

TEST REPORT**Application No.:**

GZCR2405000561MD

Applicant:

Maxphotonics Co., Ltd.

Address of Applicant:

Maxphotonics Industrial Park, Third Furong Road Furong Industrial Area, Shajing Town, BaoAn District Shenzhen, Guangdong, China.

Manufacturer:

Maxphotonics Co., Ltd.

Address of Manufacturer:

Maxphotonics Industrial Park, Third Furong Road Furong Industrial Area, Shajing Town, BaoAn District Shenzhen, Guangdong, China.

Factory:

Maxphotonics Co., Ltd.

Address of Factory:

Maxphotonics Industrial Park, Third Furong Road Furong Industrial Area, Shajing Town, BaoAn District Shenzhen, Guangdong, China.

Product Name:

MFSC 6000C(G6.1) CW Fiber Laser Series

Model No.:

MFSC-6000C-BKW6.1, MFSC-#####**-**W*.** ('#####'=1000, 1500, 2000, 3000, 6000; the first**=H, M, X, C, W, W_Pro, plus, HW; the second**=(W), (C), (HMB) or blank space; the third**=A, B, C, D, E, F, G, H; the fourth**=A, B, C, D, E, F, G, H, I, J, K, L, M, X; the fifth**=1-99; the sixth**=0-99; the seventh**= C or Blank space) ♣

♣

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

Trade Mark: **Standard(s) :**

47 CFR Part 15, Subpart C 15.247

Date of Receipt:

2024-05-27

Date of Test:

2024-06-04 to 2024-06-25

Date of Issue:

2024-07-04

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

Ricky Liu
Manager

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Revision Record			
Version	Report No.	Date	Remark
01	GZCR240500056101	2024-07-04	Original

Authorized for issue by			
	 Luke Lin	 Luke Lin/Project Engineer	
	 Vico Cui	 Vico Cui/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 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass**
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
**: The EUT passed Radiated Spurious Emissions Below 1GHz test after modification.				

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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*** Declaration of EUT Family Grouping:**

Model No.: MFSC-6000C-BKW6.1, MFSC-#####*-**W*.** ('#####'=1000, 1500, 2000, 3000, 6000; the first'*'=H, M, X, C, W, W_Pro, plus, HW; the second'*'=(W), (C), (HMB) or blank space; the third'*'=A, B, C, D, E, F, G, H; the fourth'*'= A, B, C, D, E, F, G, H, I, J, K, L, M, X; the fifth'*'=1-99; the sixth'*'=0-99; the seventh'*'= C or Blank space)

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. More details are shown in the table below.

Therefore, only one model MFSC-6000C-BKW6.1 was tested in this report.



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Model:		MFSC-#####										
		MFSC-#####-**W*.*										
1	2	3	4	5	6	7	8	9	10	11		
M	F	MC	-	####	*	*	-	*	*	*		
Company	Fiber Laser	Code	/	Power	Characteristic	Application direction	/	Output type	Cable Length	Cooling	Optical path design and software operation, etc.	/
											Changes in appearance, color, handle, etc.	Version
		Code Kind										
		F Fiber laser										
		Code Application										
		SC Single-module CW										
		Code Power (W) Current(A)										
		1000 1000 12										
		1500 1500 18.5										
		2000 2000 28										
		3000 3000 12.5										
		6000 6000 31										
		Code Characteristic										
		H										
		M										
		X										
		C										
		W										
		W Pro										
		Plus										
		HW										
		Code Application direction										
		(W)										
		(C)										
		(HMB)										
		Blank space										
		Code Output type										
		A Collimator isolator										
		B QBH										
		C QCS										
		D SMA-905										
		E LOF										
		F QD										
		G Bare fiber										
		H D80										
		Code Cable Length										
		A 1.5M										
		B 1.9M										
		C 2.0M										
		D 2.5M										
		E 3.0M										
		F 4.0M										
		G 5.0M										
		H 10M										
		I 12M										
		J 15M										
		K 20M										
		L 25M										
		M 30M										
		X Other										
		Code Cooling										
		W Water-cooling										
		Code Kind										
		1										
		2										
		3										
		4										
		5										
		.										
		97										
		98										
		99										
		Code Kind										
		0										
		1										
		2										
		3										
		4										
		Changes in appearance, color, handle, etc.										
		.										
		97										
		98										
		99										
		Code Kind										
		C Customized										
		Code Kind										
		C Blank space										

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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 400V 50/60Hz
Test voltage:	AC 400V, 60Hz
Cable(s):	Three phase power line 2.5m
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Dedicated Antenna
Antenna Gain:	4.63dBi according to antenna specification
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.
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±2.76dB
Radiated Emissions which fall in the restricted bands	±5.00dB (30MHz-1GHz; 3m); ±4.38dB (30MHz-1GHz; 10m); ± 5.12dB (1GHz-6GHz); ± 5.38dB (6GHz-18GHz); ±5.61dB(18GHz-40GHz)
Radiated Spurious Emissions Below 1GHz	±5.00dB (3m); ±4.38dB (10m)
Radiated Spurious Emissions Above 1GHz	±5.12dB (1GHz-6GHz); ±5.38dB (6GHz-18GHz); ±5.61dB(18GHz-40GHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Remark:	
The U_{lab} (lab Uncertainty) is less than $U_{cispresi}$ (CISPR/ETSI Uncertainty), so the test results	
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;	
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	



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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 AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	2m	EMC0107	2023-08-04	2024-08-03
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15
Artificial Mains Network (LISN)	AFJ Instruments	LT32C	EMC2046	2023-10-20	2024-10-19
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2024-05-13	2025-05-12
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2023-11-10	2024-11-09
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2023-12-15	2024-12-14
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2023-06-18	2026-06-17
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2023-10-20	2024-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

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Radiated Spurious Emissions Below 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2022-10-16	2025-10-15
Coaxial cable	Mirco-COAX UTIFLEX	311A	EMC0540	2023-06-14	2025-06-13
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2024-06-17	2025-06-16
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-08	2026-04-07
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR7	EMC2220	2024-05-13	2025-05-12
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Trilog Broadband Antenna (25MHz-1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	EMC2174	2022-06-19	2025-06-18

Radiated Spurious Emissions Above 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2023-11-10	2024-11-09
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2023-12-15	2024-12-14
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2023-06-18	2026-06-17
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2023-11-10	2024-11-09
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2023-10-20	2024-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

RF Conducted Test

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2136	2023-11-02	2025-11-01
4X4 Power sensor Unit	TST	TSPS2023R	EMC2257	2023-08-23	2024-08-22
Test Software	TST	V2.0	GZE100-82	N/A	N/A
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	2024-06-17	2025-06-16

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General used equipment

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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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

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 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 4.63 dBi.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (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 (dB μ V)	
	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

7.1.1 E.U.T. Operation

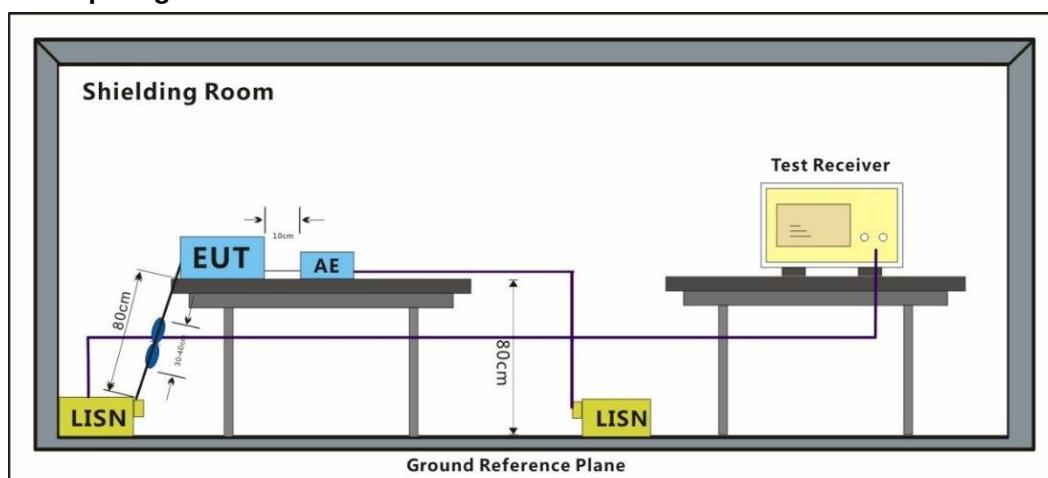
Operating Environment:

Temperature: 24.2 °C Humidity: 54.8 % RH Atmospheric Pressure: 1003 mbar

7.1.2 Test Mode Description

Pre-scan / Mode		Description
Final test	Code	
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.1.3 Test Setup Diagram



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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

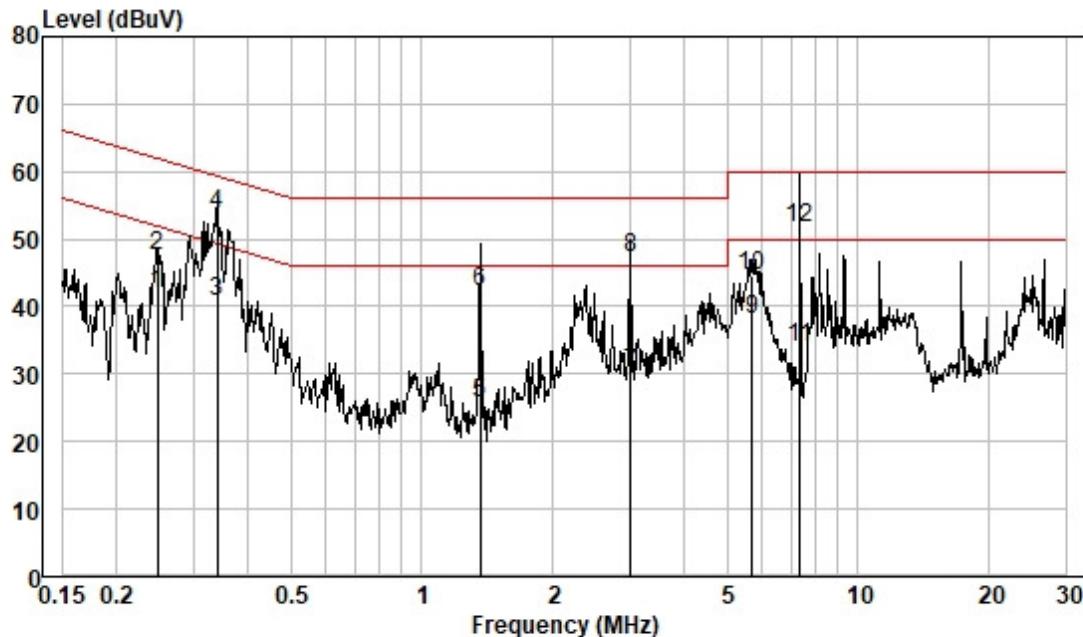


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Test Mode: 00; Line: Live 1 line



Pol :LINE

Mode :L1

Model :

Power :

	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.248	41.81	0.04	0.16	42.01	51.82	-9.81	Average
2	0.248	47.21	0.04	0.16	47.41	61.82	-14.41	QP
3	0.339	40.39	0.05	0.16	40.60	49.22	-8.62	Average
4	0.339	53.38	0.05	0.16	53.59	59.22	-5.63	QP
5	1.359	25.31	0.09	0.20	25.60	46.00	-20.40	Average
6	1.359	41.94	0.09	0.20	42.23	56.00	-13.77	QP
7	3.009	29.67	0.16	0.25	30.08	46.00	-15.92	Average
8	3.009	46.68	0.16	0.25	47.09	56.00	-8.91	QP
9	5.713	37.62	0.21	0.33	38.16	50.00	-11.84	Average
10	5.713	44.06	0.21	0.33	44.60	60.00	-15.40	QP
11	7.368	33.35	0.23	0.40	33.98	50.00	-16.02	Average
12	7.368	51.07	0.23	0.40	51.70	60.00	-8.30	QP

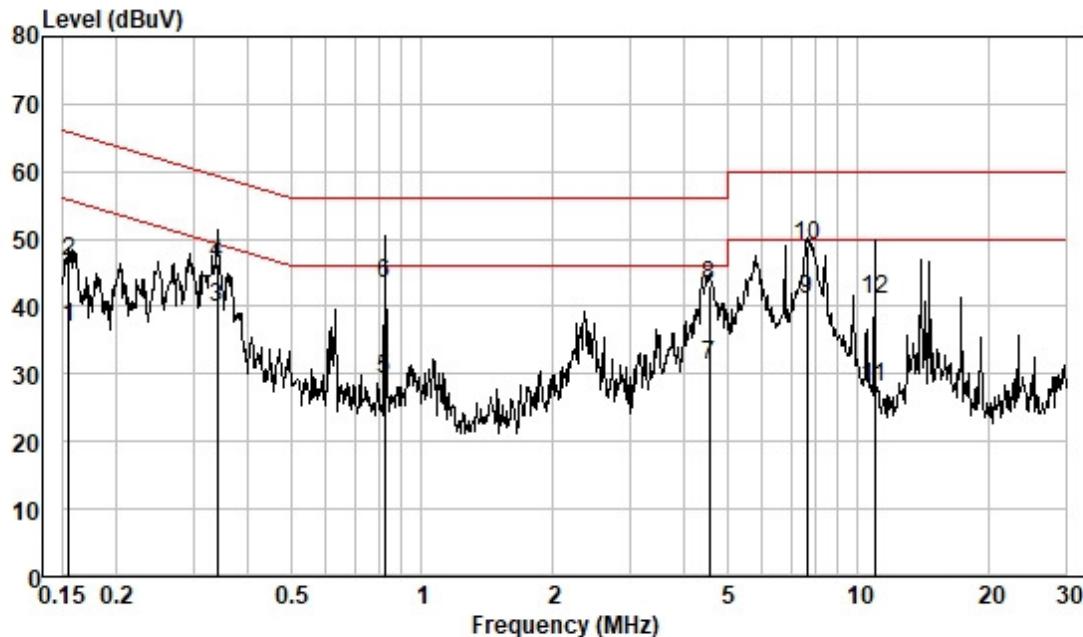


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Test Mode: 00; Line: Live 2 line



Pol :LINE

Mode :L2

Model :

Power :

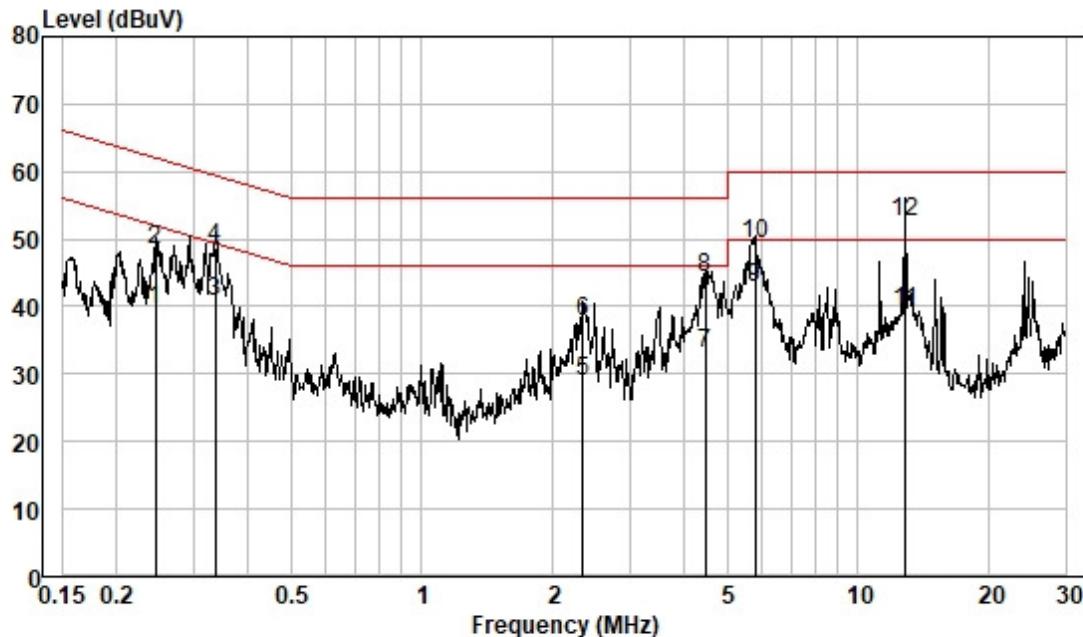
	Frequency	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.155	36.53	0.04	0.18	36.75	55.74	-18.99	Average
2	0.155	46.40	0.04	0.18	46.62	65.74	-19.12	QP
3	0.339	39.67	0.05	0.16	39.88	49.22	-9.34	Average
4	0.339	46.22	0.05	0.16	46.43	59.22	-12.79	QP
5	0.822	29.13	0.06	0.18	29.37	46.00	-16.63	Average
6	0.822	43.19	0.06	0.18	43.43	56.00	-12.57	QP
7	4.549	30.95	0.19	0.28	31.42	46.00	-14.58	Average
8	4.549	42.63	0.19	0.28	43.10	56.00	-12.90	QP
9	7.646	40.36	0.23	0.41	41.00	50.00	-9.00	Average
10	7.646	48.50	0.23	0.41	49.14	60.00	-10.86	QP
11	10.905	27.17	0.27	0.62	28.06	50.00	-21.94	Average
12	10.905	40.01	0.27	0.62	40.90	60.00	-19.10	QP



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Test Mode: 00; Line: Live 3 line



Pol :LINE

Mode :L3

Model :

Power :

	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.246	39.36	0.04	0.16	39.56	51.91	-12.35	Average
2	0.246	48.18	0.04	0.16	48.38	61.91	-13.53	QP
3	0.336	40.41	0.04	0.16	40.61	49.31	-8.70	Average
4	0.336	48.41	0.04	0.16	48.61	59.31	-10.70	QP
5	2.334	28.68	0.14	0.23	29.05	46.00	-16.95	Average
6	2.334	37.42	0.14	0.23	37.79	56.00	-18.21	QP
7	4.454	32.64	0.19	0.28	33.11	46.00	-12.89	Average
8	4.454	43.83	0.19	0.28	44.30	56.00	-11.70	QP
9	5.805	42.21	0.21	0.33	42.75	50.00	-7.25	Average
10	5.805	48.74	0.21	0.33	49.28	60.00	-10.72	QP
11	12.852	38.18	0.30	0.82	39.30	50.00	-10.70	Average
12	12.852	51.48	0.30	0.82	52.60	60.00	-7.40	QP



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7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 11.12

Limit:

Test Distance: 3 m

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
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.

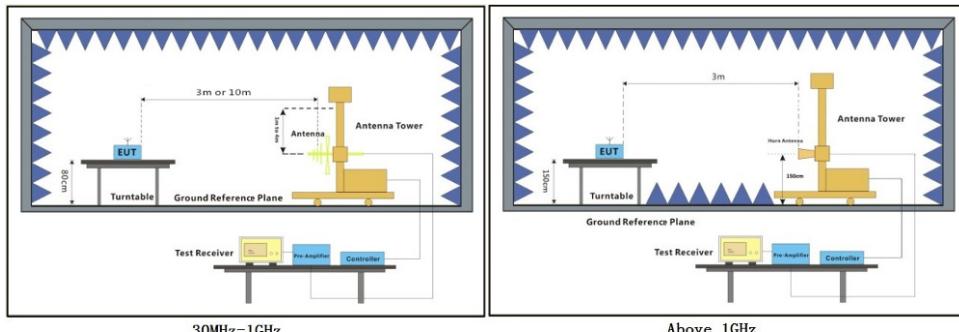
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C Humidity: 55.1 % RH Atmospheric Pressure: 1003 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram

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7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the Highest channel.
- i. 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 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

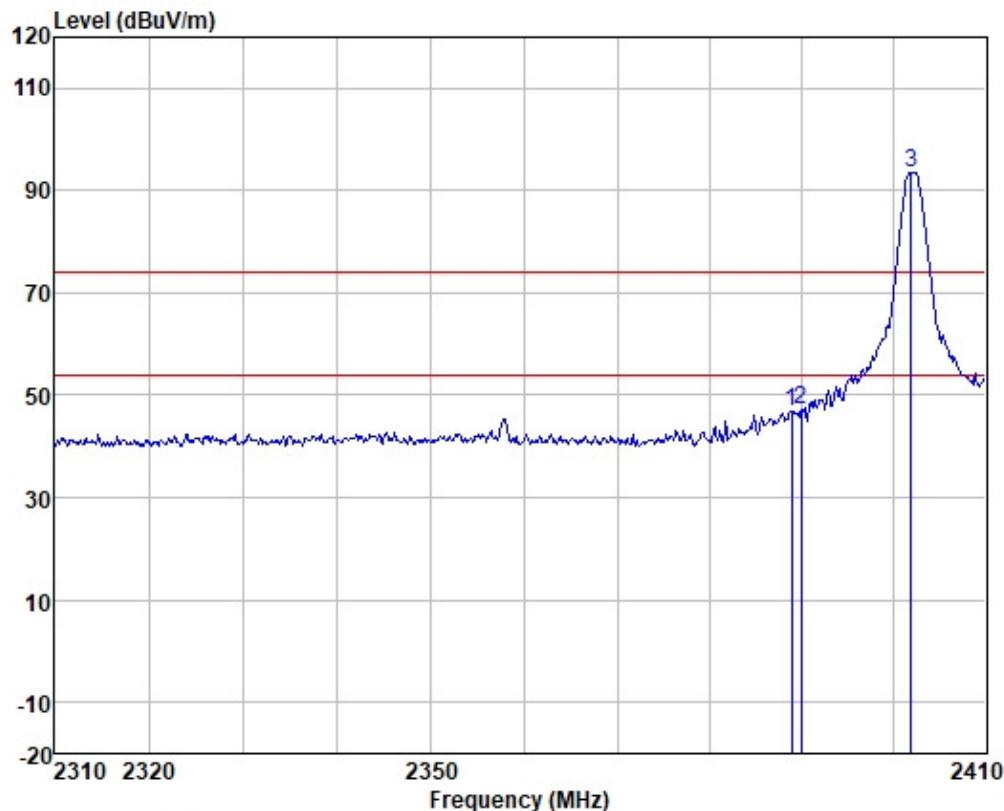
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2388.951	52.80	27.68	3.54	37.22	46.80	74.00	-27.20	VERTICAL peak
2	2390.000	53.21	27.68	3.54	37.21	47.22	74.00	-26.78	VERTICAL peak
3 *	2402.000	99.31	27.71	3.56	37.21	93.37	74.00	19.37	VERTICAL peak

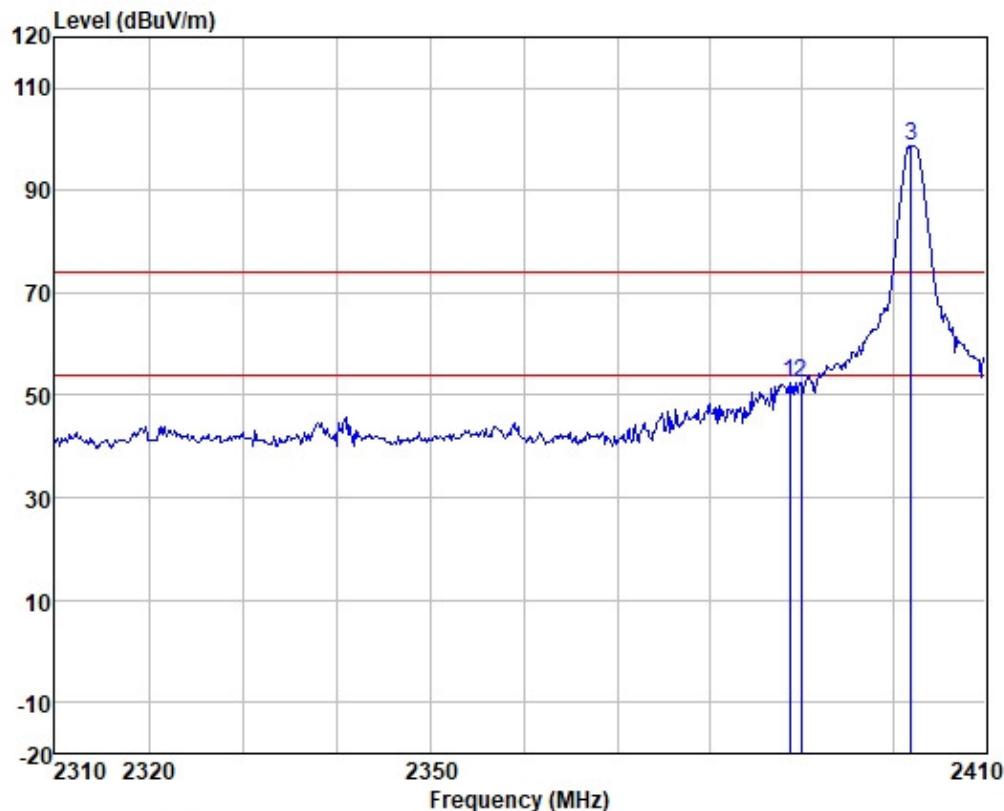


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



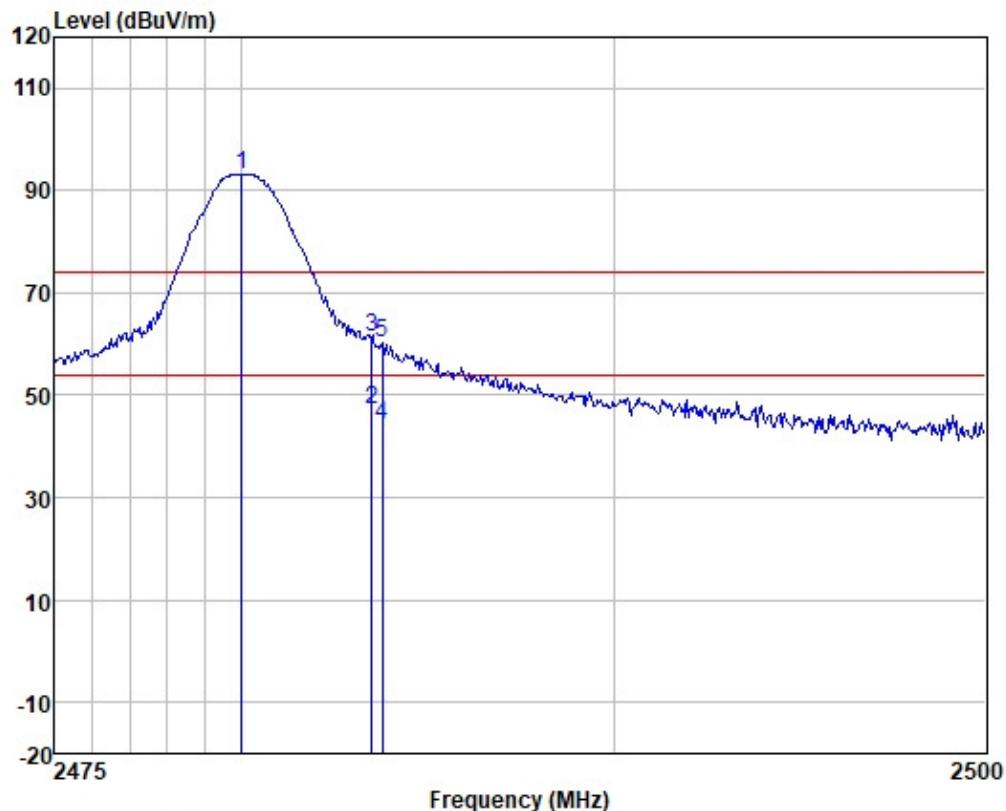
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Freq	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2388.748	58.37	27.68	3.54	37.22	52.37	74.00	-21.63 HORIZONTAL peak
2	2390.000	58.51	27.68	3.54	37.21	52.52	74.00	-21.48 HORIZONTAL peak
3 *	2402.000	104.59	27.71	3.56	37.21	98.65	74.00	24.65 HORIZONTAL peak



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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2480.000	98.58	27.84	3.72	37.19	92.95	74.00	18.95	VERTICAL peak
2	2483.500	52.79	27.85	3.74	37.19	47.19	54.00	-6.81	VERTICAL Average
3	2483.500	67.12	27.85	3.74	37.19	61.52	74.00	-12.48	VERTICAL peak
4	2483.771	49.99	27.85	3.74	37.19	44.39	54.00	-9.61	VERTICAL Average
5	2483.771	66.04	27.85	3.74	37.19	60.44	74.00	-13.56	VERTICAL peak

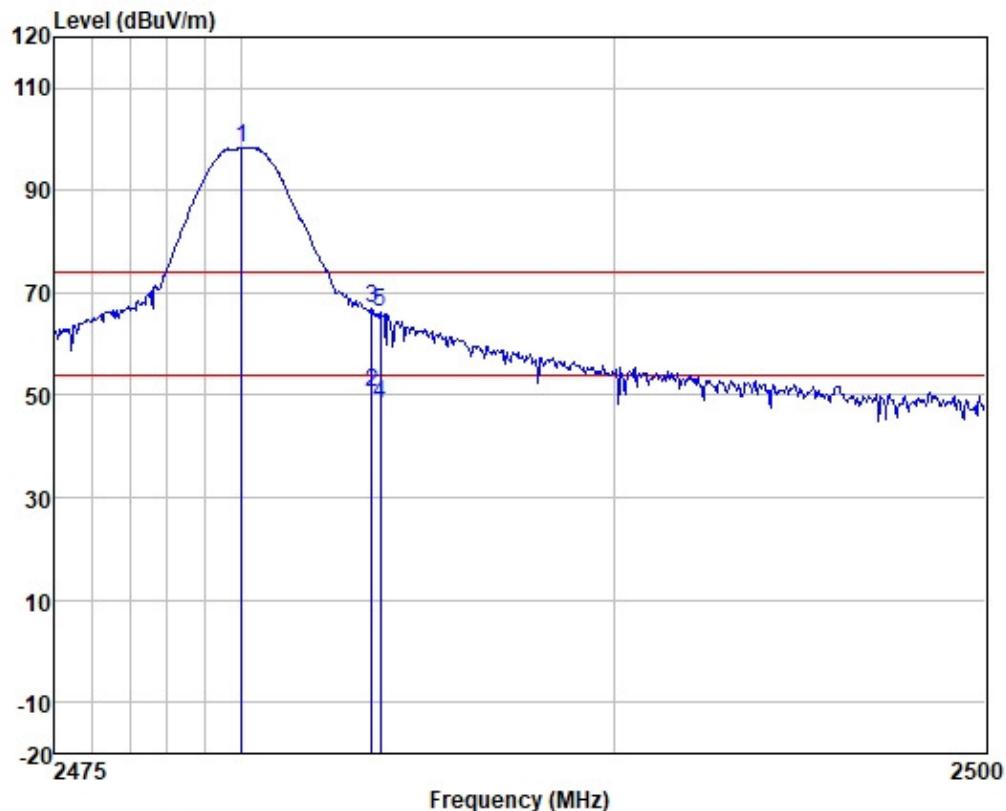


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Over	Remark
	Freq	Level	Factor	Loss					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	
1 *	2480.000	103.83	27.84	3.72	37.19	98.20	74.00	24.20	HORIZONTAL peak
2	2483.500	56.27	27.85	3.74	37.19	50.67	54.00	-3.33	HORIZONTAL Average
3	2483.500	72.41	27.85	3.74	37.19	66.81	74.00	-7.19	HORIZONTAL peak
4	2483.721	54.05	27.85	3.74	37.19	48.45	54.00	-5.55	HORIZONTAL Average
5	2483.721	71.88	27.85	3.74	37.19	66.28	74.00	-7.72	HORIZONTAL peak

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7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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

Limit:

Test Distance: 10 m

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
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

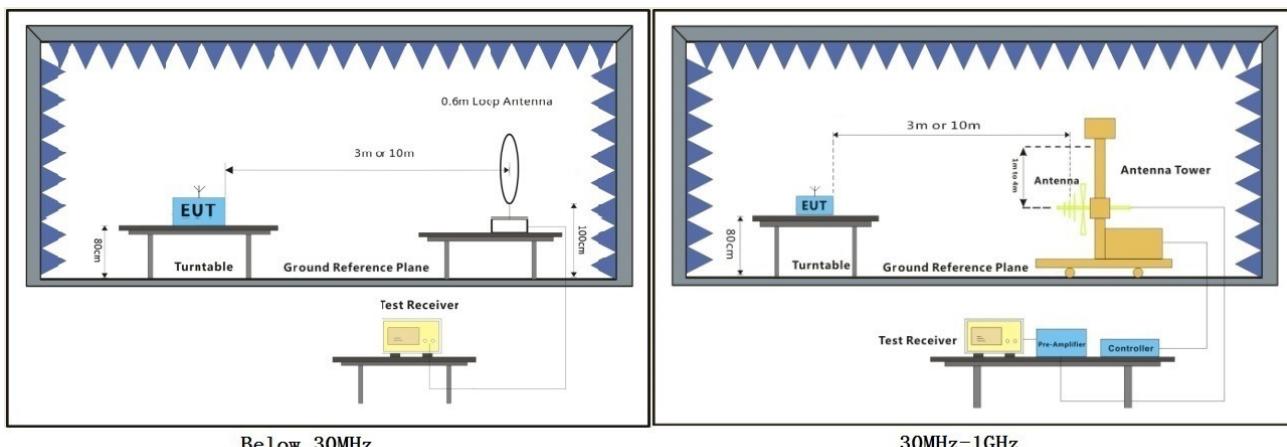
Humidity: 59.1 % RH

Atmospheric Pressure: 1003 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 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 quasi-peak 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. Convert Factor (dB)= $20 \times \log(3m/10m)$
4. Level @ 3m (dBuV/m)= Level @ 10m (dBuV/m) - Convert Factor (dB)



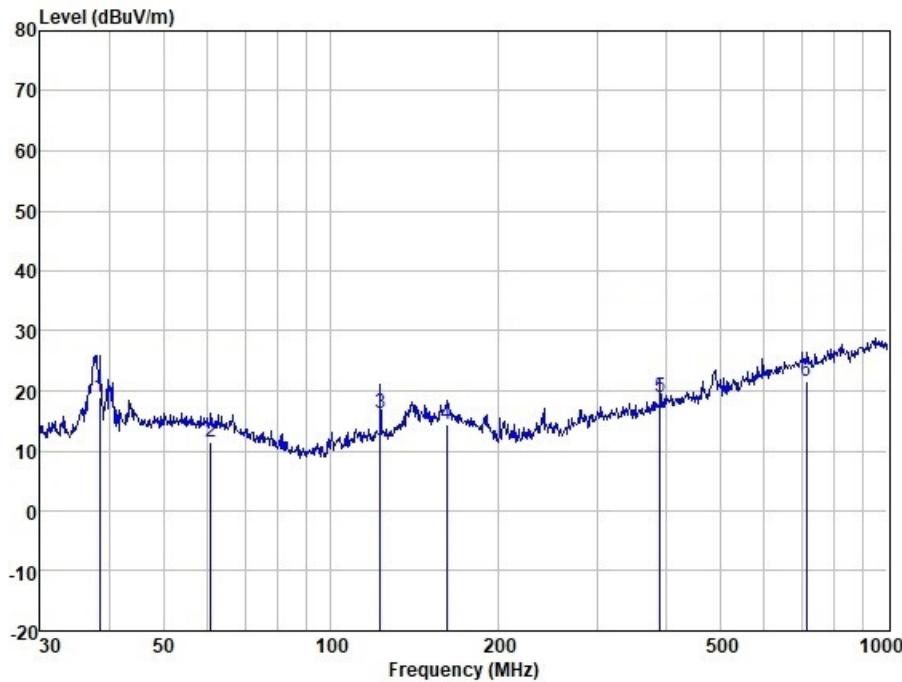
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Test Mode: 00; Polarity: Horizontal



Site : SGS
 Job :
 Model :
 Power :
 Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	38.346	33.21	13.40	0.41	28.14	18.88		HORIZONTAL	QP
2	60.704	25.77	13.20	0.52	28.10	11.39		HORIZONTAL	QP
3	122.404	32.07	11.39	0.73	28.04	16.15		HORIZONTAL	QP
4	161.474	27.63	13.56	0.85	27.75	14.29		HORIZONTAL	QP
5	390.723	30.16	15.38	1.34	28.07	18.81		HORIZONTAL	QP
6	714.173	27.11	21.23	1.82	28.69	21.47		HORIZONTAL	QP

Frequency (MHz)	Level @10m (dBuV/m)	Limit @3m (dBuV/m)	Convert Factor (dB)	Level @ 3m (dBuV/m)	Over limit (dB)	Remark
38.246	18.88	40.00	-10.46	29.34	-10.66	QP
60.704	11.39	40.00	-10.46	21.85	-18.15	QP
122.404	16.15	43.52	-10.46	26.61	-16.91	QP
161.474	14.29	43.52	-10.46	24.75	-18.77	QP
390.723	18.81	46.02	-10.46	29.27	-16.75	QP
714.173	21.47	46.02	-10.46	31.93	-14.09	QP

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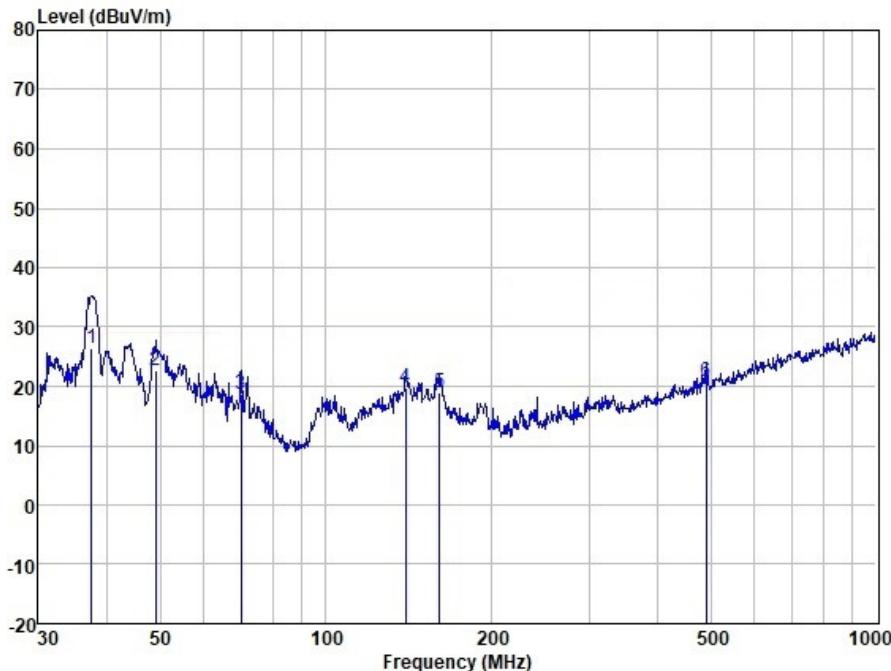
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Test Mode: 00; Polarity: Vertical



Site : SGS
 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	dB		
1	37.548	40.72	13.31	0.41	28.14	26.30			VERTICAL	QP
2	49.014	36.30	13.98	0.47	28.10	22.65			VERTICAL	QP
3	70.090	34.45	11.68	0.56	28.10	18.59			VERTICAL	QP
4	139.361	34.01	13.00	0.79	27.95	19.85			VERTICAL	QP
5	160.909	32.11	13.63	0.85	27.75	18.84			VERTICAL	QP
6	490.745	30.62	17.38	1.51	28.67	20.84			VERTICAL	QP

Frequency (MHz)	Level @10m (dBuV/m)	Limit @3m (dBuV/m)	Convert Factor (dB)	Level @ 3m (dBuV/m)	Over limit (dB)	Remark
37.548	26.30	40.00	-10.46	36.76	-3.24	QP
49.014	22.65	40.00	-10.46	33.11	-6.89	QP
70.09	18.59	40.00	-10.46	29.05	-10.95	QP
139.361	19.85	43.52	-10.46	30.31	-13.21	QP
160.909	18.84	43.52	-10.46	29.30	-14.22	QP
490.745	20.84	46.02	-10.46	31.30	-14.72	QP

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7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.4.1 E.U.T. Operation

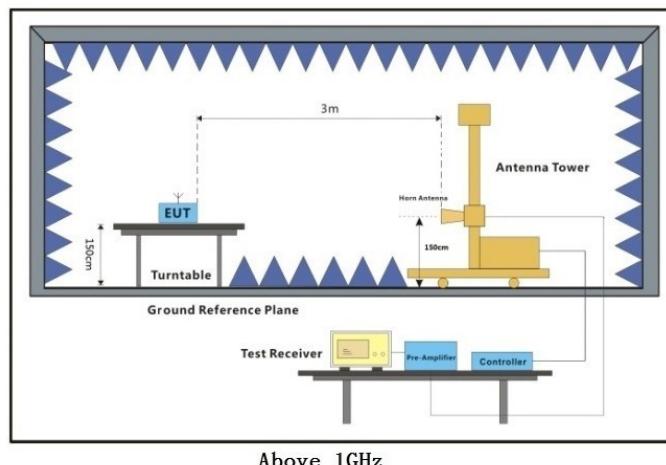
Operating Environment:

Temperature: 25.2 °C Humidity: 55.1 % RH Atmospheric Pressure: 1003 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-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 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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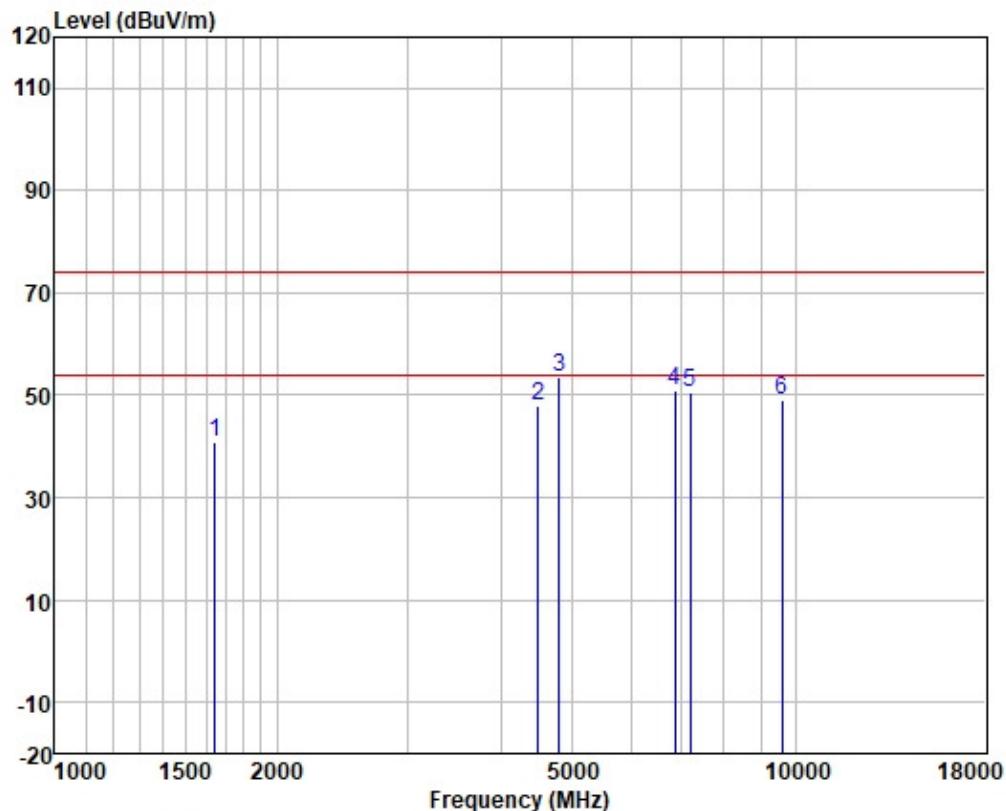
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Over	Remark
	Freq	Level	Factor	Loss					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	
1	1644.019	50.24	24.84	3.15	37.42	40.81	74.00	-33.19	VERTICAL peak
2	4495.125	44.75	34.17	5.81	36.63	48.10	74.00	-25.90	VERTICAL peak
3	4804.000	50.33	34.16	5.85	36.66	53.68	74.00	-20.32	VERTICAL peak
4	6874.906	45.58	34.88	7.46	36.87	51.05	74.00	-22.95	VERTICAL peak
5	7206.000	44.33	35.63	7.53	36.93	50.56	74.00	-23.44	VERTICAL peak
6	9608.000	38.99	38.68	8.10	36.82	48.95	74.00	-25.05	VERTICAL peak

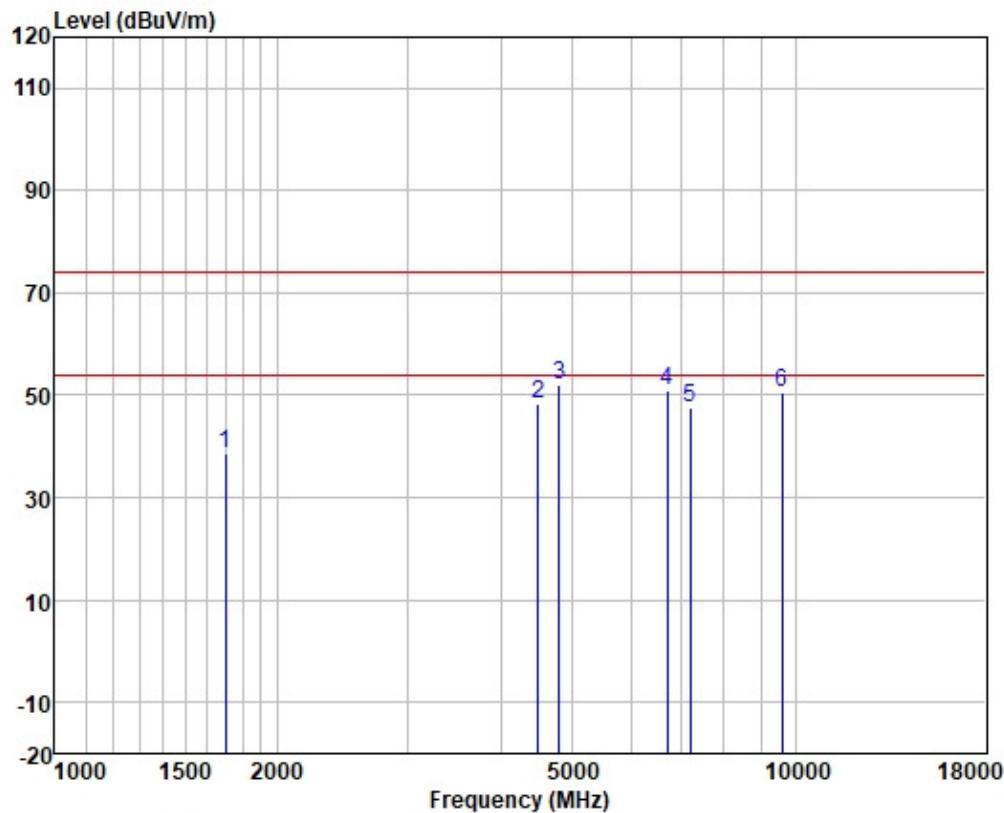
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Freq	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1702.042	47.67	25.15	3.18	37.39	38.61	74.00	-35.39 HORIZONTAL peak
2	4495.125	44.99	34.17	5.81	36.63	48.34	74.00	-25.66 HORIZONTAL peak
3	4804.000	48.73	34.16	5.85	36.66	52.08	74.00	-21.92 HORIZONTAL peak
4	6717.762	45.93	34.42	7.38	36.85	50.88	74.00	-23.12 HORIZONTAL peak
5	7206.000	41.51	35.63	7.53	36.93	47.74	74.00	-26.26 HORIZONTAL peak
6	9608.000	40.51	38.68	8.10	36.82	50.47	74.00	-23.53 HORIZONTAL peak

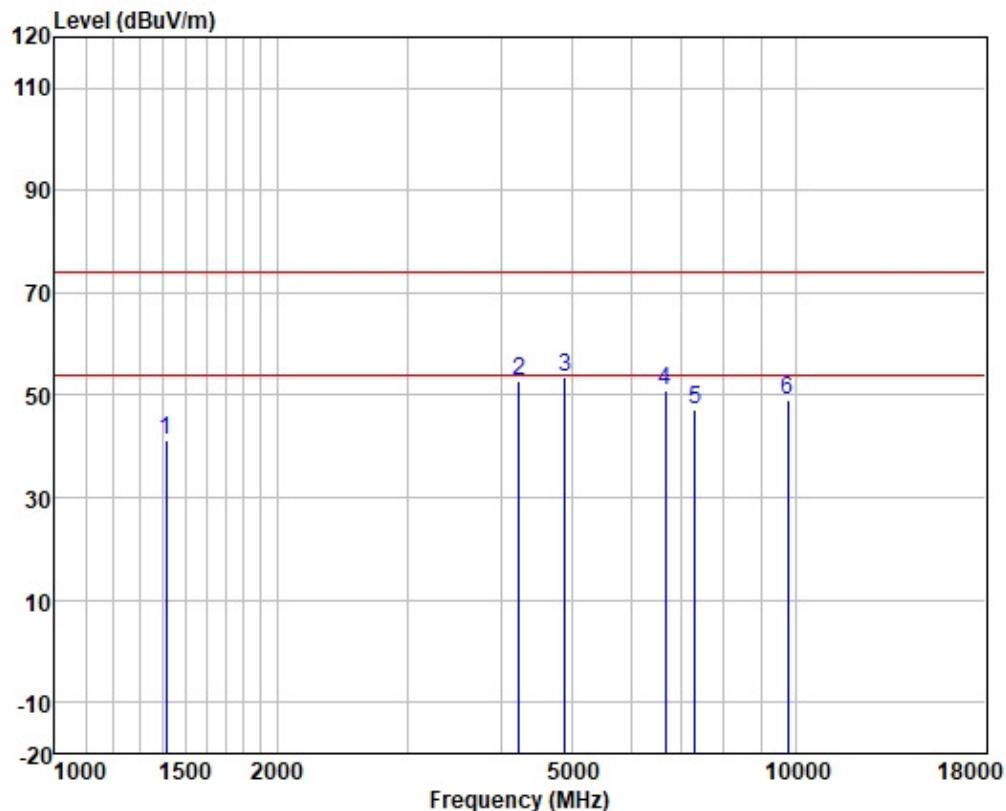
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Over	Remark
	Level	Factor	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	
1	1414.597	51.69	24.29	2.86	37.56	41.28	74.00	-32.72	VERTICAL peak
2	4230.396	51.33	32.24	5.76	36.61	52.72	74.00	-21.28	VERTICAL peak
3	4880.000	50.19	34.15	5.85	36.67	53.52	74.00	-20.48	VERTICAL peak
4	6679.040	45.97	34.28	7.35	36.85	50.75	74.00	-23.25	VERTICAL peak
5	7320.000	40.45	36.07	7.55	36.95	47.12	74.00	-26.88	VERTICAL peak
6	9760.000	39.01	38.81	8.17	36.81	49.18	74.00	-24.82	VERTICAL peak

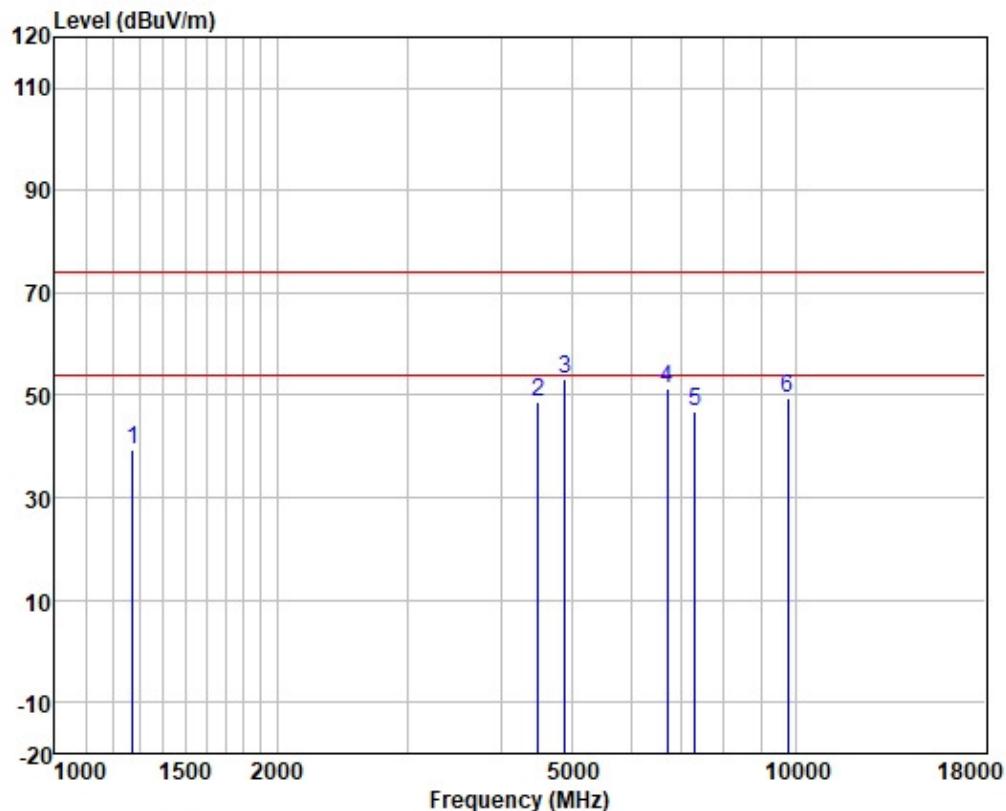
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1274.802	50.50	23.85	2.61	37.62	39.34	74.00	-34.66 HORIZONTAL peak
2	4495.125	45.31	34.17	5.81	36.63	48.66	74.00	-25.34 HORIZONTAL peak
3	4880.000	49.72	34.15	5.85	36.67	53.05	74.00	-20.95 HORIZONTAL peak
4	6717.762	46.34	34.42	7.38	36.85	51.29	74.00	-22.71 HORIZONTAL peak
5	7320.000	40.20	36.07	7.55	36.95	46.87	74.00	-27.13 HORIZONTAL peak
6	9760.000	39.17	38.81	8.17	36.81	49.34	74.00	-24.66 HORIZONTAL peak

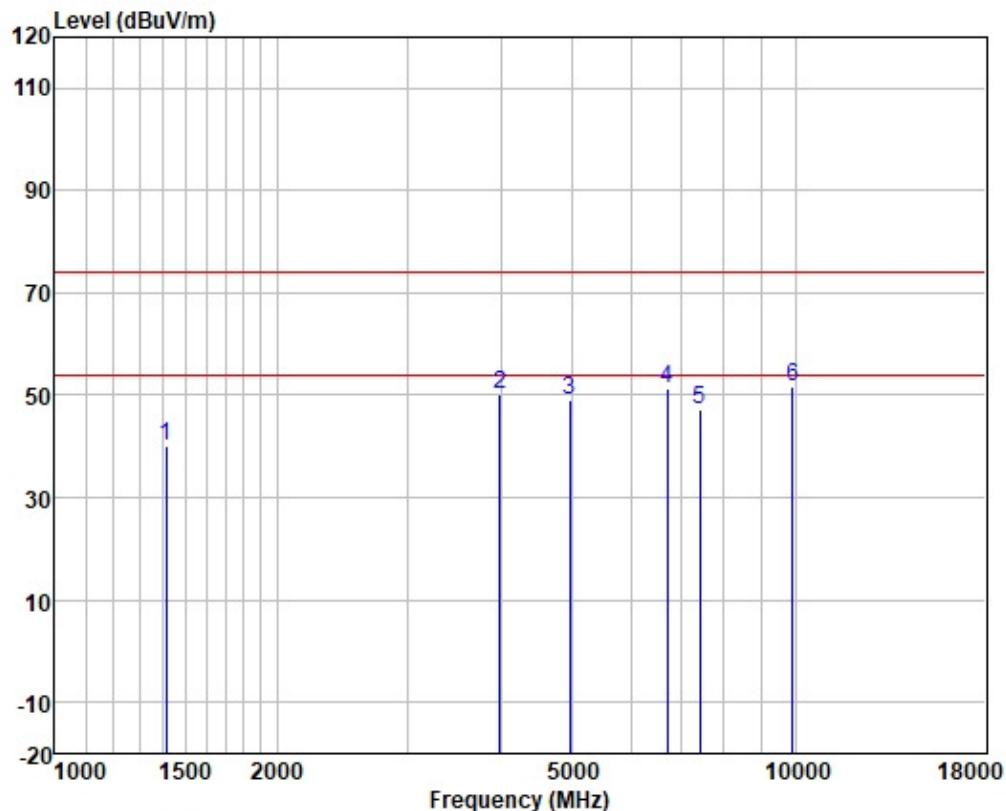
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Remark	
	Freq	Level	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1414.597	50.68	24.29	2.86	37.56	40.27	74.00	-33.73 VERTICAL peak
2	3992.781	50.42	30.59	5.73	36.60	50.14	74.00	-23.86 VERTICAL peak
3	4960.000	45.90	34.15	5.86	36.69	49.22	74.00	-24.78 VERTICAL peak
4	6717.762	46.20	34.42	7.38	36.85	51.15	74.00	-22.85 VERTICAL peak
5	7440.000	40.29	36.33	7.58	36.96	47.24	74.00	-26.76 VERTICAL peak
6	9920.000	41.21	38.95	8.23	36.80	51.59	74.00	-22.41 VERTICAL peak

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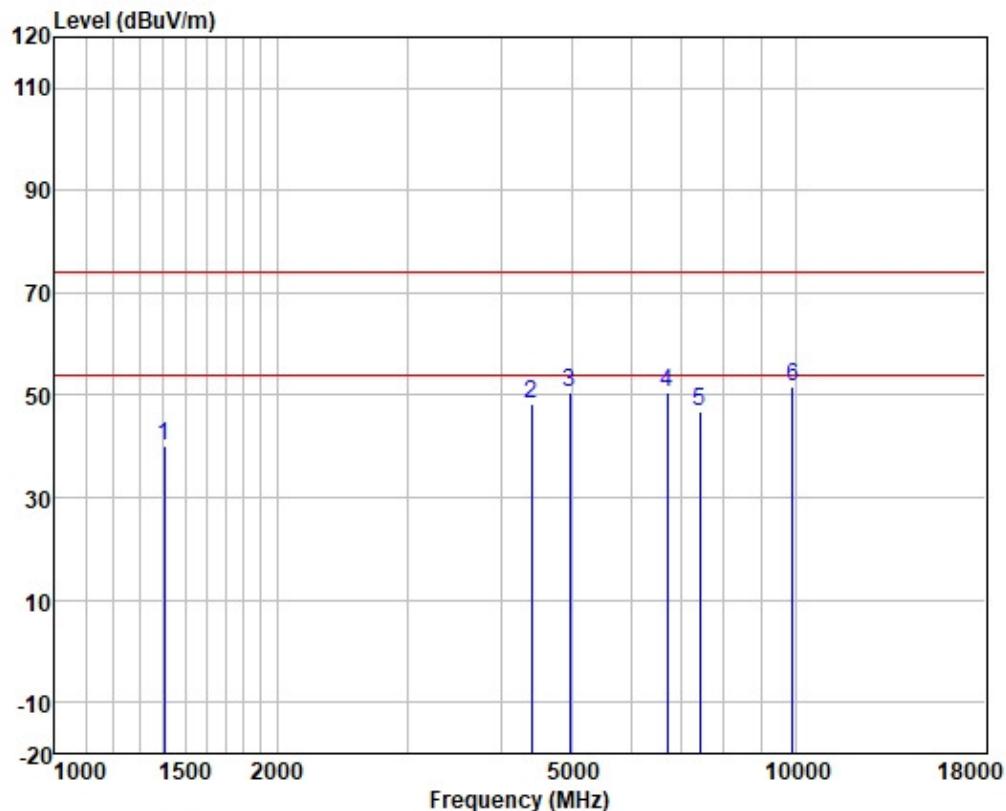
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Over	Remark
	Level	Factor	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m			
1	1406.443	50.43	24.27	2.83	37.56	39.97	74.00	-34.03	HORIZONTAL peak
2	4405.090	45.39	33.74	5.78	36.62	48.29	74.00	-25.71	HORIZONTAL peak
3	4960.000	47.36	34.15	5.86	36.69	50.68	74.00	-23.32	HORIZONTAL peak
4	6717.762	45.43	34.42	7.38	36.85	50.38	74.00	-23.62	HORIZONTAL peak
5	7440.000	39.89	36.33	7.58	36.96	46.84	74.00	-27.16	HORIZONTAL peak
6	9920.000	41.12	38.95	8.23	36.80	51.50	74.00	-22.50	HORIZONTAL peak

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7.5 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C

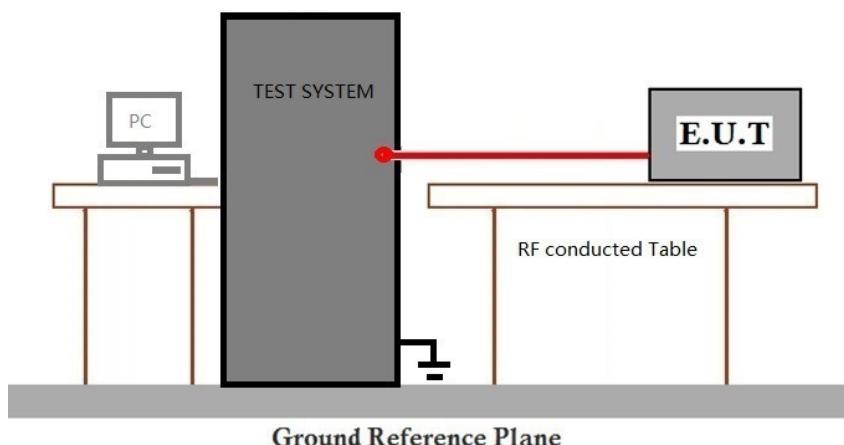
Humidity: 63.5 % RH

Atmospheric Pressure: 1003 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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7.6 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥ 500 kHz

7.6.1 E.U.T. Operation

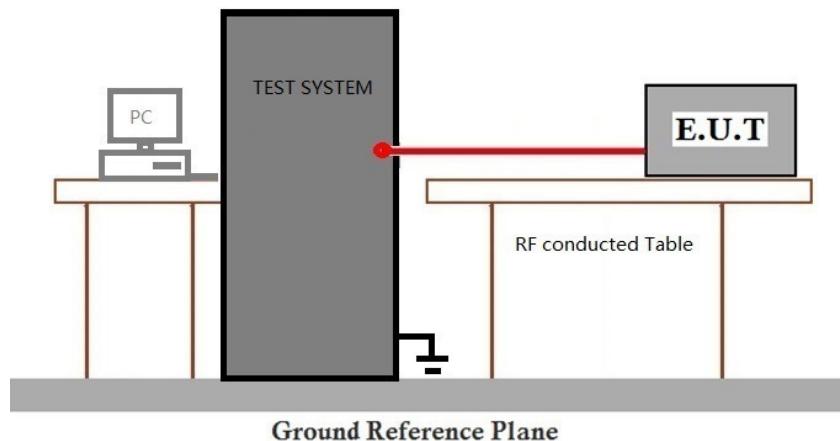
Operating Environment:

Temperature: 22.6 °C Humidity: 63.5 % RH Atmospheric Pressure: 1003 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.7 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.7.1 E.U.T. Operation

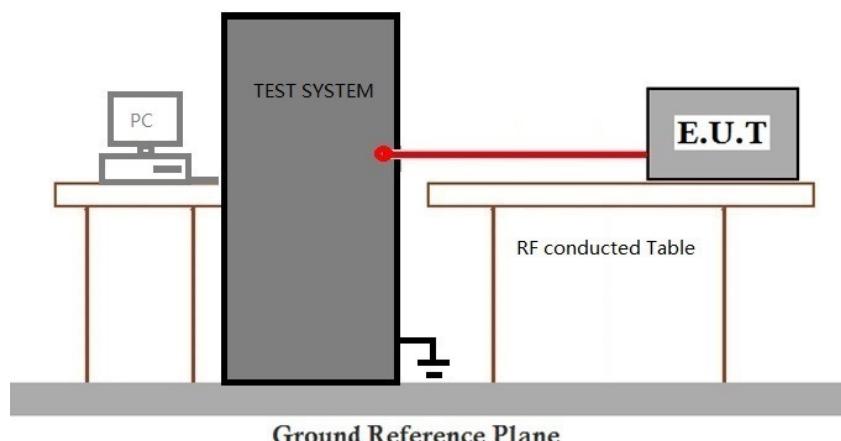
Operating Environment:

Temperature: 22.6 °C Humidity: 63.5 % RH Atmospheric Pressure: 1003 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.8.1 E.U.T. Operation

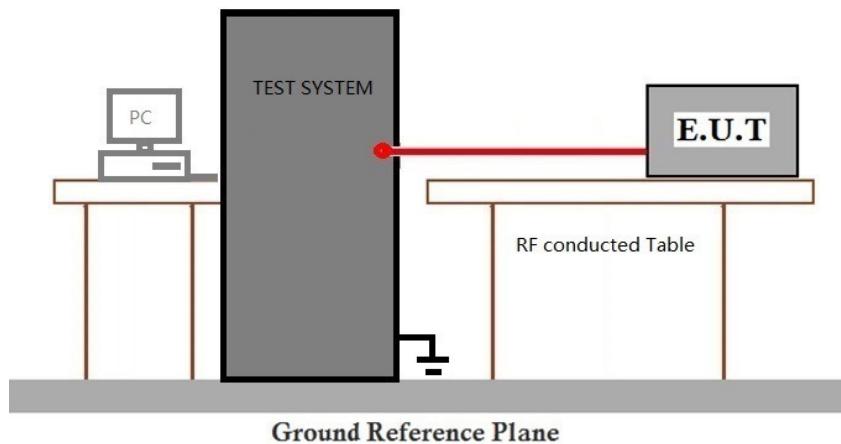
Operating Environment:

Temperature: 22.6 °C Humidity: 63.5 % RH Atmospheric Pressure: 1003 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.9 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.9.1 E.U.T. Operation

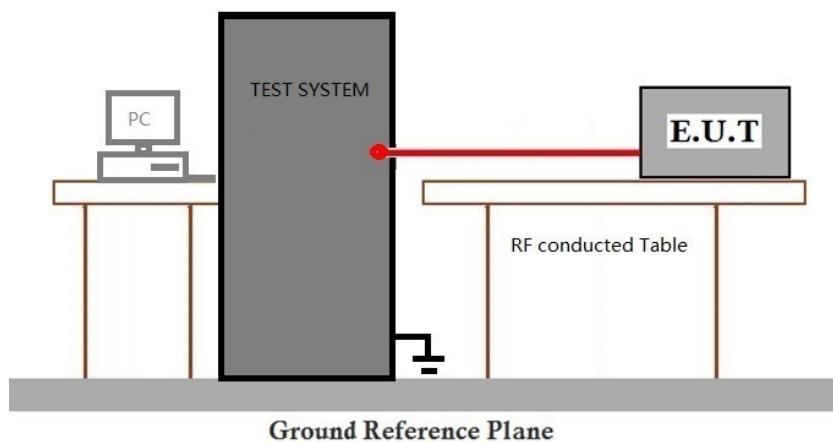
Operating Environment:

Temperature: 22.6 °C Humidity: 63.5 % RH Atmospheric Pressure: 1003 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR240500056101



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2405000561MD



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