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Report Template Version: V05 Report Template Revision Date: 2021-11-03

# **Test Report**

Report No.: CQASZ20231001791E-02
Applicant: ZhuoYe ChuangYi Co., Ltd.

Address of Applicant: Room 602-1, Building 6, Shenzhen Bay Eco-Tech Park, Nanshan District,

Shenzhen, China

**Equipment Under Test (EUT):** 

**EUT Name:** GravaStar Mercury M1 Pro Wireless Gaming Mouse

Model No.: GravaStar M1

Test Model No.: GravaStar M1

Brand Name: GravaStar

FCC ID: 2ASXF-M1

Standards: 47 CFR Part 15, Subpart C

**Date of Receipt:** 2023-10-08

**Date of Test:** 2023-10-08 to 2023-10-26

Date of Issue: 2023-11-09
Test Result: PASS\*

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

Tested By:

(Lewis Zhou)

Reviewed By:

(Timo Lei)

Approved By: (Jack Ai)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



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### 1 Version

# **Revision History Of Report**

Report No.	Version	Description	Issue Date
CQASZ20231001791E-02	Rev.01	Initial report	2023-11-09



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# 2 Test Summary

Test Item	Test Requirement	Requirement Test method	
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 (2013)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2013)	PASS
Field Strength of the Fundamental Signal	47 CFR Part 15, Subpart C Section 15.249 (a)	ANSI C63.10 (2013)	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	ANSI C63.10 (2013)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.249(a)/15.205	ANSI C63.10 (2013)	PASS
20dB Occupied Bandwidth	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:	ZhuoYe ChuangYi Co., Ltd.
Address of Applicant:	Room 602-1, Building 6, Shenzhen Bay Eco-Tech Park, Nanshan District, Shenzhen, China
Manufacturer:	ZhuoYe ChuangYi Co., Ltd.
Address of Manufacturer:	Room 602-1, Building 6, Shenzhen Bay Eco-Tech Park, Nanshan District, Shenzhen, China
Factory:	Dongguan Siliten Electronics Co., Ltd
Address of Factory:	Sijia Yewu Industrial Estate, Shijie Town, Dongguan City, Guangdong, China

# 4.2 General Description of EUT

EUT Name:	GravaStar Mercury M1 Pro Wireless Gaming Mouse
Model No.:	GravaStar M1
Test Model No.:	GravaStar M1
Trade Mark:	GravaStar
Software Version:	V129
Hardware Version:	V0.1
Frequency Range:	2403MHz-2480MHz
Modulation Type:	GFSK
Number of Channels:	16
Sample Type:	☐ Mobile ☒ Portable
Test Software of EUT:	EUT key
Antenna Type:	Ceramic antenna
Antenna Gain:	3.8dBi
Power Supply:	Li-ion battery: DC 3.7V 300mAh, Charge by DC 5V for adapter



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Operation Frequency each of channel					
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2403MHz	7	2452MHz	13	2470MHz
2	2424MHz	8	2458MHz	14	2472MHz
3	2442MHz	9	2462MHz	15	2474MHz
4	2444MHz	10	2464MHz	16	2480MHz
5	2446MHz	11	2466MHz	/	/
6	2450MHz	12	2468MHz	/	/

#### 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(CH1)	2403MHz	
The Middle channel(CH8)	2458MHz	
The Highest channel(CH16)	2480MHz	



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### 4.3 Test Environment and Mode

Operating Environment	:
Radiated Emissions:	
Temperature:	27 °C
Humidity:	59 % RH
Atmospheric Pressure:	1009mbar
Temperature:	26 °C
Humidity:	59 % RH
Atmospheric Pressure:	1009mbar
Radio conducted item t	est (RF Conducted test room):
Temperature:	25.3 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009mbar
Test mode:	
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
1	/	1	1	/

#### 2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	,	,	1	/



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### 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)

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



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#### 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.



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# 4.11 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08	2024/09/07
Spectrum analyzer	R&S	FSU26	CQA-038	2023/09/08	2024/09/07
		AFS4-00010300-18-10P-			
Preamplifier	MITEQ	4	CQA-035	2023/09/08	2024/09/07
		AMF-6D-02001800-29-			
Preamplifier	MITEQ	20P	CQA-036	2023/09/08	2024/09/07
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2021/09/16	2024/09/15
Bilog Antenna	R&S	HL562	CQA-011	2021/09/16	2024/09/15
Horn Antenna	R&S	HF906	CQA-012	2021/09/16	2024/09/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/09/16	2024/09/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2023/09/08	2024/09/07
	347.	11//1	33.3	2020,00,00	2021/00/01
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2023/09/08	2024/09/07
Antenna Connector	CQA	RFC-01	CQA-080	2023/09/08	2024/09/07
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2023/09/08	2024/09/07
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2023/09/08	2024/09/07
EMI Test Receiver	R&S	ESPI3	CQA-013	2023/09/08	2024/09/07
LISN	R&S	ENV216	CQA-003	2023/09/08	2024/09/07
Coaxial cable	CQA	N/A	CQA-C009	2023/09/08	2024/09/07

#### 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

**Standard requirement:** 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.

#### **EUT Antenna:**



The antenna is Ceramic 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.





## **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:		Limit (d	BuV)	
	Frequency range (MHz)	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	n of the frequency.		
Test Procedure:	<ol> <li>The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω 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>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>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>In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to</li> </ol>			
Test Setup:	Shielding Room  EUT  AC Mains  LISN1	AE  LISN2  AC Mai	Test Receiver	



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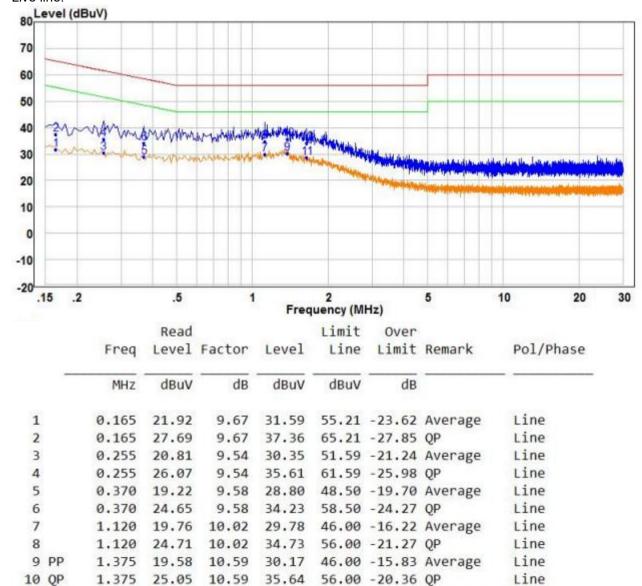
Line

Line

Test Mode:	Charge +Transmitting mode.
Final Test Mode:	Charge +Transmitting mode
Test Results:	Pass

#### **Measurement Data:**





#### Remark:

11

12

1. The following Quasi-Peak and Average measurements were performed on the EUT:

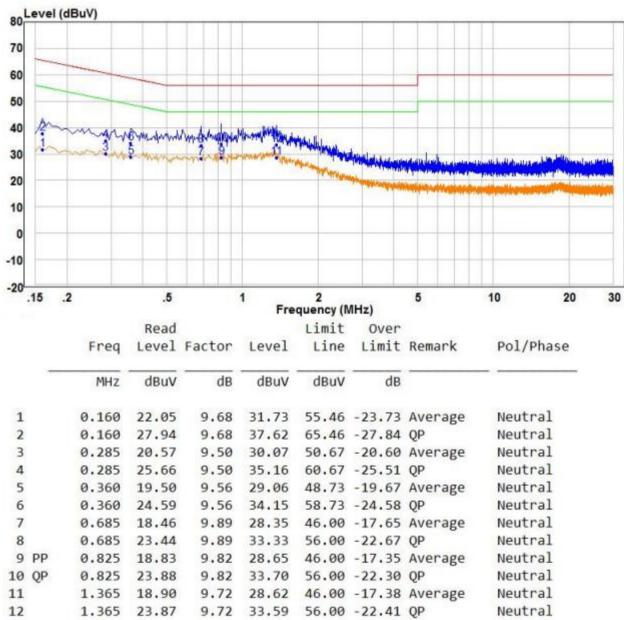
1.650 22.90 11.10 34.00 56.00 -22.00 QP

1.650 17.55 11.10 28.65 46.00 -17.35 Average

- 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:



#### 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.



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### 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 10Uz	Peak	1MHz	3MHz	Peak	
	Above 1GHz	Peak	1MHz	10Hz	Average	
	Note: For fundamental f value, RMS detect			5MHz, Peak o	detector is for	PK
Limit: (Spurious Emissions	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m )	Remark	Measurement distance (m)	
and band edge)	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
Limit:	Frequency	Limit (dBu\	//m @3m)	Ren	nark	1
(Field strength of the		94.		Average Value		1
fundamental signal)	2400MHz-2483.5MHz	114		Peak Value		1
			114.0 Feak value			



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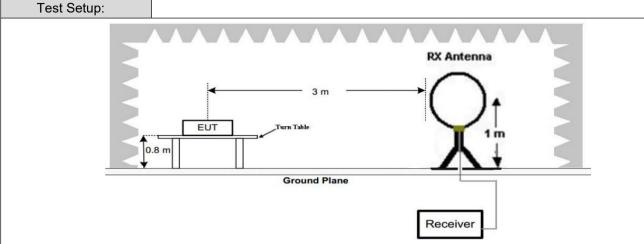
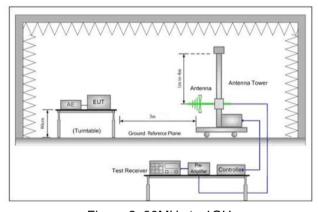


Figure 1. Below 30MHz



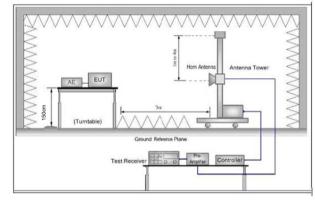


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

#### Test Procedure:

- 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 camber. 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 camber. 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.

- 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.
- 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.
- 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



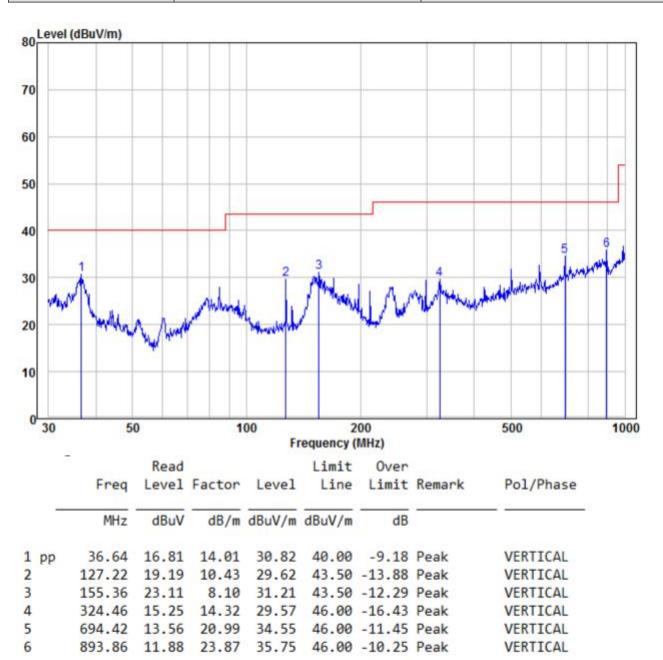
	<ul> <li>was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be retested 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> </ul>
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting mode, Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode and Charge + Transmitting mode, found the Charge + Transmitting mode which it is worse case.
	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



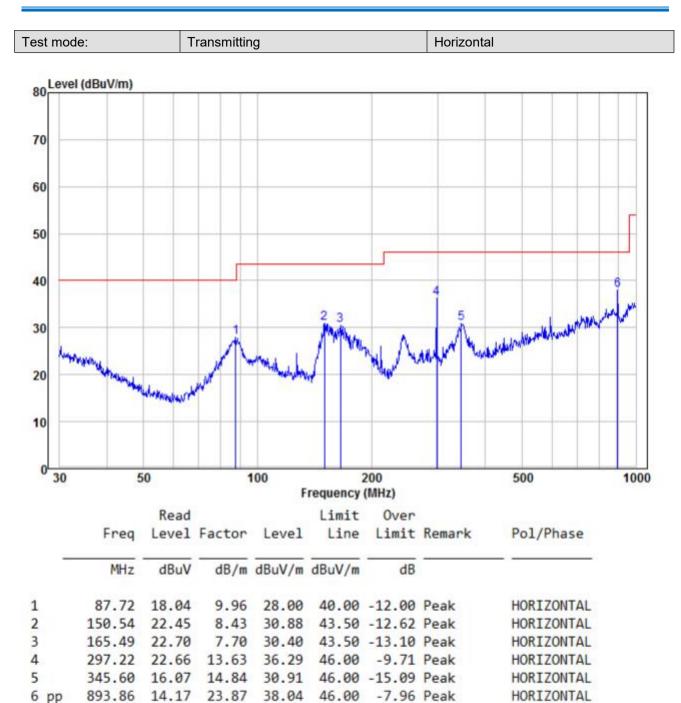


#### **Measurement Data**

30MHz~1GHz		
Test mode:	Transmitting	Vertical









Above 1GHz							
Test mode:		Transmitti	ng	Test chann	nel:	Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2390	61.60	-9.2	52.40	74	-21.60	Peak	Н
2390	46.47	-9.2	37.27	54	-16.73	AVG	Н
2400	43.93	-9.39	34.54	74	-39.46	Peak	Н
2400	43.89	-9.39	34.50	54	-19.50	AVG	Н
2403	99.47	-9.33	90.14	114	-23.86	peak	Н
2403	96.72	-9.33	87.39	94	-6.61	AVG	Н
4806	56.69	-4.28	52.41	74	-21.59	peak	Н
4806	40.92	-4.28	36.64	54	-17.36	AVG	Н
7209	51.99	1.13	53.12	74	-20.88	peak	Н
7209	38.11	1.13	39.24	54	-14.76	AVG	Н
2390	61.10	-9.2	51.90	74	-22.10	peak	V
2390	45.82	-9.2	36.62	54	-17.38	AVG	V
2400	62.51	-9.39	53.12	74	-20.88	peak	V
2400	44.27	-9.39	34.88	54	-19.12	AVG	V
2403	95.10	-9.33	85.77	114	-28.23	peak	V
2403	91.11	-9.33	81.78	94	-12.22	AVG	V
4806	56.12	-4.28	51.84	74	-22.16	peak	V
4806	41.87	-4.28	37.59	54	-16.41	AVG	V
7209	51.34	1.13	52.47	74	-21.53	peak	V
7209	35.90	1.13	37.03	54	-16.97	AVG	V



Test mode:		Transmitti	ng	Test chann	nel:	Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
2458	99.19	-9.37	89.82	114	-24.18	peak	Н
2458	96.94	-9.37	87.57	94	-6.43	AVG	Н
4916	55.77	-4.14	51.63	74	-22.37	peak	Н
4916	42.37	-4.14	38.23	54	-15.77	AVG	Н
7374	53.35	0.56	53.91	74	-20.09	peak	Н
7374	36.53	0.56	37.09	54	-16.91	AVG	Н
2458	96.71	-9.36	87.35	114	-26.65	peak	V
2458	92.66	-9.36	83.30	94	-10.70	AVG	V
4916	56.29	-4.14	52.15	74	-21.85	peak	V
4916	43.10	-4.14	38.96	54	-15.04	AVG	V
7374	53.43	0.56	53.99	74	-20.01	peak	V
7374	37.19	0.56	37.75	54	-16.25	AVG	V



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Test mode:		Transmitti	ng	Test chann	nel:	Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
2480	100.16	-9.23	90.93	114	-23.07	peak	н
2480	97.75	-9.23	88.52	94	-5.48	AVG	Н
2483.5	61.94	-9.29	52.65	74	-21.35	Peak	Н
2483.5	44.46	-9.29	35.17	54	-18.83	AVG	Н
4960	55.00	-4.03	50.97	74	-23.03	peak	Н
4960	41.23	-4.03	37.20	54	-16.80	AVG	Н
7440	50.89	1.68	52.57	74	-21.43	peak	Н
7440	37.62	1.68	39.30	54	-14.70	AVG	Н
2480	96.03	-9.23	86.80	114	-27.20	peak	V
2480	95.08	-9.23	85.85	94	-8.15	AVG	V
2483.5	60.58	-9.29	51.29	74	-22.71	peak	V
2483.5	43.26	-9.29	33.97	54	-20.03	AVG	V
4960	56.22	-4.03	52.19	74	-21.81	peak	V
4960	42.92	-4.03	38.89	54	-15.11	AVG	V
7440	53.19	1.68	54.87	74	-19.13	peak	V
7440	37.29	1.68	38.97	54	-15.03	AVG	V

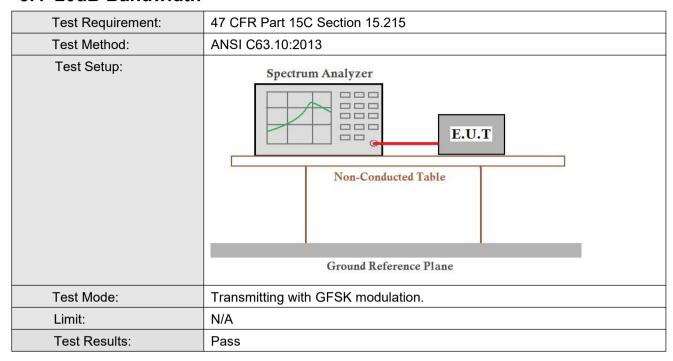
#### Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
   Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - 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.



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### 5.4 20dB Bandwidth



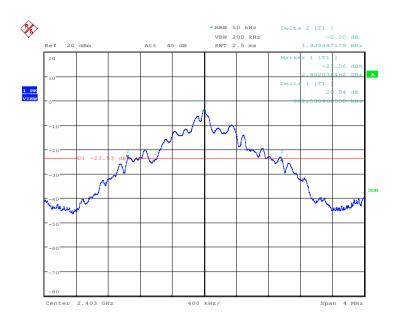
#### **Measurement Data**

Test channel	20dB bandwidth (MHz)	Results
Lowest	1.93	Pass
Middle	1.92	Pass
Highest	1.92	Pass



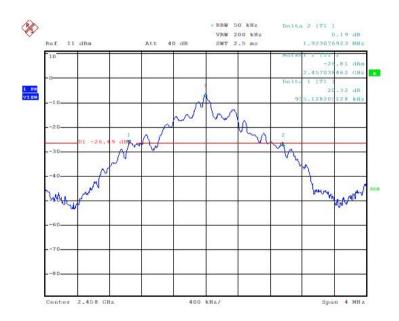
Report No.:CQASZ20231001791E-02

Test plot as follows:
Test channel: Lowest



Date: 17.0CT.2023 14:05:25

#### Test channel: Middle

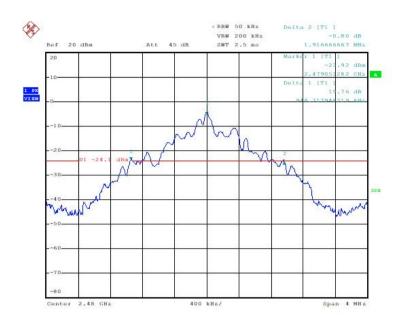


Date: 24.OCT.2023 17:25:50



Report No.:CQASZ20231001791E-02

Test channel: Highest



Date: 17.OCT.2023 14:43:39

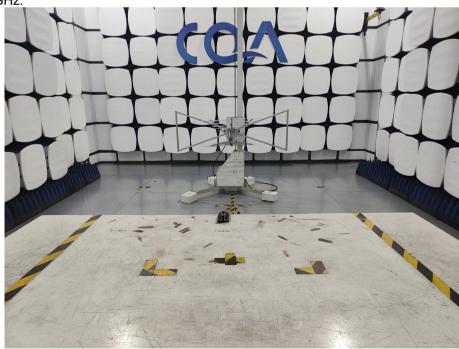
# 6 Photographs

# 6.1 Radiated Emission Test Setup

9kHz~30MHz

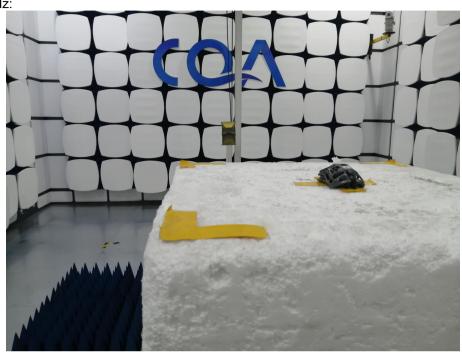


30MHz~1GHz:





Above 1GHz:



# 6.2 Conducted Emission Test Setup





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# **6.3 EUT Constructional Details**

Refer to PHOTOGRAPHS OF EUT for CQASZ20231001791E-01.

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