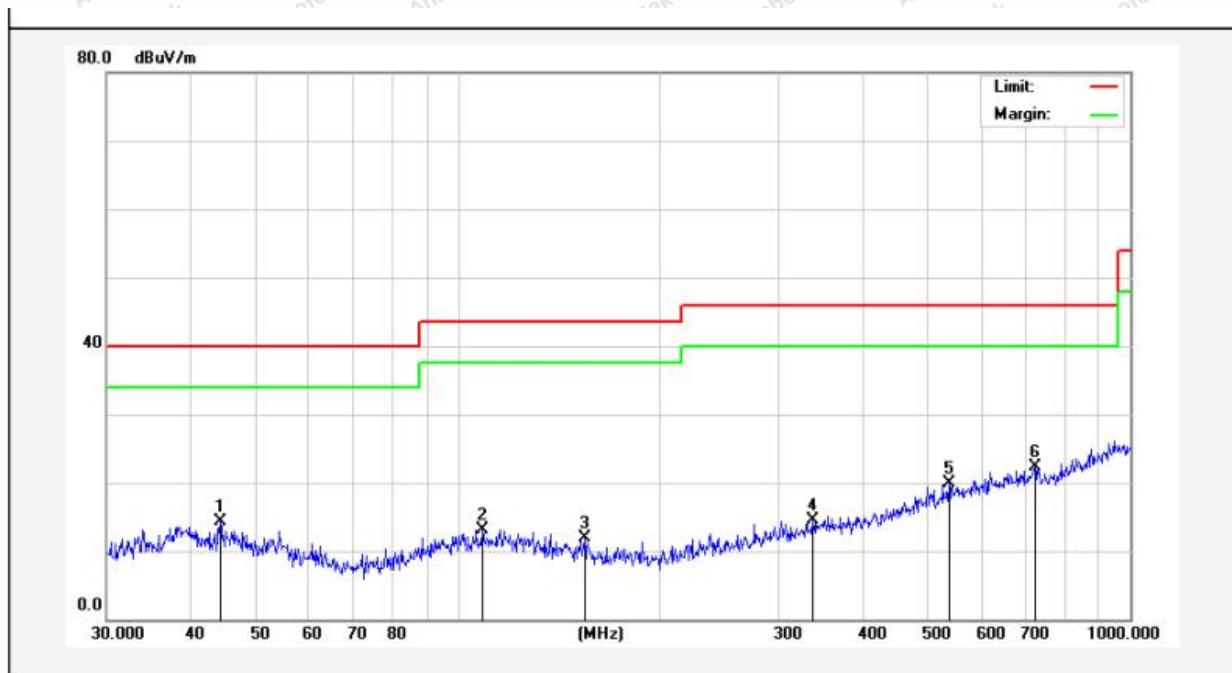
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all the modes, only the worst case is recorded in the report.



Test Results (30~1000MHz)

Test Mode: Low CH
Power Source: DC 3V battery
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 23.5°C/49%RH

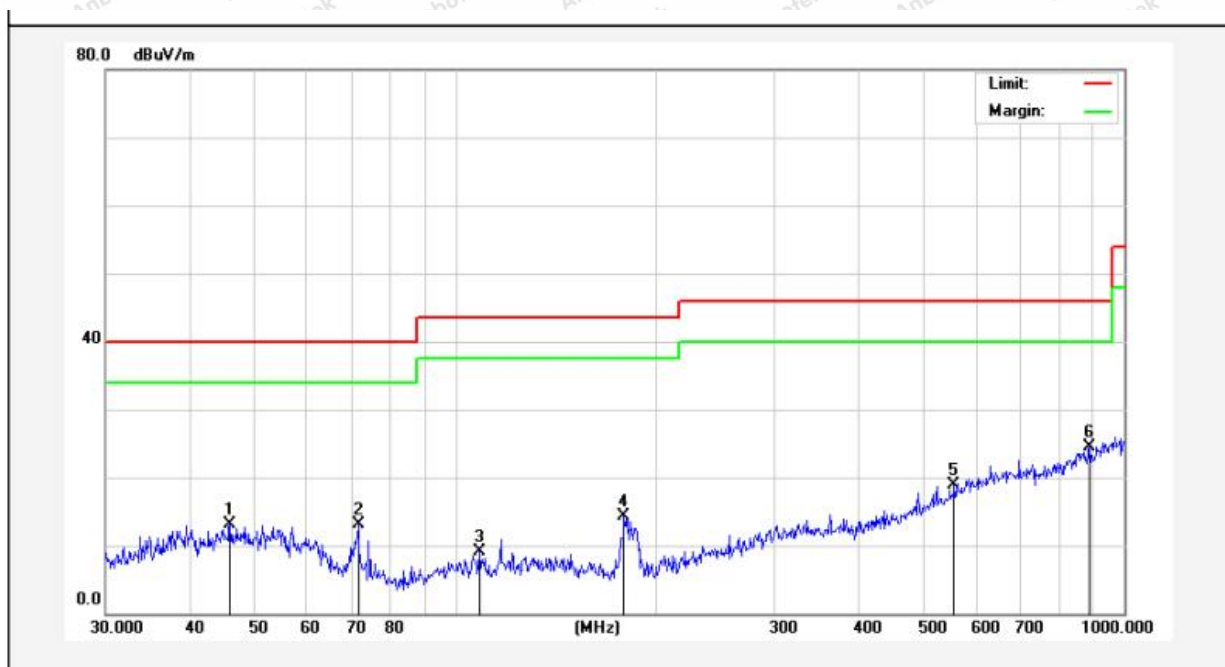


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	44.2752	29.71	-15.32	14.39	40.00	-25.61	QP			
2	108.6470	36.14	-22.94	13.20	43.50	-30.30	QP			
3	154.2786	35.23	-23.35	11.88	43.50	-31.62	QP			
4	337.2155	30.90	-16.30	14.60	46.00	-31.40	QP			
5	537.5891	32.11	-12.27	19.84	46.00	-26.16	QP			
6	721.7259	31.88	-9.62	22.26	46.00	-23.74	QP			



Test Results (30~1000MHz)

Test Mode: Low CH
Power Source: DC 3V battery
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 23.5°C/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	46.0164	28.39	-15.19	13.20	40.00	-26.80	QP			
2	71.5806	32.99	-19.94	13.05	40.00	-26.95	QP			
3	108.6470	27.13	-17.97	9.16	43.50	-34.34	QP			
4	178.7584	34.95	-20.66	14.29	43.50	-29.21	QP			
5	556.7744	30.56	-11.61	18.95	46.00	-27.05	QP			
6	887.6099	30.96	-6.53	24.43	46.00	-21.57	QP			



Test Results (1GHz-25GHz)

Test channel: Lowest

Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2419.00	80.66	9.75	90.41	114.00	-23.59	Vertical
4838.00	27.34	15.27	42.61	74.00	-31.39	Vertical
7257.00	27.59	18.09	45.68	74.00	-28.32	Vertical
9676.00	28.06	23.76	51.82	74.00	-22.18	Vertical
12095.00	*			74.00		Vertical
14514.00	*			74.00		Vertical
2419.00	81.75	9.75	91.50	114.00	-22.50	Horizontal
4838.00	27.10	15.27	42.37	74.00	-31.63	Horizontal
7257.00	27.70	18.09	45.79	74.00	-28.21	Horizontal
9676.00	27.63	23.76	51.39	74.00	-22.61	Horizontal
12095.00	*			74.00		Horizontal
14514.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
2419.00	70.59	9.75	80.34	94.00	-13.66	Vertical
4838.00	15.61	15.27	30.88	54.00	-23.12	Vertical
7257.00	16.64	18.09	34.73	54.00	-19.27	Vertical
9676.00	17.53	23.76	41.29	54.00	-12.71	Vertical
12095.00	*			54.00		Vertical
14514.00	*			54.00		Vertical
2419.00	71.98	9.75	81.73	94.00	-12.27	Horizontal
4838.00	15.43	15.27	30.70	54.00	-23.30	Horizontal
7257.00	16.73	18.09	34.82	54.00	-19.18	Horizontal
9676.00	17.14	23.76	40.90	54.00	-13.10	Horizontal
12095.00	*			54.00		Horizontal
14514.00	*			54.00		Horizontal

Remark:

- 1.Result =Reading + Factor
2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Test Results (1GHz-25GHz)

Test channel: Middle

Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2445.00	83.86	9.75	93.61	114.00	-20.39	Vertical
4890.00	25.95	15.27	41.22	74.00	-32.78	Vertical
7335.00	31.31	18.09	49.40	74.00	-24.60	Vertical
9780.00	28.66	23.76	52.42	74.00	-21.58	Vertical
12225.00	*			74.00		Vertical
14670.00	*			74.00		Vertical
2445.00	80.08	9.75	89.83	114.00	-24.17	Horizontal
4890.00	25.34	15.27	40.61	74.00	-33.39	Horizontal
7335.00	31.66	18.09	49.75	74.00	-24.25	Horizontal
9780.00	30.93	23.76	54.69	74.00	-19.31	Horizontal
12225.00	*			74.00		Horizontal
14670.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
2445.00	71.54	9.75	81.29	94.00	-12.71	Vertical
4890.00	17.11	15.27	32.38	54.00	-21.62	Vertical
7335.00	15.08	18.09	33.17	54.00	-20.83	Vertical
9780.00	17.23	23.76	40.99	54.00	-13.01	Vertical
12225.00	*			54.00		Vertical
14670.00	*			54.00		Vertical
2445.00	68.97	9.75	78.72	94.00	-15.28	Horizontal
4890.00	12.86	15.27	28.13	54.00	-25.87	Horizontal
7335.00	16.03	18.09	34.12	54.00	-19.88	Horizontal
9780.00	17.23	23.76	40.99	54.00	-13.01	Horizontal
12225.00	*			54.00		Horizontal
14670.00	*			54.00		Horizontal

Remark:

1.Result =Reading + Factor

2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Test Results (1GHz-25GHz)

Test channel: Highest

Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2474.00	81.73	9.75	91.48	114.00	-22.52	Vertical
4948.00	30.38	15.27	45.65	74.00	-28.36	Vertical
7422.00	27.37	18.09	45.46	74.00	-28.54	Vertical
9896.00	31.32	23.76	55.08	74.00	-18.92	Vertical
12370.00	*			74.00		Vertical
14844.00	*			74.00		Vertical
2474.00	82.29	9.75	92.04	114.00	-21.96	Horizontal
4948.00	25.66	15.27	40.93	74.00	-33.07	Horizontal
7422.00	31.27	18.09	49.36	74.00	-24.64	Horizontal
9896.00	27.06	23.76	50.82	74.00	-23.18	Horizontal
12370.00	*			74.00		Horizontal
14844.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
2474.00	73.29	9.75	83.04	94.00	-10.96	Vertical
4948.00	14.81	15.27	30.08	54.00	-23.93	Vertical
7422.00	17.81	18.09	35.90	54.00	-18.10	Vertical
9896.00	15.53	23.76	39.29	54.00	-14.71	Vertical
12370.00	*			54.00		Vertical
14844.00	*			54.00		Vertical
2474.00	70.66	9.75	80.41	94.00	-13.59	Horizontal
4948.00	13.09	15.27	28.36	54.00	-25.64	Horizontal
7422.00	20.59	18.09	38.68	54.00	-15.32	Horizontal
9896.00	18.56	23.76	42.32	54.00	-11.68	Horizontal
12370.00	*			54.00		Horizontal
14844.00	*			54.00		Horizontal

Remark:

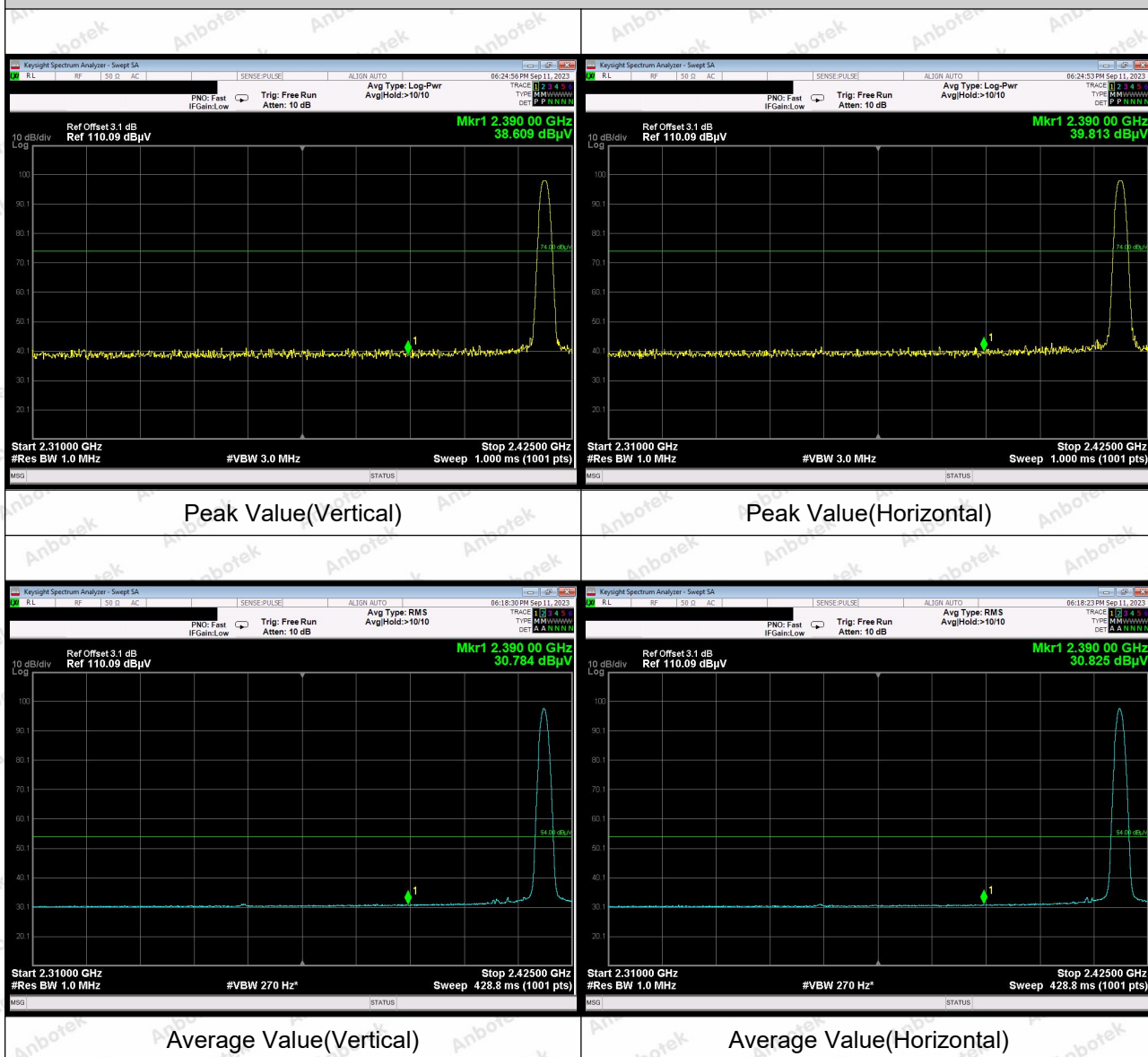
1.Result =Reading + Factor

2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

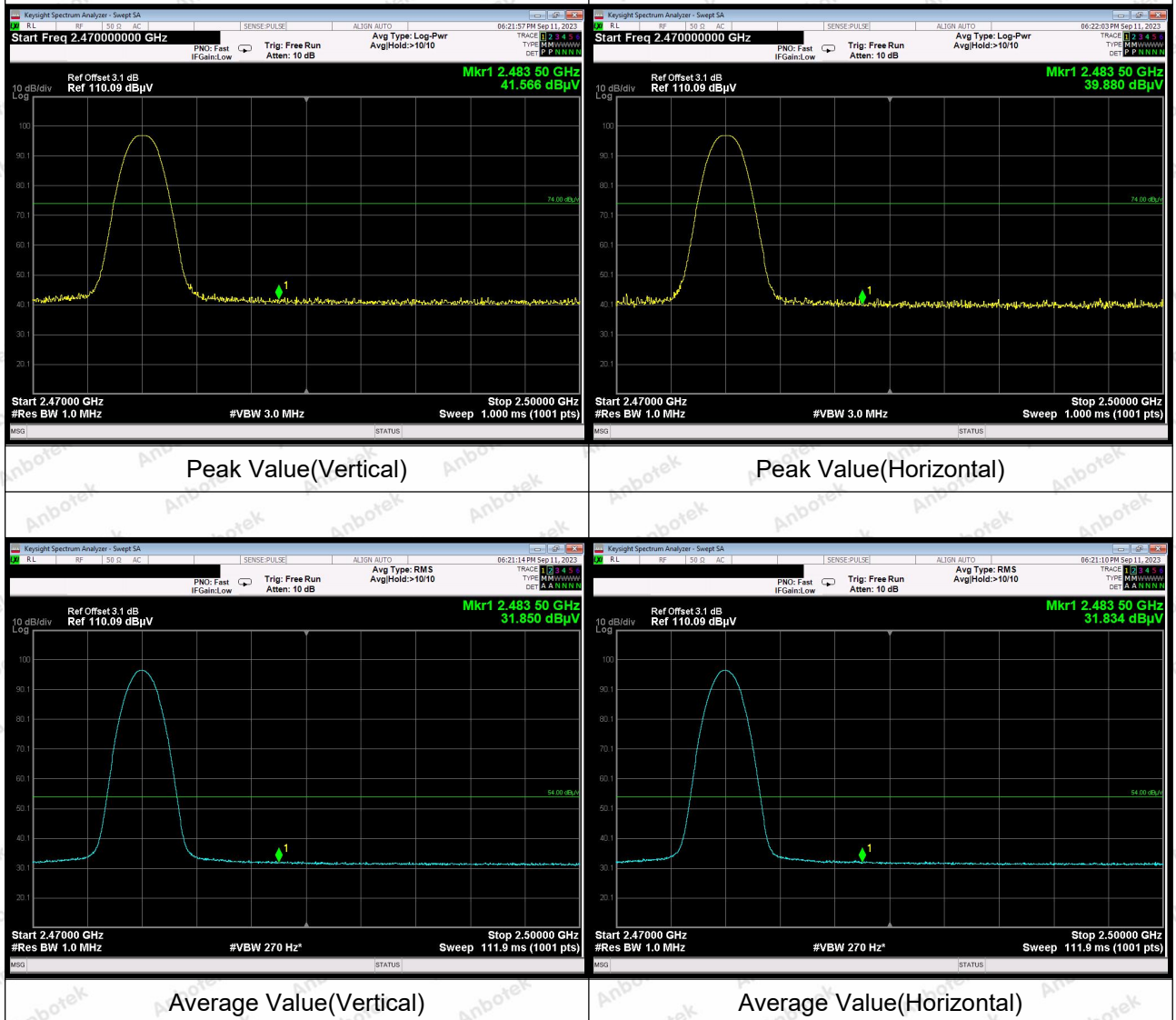


Radiated Band Edge:

Test Mode: Lowest



Test Mode: Highest

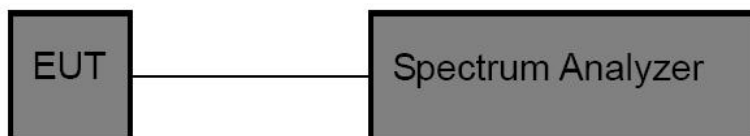


5. 20dB Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.215(c)
Test Limit	N/A

5.2. Test Setup



5.3. Test Procedure

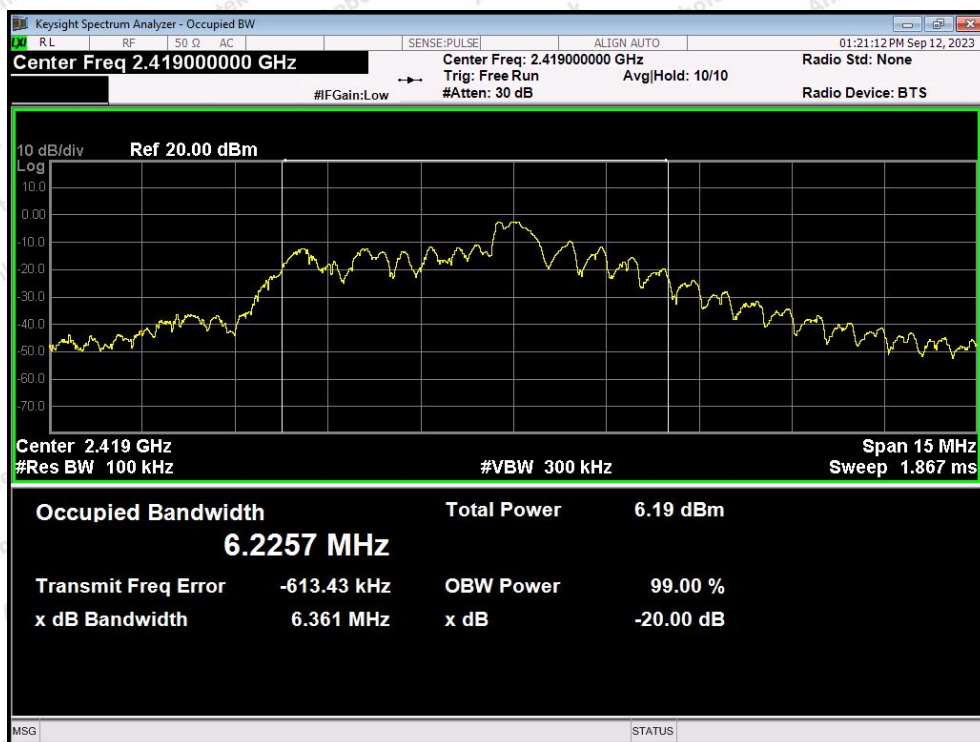
1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
RBW = 100kHz, VBW $\geq$ 3*RBW =300kHz,
Detector= Average
Trace mode= Max hold.
Sweep- auto couple.
4. Mark the peak frequency and -20dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

5.4. Test Data

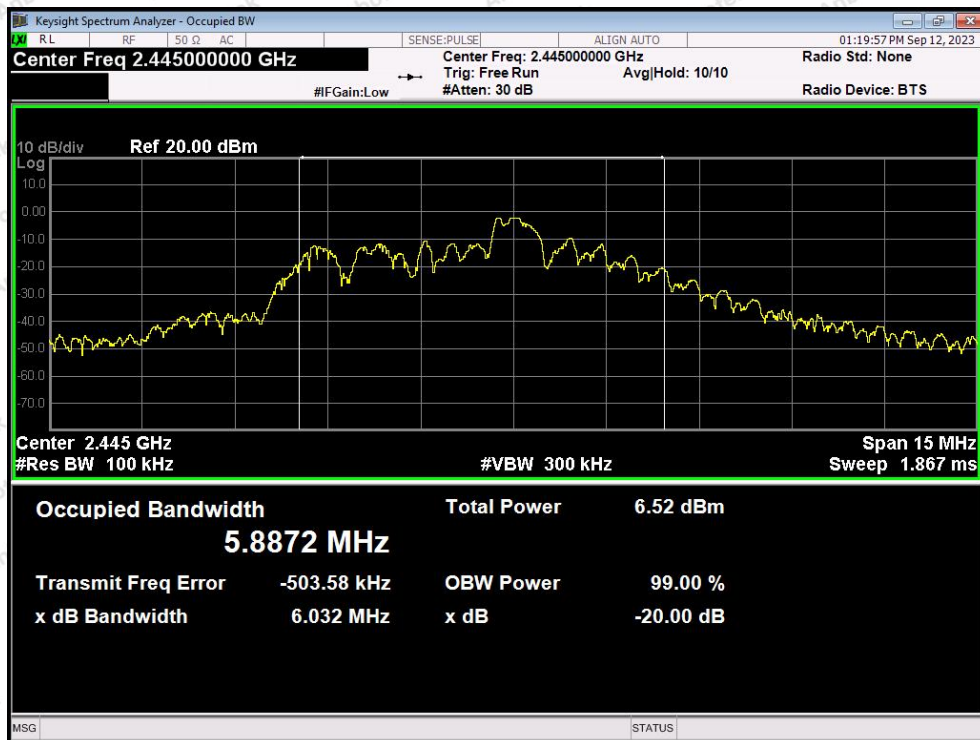
Test Item	: 20dB Bandwidth	Test Mode	: CH Low ~ CH High
Test Voltage	: DC 3V battery	Temperature	: 22.4℃
Test Result	: PASS	Humidity	: 55%RH

Channel	Bandwidth (kHz)	Result
Low	6361	PASS
Middle	6032	PASS
High	3872	PASS



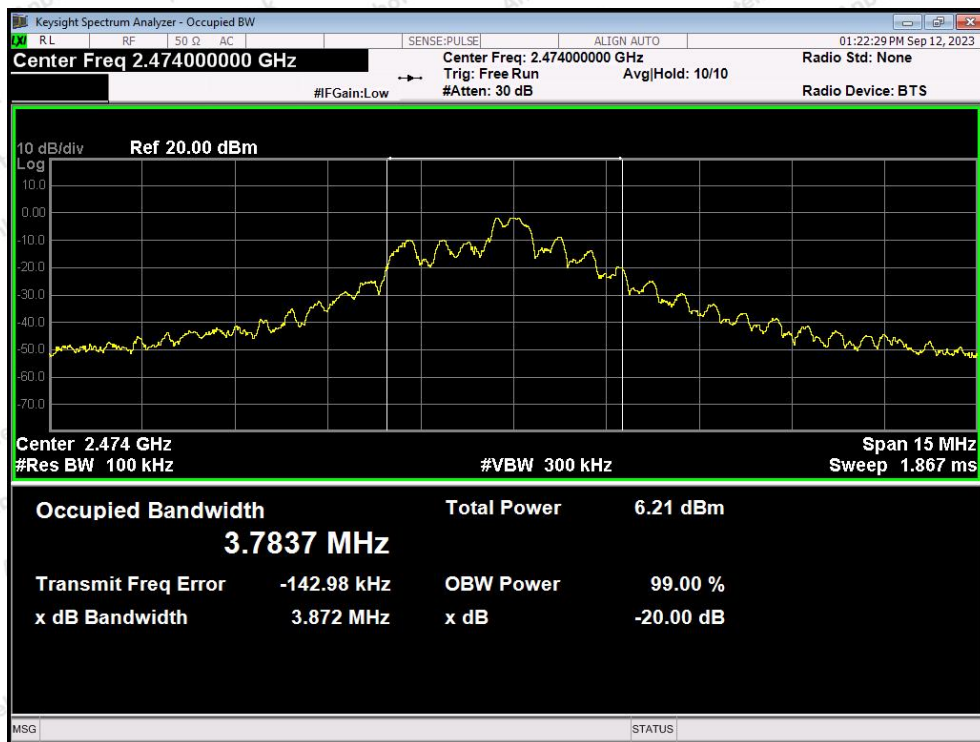


Low Channel



Mid Channel





High Channel



6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	1) 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.

6.2. Antenna Connected Construction

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is 2.499 dBi. It complies with the standard requirement.



APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

