TEST REPORT

Application No.:	GZCR2108020801AT
Applicant:	Very Great, Inc DBA Courant
Address of Applicant:	52 Mercer Street 3rd Floor, New York, 10013 United States
Manufacturer:	Very Great Inc., DBA Courant
Address of Manufacturer:	52 Mercer Street 3rd Floor, New York 10013, United States
Equipment Under Test (EUT):	
EUT Name:	CATCH:3 ESSENTIALS
Model No.:	CR-C3-ES-BK, CR-C3-ES-NT, CR-C3-ES-CM ♣
♣	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	**COURANT**
Standard(s) :	47 CFR Part 15, Subpart C
Date of Receipt:	2021-08-02
Date of Test:	2021-08-03 to 2021-08-12
Date of Issue:	2021-08-30
Test Result:	**Pass***

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

Kobe Jian
EMC Laboratory Manager

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		*2021-08-30*		*Original*

Authorized for issue by:				
		Curry Wu/Project Engineer		
		Ricky Liu/Reviewer		

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2 Test Summary

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

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
20dB Bandwidth	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart C 15.215	Pass
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Restricted band		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	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.

Declaration of EUT Family Grouping:

Model No.: CR-C3-ES-BK, CR-C3-ES-NT, CR-C3-ES-CM

Only the model CR-C3-ES-BK was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model No. and the appearance color.

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3 Contents

Page

1 Cover Page 1

2 Test Summary 3

3 Contents 4

4 General Information 6

4.1 Details of E.U.T. 6
4.2 Description of Support Units 6
4.3 Measurement Uncertainty 6
4.4 Test Location 7
4.5 Test Facility 7
4.6 Deviation from Standards 8
4.7 Abnormalities from Standard Conditions 8

5 Equipment List 9

6 Radio Spectrum Technical Requirement 11

6.1 Antenna Requirement 11
6.1.1 Test Requirement: 11
6.1.2 Conclusion 11

7 Radio Spectrum Matter Test Results 12

7.1 20dB Bandwidth 12
7.1.1 E.U.T. Operation 12
7.1.2 Test Mode Description 12
7.1.3 Test Setup Diagram 12
7.1.4 Measurement Procedure and Data 12
7.2 Conducted Emissions at AC Mains Power Port (150kHz-30MHz) 14
7.2.1 E.U.T. Operation 14
7.2.2 Test Mode Description 14
7.2.3 Test Setup Diagram 15
7.2.4 Measurement Procedure and Data 15
7.3 Radiated Emissions (30MHz-1GHz) 18
7.3.1 E.U.T. Operation 18
7.3.2 Test Mode Description 18
7.3.3 Test Setup Diagram 19
7.3.4 Measurement Procedure and Data 19
7.4 Radiated Emissions (9kHz-30MHz) 23
7.4.1 E.U.T. Operation 23
7.4.2 Test Mode Description 24
7.4.3 Test Setup Diagram 24
7.4.4 Measurement Procedure and Data 24
7.5 Restricted band 27
7.5.1 E.U.T. Operation 27
7.5.2 Test Mode Description 27
7.5.3 Test Setup Diagram 27
7.5.4 Measurement Procedure and Data 27

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8 Test Setup Photo 29

9 EUT Constructional Details (EUT Photos) 29

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4 General Information

4.1 Details of E.U.T.

Power Supply: Powered by adapter from USB-C port.
Cable(s): USB-A to USB-C 152cm Unshielded
Operation Frequency: 112.80kHz-148.60kHz
Antenna Type: Loop Antenna
Modulation Type: Load Modulation

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC Adapter	SAMSUNG	EP-TA200	REF. No.SEA05K03A
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
iPhone 8	Apple	A1863	REF. No.SEA16J00
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	REF. No.SEA16M01
E-loading	SGS	N/A	REF. No.SEA42A00

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	+/-3%
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	±3.12dB
Radiated Emissions (30MHz-1GHz)	±5.06dB （3m） ±4.46dB （10m）
Radiated Emissions (9kHz-30MHz)	± 4.5dB
Restricted band	± 3%

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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **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.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **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.

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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

20dB Bandwidth					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Signal Analyzer (20Hz-26.5GHz)	Rohde & Schwarz	FISQ 26	EMC0069	2020-11-13	2021-11-12
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2021-01-08	2022-01-06
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2020-09-25	2021-09-24
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR4	EMC2221	2021-06-01	2022-05-31

Radiated Emissions (30MHz-1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25

Radiated Emissions (9kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25

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Restricted band					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Signal Analyzer (20Hz-26.5GHz)	Rohde & Schwarz	FISQ 26	EMC0069	2020-11-13	2021-11-12
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05

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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

Standard 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an 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.
Refer to internal photos

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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
Test Method: ANSI C63.10 (2013) Section 6.9.2

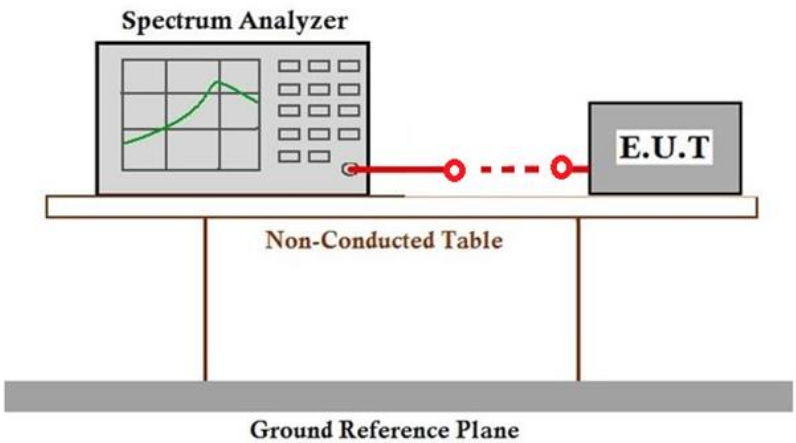
7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 24.6 °C Humidity: 52.8 % RH Atmospheric Pressure: 995 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode(coil 1)_Keep the EUT charging(5W).
Pre-scan	01	Charge mode(coil 1)_Keep the EUT charging(7.5W).
Final test	02	Charge mode(coil 1)_Keep the EUT charging(10W).
Pre-scan	03	Charge mode(coil 2)_Keep the EUT charging(5W).
Pre-scan	04	Charge mode(coil 2)_Keep the EUT charging(7.5W).
Pre-scan	05	Charge mode(coil 2)_Keep the EUT charging(10W).
Pre-scan	06	Charge mode(coil 3)_Keep the EUT charging(5W).
Pre-scan	07	Charge mode(coil 3)_Keep the EUT charging(7.5W).
Pre-scan	08	Charge mode(coil 3)_Keep the EUT charging(10W).

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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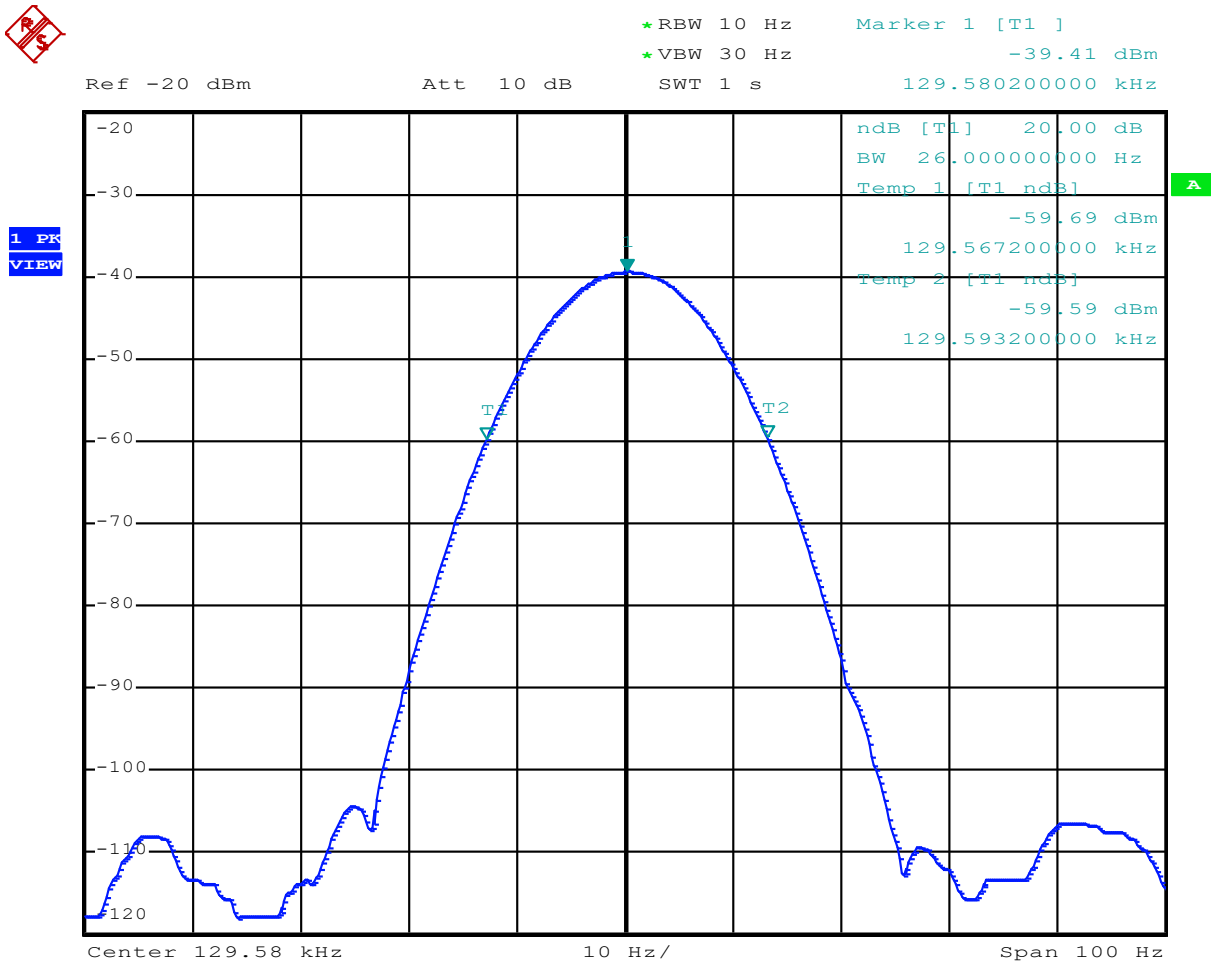
Test Frequency(KHz)	20dB bandwidth (KHz)	Limit (KHz)	Results
129.58	0.0260	N/A	Pass



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7.2 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	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.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 52.2 % RH Atmospheric Pressure: 995 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode(coil 1)_Keep the EUT charging(5W).
Pre-scan	01	Charge mode(coil 1)_Keep the EUT charging(7.5W).
Final test	02	Charge mode(coil 1)_Keep the EUT charging(10W).
Pre-scan	03	Charge mode(coil 2)_Keep the EUT charging(5W).
Pre-scan	04	Charge mode(coil 2)_Keep the EUT charging(7.5W).
Pre-scan	05	Charge mode(coil 2)_Keep the EUT charging(10W).
Pre-scan	06	Charge mode(coil 3)_Keep the EUT charging(5W).
Pre-scan	07	Charge mode(coil 3)_Keep the EUT charging(7.5W).
Pre-scan	08	Charge mode(coil 3)_Keep the EUT charging(10W).

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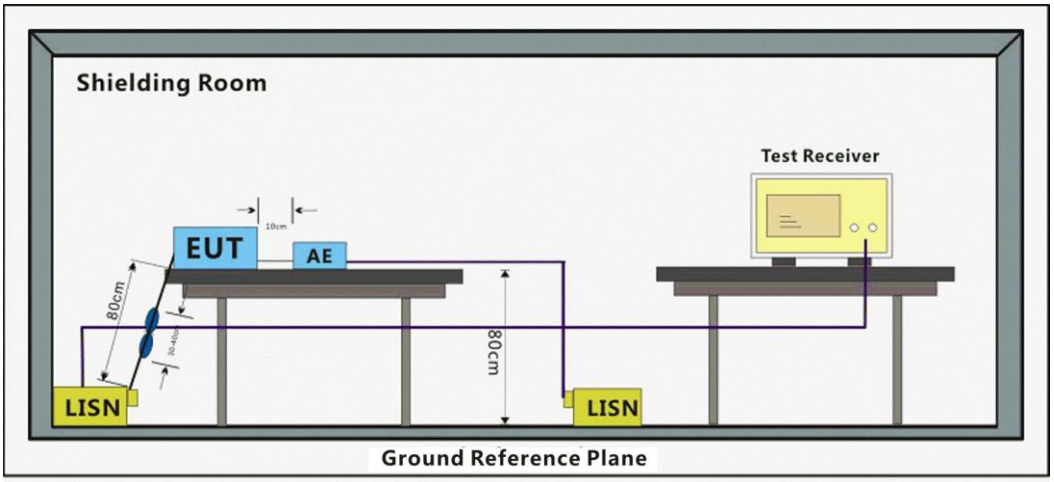
7.2.3 Test Setup Diagram



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

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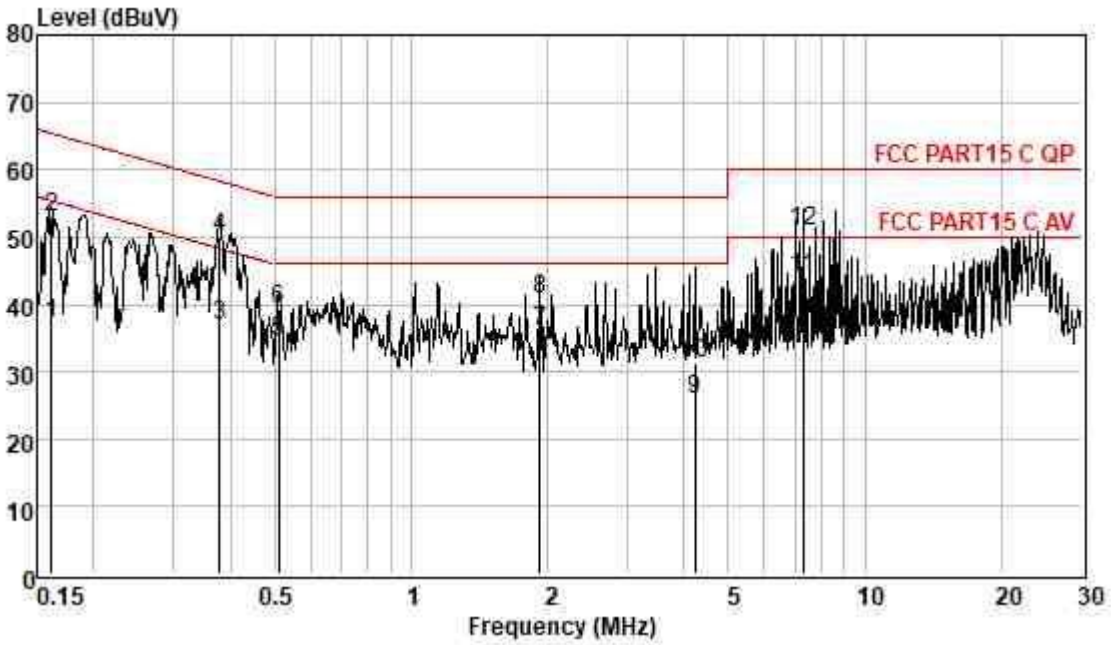
Test Mode: 02; Line: Live line



Pol :LINE
Mode :02
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.16	27.43	0.06	9.62	37.11	55.38	-18.27	Average
0.16	43.14	0.06	9.62	52.82	65.38	-12.56	QP
0.38	27.28	0.06	9.63	36.97	48.30	-11.33	Average
0.38	40.32	0.06	9.63	50.01	58.30	-8.29	QP
0.51	24.65	0.07	9.63	34.35	46.00	-11.65	Average
0.51	29.43	0.07	9.63	39.13	56.00	-16.87	QP
1.92	26.24	0.12	9.62	35.98	46.00	-10.02	Average
1.92	31.02	0.12	9.62	40.76	56.00	-15.24	QP
4.22	16.04	0.17	9.63	25.84	46.00	-20.16	Average
4.22	21.57	0.17	9.63	31.37	56.00	-24.63	QP
7.29	34.15	0.21	9.67	44.03	50.00	-5.97	Average
7.29	40.90	0.21	9.67	50.78	60.00	-9.22	QP

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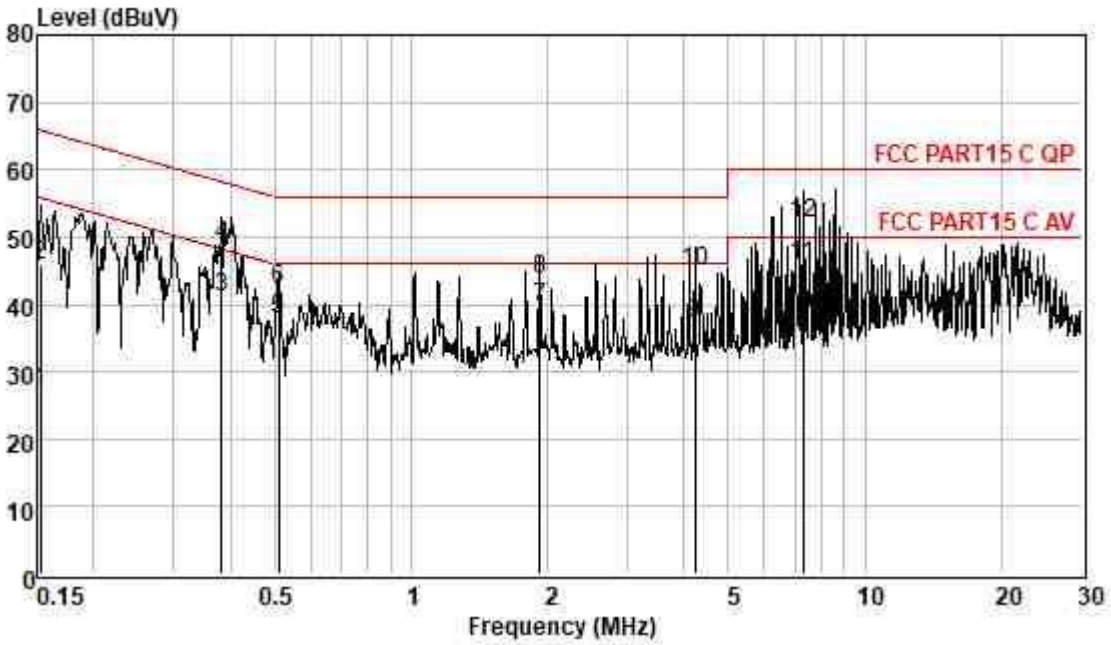
Test Mode: 02; Line: Neutral Line



Pol :NEUTRAL
Mode :02
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.15	17.36	0.06	9.55	26.97	55.87	-28.90	Average
0.15	36.08	0.06	9.55	45.69	65.87	-20.18	QP
0.38	31.47	0.06	9.55	41.08	48.21	-7.13	Average
0.38	39.27	0.06	9.55	48.88	58.21	-9.33	QP
0.51	28.29	0.07	9.55	37.91	46.00	-8.09	Average
0.51	32.69	0.07	9.55	42.31	56.00	-13.69	QP
1.92	29.83	0.12	9.54	39.49	46.00	-6.51	Average
1.92	34.18	0.12	9.54	43.84	56.00	-12.16	QP
4.22	27.57	0.17	9.56	37.30	46.00	-8.70	Average
4.22	35.18	0.17	9.56	44.91	56.00	-11.09	QP
7.29	35.91	0.21	9.58	45.70	50.00	-4.30	Average
7.29	42.19	0.21	9.58	51.98	60.00	-8.02	QP

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7.3 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.5
Measurement Distance: 10m
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 9-90kHz, 110-490kHz and 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.		

7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 54.9 % RH Atmospheric Pressure: 995 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode(coil 1)_Keep the EUT charging(5W).
Pre-scan	01	Charge mode(coil 1)_Keep the EUT charging(7.5W).
Final test	02	Charge mode(coil 1)_Keep the EUT charging(10W).
Pre-scan	03	Charge mode(coil 2)_Keep the EUT charging(5W).
Pre-scan	04	Charge mode(coil 2)_Keep the EUT charging(7.5W).
Pre-scan	05	Charge mode(coil 2)_Keep the EUT charging(10W).
Pre-scan	06	Charge mode(coil 3)_Keep the EUT charging(5W).
Pre-scan	07	Charge mode(coil 3)_Keep the EUT charging(7.5W).
Pre-scan	08	Charge mode(coil 3)_Keep the EUT charging(10W).

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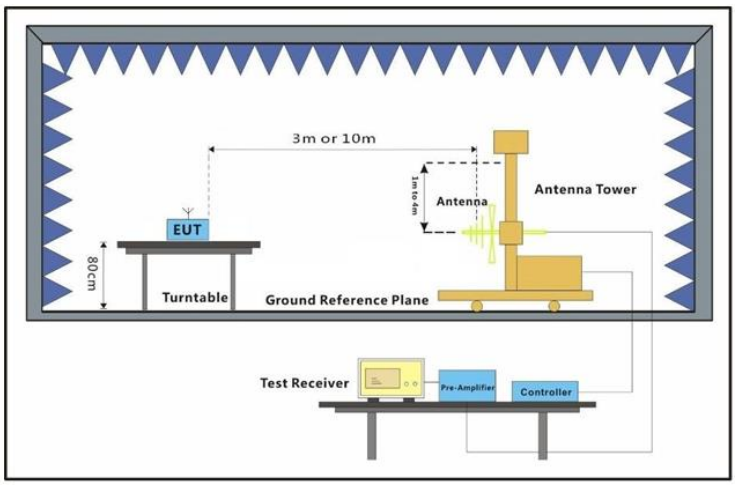
7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 10 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. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark: Level=Read Level+Cable Loss+Antenna Factor-Preamp Factor

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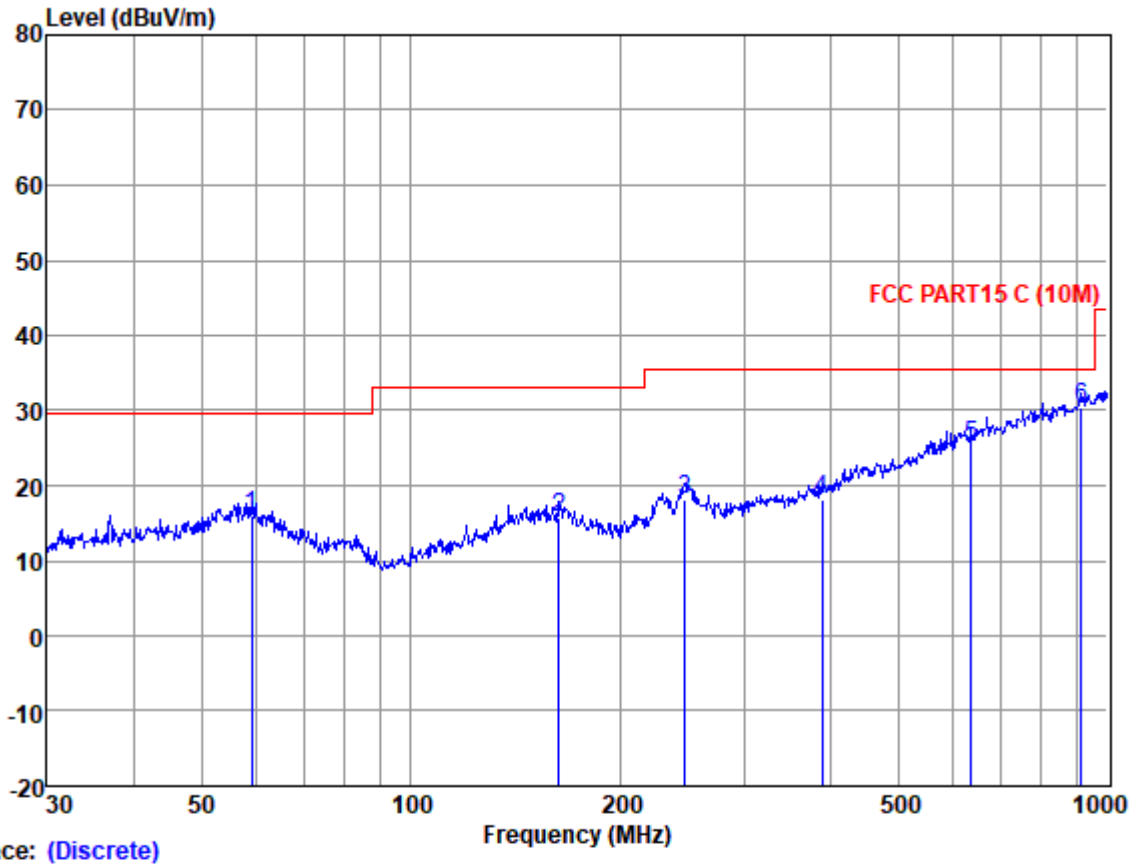
Test Mode: 02; Polarity: Horizontal



race: (Discrete)
Site : SGS
Condition: FCC PART15 C (10M) 10m HORIZONTAL
Job :
Model :
Power :
Test Mode:

	Freq	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	59.03	28.30	13.50	1.24	27.16	15.88	29.50	-13.62	HORIZONTAL	QP
2	163.18	26.75	13.53	2.35	26.79	15.84	33.10	-17.26	HORIZONTAL	QP
3	246.81	29.88	12.03	2.90	26.63	18.18	35.60	-17.42	HORIZONTAL	QP
4	389.35	25.98	15.60	3.89	27.29	18.18	35.60	-17.42	HORIZONTAL	QP
5	636.13	27.78	20.40	5.39	28.19	25.38	35.60	-10.22	HORIZONTAL	QP
6	916.07	27.69	23.53	6.96	27.82	30.36	35.60	-5.24	HORIZONTAL	QP

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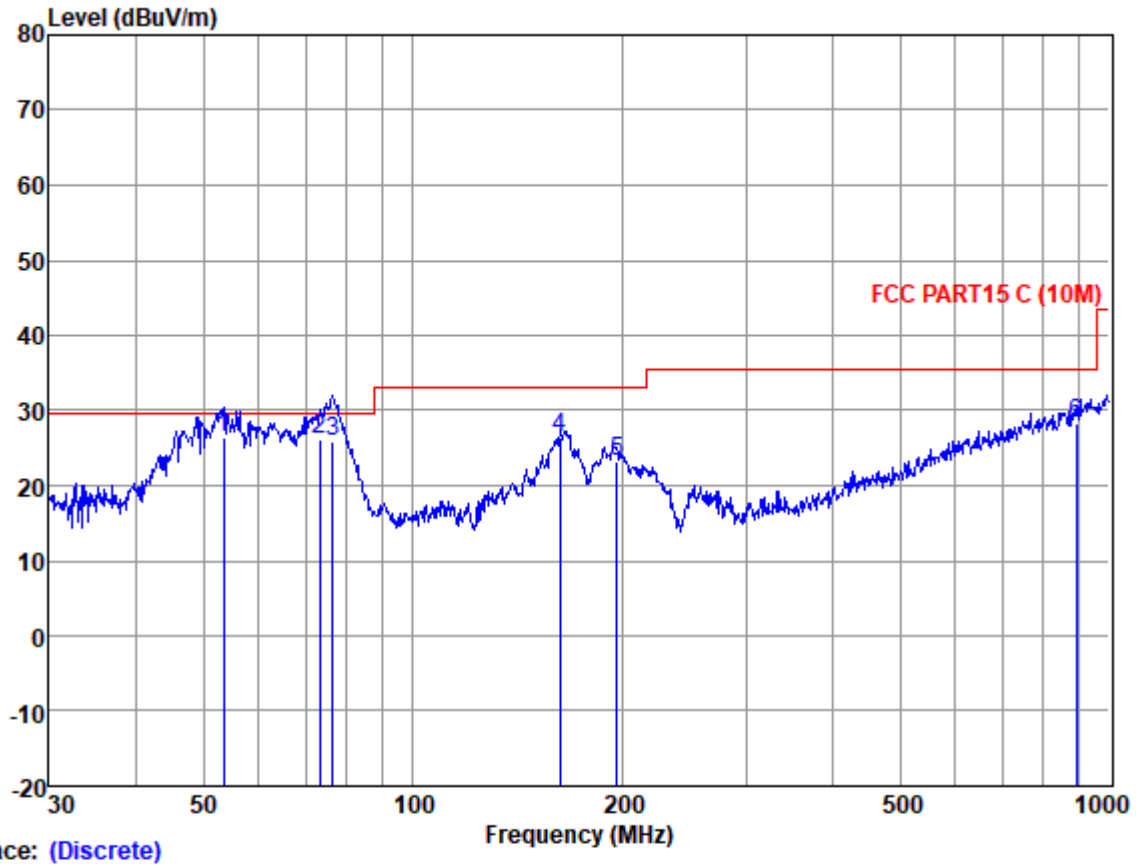
Test Mode: 02; Polarity: Vertical



race: (Discrete)
Site : SGS
Condition: FCC PART15 C (10M) 10m VERTICAL
Job :
Model :
Power :
Test Mode:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	53.51	38.51	13.84	1.17	27.17	26.35	29.50	-3.15	VERTICAL	QP
2	73.36	40.82	11.09	1.44	27.11	26.24	29.50	-3.26	VERTICAL	QP
3	76.51	41.45	10.08	1.46	27.10	25.89	29.50	-3.61	VERTICAL	QP
4	162.61	37.35	13.57	2.35	26.79	26.48	33.10	-6.62	VERTICAL	QP
5	195.82	36.79	10.60	2.51	26.73	23.17	33.10	-9.93	VERTICAL	QP
6	893.86	26.18	23.17	6.86	27.86	28.35	35.60	-7.25	VERTICAL	QP

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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$L_3 / L_{10} = D_{10} / D_3$

Note:

L_3: Level @ 3m distance. Unit: uV/m;

L_{10}: Level @ 10m distance. Unit: uV/m;

D_3: 3m distance. Unit: m

D_{10}: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
53.510	26.35	20.77	69.24	36.81	40.00	-3.19	V
73.360	26.24	20.51	68.37	36.70	40.00	-3.30	V
76.510	25.89	19.70	65.67	36.35	40.00	-3.65	V
162.610	26.48	21.09	70.29	36.94	43.50	-6.56	V
195.820	23.17	14.40	48.02	33.63	43.50	-9.87	V
893.860	28.35	26.15	87.17	38.81	46.00	-7.19	V
59.030	15.88	6.22	20.74	26.34	40.00	-13.66	H
163.180	15.84	6.19	20.65	26.30	43.50	-17.20	H
246.810	18.18	8.11	27.03	28.64	46.00	-17.36	H
389.350	18.18	8.11	27.03	28.64	46.00	-17.36	H
636.130	25.38	18.58	61.93	35.84	46.00	-10.16	H
916.070	30.36	32.96	109.87	40.82	46.00	-5.18	H

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7.4 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4
Measurement Distance: 3m
Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz. 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.		

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 λ/2π and the limit distance is greater than λ/2π, 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 λ/2π distance, and at a 20 dB/decade of distance rate beyond λ/2π. This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(near\ field)}/d_{(10m)}\} + 20\log\{d_{(30/300m)}/d_{(near\ field)}\} \quad (2)$$

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

$$FS_{(10m)} = FS_{(30/300m)} + 20\log\{d_{(30/300m)}/d_{(10m)}\} \quad (3)$$

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

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

Remark:

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

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 51.6 % RH Atmospheric Pressure: 995 mbar

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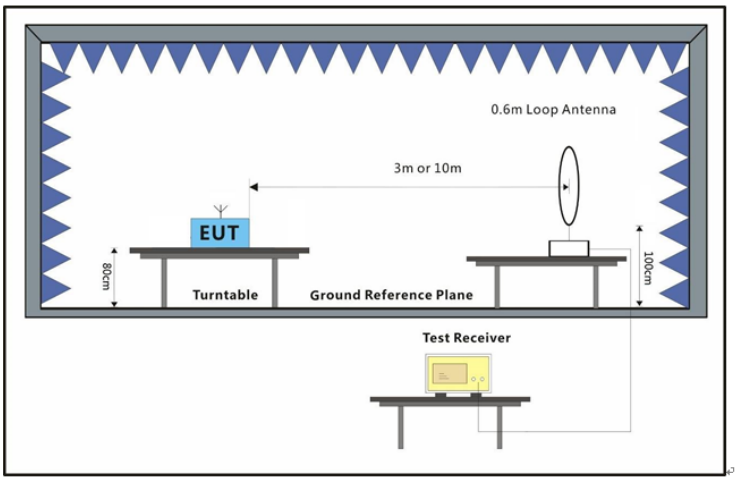
7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode(coil 1)_Keep the EUT charging(5W).
Pre-scan	01	Charge mode(coil 1)_Keep the EUT charging(7.5W).
Final test	02	Charge mode(coil 1)_Keep the EUT charging(10W).
Pre-scan	03	Charge mode(coil 2)_Keep the EUT charging(5W).
Pre-scan	04	Charge mode(coil 2)_Keep the EUT charging(7.5W).
Pre-scan	05	Charge mode(coil 2)_Keep the EUT charging(10W).
Pre-scan	06	Charge mode(coil 3)_Keep the EUT charging(5W).
Pre-scan	07	Charge mode(coil 3)_Keep the EUT charging(7.5W).
Pre-scan	08	Charge mode(coil 3)_Keep the EUT charging(10W).

7.4.3 Test Setup Diagram



7.4.4 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.

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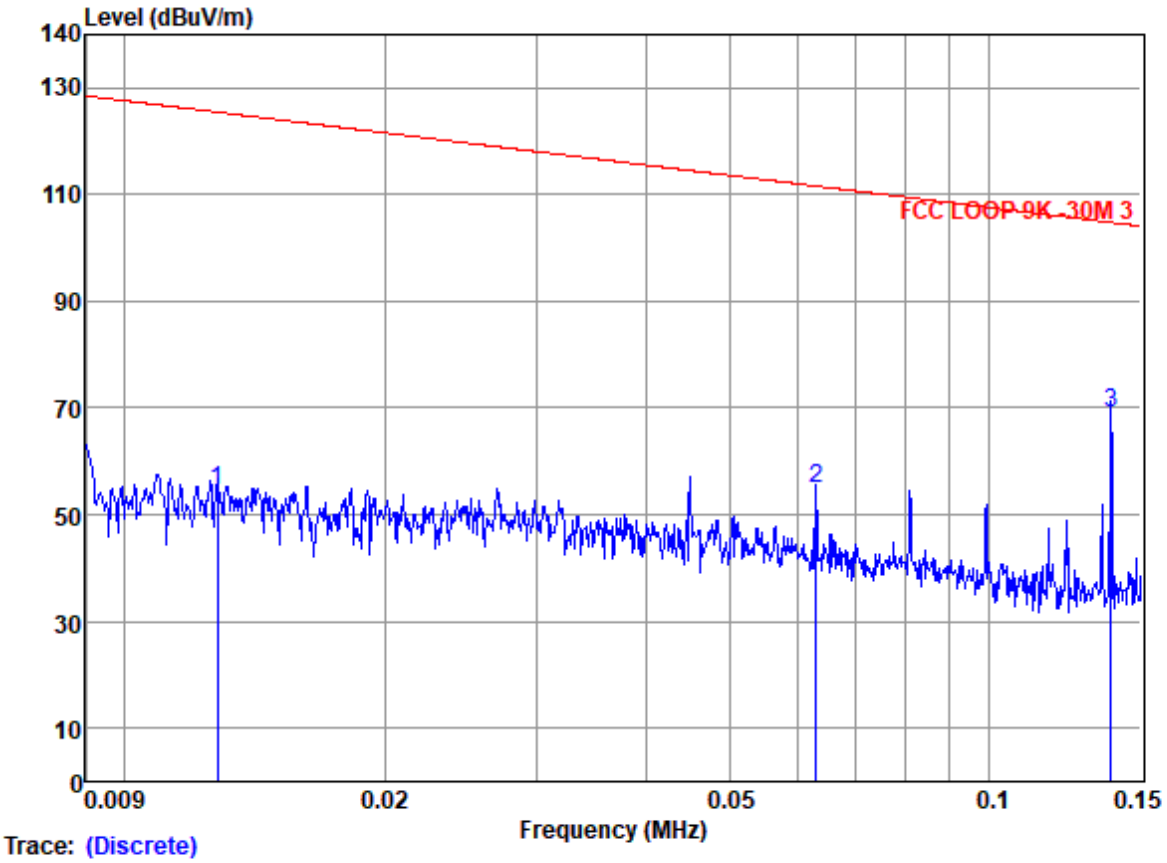
Test Mode: 02; Polarity: Horizontal




```
Site        : SGS
Condition   : FCC LOOP 9K -30M 3
Job         :
Model       :
Power       :
Test Mode   :
```

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	0.01	67.71	15.10	0.05	28.23	54.63	125.47	-70.84	HORIZONTAL	Average
2	0.06	72.53	11.54	0.05	29.36	54.76	111.61	-56.85	HORIZONTAL	Average
3	0.14	88.09	10.57	0.05	29.46	69.25	104.79	-35.54	HORIZONTAL	Average

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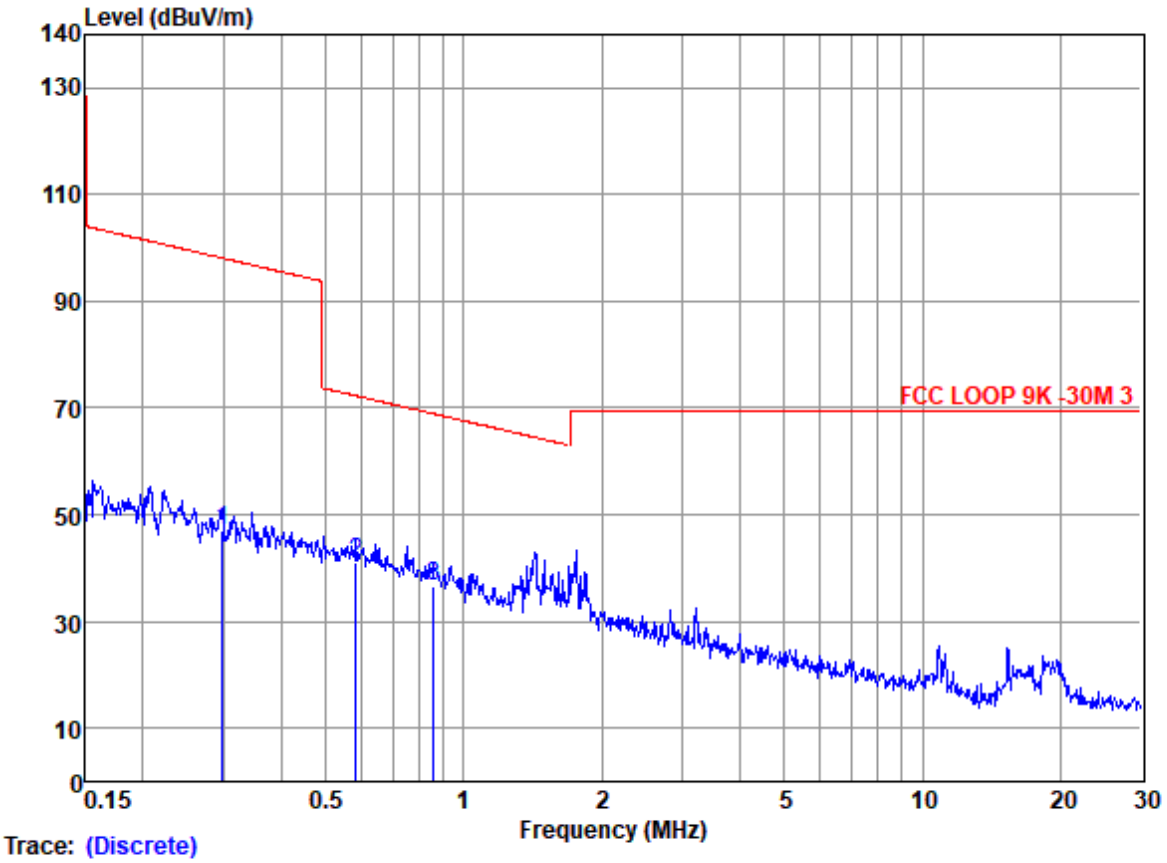
Test Mode: 02; Polarity: Horizontal



Site : SGS
Condition : FCC LOOP 9K -30M 3
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	0.30	65.84	10.76	0.05	29.44	47.21	98.10	-50.89	HORIZONTAL	Average
2	0.58	59.90	10.66	0.10	29.42	41.24	72.30	-31.06	HORIZONTAL	QP
3	0.86	55.49	10.44	0.13	29.41	36.65	68.90	-32.25	HORIZONTAL	QP

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7.5 Restricted band

Test Requirement 47 CFR Part 15, Subpart C 15.205
Test Method: ANSI C63.10 (2013) Section 6.10.5
Limit:
The fundamental wave can not fall in the restricted band 90KHz-110KHz

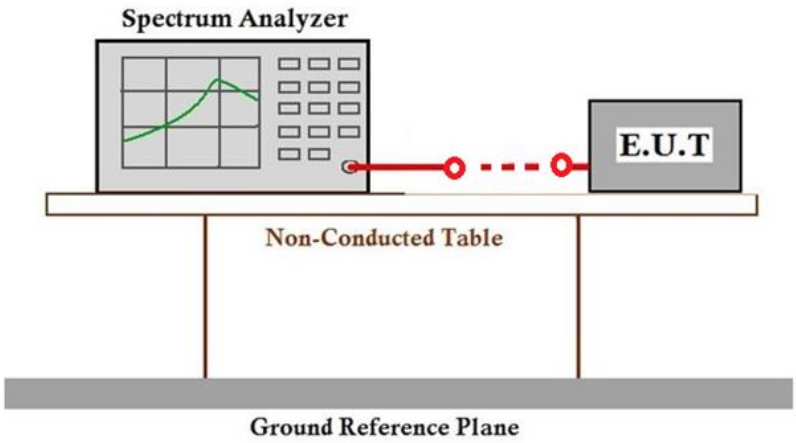
7.5.1 E.U.T. Operation

Operating Environment:
Temperature: 23.8 °C Humidity: 52.4 % RH Atmospheric Pressure: 995 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode(coil 1)_Keep the EUT charging(5W).
Pre-scan	01	Charge mode(coil 1)_Keep the EUT charging(7.5W).
Final test	02	Charge mode(coil 1)_Keep the EUT charging(10W).
Pre-scan	03	Charge mode(coil 2)_Keep the EUT charging(5W).
Pre-scan	04	Charge mode(coil 2)_Keep the EUT charging(7.5W).
Pre-scan	05	Charge mode(coil 2)_Keep the EUT charging(10W).
Pre-scan	06	Charge mode(coil 3)_Keep the EUT charging(5W).
Pre-scan	07	Charge mode(coil 3)_Keep the EUT charging(7.5W).
Pre-scan	08	Charge mode(coil 3)_Keep the EUT charging(10W).

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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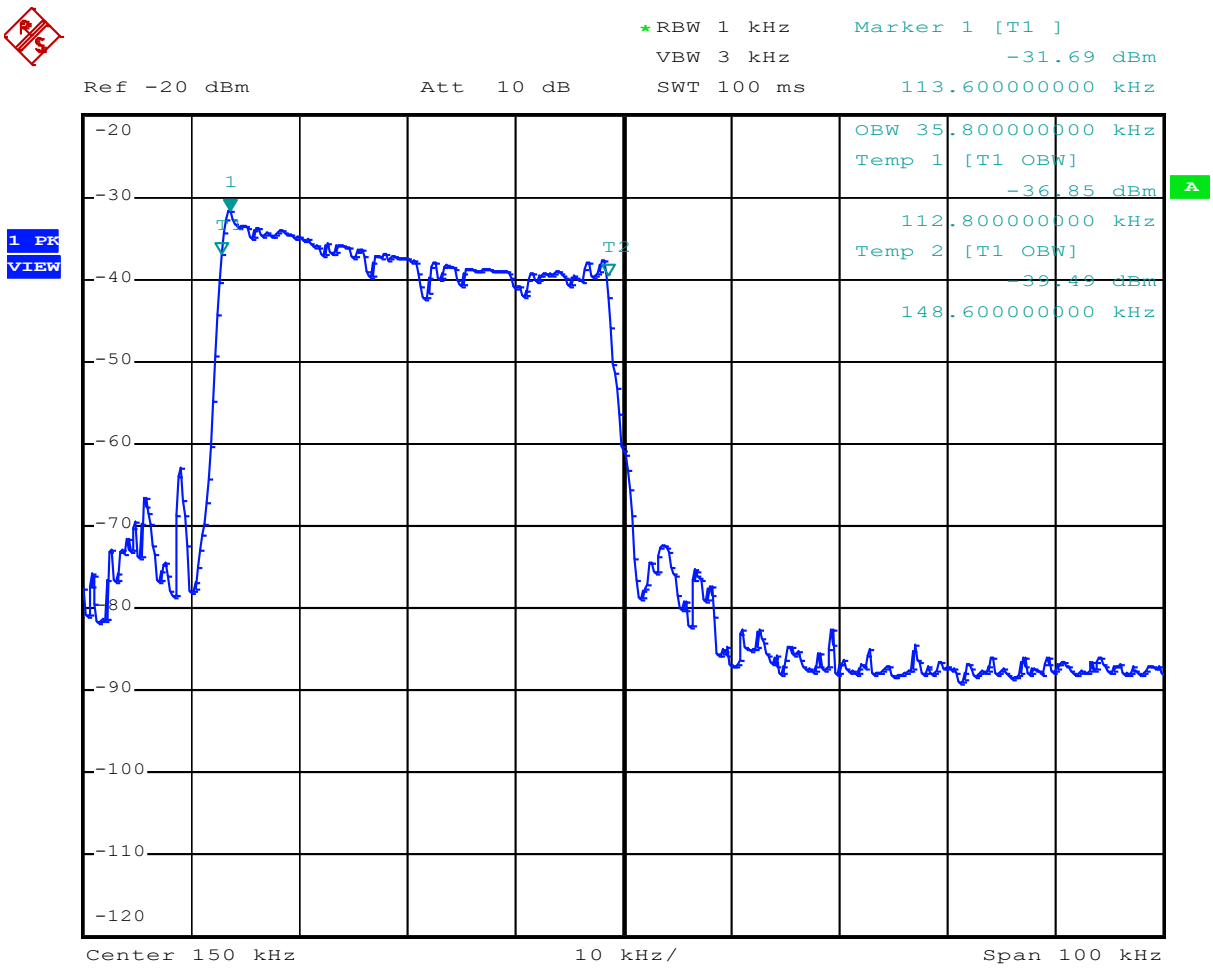
According the test data above, the fundamental wave is not fall in the restricted band 90kHz-110kHz, the field strength also meet the 15.209 requirement, please refer to clause 7.3.



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8 Test Setup Photo

Refer to Appendix – Test Setup Photos for GZCR2108020801AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – external and internal for GZCR2108020801AT

- End of the Report -

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