

Report No.: GZCR241000117106 EMC-TRF-01 Rev 1.1

> 1 of 34 Page: FCC ID: 2BLPP-KDV1

TEST REPORT

GZCR2410001171ME **Application No.:** Applicant: 14190777 Canada Inc.

Address of Applicant: 1273 North Service Road Oakville ON L6H 1A7 Canada

Manufacturer: 14190777 Canada Inc.

Address of Manufacturer: 1273 North Service Road Oakville ON L6H 1A7 Canada

Jetta Company Limited Factory:

Address of Factory: 333 Cai Xin Road, Lan He Zehn, Nan Sha Qu, Guangzhou City, China

Product Name: Karie Duo AA-DUO-1.0 Model No.: **Trade Mark:** Karie Duo

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

Date of Receipt: 2024-10-09

2024-10-15 to 2024-11-25 **Date of Test:**

Date of Issue: 2025-01-10

Pass* **Test Result:**

Jday Liu Ricky Liu

Manager

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



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Revision Record				
Report No.	Date	Remark		
GZCR241000117106	2025-01-10	Original		
	Report No.	Report No. Date		

Authorized for issue by:			
	Jim Li		
	Jim Li/Project Engineer		
	vius cui		
	Vico Cui/Reviewer	- $[$	



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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 Matt	er Part			
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Emission Mask	47 CFR Part 15,	ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)	Pass
Frequency tolerance	Subpart C 15.225	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.225(e)	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.4&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.



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General Information

4.1 Details of E.U.T.

Power supply: DC 14.6 V powered by built-in battery as below for normal working:

Model: 18650-4S2P

Rated: DC 14.6 V, 5000mAh, 73.0Wh

DC 19 V powered by AC/DC adapter as below for charging:

Model: AD1003-1905200D

Input: AC 100-240 V, 50-60 Hz, 1.5 A Max

Output: DC 19.0 V, 5.2 A, 98.8W

Cable(s): For main unit:

> DC input ports; For AC/DC adapter:

AC mains

DC output cables (unshielded, 1.5m)

Operation Frequency: 13.56MHz

Modulation Type: **ASK**

Antenna Type: Loop Antenna

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

The EUT has been tested as an independent unit.



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4.3 Measurement Uncertainty

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

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty) or U_{ETSI}(ETSI 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.

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.



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4.5 Test Facility

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

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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Equipment List 5

Conducted Emissions at Mains Terminals (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Coaxial Cable	HangTianXing	2m	EMC0107	2023-08-24	2025-08-23	
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15	
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2024-09-02	2025-09-01	
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2024-12-04	2025-12-03	
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	2024-12-03	2025-12-02
MI CABLE	SGS-EMC	M8.0	EMC2136	2023-11-02	2025-11-01

Emission Mask					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Active Loop Antenna- RED	ETS-Lindgren	6502	EMC2190	2024-04-08	2026-04-07
EMI Test Receiver (1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-12-03	2025-12-02
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC9 66	EMC2230	2022-04-12	2025-04-11
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125- 8000	EMC2239	2024-12-04	2026-12-03

Frequency tolerance						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Temperature Chamber	GZ GongWen Co.Ltd.	GDJW-100	EMC0039	2024-12-03	2025-12-02	
MXA Signal Analyzer (10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2024-12-03	2025-12-02	
MI CABLE	SGS-EMC	M8.0	EMC2136	2023-11-02	2025-11-01	



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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	2024-04-08	2026-04-07
EMI Test Receiver (1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-12-03	2025-12-02
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC9 66	EMC2230	2022-04-12	2025-04-11
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125- 8000	EMC2239	2024-12-04	2026-12-03

Radiated Emissions (30MHz-1GHz)										
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC9 66	EMC2230	2022-04-12	2025-04-11					
EMI Test Receiver(1Hz- 8GHz)	· I RODOE & SCOWALL		EMC2229	2024-12-03	2025-12-02					
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-12-03	2025-12-02					
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess- Elektronik	VULB 9168	EMC2238	2022-04-20	2025-04-19					
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125- 8000	EMC2239	2024-12-04	2026-12-03					
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A					

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2024-06-13	2025-06-12



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Radio Spectrum Technical Requirement 6

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



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Radio Spectrum Matter Test Results 7

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

47 CFR Part 15, Subpart C 15.207 Test Requirement ANSI C63.10 (2013) Section 6.2 Test Method:

Limit:

Frequency range (MHz)	Limi	t (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: 23.8 °C Humidity: 55.1 % RH Atmospheric Pressure: 1013 mbar

7.1.2 Test Mode Description

Mode Pre-scan /

Description Final test Code

Final test 18 TX mode with modulation



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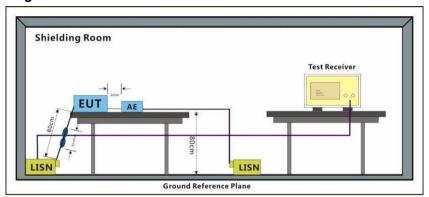
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7.1.3 Test Setup Diagram



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



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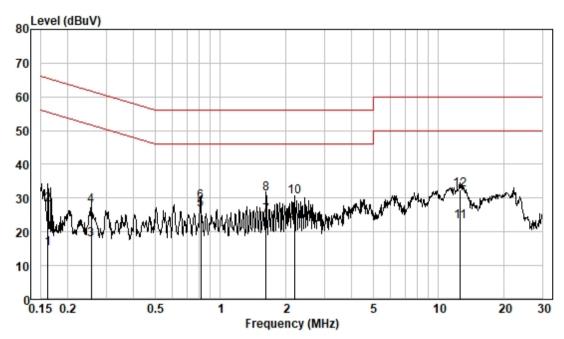


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Test Mode: 18; Line: Live line



Pol :LINE Mode Model: Power:

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.162	5.42	0.04	9.55	15.01	55.38	-40.37	Average
2	0.162	18.52	0.04	9.55	28.11	65.38	-37.27	QP
3	0.256	8.03	0.04	9.56	17.63	51.56	-33.93	Average
4	0.256	18.06	0.04	9.56	27.66	61.56	-33.90	QP
5	0.813	17.07	0.06	9.57	26.70	46.00	-19.30	Average
6	0.813	19.32	0.06	9.57	28.95	56.00	-27.05	QP
7	1.619	15.22	0.11	9.56	24.89	46.00	-21.11	Average
8	1.619	21.59	0.11	9.56	31.26	56.00	-24.74	QP
9	2.178	13.20	0.13	9.57	22.90	46.00	-23.10	Average
10	2.178	20.73	0.13	9.57	30.43	56.00	-25.57	QP
11	12.582	12.93	0.29	9.82	23.04	50.00	-26.96	Average
12	12.582	22.26	0.29	9.82	32.37	60.00	-27.63	OP



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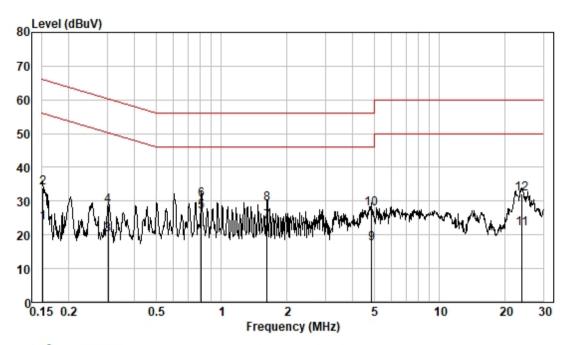


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Test Mode: 18; Line: Neutral Line



Pol :NEUTRAL

Mode Model: Power:

		Read	Cable	LISN	Measured	Limit	Over	
	Frequenc	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.152	13.96	0.04	9.52	23.52	55.91	-32.39	Average
2	0.152	24.35	0.04	9.52	33.91	65.91	-32.00	QP
3	0.302	10.61	0.04	9.53	20.18	50.19	-30.01	Average
4	0.302	19.07	0.04	9.53	28.64	60.19	-31.55	QP
5	0.809	17.34	0.06	9.55	26.95	46.00	-19.05	Average
6	0.809	20.72	0.06	9.55	30.33	56.00	-25.67	QP
7	1.619	14.21	0.11	9.55	23.87	46.00	-22.13	Average
8	1.619	19.57	0.11	9.55	29.23	56.00	-26.77	QP
9	4.874	7.72	0.19	9.63	17.54	46.00	-28.46	Average
10	4.874	17.94	0.19	9.63	27.76	56.00	-28.24	QP
11	23.888	11.52	0.42	9.96	21.90	50.00	-28.10	Average
12	23.888	21.89	0.42	9.96	32.27	60.00	-27.73	QP



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7.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C Humidity: 57.9 % RH Atmospheric Pressure: 1013 mbar

7.2.2 Test Mode Description

Pre-scan / Mode

Description

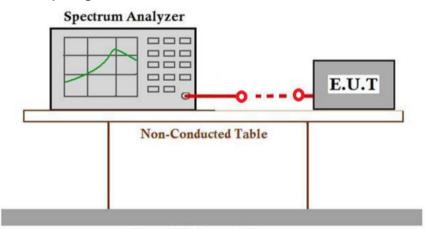
Final test Code

18

TX mode with modulation

7.2.3 Test Setup Diagram

Final test



Ground Reference Plane

7.2.4 Measurement Procedure and Data

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

Operating Frequency	20dB Bandwidth	Operating frequency	Result
(MHz)	(kHz)	Limit	
13.56 27.13			Pass



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Test Mode: Screen





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7.3 Emission Mask

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

Test Method: ANSI C63.10 (2013) Section 6.4

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 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 84dBuV/m at 30 meters.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 52.1 % RH Atmospheric Pressure: 1013 mbar

7.3.2 Test Mode Description

Pre-scan / Mode Final test Code Description

Final test 18 TX mode with modulation



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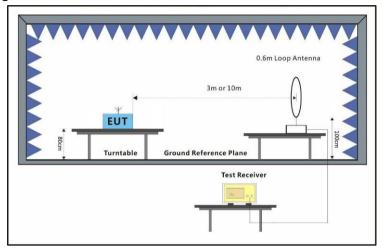
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7.3.3 Test Setup Diagram



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.



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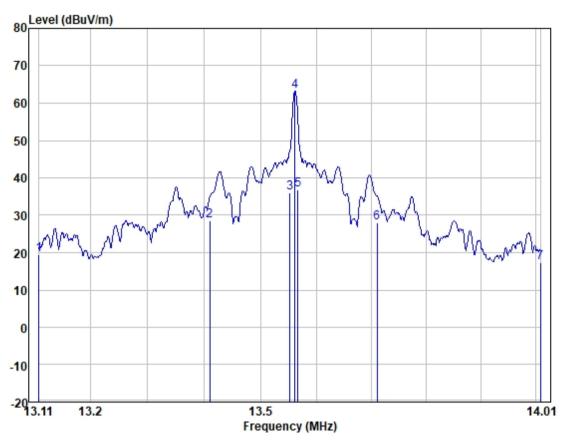


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Test Mode: 18; Axial:X



loop : X Test Mode: Model :

Frequency MHz	Read / level dBuV/m	Cable Loss dB	Antenna Factor dBS/m	Preamp Factor db	Measured level dBuV/m	Limit Line dBuV/m	Over limit dB	Remark
13.110	41.50	0.19	10.61	32.80	19.50			QP
13.410	50.74	0.19	10.54	32.80	28.67			QP
13.553	58.09	0.20	10.51	32.81	35.99			QP
13.562	85.29	0.20	10.51	32.81	63.19			QP
13.567	58.97	0.20	10.51	32.81	36.87			QP
13.710	50.04	0.20	10.49	32.81	27.92			QP
14.010	39.40	0.20	10.43	32.81	17.22			QP



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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	19.50	-40	-20.5	29.54	-50.04
13.410	28.67	-40	-11.33	40.51	-51.84
13.550	35.99	-40	-4.01	50.47	-54.48
13.560	63.19	-40	23.19	84	-60.81
13.570	36.87	-40	-3.13	50.47	-53.6
13.710	27.92	-40	-12.08	40.51	-52.59
14.010	17.22	-40	-22.78	29.54	-52.32

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

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 (2013) Section 6.8

Limit: Within ±0.01% of the operating frequency

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C Humidity: 57.9 % RH Atmospheric Pressure: 1013 mbar

7.4.2 Test Mode Description

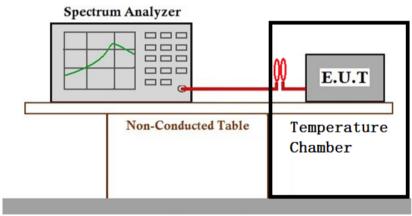
Pre-scan / Mode

Final test Code

Description

Final test 18 TX mode with modulation

7.4.3 Test Setup Diagram



Ground Reference Plane

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.



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Limit: ±0.01%

Start up

Otait up				
Voltage (V AC)	Temper ature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
	-20	13.561007	0.0074%	Pass
	-10	13.561125	0.0083%	Pass
	0	13.561239	0.0091%	Pass
V _{norm} : 120	10	13.561055	0.0078%	Pass
	T _{normal} : +20	13.560448	0.0033%	Pass
	30	13.561093	0.0081%	Pass
	40	13.561178	0.0087%	Pass
	50	13.561022	0.0075%	Pass
V _{max} : 138	T _{normal} : +20	13.561053	0.0078%	Pass
V _{min} : 102		13.561106	0.0082%	Pass

2min

Voltage (V AC)	Tempe rature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
	-20	13.561212	0.0089%	Pass
	-10	13.561103	0.0081%	Pass
	0	13.56106	0.0078%	Pass
	10	13.561106	0.0082%	Pass
V _{norm} : 120	T _{normal} : +20	13.560448	0.0033%	Pass
	30	13.561351	0.0100%	Pass
	40	13.561131	0.0083%	Pass
	50	13.561151	0.0085%	Pass
V _{max} : 138	T _{normal} :	13.561141	0.0084%	Pass
V _{min} : 102	+20	13.561109	0.0082%	Pass

5min

Voltage (V AC)	Temper ature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
	-20	13.561163	0.0086%	Pass
	-10	13.561133	0.0084%	Pass
	0	13.561051	0.0078%	Pass
	10	13.561057	0.0078%	Pass
V _{norm} : 120	T _{normal} : +20	13.560448	0.0033%	Pass
	30	13.561027	0.0076%	Pass
	40	13.561095	0.0081%	Pass
	50	13.561314	0.0097%	Pass
V _{max} : 138	I _{normal} : +20	13.561011	0.0075%	Pass
V _{min} : 102		13.561065	0.0079%	Pass

10min

Voltage (V AC)	Tempe rature (°C)	Frequency Measured (MHz)	Test data (%)	Verdict
	-20	13.561023	0.0075%	Pass
	-10	13.561295	0.0096%	Pass
	0	13.561095	0.0081%	Pass
	10	13.56104	0.0077%	Pass
V _{norm} : 120	T _{normal} : +20	13.560448	0.0033%	Pass
	30	13.561132	0.0083%	Pass
	40	13.561294	0.0095%	Pass
	50	13.561118	0.0082%	Pass
V _{max} : 138	T _{normal} : +20	13.561082	0.0080%	Pass
V _{min} : 102		13.561309	0.0097%	Pass



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7.5 Radiated Emissions (9kHz-30MHz)

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

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Test Distance: 3m

Limit:

Frequency(MHz)	Field strength	Limit	Detector	Measurement Distance
	(microvolts/meter)	(dBuV/m)	Detector	(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):

$$FS_{(10m)} = FS_{(30/300m)} + 40log\{d_{(near field)}/d_{(10m)}\} + 20log\{d_{(30/300m)}/d_{(near field)}\}$$
(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):

$$FS_{(10m)} = FS_{(30/300m)} + 20log\{d_{(30/300m)}/d_{(10m)}\}$$
(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):

$$FS_{(10m)} = FS_{(30/300m)} + 40log\{d_{(30/300m)}/d_{(10m)}\}$$
(4)

Remark:

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

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



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

where

is the calculation of field strength at the limit distance, expressed in dBµV/m FS_{limit}

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

7.5.1 E.U.T. Operation

Operating Environment:

23.9 °C Temperature: Humidity: 52.1 % RH Atmospheric Pressure: 1013 mbar

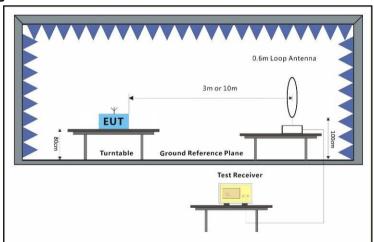
7.5.2 Test Mode Description

Mode Pre-scan /

Final test Code Description

Final test 18 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.



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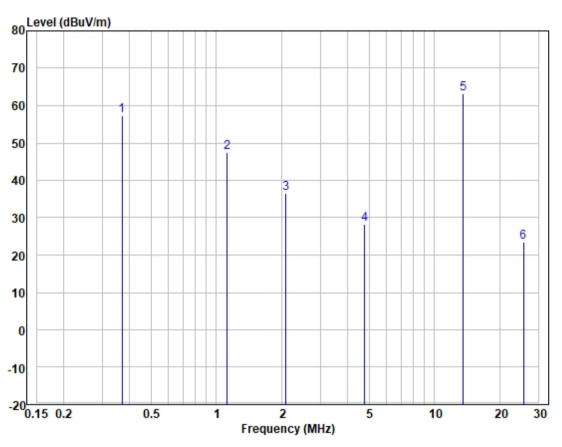


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Test Mode: 18; Axial:X



loop Test Mode: Model

•	Read y level dBuV/m		Antenna Factor dBS/m	Factor	Measured level dBuV/m	Line	Over limit dB	Remark
0.369 1.117 2.088 4.772 13.561 25.591	75.68 66.85 55.23 48.33 85.42 49.18	0.01 0.05 0.06 0.10 0.20 0.28	14.57 13.37 13.97 12.64 10.51 6.97	32.84 32.83 32.83 32.82 32.82 32.81	57.42 47.44 36.43 28.25 63.32 23.60			



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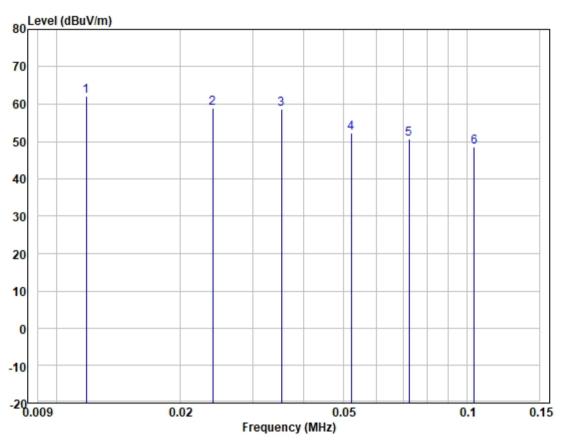


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Test Mode: 18; Axial:X



loop Test Mode: Model

Frequenc MHz	Read y level dBuV/m	Cable Loss dB	Antenna Factor dBS/m	Preamp Factor db	Measured level dBuV/m	Limit Line dBuV/m	Over limit dB	Remark
0.012	74.34	0.01	20.69	32.84	62.20			
0.024	75.33	0.01	16.46	32.84	58.96			
0.035	76.01	0.01	15.37	32.84	58.55			
0.052	70.23	0.01	14.92	32.84	52.32			
0.072	68.77	0.01	14.82	32.84	50.76			
0.104	66.70	0.01	14.75	32.84	48.62			



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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
0.012	62.20	46.02	-80	-17.80	-63.82	AV
0.024	58.96	40.00	-80	-21.04	-61.04	AV
0.035	58.55	36.72	-80	-21.45	-58.17	AV
0.052	52.32	33.28	-80	-27.68	-60.96	AV
0.072	50.76	30.46	-80	-29.24	-59.70	AV
0.104	48.62	27.26	-80	-31.38	-58.64	QP
0.369	57.42	16.26	-80	-22.58	-38.84	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
1.117	47.44	26.64	-40	7.44	-19.20	QP
2.088	36.43	29.54	-40	-3.57	-33.11	QP
4.772	28.25	29.54	-40	-11.75	-41.29	QP
13.561	63.32	29.54	-40	23.32	-6.22	QP
25.591	23.60	29.54	-40	-16.40	-45.94	QP

Remark:

Extrapolation Correction (dB)@3m to 300 m = 40*log(3/300)=-80 according to FCC part 15.31 (f) (1) Extrapolation Correction (dB)@3m to 30 m = 40*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



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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 (2013) Section 6.4&6.5

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 guasi-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: 22.6 °C Humidity: 53.1 % RH Atmospheric Pressure: 1013 mbar

7.6.2 Test Mode Description

Mode Pre-scan /

Description Final test Code

Final test TX mode with modulation



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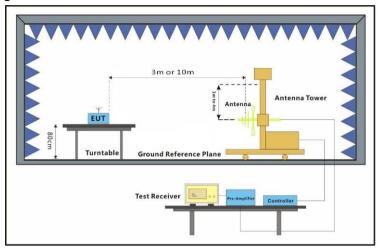
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7.6.3 Test Setup Diagram



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



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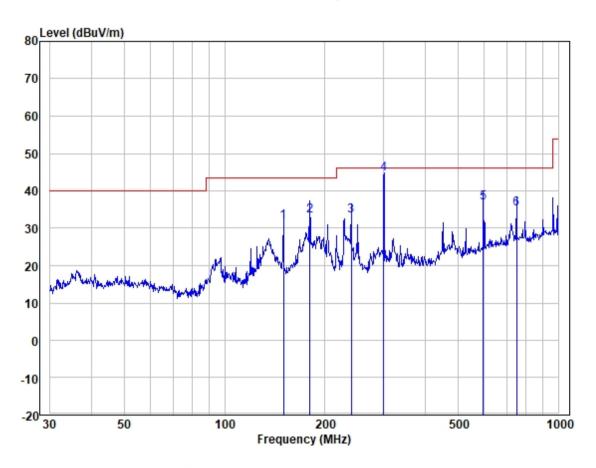


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Test Mode: 18; Polarity: Horizontal



Site : 966 Chamber

Job Model : Power : Test Mode

	Freq					Measured Level				Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	150.011	44.94	19.04	0.67	32.82	31.83	43.52	-11.69	HORIZONTAL	QP
2	180.017	47.76	17.64	0.75	32.84	33.31	43.52	-10.21	HORIZONTAL	QP
3	239.987	47.93	17.27	0.85	32.85	33.20	46.02	-12.82	HORIZONTAL	QP
4	299.999	57.30	19.24	0.98	32.88	44.64	46.02	-1.38	HORIZONTAL	QP
5	595.133	42.95	25.42	1.43	32.90	36.90	46.02	-9.12	HORIZONTAL	QP
6	750.108	37.81	28.23	1.60	32.47	35.17	46.02	-10.85	HORIZONTAL	QP



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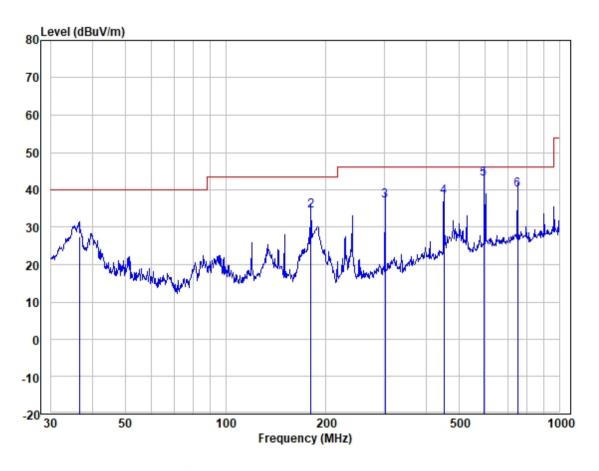


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Test Mode: 18; Polarity: Vertical



Site : 966 Chamber

Job Model : Power : Test Mode

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	36.509	41.28	18.59	0.34	32.86	27.35	40.00	-12.65	VERTICAL	QP
2	180.017	48.73	17.64	0.75	32.84	34.28	43.52	-9.24	VERTICAL	QP
3	300.367	49.78	19.26	0.98	32.88	37.14	46.02	-8.88	VERTICAL	QP
4	451.135	47.08	22.75	1.23	32.98	38.08	46.02	-7.94	VERTICAL	QP
5	593.994	48.98	25.39	1.43	32.90	42.90	46.02	-3.12	VERTICAL	QP
6	750.108	42.58	28.23	1.60	32.47	39.94	46.02	-6.08	VERTICAL	QP



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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for GZCR241000117106



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EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for GZCR2410001171ME

- End of the Report -



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