

TEST REPORT

Application No.: GZCR2511001835AT

Applicant: Guangzhou Andea Electronics Technology Co., Ltd.

Address of Applicant: 11th Floor, Building C2, Lian Dong U-Valley, Yihang Intelligent Technology Park, No.29, Bishan Street, Huang Pu District, Guangzhou, Guangdong, China.

Manufacturer: Guangzhou Andea Electronics Technology Co., Ltd.

Address of Manufacturer: 11th Floor, Building C2, Lian Dong U-Valley, Yihang Intelligent Technology Park, No.29, Bishan Street, Huang Pu District, Guangzhou, Guangdong, China.

Factory: Guangzhou Andea Electronics Technology Co., Ltd.

Address of Factory: 11th Floor, Building C2, Lian Dong U-Valley, Yihang Intelligent Technology Park, No.29, Bishan Street, Huang Pu District, Guangzhou, Guangdong, China.

Product Name: Industrial high frequency RFID read-write device

Model No.: AR2302P, AR23XXY (X=0-9, Y=A-Z) ♣

♣ Please refer to section 2 of this report which indicates which item was actually evaluated and which were electrically identical.

Trade Mark: **ANDEAWELL**

Standard(s) : 47 CFR Part 15, Subpart C 15.225

Date of Receipt: 2025-11-20

Date of Test: 2025-12-01 to 2025-12-16

Date of Issue: 2026-01-26

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Revision Record			
Version	Report No.	Date	Remark
01	GZCR251100183502	2026-01-26	Original

Authorized for issue by:			
		Key Liang	
		Key Liang/Project Engineer	
Approved By		Vico Cui	
		Vico Cui/Reviewer	



2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.225	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
20dB Bandwidth		ANSI C63.10 (2020) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Emission Mask		ANSI C63.10 (2020) Section 6.4	47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)	Pass
Frequency tolerance		ANSI C63.10 (2020) Section 6.8	47 CFR Part 15, Subpart C 15.225(e)	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2020) Section 6.4	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2020) Section 6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Model No.: AR2302P, AR23XXY (X=0-9, Y=A-Z)

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference being the model name.

Only the model **AR2302P** was tested.



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 24V
Test voltage: AC 120V, 60Hz powered by AC/DC adapter provided by applicant
Cable(s): 1.0m unscreened 8pin cable.
0.3m unscreened USB cable.
Operation Frequency: 13.56MHz
Antenna Type: Loop Antenna
Modulation Type: ASK
Antenna Number: 1

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC/DC adapter provided by applicant	MEAN WELL	MODEL NO: GSM36U24 INPUT: 100-240VAC, 50/60Hz, 0.9-0.45A OUTPUT: DC 24V, 1.5A, 36W MAX.	GSM36U24-P1J
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	$\pm 3.22\text{dB}$
20dB Bandwidth	$\pm 0.274\%$
Emission Mask	$\pm 3.19\text{dB}$
Frequency tolerance	$\pm 7.25 \text{ E-}8$
Radiated Emissions (9kHz-30MHz)	$\pm 3.19\text{dB}$
Radiated Emissions (30MHz-1GHz)	$\pm 5.14\text{dB}$ (30MHz-1GHz):3m; $\pm 4.90\text{dB}$ (30MHz-1GHz):10m

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{cisp}} (CISPR \text{ Uncertainty})$ or $U_{\text{ETSI}} (ETSI \text{ Uncertainty})$.

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.

4.5 Test Facility

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

● ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

● SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

● ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

● CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	BL03-NMNM-6.00M	EMC0107	2025-08-12	2026-08-11
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2025-08-14	2028-08-13
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2025-08-13	2026-08-12
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2025-11-18	2026-11-17
Test Software E3r	Audix	Ver.6.191211	GZE100-77	N/A	N/A

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer (10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2025-11-25	2026-11-24
MI CABLE	SGS-EMC	0.8M	EMC2136	2025-11-02	2026-11-01

Emission Mask					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-16	2026-04-15
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2025-11-18	2026-11-17
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2025-03-22	2028-03-21
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2025-11-25	2026-11-24

Frequency tolerance					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Temperature Chamber	GZ GongWen Co.Ltd.	GDJW-100	EMC0039	2025-11-19	2026-11-18
MXA Signal Analyzer (10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2025-11-25	2026-11-24
MI CABLE	SGS-EMC	0.8M	EMC2136	2025-11-02	2026-11-01



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Radiated Emissions (9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-16	2026-04-15
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2025-11-18	2026-11-17
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2025-03-22	2028-03-21
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2025-11-25	2026-11-24

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2025-03-22	2028-03-21
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2025-11-18	2026-11-17
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2025-11-25	2026-11-24
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess-Elektronik	VULB 9168	EMC2238	2025-03-24	2027-03-23
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2025-11-25	2026-11-24
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2025-06-03	2026-06-02



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

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 integrated on the main PCB and no consideration of replacement.

Antenna location: Refer to Internal photos



7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2020) Section 6.2

Test Engineer: Sunny Yang

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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C

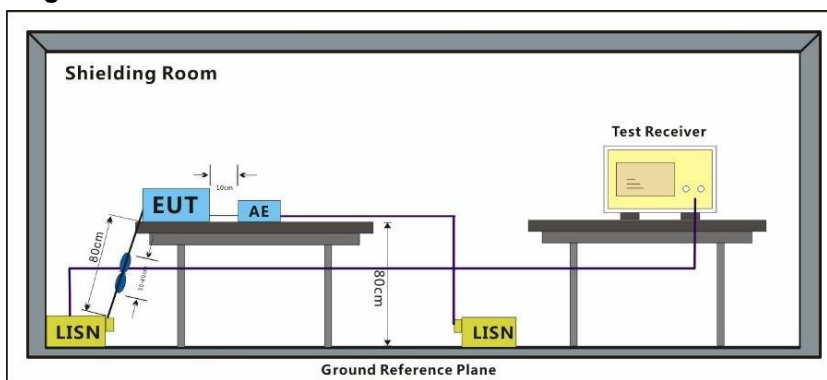
Humidity: 54.2 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode with modulation.

7.1.3 Test Setup Diagram



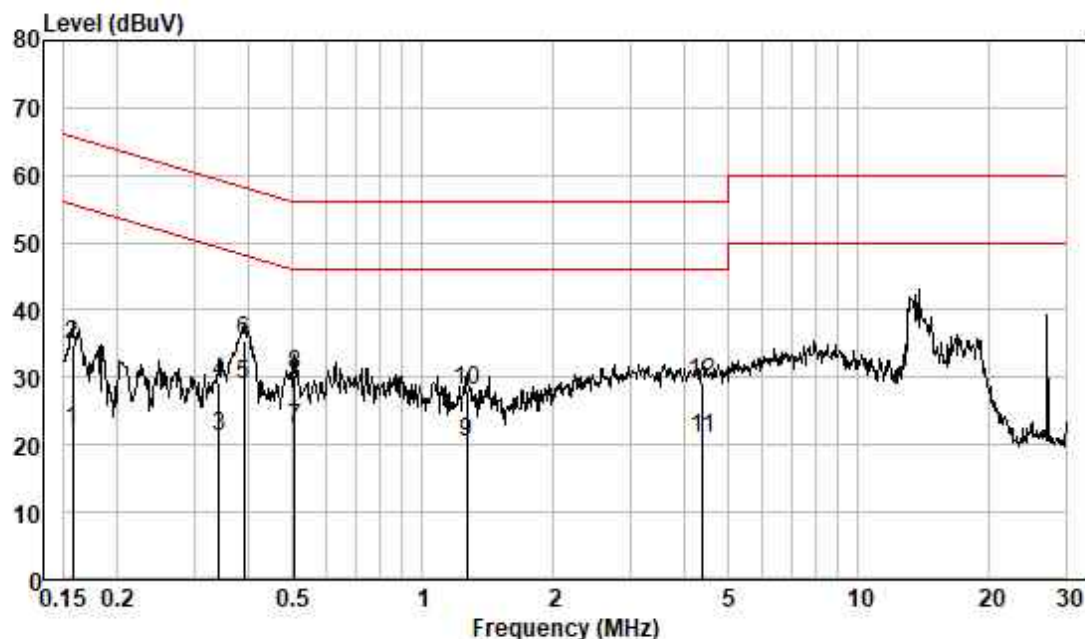
7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm 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.
- 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,
- 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.
- 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 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



Test Mode: 00; Line: Live line

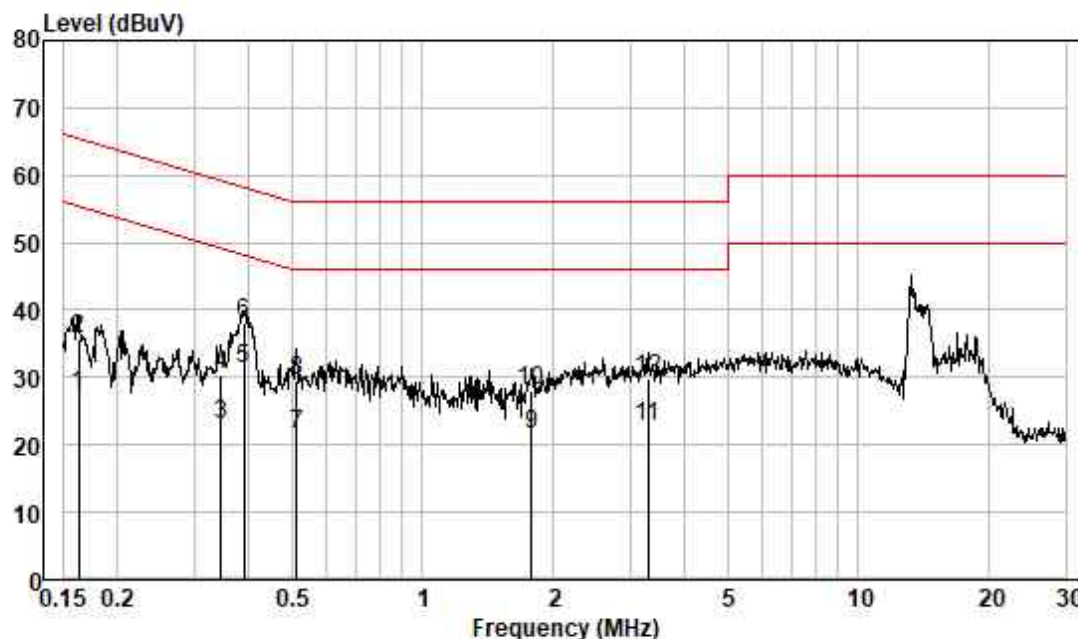


Pol : LINE
Mode :
Model :
Power : 120V

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.157	12.67	0.04	9.56	22.27	55.60	-33.33	Average
2	0.157	25.10	0.04	9.56	34.70	65.60	-30.90	QP
3	0.341	11.52	0.05	9.58	21.15	49.18	-28.03	Average
4	0.341	19.47	0.05	9.58	29.10	59.18	-30.08	QP
5	0.389	19.23	0.05	9.54	28.82	48.08	-19.26	Average
6	0.389	25.75	0.05	9.54	35.34	58.08	-22.74	QP
7	0.510	12.73	0.05	9.58	22.36	46.00	-23.64	Average
8	0.510	20.83	0.05	9.58	30.46	56.00	-25.54	QP
9	1.262	10.66	0.09	9.55	20.30	46.00	-25.70	Average
10	1.262	18.48	0.09	9.55	28.12	56.00	-27.88	QP
11	4.384	11.18	0.19	9.62	20.99	46.00	-25.01	Average
12	4.384	19.53	0.19	9.62	29.34	56.00	-26.66	QP



Test Mode: 00; Line: Neutral Line



Pol : NEUTRAL
Mode :
Model :
Power : 120V

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.162	17.74	0.04	9.53	27.31	55.34	-28.03	Average
2	0.162	26.05	0.04	9.53	35.62	65.34	-29.72	QP
3	0.345	13.51	0.05	9.51	23.07	49.09	-26.02	Average
4	0.345	20.98	0.05	9.51	30.54	59.09	-28.55	QP
5	0.389	21.59	0.05	9.53	31.17	48.08	-16.91	Average
6	0.389	28.53	0.05	9.53	38.11	58.08	-19.97	QP
7	0.516	11.88	0.05	9.58	21.51	46.00	-24.49	Average
8	0.516	19.94	0.05	9.58	29.57	56.00	-26.43	QP
9	1.781	12.03	0.12	9.52	21.67	46.00	-24.33	Average
10	1.781	18.37	0.12	9.52	28.01	56.00	-27.99	QP
11	3.293	12.94	0.16	9.57	22.67	46.00	-23.33	Average
12	3.293	20.17	0.16	9.57	29.90	56.00	-26.10	QP



7.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
 Test Method: ANSI C63.10 (2020) Section 6.9
 Test Engineer: Lily Kuang

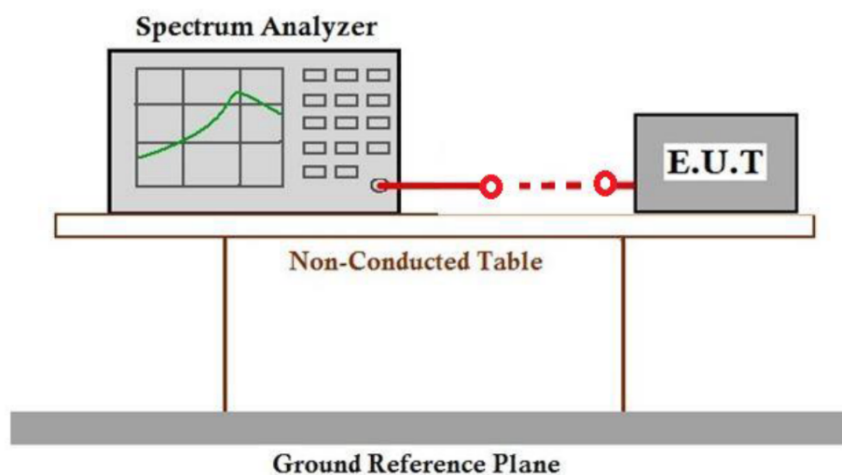
7.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.1 °C Humidity: 50.0 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	00	TX mode with modulation.

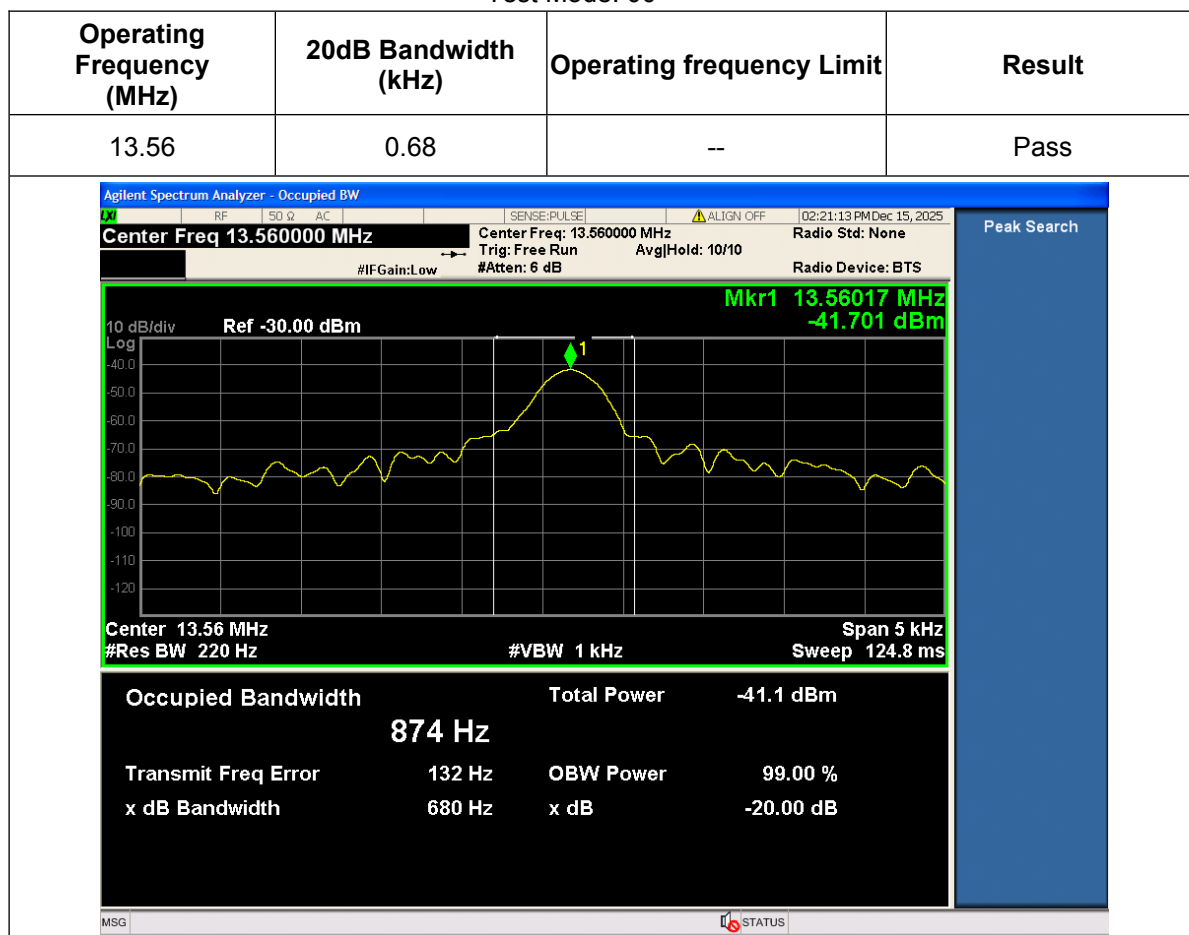
7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

Test Mode: 00



Remark: The setting of RBW was the minimum for the spectrum.

7.3 Emission Mask

Test Requirement 47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)

Test Method: ANSI C63.10 (2020) Section 6.4

Test Engineer: Jarry Li

Limit:

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

Below 30MHz

The test was performed at a 3m test site.

The factor calculated by the following equation:

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

FS_{limit} is the calculation of field strength at the limit distance, expressed in dBμV/m
 FS_{max} is the measured field strength, expressed in dBμV/m
 d_{measure} is the distance of the measurement point from the EUT
 d_{limit} is the reference distance or the distance of the $\lambda/2\pi$ point

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 84dBμV/m at 30 meters.

7.3.1 E.U.T. Operation

Operating Environment:

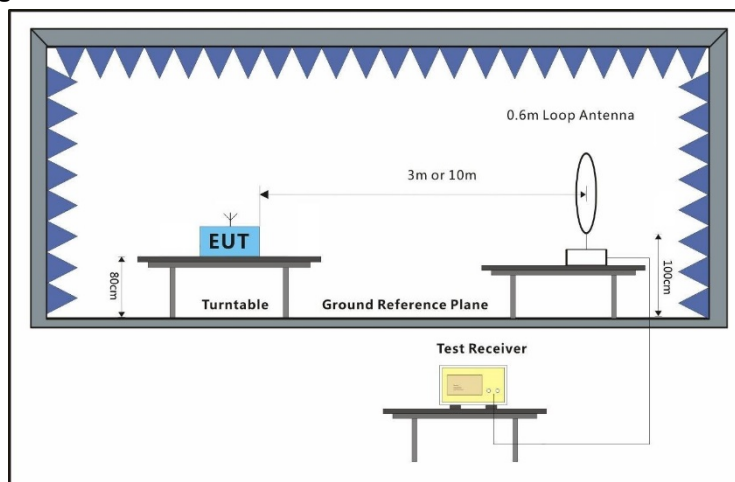
Temperature: 25.2 °C Humidity: 50.9 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode with modulation.



7.3.3 Test Setup Diagram

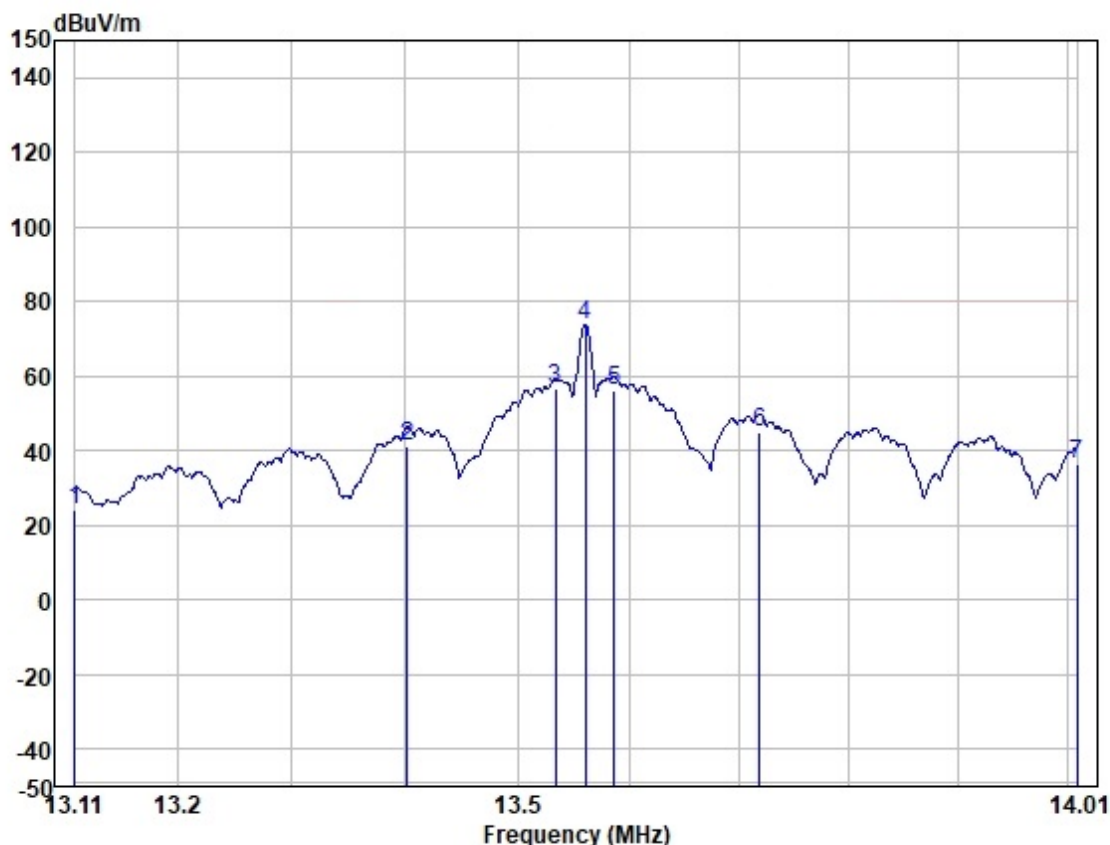


7.3.4 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



Test Mode: 00;



loop :
Test Mode:
Model : Z

Frequency MHz	Read level dBuV/m	Cable Loss dB	Antenna Factor dB/m	Preamp Factor dB	Measured level dBuV/m	Limit Line dBuV/m	Over limit dB
13.110	46.04	0.19	10.61	32.71	24.13		
13.402	63.36	0.19	10.54	32.71	41.38		
13.535	78.47	0.20	10.51	32.72	56.46		
13.561	95.96	0.20	10.51	32.72	73.95		
13.587	78.05	0.20	10.51	32.72	56.04		
13.718	66.91	0.20	10.47	32.72	44.86		
14.010	58.45	0.20	10.43	32.72	36.36		



Test Mode: 00

Frequency (MHz)	Measured Level (dBuV/m) @3m	Extrapolation Correction (dB) @3 m to 30 m	Level (dBuV/m) @30m	Limit (dBuV/m) @30m	Over limit (dB)
13.110	24.13	-40	-15.87	29.54	-45.41
13.410	41.38	-40	1.38	40.51	-39.13
13.550	56.46	-40	16.46	50.47	-34.01
13.560	73.95	-40	33.95	84	-50.05
13.570	56.04	-40	16.04	50.47	-34.43
13.710	44.86	-40	4.86	40.51	-35.65
14.010	36.36	-40	-3.64	29.54	-33.18

Remark: Extrapolation Correction (dB)@3m to 30 m = $40 \cdot \log(3/30) = -40$ according to FCC part 15.31 (f) (1)

Level (dBuV/m) @ 30m = Measured Level (dBuV/m) @3m + Extrapolation Correction (dB)@3 m to 30 m



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7.4 Frequency tolerance

Test Requirement	47 CFR Part 15, Subpart C 15.225(e)
Test Method:	ANSI C63.10 (2020) Section 6.8
Test Engineer:	Lily Kuang
Limit:	Within $\pm 0.01\%$ of the operating frequency

7.4.1 E.U.T. Operation

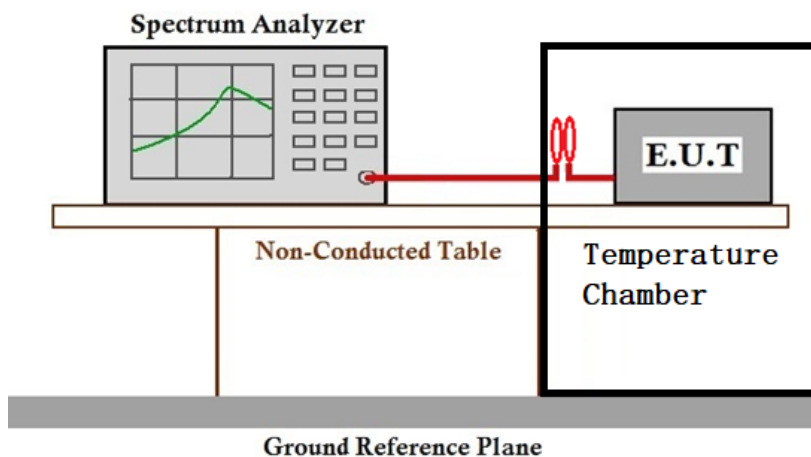
Operating Environment:

Temperature: 22.1 °C Humidity: 50.0 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode with modulation.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

The EUT was placed in an environmental test chamber and powered such that control element received normal voltage and the transmitter provided maximum RF output.

Test Mode: 00

Limit: $\pm 0.01\%$

Start up

Voltage (V AC)	Temperature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
$V_{\text{norm}} : 120$	-20	13.56113	0.0084%	Pass
	-10	13.56111	0.0082%	Pass
	0	13.56111	0.0082%	Pass
	10	13.5613	0.0096%	Pass
	$T_{\text{normal}} : +20$	13.56017	0.0013%	Pass
	30	13.5612	0.0089%	Pass
	40	13.5612	0.0088%	Pass
	50	13.56112	0.0083%	Pass
$V_{\text{max}} : 132$	$T_{\text{normal}} : +20$	13.56132	0.0097%	Pass
$V_{\text{min}} : 108$		13.5613	0.0096%	Pass

2min

Voltage (V AC)	Temperature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
$V_{\text{norm}} : 120$	-20	13.56132	0.0097%	Pass
	-10	13.56115	0.0085%	Pass
	0	13.56132	0.0098%	Pass
	10	13.56104	0.0077%	Pass
	$T_{\text{normal}} : +20$	13.56021	0.0015%	Pass
	30	13.56119	0.0088%	Pass
	40	13.56134	0.0099%	Pass
	50	13.56108	0.0080%	Pass
$V_{\text{max}} : 132$	$T_{\text{normal}} : +20$	13.56116	0.0085%	Pass
$V_{\text{min}} : 108$		13.56132	0.0097%	Pass

5min

Voltage (V AC)	Temperature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
$V_{\text{norm}} : 120$	-20	13.56103	0.0076%	Pass
	-10	13.56128	0.0095%	Pass
	0	13.56121	0.0089%	Pass
	10	13.56126	0.0093%	Pass
	$T_{\text{normal}} : +20$	13.56019	0.0014%	Pass
	30	13.5611	0.0081%	Pass
	40	13.56109	0.0080%	Pass
	50	13.5612	0.0088%	Pass
$V_{\text{max}} : 132$	$T_{\text{normal}} : +20$	13.56101	0.0074%	Pass
$V_{\text{min}} : 108$		13.56119	0.0088%	Pass

10min

Voltage (V AC)	Temperature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
$V_{\text{norm}} : 120$	-20	13.56119	0.0088%	Pass
	-10	13.561	0.0074%	Pass
	0	13.56106	0.0078%	Pass
	10	13.56101	0.0074%	Pass
	$T_{\text{normal}} : +20$	13.56014	0.0010%	Pass
	30	13.56105	0.0078%	Pass
	40	13.5613	0.0096%	Pass
	50	13.56122	0.0090%	Pass
$V_{\text{max}} : 132$	$T_{\text{normal}} : +20$	13.56108	0.0079%	Pass
$V_{\text{min}} : 108$		13.56114	0.0084%	Pass



7.5 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2020) Section 6.4

Test Engineer: Jarry Li

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30

Below 30MHz

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than $\lambda/2\pi$ and the limit distance is greater than $\lambda/2\pi$, the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the $\lambda/2\pi$ distance, and at a 20 dB/decade of distance rate beyond $\lambda/2\pi$. This shall be accomplished using Equation (2):

$$FS_{(3m)} = FS_{(30/300m)} + 40\log\{d_{(near\ field)}/d_{(3m)}\} + 20\log\{d_{(30/300m)}/d_{(near\ field)}\} \quad (2)$$

If the single point measured is at a distance greater than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(3m)} = FS_{(30/300m)} + 20\log\{d_{(30/300m)}/d_{(3m)}\} \quad (3)$$

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(3m)} = FS_{(30/300m)} + 40\log\{d_{(30/300m)}/d_{(3m)}\} \quad (4)$$

Remark:

$$d_{near\ field} = 47.77 / f_{MHz}$$

where f_{MHz} is the frequency of the emission being measured in MHz.

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:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

$$FS_{limit} = FS_{max} - 40\log\left(\frac{d_{limit}}{d_{measure}}\right)$$

where

FS_{limit} is the calculation of field strength at the limit distance, expressed in dBuV/m
 FS_{max} is the measured field strength, expressed in dBuV/m
 $d_{measure}$ is the distance of the measurement point from the EUT
 d_{limit} is the reference distance or the distance of the $\lambda/2\pi$ point



7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C

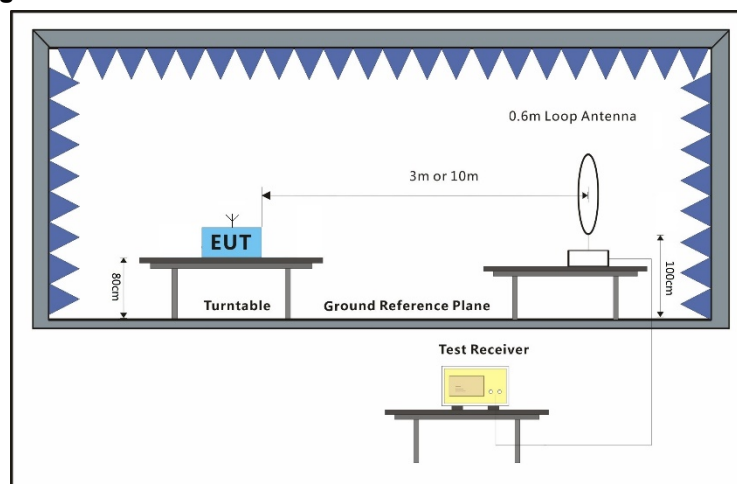
Humidity: 51.0 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	00	TX mode with modulation.

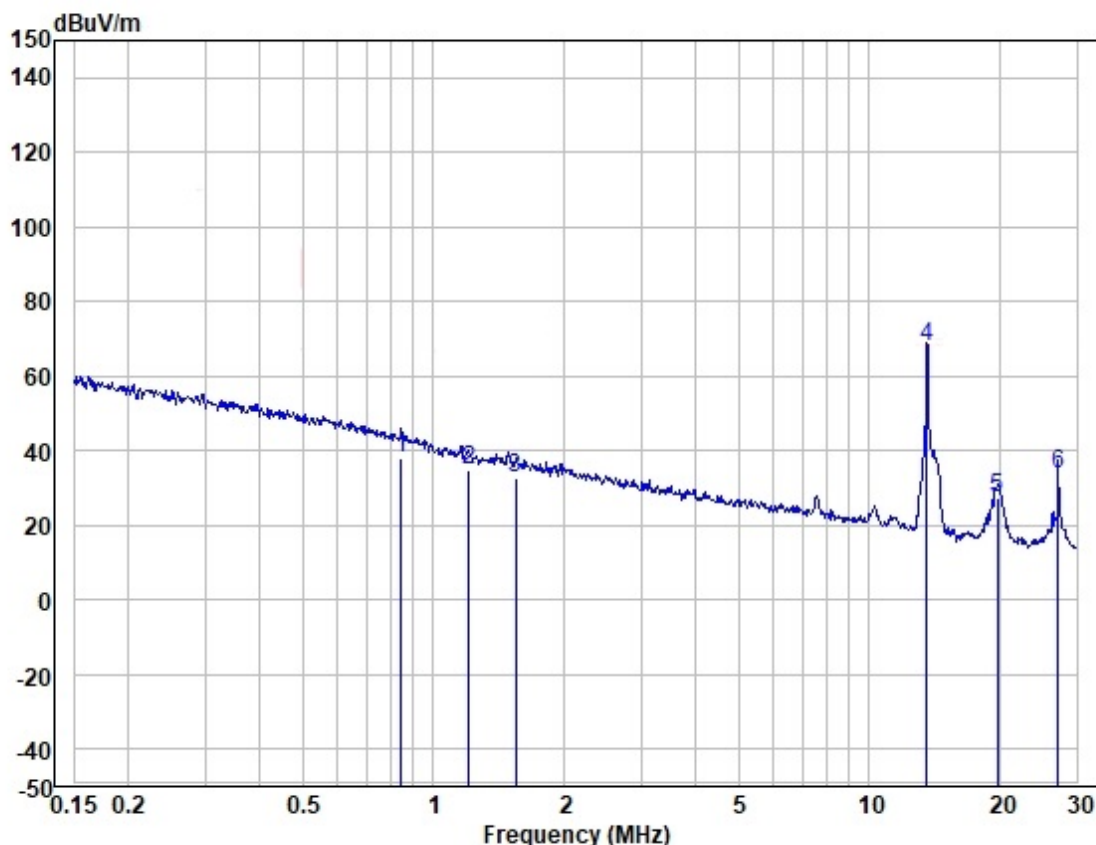
7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

Test Mode: 00

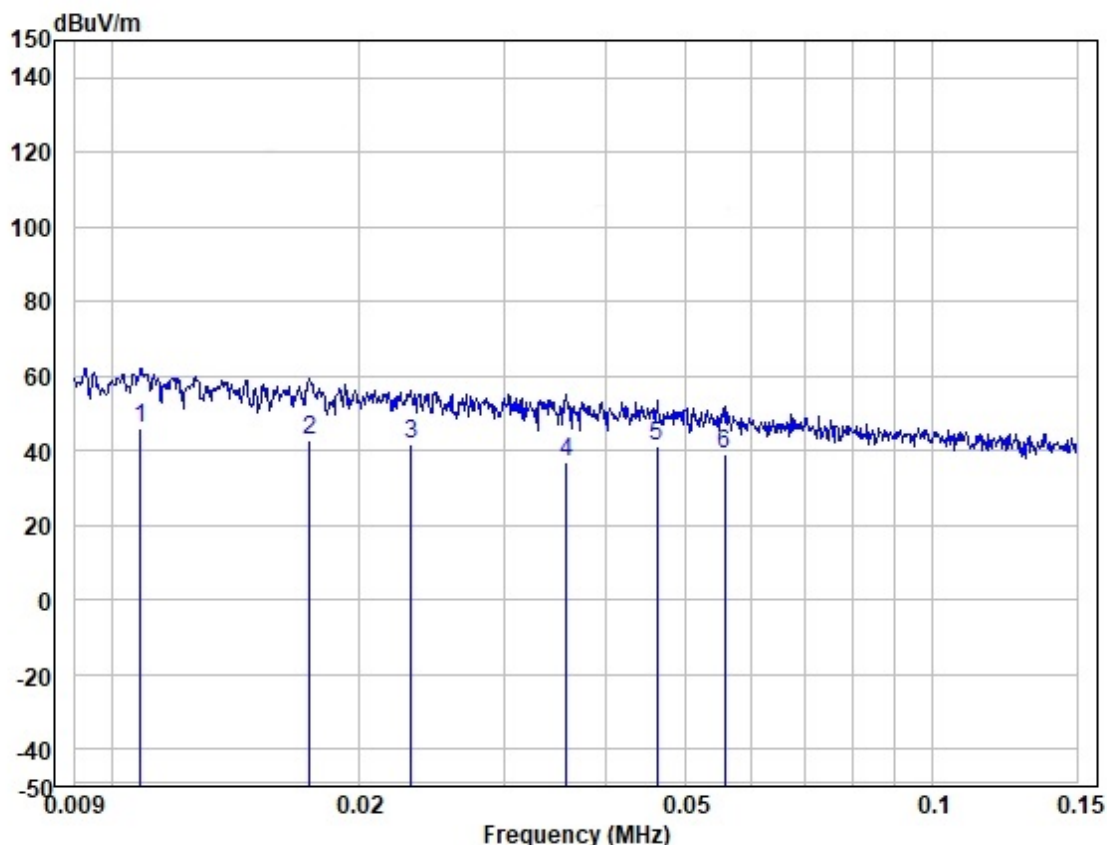


loop :
Test Mode:
Model : Z

Frequency MHz	Read level dBuV/m	Cable Loss dB	Antenna Factor dB/m	Preamp Factor dB	Measured level dBuV/m	Limit Line dBuV/m	Over limit dB
0.844	57.04	0.05	13.66	32.70	38.05		
1.203	54.10	0.05	13.43	32.70	34.88		
1.544	51.76	0.06	13.80	32.70	32.92		
13.551	89.98	0.20	10.51	32.72	67.97		
19.635	50.20	0.24	9.44	32.72	27.16		
27.127	59.70	0.28	6.23	32.74	33.47		



Test Mode: 00



loop :
Test Mode:
Model : Z

Frequency MHz	Read level dBuV/m	Cable Loss dB	Antenna Factor dB/m	Preamp Factor dB	Measured level dBuV/m	Limit Line dBuV/m	Over limit dB
0.011	57.67	0.01	21.19	32.72	46.15		
0.017	57.80	0.01	17.44	32.72	42.53		
0.023	58.06	0.01	16.61	32.72	41.96		
0.036	54.25	0.01	15.35	32.72	36.89		
0.046	59.15	0.01	15.01	32.72	41.45		
0.056	56.85	0.01	14.86	32.72	39.00		



Frequency (MHz)	Level @3m (dBuV/m)	Limit @300m (dBuV/m)	Convert Factor (dB)@3 m to 300 m	Level @ 300m (dBuV/m)	Over limit (dB)	Remark
0.011	46.15	46.78	-80	-33.85	-80.63	AV
0.017	42.53	43.00	-80	-37.47	-80.47	AV
0.023	41.96	40.37	-80	-38.04	-78.41	AV
0.036	36.89	36.48	-80	-43.11	-79.59	AV
0.046	41.45	34.35	-80	-38.55	-72.90	AV
0.056	39.00	32.64	-80	-41.00	-73.64	AV
Frequency (MHz)	Level @3m (dBuV/m)	Limit @30m (dBuV/m)	Convert Factor (dB)@3 m to 30 m	Level @ 30m (dBuV/m)	Over limit (dB)	Remark
0.844	38.05	29.08	-40	-1.95	-31.03	QP
1.203	34.88	26.00	-40	-5.12	-31.12	QP
1.544	32.92	23.83	-40	-7.08	-30.91	QP
19.635	27.16	29.54	-40	-12.84	-42.38	QP
27.127	33.47	29.54	-40	-6.53	-36.07	QP

Remark1:

Extrapolation Correction (dB)@3m to 300 m = $40 \cdot \log(3/300) = -80$ according to FCC part 15.31 (f) (1)

Extrapolation Correction (dB)@3m to 30 m = $40 \cdot \log(3/30) = -40$ according to FCC part 15.31 (f) (1)

Level (dBuV/m) @ 300m = Measured Level (dBuV/m) @3m + Extrapolation Correction (dB)@3 m to 300 m

Level (dBuV/m) @ 30m = Measured Level (dBuV/m) @3m + Extrapolation Correction (dB)@3 m to 30 m

Remark2:

Point 4 in the first plot was the fundamental of the EUT, please refer to section 7.3 for details.



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7.6 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2020) Section 6.5

Test Engineer: Jarry Li

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C

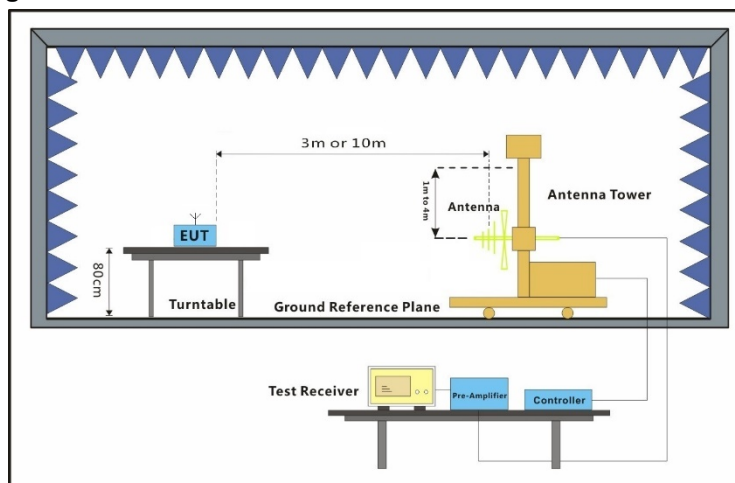
Humidity: 51.1 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode with modulation.

7.6.3 Test Setup Diagram

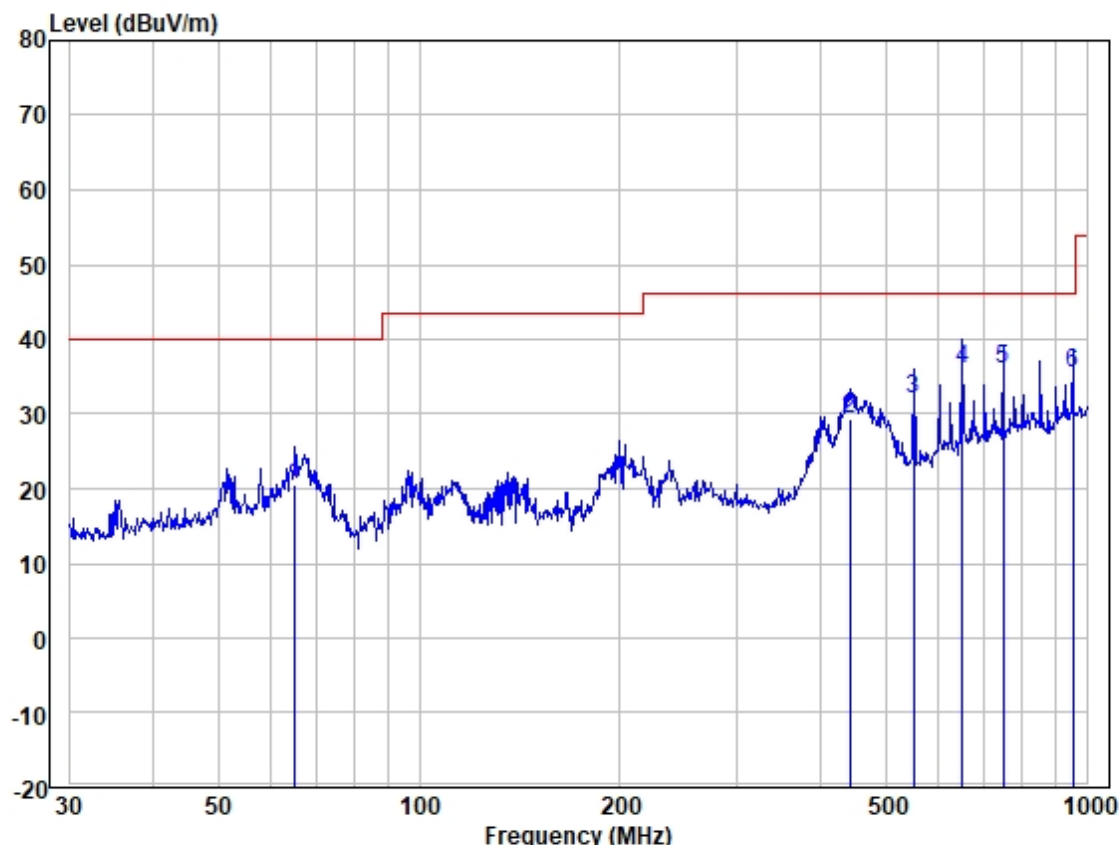


7.6.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 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 was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Test Mode: 00; Polarity: Horizontal

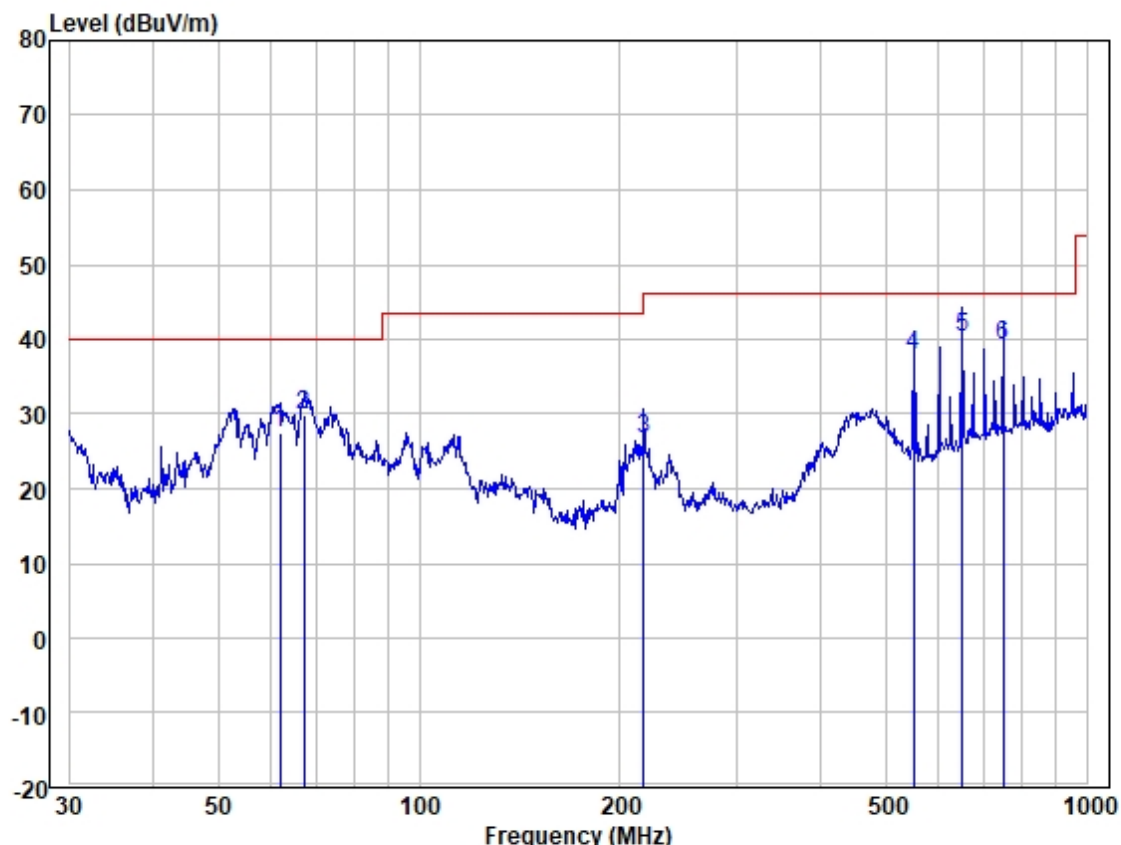


Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	65.114	34.68	18.20	0.44	32.77	20.55	40.00	-19.45	HORIZONTAL	QP
2	441.743	38.43	22.54	1.20	32.93	29.24	46.02	-16.78	HORIZONTAL	QP
3	550.948	39.34	24.22	1.36	32.85	32.07	46.02	-13.95	HORIZONTAL	QP
4	651.942	40.52	26.26	1.49	32.23	36.04	46.02	-9.98	HORIZONTAL	QP
5	750.108	38.21	27.77	1.60	31.70	35.88	46.02	-10.14	HORIZONTAL	QP
6	952.094	34.49	29.98	1.80	30.76	35.51	46.02	-10.51	HORIZONTAL	QP



Test Mode: 00; Polarity: Vertical



Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	61.995	41.00	18.70	0.42	32.77	27.35	40.00	-12.65	VERTICAL	QP
2	67.202	44.30	17.78	0.45	32.77	29.76	40.00	-10.24	VERTICAL	QP
3	216.783	43.08	15.51	0.81	32.82	26.58	46.02	-19.44	VERTICAL	QP
4	550.948	45.23	24.22	1.36	32.85	37.96	46.02	-8.06	VERTICAL	QP
5	651.942	44.64	26.26	1.49	32.23	40.16	46.02	-5.86	VERTICAL	QP
6	750.108	41.65	27.77	1.60	31.70	39.32	46.02	-6.70	VERTICAL	QP



8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR251100183502



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9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2511001835AT

- End of the Report -

