



## Shenzhen Huaxia Testing Technology Co., Ltd.

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Report Template Revision Date: 2021-11-03

# Test Report

**Report No.:** CQASZ20250601294E-03

**Applicant:** Shenzhen Fanhua Gaosi Innovation Internet Technology Co., Ltd

**Address of Applicant:** Room 505, Building 1, Yibaolai Industrial City, Qiaotou Community, Fuhai Street, Baoan District, Shenzhen

**Equipment Under Test (EUT):**

**EUT Name:** CMT-105 2.4G Wireless and Bluetooth Mouse

**Model No.:** CMT-105, CMT-106, CMT-107 ~, ZCCMT105, YLCMT105, TXCMT105, FHCM105 ~

**Test Model No.:** CMT-105

**Brand Name:** COLORFUL

**FCC ID:** 2BQIO-CMT

**Standards:** 47 CFR Part 15, Subpart C

KDB558074 D01 15.247 Meas Guidance v05r02

**Date of Receipt:** 2025-06-10

**Date of Test:** 2025-06-10 to 2025-07-03

**Date of Issue:** 2025-07-14

**Test Result:** **PASS\***

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

**Tested By:**

lewis zhou

( Lewis Zhou )

**Reviewed By:**

Timo Lei

( Timo Lei )

**Approved By:**

Jack Ai

( Jack Ai )



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## 1 Version

### Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250601294E-03	Rev.01	Initial report	2025-07-14

## 2 Test Summary

Test Item	Test Requirement	Test method	Result
<b>Antenna Requirement</b>	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 (2013)	PASS
<b>AC Power Line Conducted Emission</b>	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2013)	PASS
<b>Field Strength of the Fundamental Signal</b>	47 CFR Part 15, Subpart C Section 15.249 (a)	ANSI C63.10 (2013)	PASS
<b>Spurious Emissions</b>	47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	ANSI C63.10 (2013)	PASS
<b>Restricted bands around fundamental frequency (Radiated Emission)</b>	47 CFR Part 15, Subpart C Section 15.249(a)/15.205	ANSI C63.10 (2013)	PASS
<b>20dB Occupied Bandwidth</b>	47 CFR Part 15, Subpart C Section 15.215 (c)	ANSI C63.10 (2013)	PASS

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## 4 General Information

### 4.1 Client Information

Applicant:	Shenzhen Fanhua Gaosi Innovation Internet Technology Co., Ltd
Address of Applicant:	Room 505, Building 1, Yibaolai Industrial City, Qiaotou Community, Fuhai Street, Baoan District, Shenzhen
Manufacturer:	Dongguan Weisite Technology Co., Ltd.
Address of Manufacturer:	NO.1, Lane2, Minchang Road, Nance, Humen Town, Dongguan City, Guangdong Province, China.
Factory:	Dongguan Weisite Technology Co., Ltd.
Address of Factory:	NO.1, Lane2, Minchang Road, Nance, Humen Town, Dongguan City, Guangdong Province, China.

### 4.2 General Description of EUT

EUT Name:	CMT-105 2.4G Wireless and Bluetooth Mouse
Model No.:	CMT-105, CMT-106, CMT-107 ~, ZCCMT105, YLCMT105, TXCMT105, FHCMT105 ~
Test Model No.:	CMT-105
Trade Mark:	COLORFUL
Software Version:	Aimi YZW256-OTM 20250318-V3.0
Hardware Version:	Aimi YZW256-OTM
Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Sample Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Software of EUT:	FCC_test_tool
Antenna Type:	PCB antenna
Antenna Gain:	3.55dBi
Power Supply:	Li-ion battery DC 3.7V 500mAh, Charge by DC 5V for adapter

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

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:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz

### 4.3 Test Environment and Mode

<b>Operating Environment:</b>	
<b>Radiated Emissions:</b>	
Temperature:	27 °C
Humidity:	59 % RH
Atmospheric Pressure:	1009mbar
Temperature:	26 °C
Humidity:	59 % RH
Atmospheric Pressure:	1009mbar
<b>Radio conducted item test (RF Conducted test room):</b>	
Temperature:	25.3 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009mbar
<b>Test mode:</b>	
Transmitting mode:	Use test software (RF test) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

### 4.4 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
/	/	/	/	/

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	/	/

## 4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for **CQA** laboratory is reported:

Test	Range	Uncertainty	Notes
Radiated Emission	Below 1GHz	5.12dB	(1)
Radiated Emission	Above 1GHz	4.60dB	(1)
Conducted Disturbance	0.15~30MHz	3.34dB	(1)

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 4.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

## 4.7 Test Facility

- **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

- **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology 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 our files. Registration No.:522263

## 4.8 Deviation from Standards

None.

## 4.9 Abnormalities from Standard Conditions

None.

## 4.10 Other Information Requested by the Customer

None.

## 4.11 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU26	CQA-038	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU40	CQA-075	2024/9/2	2025/9/1
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2024/9/2	2025/9/1
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2024/9/2	2025/9/1
Preamplifier	EMCI	EMC184055SE	CQA-089	2024/9/2	2025/9/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2023/9/8	2026/9/7
Bilog Antenna	R&S	HL562	CQA-011	2023/11/01	2026/10/31
Horn Antenna	R&S	HF906	CQA-012	2023/11/01	2026/10/31
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2023/9/7	2026/9/6
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2024/9/2	2025/9/1
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2024/9/2	2025/9/1
Antenna Connector	CQA	RFC-01	CQA-080	2024/9/2	2025/9/1
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2024/9/2	2025/9/1
Power meter	R&S	NRVD	CQA-029	2024/9/2	2025/9/1
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2024/9/2	2025/9/1
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2	2025/9/1
LISN	R&S	ENV216	CQA-003	2024/9/2	2025/9/1
Coaxial cable	CQA	N/A	CQA-C009	2024/9/2	2025/9/1
DC power	KEYSIGHT	E3631A	CQA-028	2024/9/2	2025/9/1

Test software:

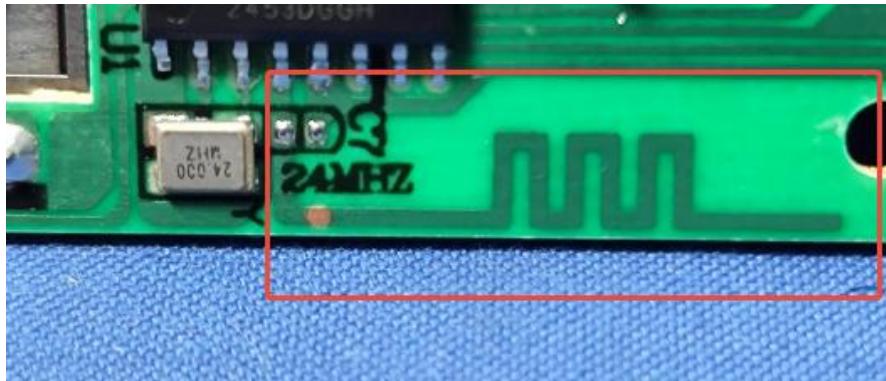
	Manufacturer	Software brand	Software version
Radiated Emissions test software	Tonscend	JS1120-3	Version:8
Conducted Emissions test software	Audix	e3	Version:9
RF Conducted test software	Audix	e3	V3.5.39

Note:

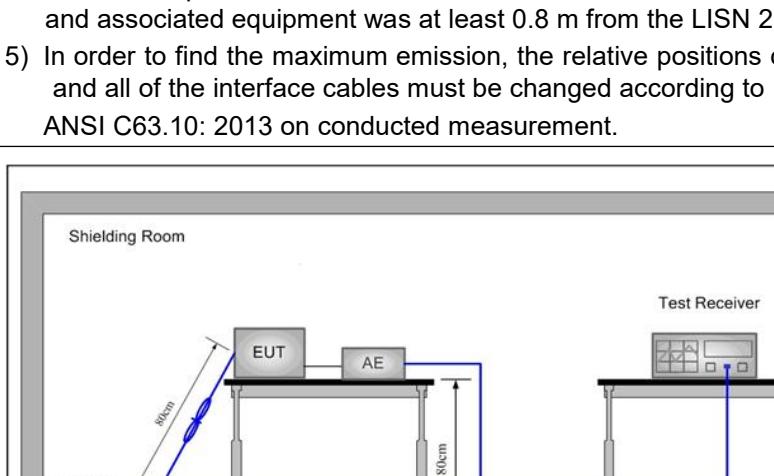
The temporary antenna connector is soldered on the pcb board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

## 5 Test results and Measurement Data

### 5.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203
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.
<b>EUT Antenna:</b>	
<p>The antenna is PCB antenna. The connection/connection type between the antenna to the EUT's antenna port is: permanently attachment. This is either permanently attachment or a unique coupling that satisfies the requirement.</p>	

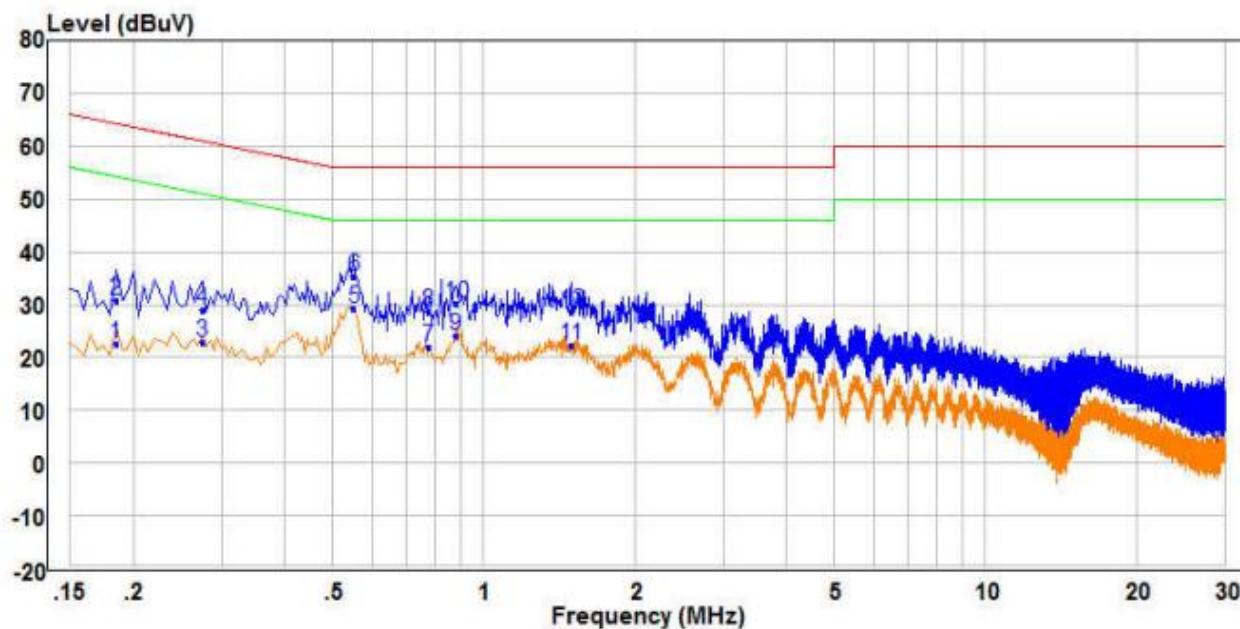
## 5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207														
Test Method:	ANSI C63.10: 2013														
Test Frequency Range:	150kHz to 30MHz														
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <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> </tbody> </table>	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
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 Procedure:	<ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a <math>50\Omega/50\mu\text{H} + 5\Omega</math> linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol>														
Test Setup:															
Test Mode:	Charge mode.														

Final Test Mode:	Charge mode
Test Results:	Pass

**Measurement Data:**

Live line:

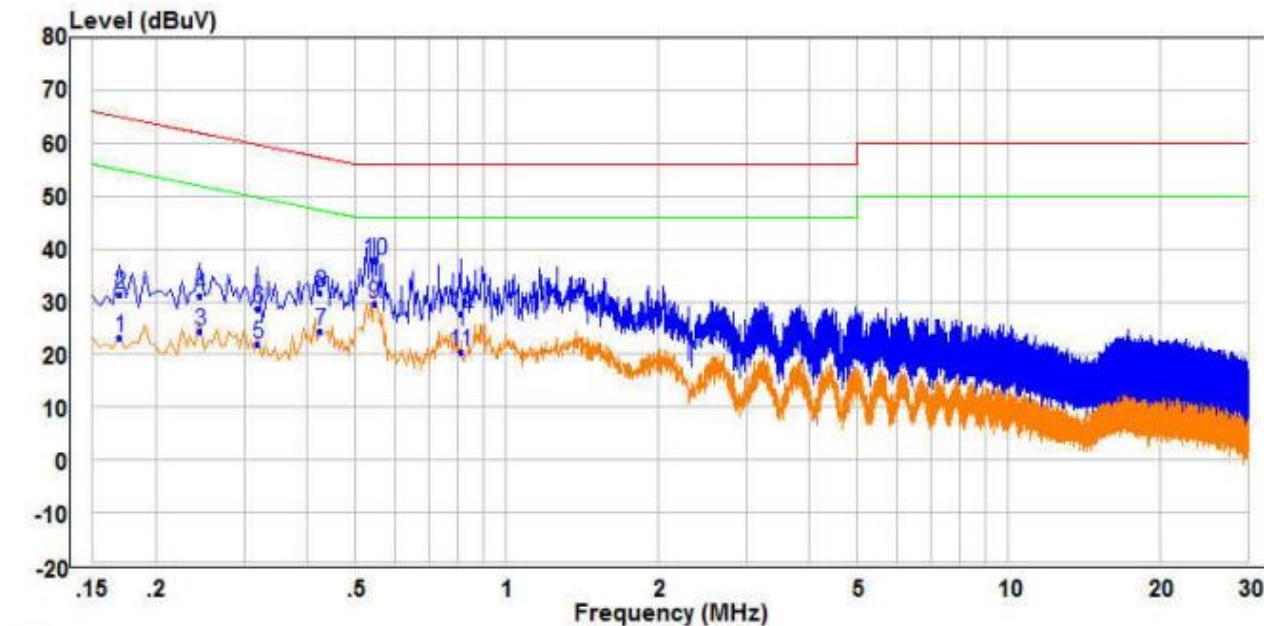


Freq	Read	Factor	Level	Limit	Over	Remark	Pol/Phase	
	MHz			dBuV	dBuV			
1	0.185	13.05	9.64	22.69	54.26	-31.57	Average	Line
2	0.185	21.28	9.64	30.92	64.26	-33.34	QP	Line
3	0.275	13.28	9.52	22.80	50.97	-28.17	Average	Line
4	0.275	19.47	9.52	28.99	60.97	-31.98	QP	Line
5 PP	0.550	19.40	9.75	29.15	46.00	-16.85	Average	Line
6 QP	0.550	25.49	9.75	35.24	56.00	-20.76	QP	Line
7	0.775	12.16	9.85	22.01	46.00	-23.99	Average	Line
8	0.775	18.81	9.85	28.66	56.00	-27.34	QP	Line
9	0.880	14.22	9.78	24.00	46.00	-22.00	Average	Line
10	0.880	20.32	9.78	30.10	56.00	-25.90	QP	Line
11	1.490	11.59	10.81	22.40	46.00	-23.60	Average	Line
12	1.490	17.82	10.81	28.63	56.00	-27.37	QP	Line

**Remark:**

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:



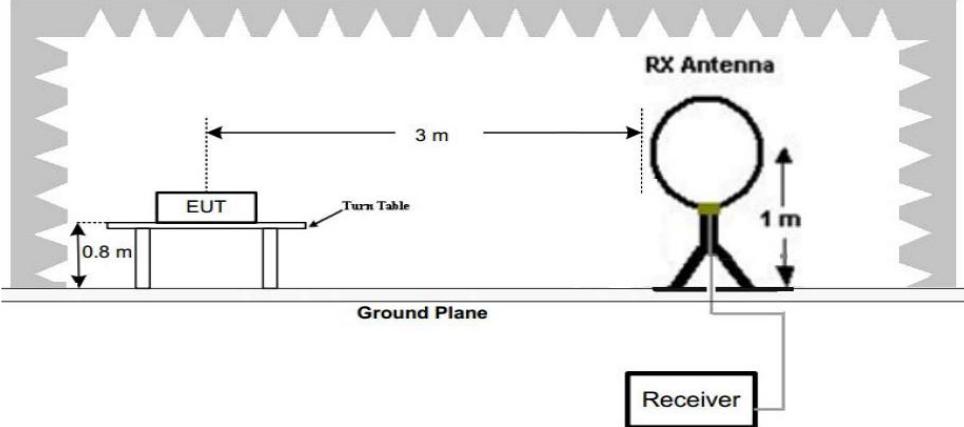
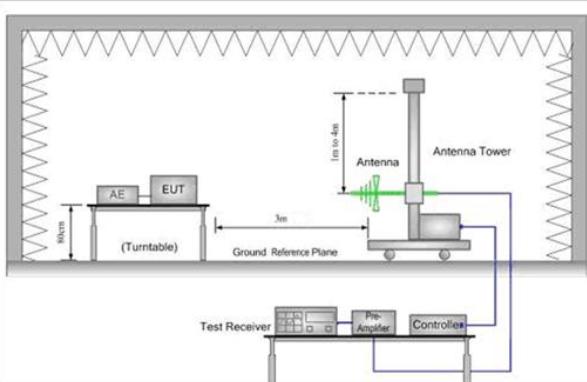
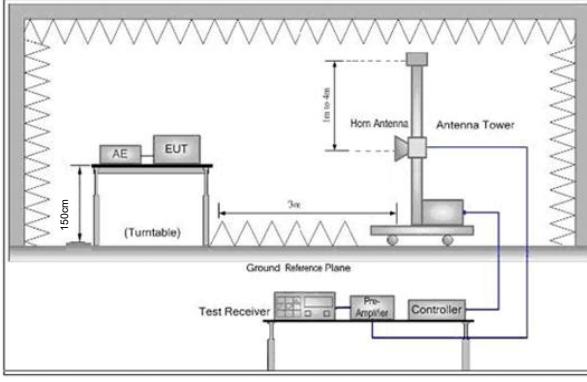
Freq	Read			Limit Level	Limit Line	Over Limit	Remark	Pol/Phase	
	MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.170	13.42	9.66	23.08	54.96	-31.88	Average	Neutral	
2	0.170	21.78	9.66	31.44	64.96	-33.52	QP	Neutral	
3	0.245	14.93	9.54	24.47	51.92	-27.45	Average	Neutral	
4	0.245	21.62	9.54	31.16	61.92	-30.76	QP	Neutral	
5	0.320	12.40	9.51	21.91	49.71	-27.80	Average	Neutral	
6	0.320	19.23	9.51	28.74	59.71	-30.97	QP	Neutral	
7	0.425	14.68	9.63	24.31	47.35	-23.04	Average	Neutral	
8	0.425	21.97	9.63	31.60	57.35	-25.75	QP	Neutral	
9	PP	0.545	19.82	9.75	29.57	46.00	-16.43	Average	Neutral
10	QP	0.545	27.89	9.75	37.64	56.00	-18.36	QP	Neutral
11	0.810	10.65	9.83	20.48	46.00	-25.52	Average	Neutral	
12	0.810	18.04	9.83	27.87	56.00	-28.13	QP	Neutral	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

### 5.3 Radiated Emission

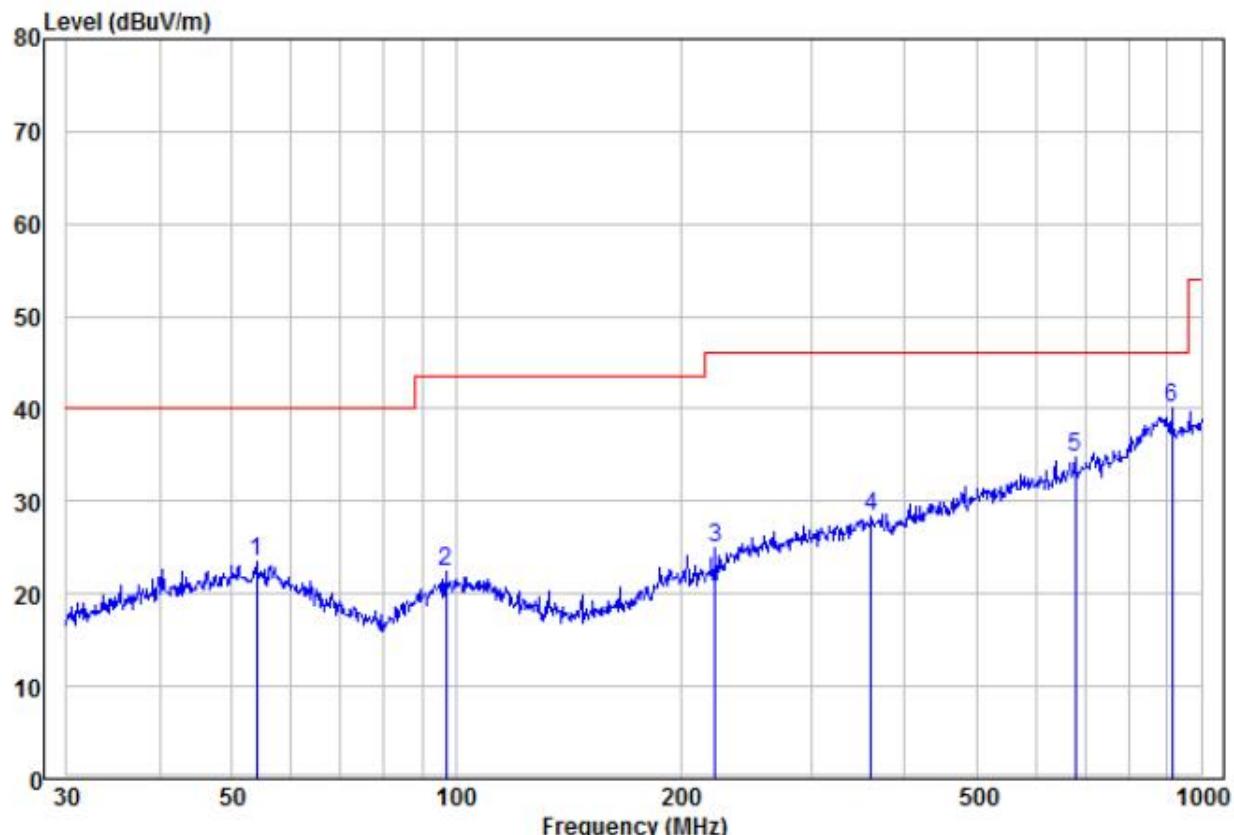
Test Requirement:	47 CFR Part 15C Section 15.249 and 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Note: For fundamental frequency, RBW=5MHz, VBW=5MHz, Peak detector is for PK value, RMS detector is for Average value.					
Limit: (Spurious Emissions and band edge)	Frequency	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-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Note: 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.				
2) 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.					
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	2400MHz-2483.5MHz	94.0		Average Value	
		114.0		Peak Value	

Test Setup:	
	<p>Figure 1. Below 30MHz</p>  
Test Procedure:	<p>a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.  2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.  Note: 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.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table</p>

	<p>was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <ul style="list-style-type: none"><li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li><li>g. Test the EUT in the lowest channel, the middle channel, the Highest channel</li><li>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li><li>i. Repeat above procedures until all frequencies measured was complete.</li></ul>
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Test Results:	Pass

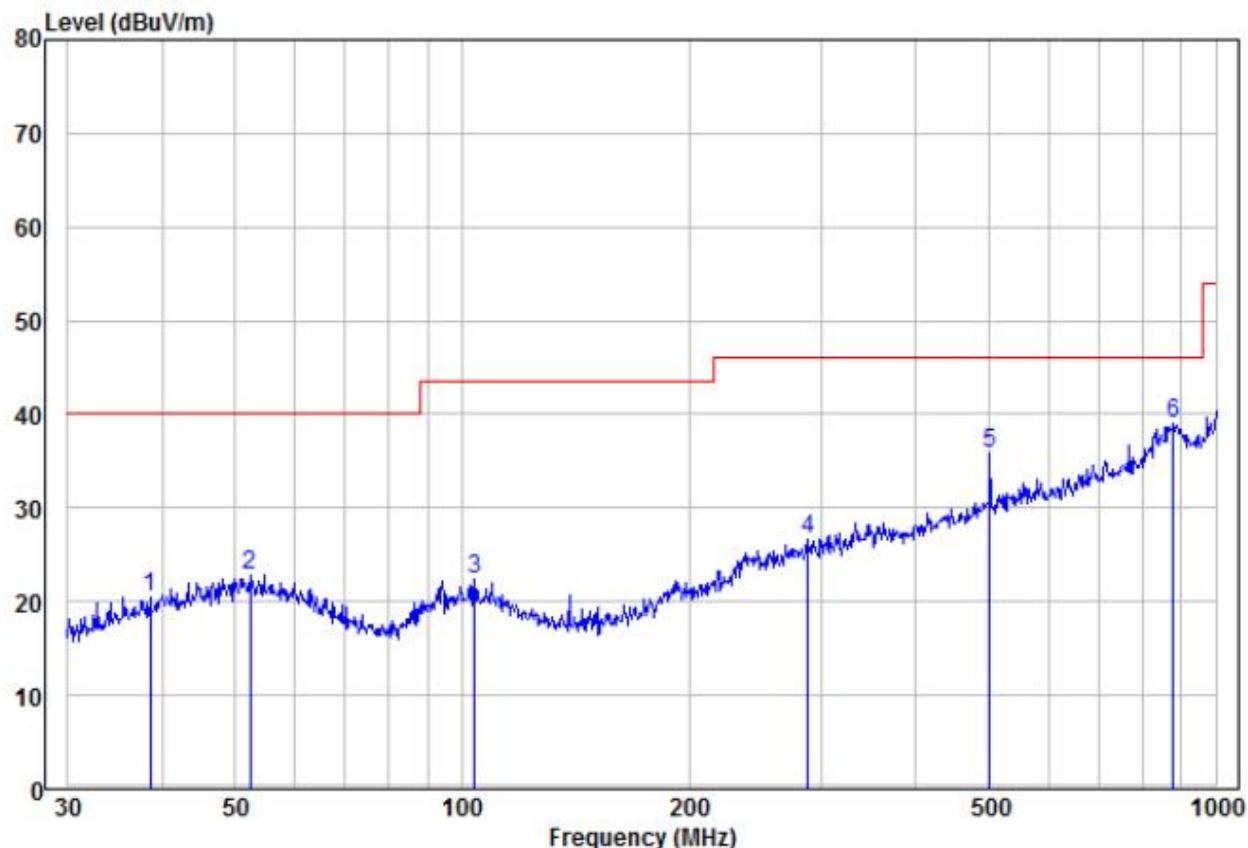
**Measurement Data**
**30MHz~1GHz**

Test mode:	Transmitting	Vertical
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Freq	Read			Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	Level	Factor	Level						
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	53.88	9.56	13.81	23.37	40.00	-16.63 Peak	VERTICAL	100	96
2	96.77	9.91	12.48	22.39	43.50	-21.11 Peak	VERTICAL	100	45
3	222.95	11.12	13.94	25.06	46.00	-20.94 Peak	VERTICAL	100	230
4	360.45	9.05	19.24	28.29	46.00	-17.71 Peak	VERTICAL	100	176
5	677.58	11.18	23.64	34.82	46.00	-11.18 Peak	VERTICAL	100	25
6 pp	912.86	11.72	28.40	40.12	46.00	-5.88 Peak	VERTICAL	100	13

Test mode:	Transmitting	Horizontal
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Read	Freq	Level	Factor	Level	Limit	Over	Remark	Pol/Phase	APos	TPos	
					Line	Line					
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	dB		cm	deg	
1	38.62	8.83		11.63	20.46	40.00	-19.54	Peak	HORIZONTAL	100	122
2	52.39	9.00		13.80	22.80	40.00	-17.20	Peak	HORIZONTAL	100	84
3	103.81	9.40		12.90	22.30	43.50	-21.20	Peak	HORIZONTAL	100	251
4	287.99	9.27		17.43	26.70	46.00	-19.30	Peak	HORIZONTAL	100	203
5	501.18	13.94		21.84	35.78	46.00	-10.22	Peak	HORIZONTAL	100	326
6 pp	878.32	9.66		29.48	39.14	46.00	-6.86	Peak	HORIZONTAL	100	349

Above 1GHz									
Test mode:		Transmitting		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant Pol	Antenna Height	Table Angle
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		H/V	(m)	(Degree)
2390	62.39	-9.2	53.19	74	-20.81	Peak	H	1.5	209
2390	45.43	-9.2	36.23	54	-17.77	AVG	H	1.5	120
2400	44.28	-9.39	34.89	74	-39.11	Peak	H	1.5	341
2400	44.40	-9.39	35.01	54	-18.99	AVG	H	1.5	298
2406	100.80	-9.33	91.47	114	-22.53	peak	H	1.5	72
2406	98.28	-9.33	88.95	94	-5.05	AVG	H	1.5	339
4812	55.71	-4.28	51.43	74	-22.57	peak	H	1.5	233
4812	43.49	-4.28	39.21	54	-14.79	AVG	H	1.5	7
7218	52.52	1.13	53.65	74	-20.35	peak	H	1.5	8
7218	36.55	1.13	37.68	54	-16.32	AVG	H	1.5	161
2390	60.34	-9.2	51.14	74	-22.86	peak	V	1.5	222
2390	44.13	-9.2	34.93	54	-19.07	AVG	V	1.5	117
2400	61.55	-9.39	52.16	74	-21.84	peak	V	1.5	1
2400	43.85	-9.39	34.46	54	-19.54	AVG	V	1.5	305
2406	96.61	-9.33	87.28	114	-26.72	peak	V	1.5	209
2406	92.31	-9.33	82.98	94	-11.02	AVG	V	1.5	236
4812	56.68	-4.28	52.40	74	-21.60	peak	V	1.5	126
4812	40.85	-4.28	36.57	54	-17.43	AVG	V	1.5	37
7218	52.02	1.13	53.15	74	-20.85	peak	V	1.5	179
7218	35.78	1.13	36.91	54	-17.09	AVG	V	1.5	132

Test mode:		Transmitting		Test channel:		Middle			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant . Pol.	Antenna Height	Table Angle
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)		H/V	(m)	(Degree)
2438	98.02	-9.37	88.65	114	-25.35	peak	H	1.5	294
2438	97.22	-9.37	87.85	94	-6.15	AVG	H	1.5	358
4876	54.91	-4.14	50.77	74	-23.23	peak	H	1.5	58
4876	41.37	-4.14	37.23	54	-16.77	AVG	H	1.5	195
7314	51.75	0.56	52.31	74	-21.69	peak	H	1.5	336
7314	38.34	0.56	38.90	54	-15.10	AVG	H	1.5	324
2438	96.72	-9.36	87.36	114	-26.64	peak	V	1.5	219
2438	93.47	-9.36	84.11	94	-9.89	AVG	V	1.5	18
4876	55.29	-4.14	51.15	74	-22.85	peak	V	1.5	3
4876	42.78	-4.14	38.64	54	-15.36	AVG	V	1.5	227
7314	51.58	0.56	52.14	74	-21.86	peak	V	1.5	321
7314	35.87	0.56	36.43	54	-17.57	AVG	V	1.5	270

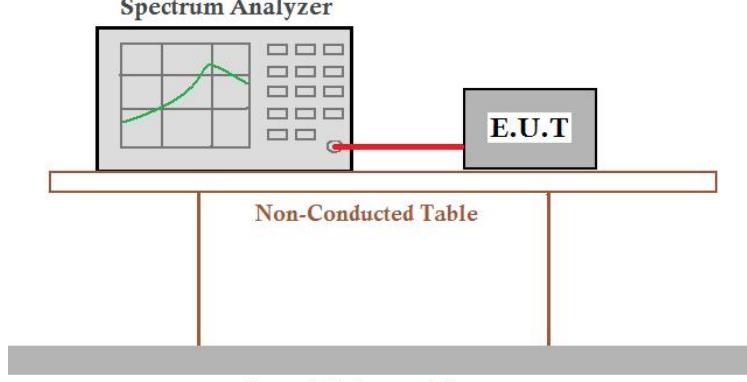
Test mode:		Transmitting		Test channel:		Highest				
Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits	Over (dB)	Detector Type	Ant Pol	Antenna Height (m)	Table Angle (Degree )	
							H/ V	(m)		
2470	97.59	-9.23	88.36	114	-25.64	peak	H	1.5	157	
2470	95.88	-9.23	86.65	94	-7.35	AVG	H	1.5	142	
2483.5	62.21	-9.29	52.92	74	-21.08	Peak	H	1.5	260	
2483.5	44.07	-9.29	34.78	54	-19.22	AVG	H	1.5	218	
4940	56.51	-4.03	52.48	74	-21.52	peak	H	1.5	210	
4940	40.91	-4.03	36.88	54	-17.12	AVG	H	1.5	193	
7410	50.81	1.68	52.49	74	-21.51	peak	H	1.5	166	
7410	38.25	1.68	39.93	54	-14.07	AVG	H	1.5	124	
2470	96.52	-9.23	87.29	114	-26.71	peak	V	1.5	80	
2470	95.23	-9.23	86.00	94	-8.00	AVG	V	1.5	323	
2483.5	62.35	-9.29	53.06	74	-20.94	peak	V	1.5	339	
2483.5	43.57	-9.29	34.28	54	-19.72	AVG	V	1.5	206	
4940	55.80	-4.03	51.77	74	-22.23	peak	V	1.5	40	
4940	42.23	-4.03	38.20	54	-15.80	AVG	V	1.5	123	
7410	51.28	1.68	52.96	74	-21.04	peak	V	1.5	193	
7410	37.08	1.68	38.76	54	-15.24	AVG	V	1.5	278	

**Remark:**

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$
- 2) Scan from 9kHz to 25GHz, The disturbance above 10GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

## 5.4 20dB Bandwidth

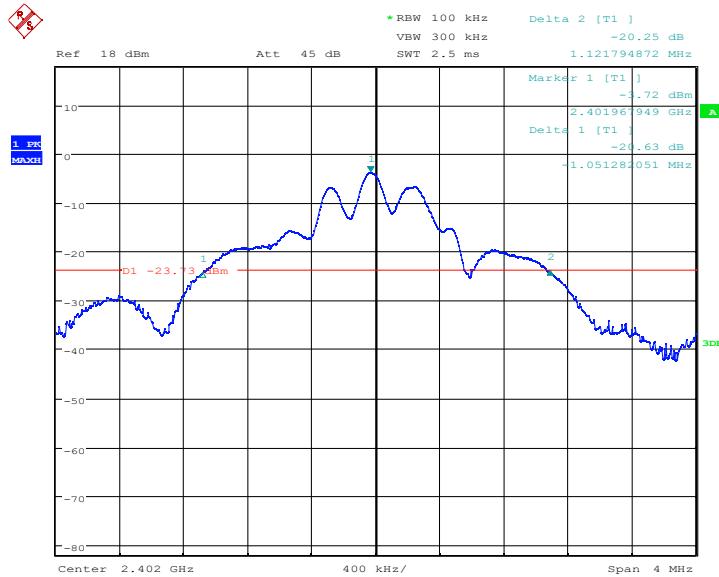
Test Requirement:	47 CFR Part 15C Section 15.215
Test Method:	ANSI C63.10:2013
Test Setup:	<p style="text-align: center;"><b>Spectrum Analyzer</b></p> 
Test Mode:	Transmitting with OFDM modulation.
Limit:	N/A
Test Results:	Pass

### Measurement Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	2.17	Pass
Middle	2.19	Pass
Highest	2.17	Pass

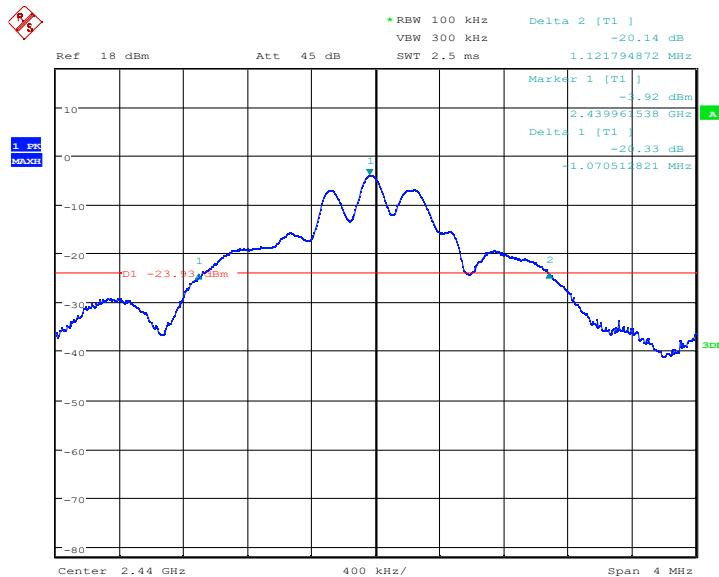
**Test plot as follows:**

Test channel:	Lowest
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Date: 19.JUN.2025 14:00:07

Test channel:	Middle
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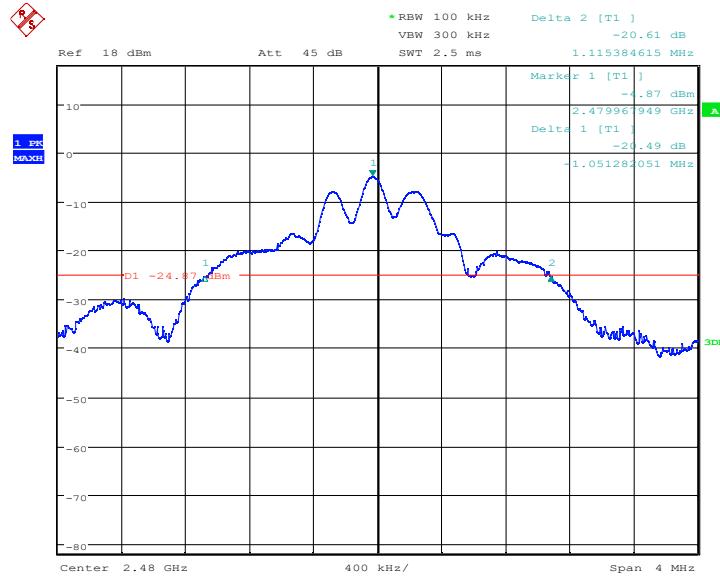


Date: 19.JUN.2025 14:04:43

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Test channel:	Highest
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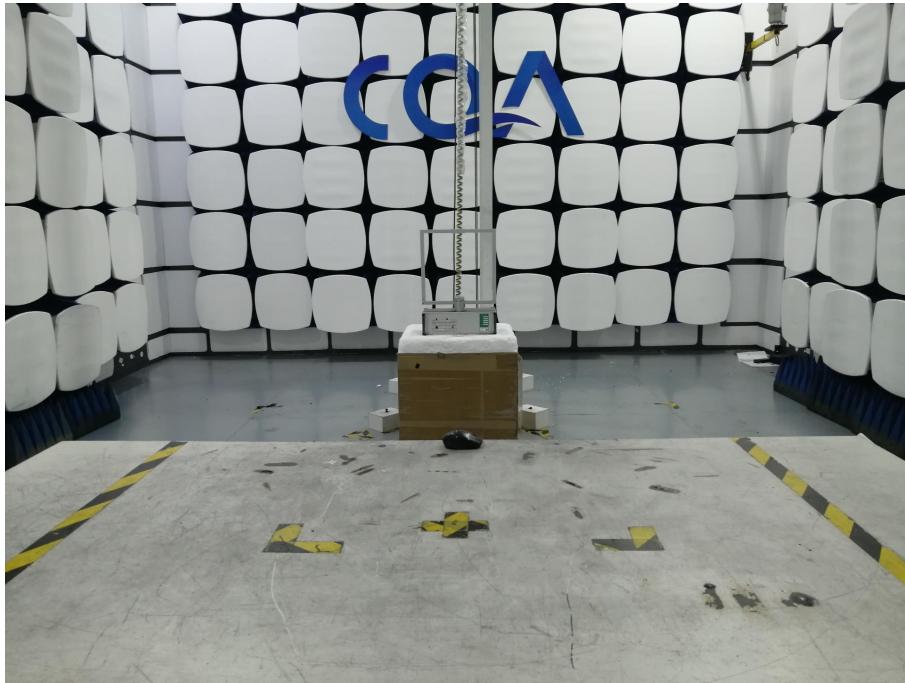


Date: 19.JUN.2025 14:06:24

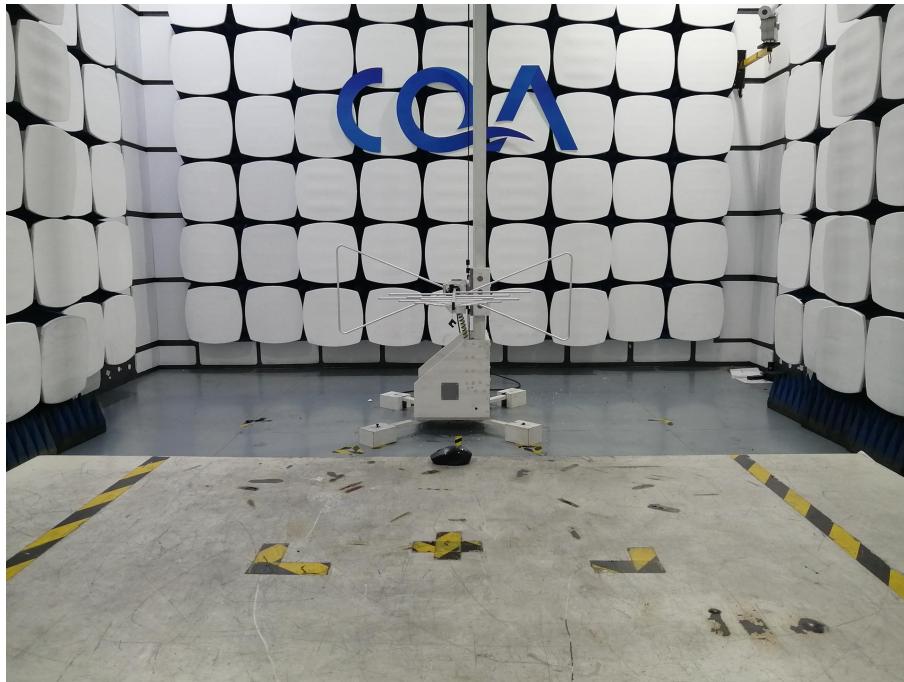
## 6 Photographs

### 6.1 Radiated Emission Test Setup

9kHz~30MHz



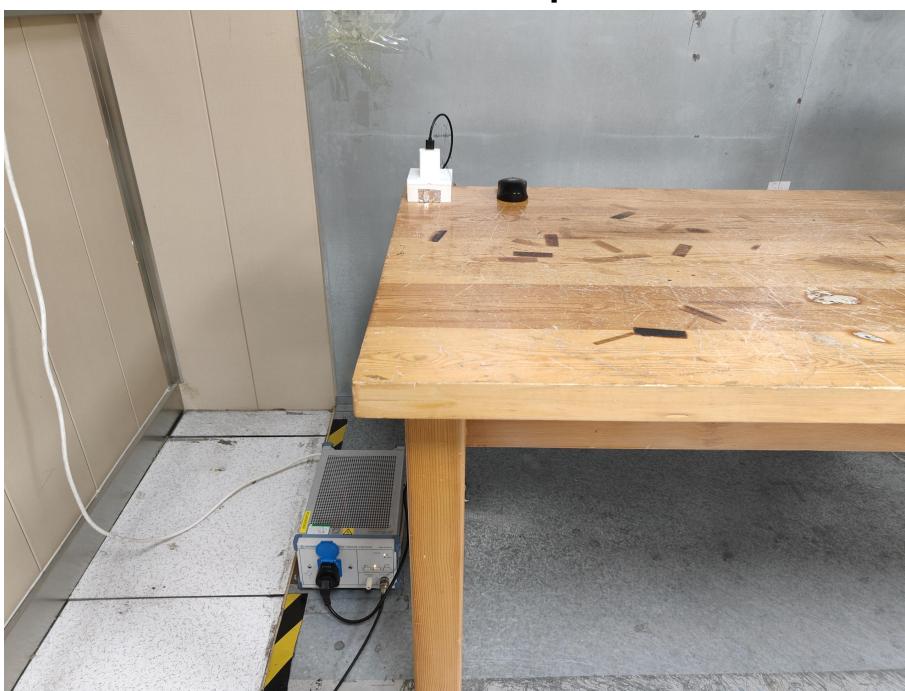
30MHz~1GHz:



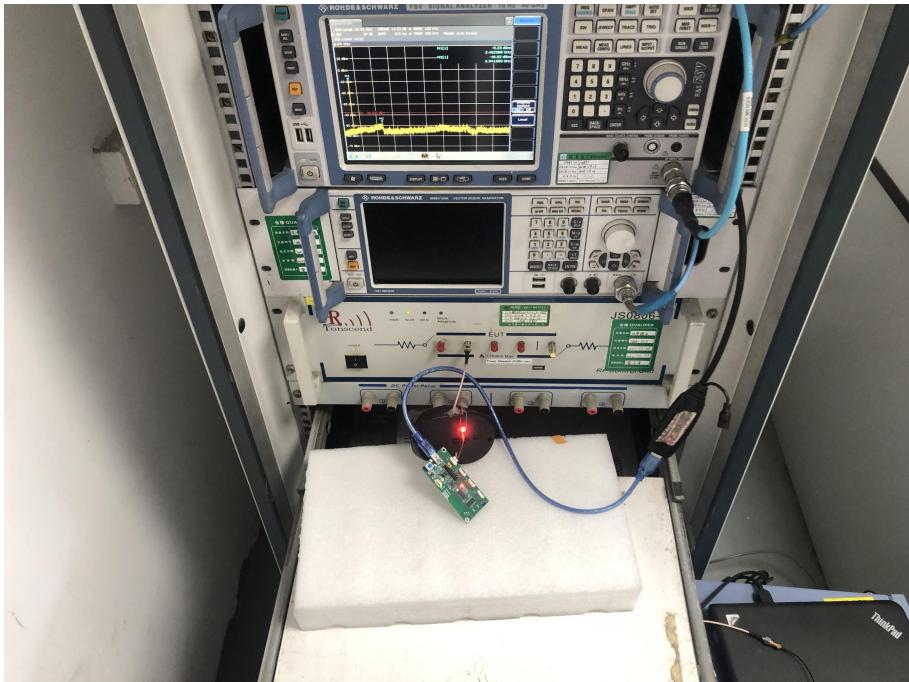
Above 1GHz:



## 6.2 Conducted Emission Test Setup



### 6.3 RF Conducted measurement



## **6.4 EUT Constructional Details**

Refer to Photographs - EUT Constructional Details OF EUT for CQASZ20250601294E-01.

**\*\*\* END OF REPORT \*\*\***