

# TEST REPORT

**Application No.:** GZCR2410001225HS  
**Applicant:** Echelon Fitness Multimedia, LLC  
**Address of Applicant:** 605 Chestnut Street, Suite 700, Chattanooga, TN 37450  
**Manufacturer:** Echelon Fitness Multimedia, LLC  
**Address of Manufacturer:** 605 Chestnut Street, Suite 700, Chattanooga, TN 37450  
**Factory:** OMA Fitness Equipment Co., Ltd  
**Address of Factory:** 93 Tai An Road South, Yang'e Village, Lunjiao Town, Shunde, Foshan, 528000, Guangdong, China  
**Product Name:** Summit Stairmill  
**Model No.:** ECH-SC-HM  
**Trade Mark:** Echelon  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2024-06-26  
**Date of Test:** 2024-08-06 to 2024-09-20  
**Date of Issue:** 2024-09-24

**Test Result:****Pass\***

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



Ricky Liu  
Manager



Revision Record			
Version	Report No.	Date	Remark
01	GZCR241000122503	2024-09-24	Original

Authorized for issue by:				
		Luke Lin		
		Luke Lin/Project Engineer		
		Vico Cui		
		Vico Cui/Reviewer		

## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	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

**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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## 4 General Information

### 4.1 Details of E.U.T.

Power supply: AC 120V 60Hz  
 Test voltage: AC 120V 60Hz  
 Cable(s): AC mains, 3 wires, 2.0m, unshielded.  
 Operation Frequency: 2402MHz to 2480MHz  
 Bluetooth Version: V4.2 LE  
 Modulation Type: GFSK  
 Number of Channels: 40  
 Channel Spacing: 2MHz  
 Antenna Type: Integral Antenna  
 Antenna Gain: -3.03 dBi 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.
Mobile Phone	SAMSUNG	GT-I9500	RV1D82X8W9X



### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±3.22dB
Radiated Emissions which fall in the restricted bands	±5.14dB (3m); ±4.90dB (10m); ±4.88dB (1GHz-6GHz); ±5.06dB (6GHz-18GHz); ±5.30dB (18GHz-40GHz)
Radiated Spurious Emissions Below 1GHz	±3.08dB (9kHz to 150kHz); ±3.19dB (150kHz to 30MHz); ±5.14dB (30MHz-1GHz) (3m); ±4.90dB (30MHz-1GHz) (10m)
Radiated Spurious Emissions Above 1GHz	±4.88dB (1GHz-6GHz); ±5.06dB (6GHz-18GHz); ±5.30dB (18GHz-40GHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 0.274%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
<p>Remark:</p> <p>The <math>U_{lab}</math> (lab Uncertainty) is less than <math>U_{CISPR}</math> (CISPR Uncertainty) or <math>U_{ETSI}</math> (ETSI Uncertainty).</p> <p>Emission decision rule:</p> <ul style="list-style-type: none"> <li>– Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.</li> <li>– Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.</li> </ul>	

### 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:

### ● 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	2023-08-24	2025-08-23
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	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	2024-05-13	2025-05-12
Test Software E3r	Audix	Ver.6.191211	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	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
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	2024-08-19	2025-08-18
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

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2022-04-12	2025-04-11
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-02-19	2025-02-18
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-03-22	2025-03-21
TRILOG Broadband Antenna (25M-2GHz)	SCHWRZBECK	VULB 9168	EMC2238	2022-04-20	2025-04-19
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2023-06-14	2025-06-13
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-08	2026-04-07



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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	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
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	2024-08-19	2025-08-18
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	EMC2137	2023-11-02	2025-11-01
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2024-08-19	2025-08-18
Test Software	TST	V2.0	GZE100-78	N/A	N/A
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18

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 -3.03 dBi.

Antenna location: Refer to internal photo.

## 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 (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

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.8 °C

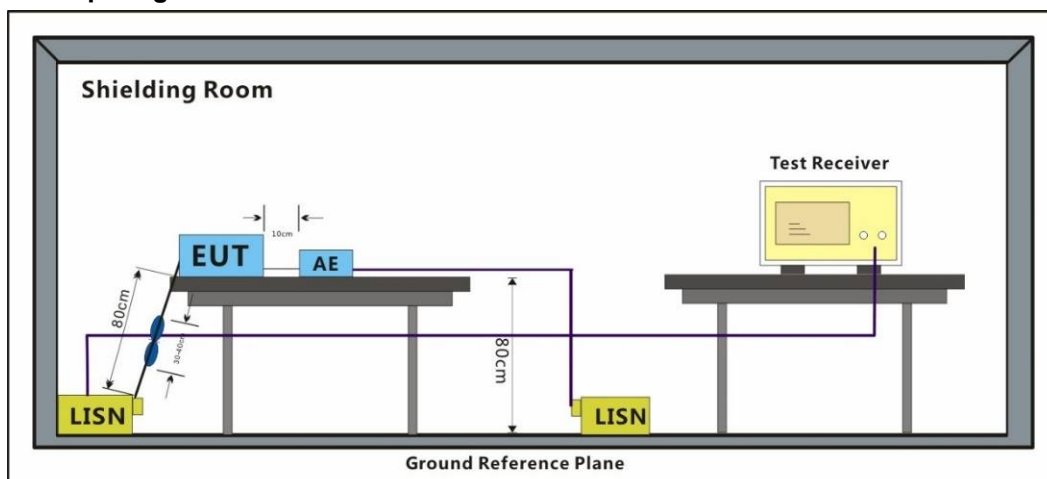
Humidity: 55.3 % RH

Atmospheric Pressure: 1005 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.1.3 Test Setup Diagram





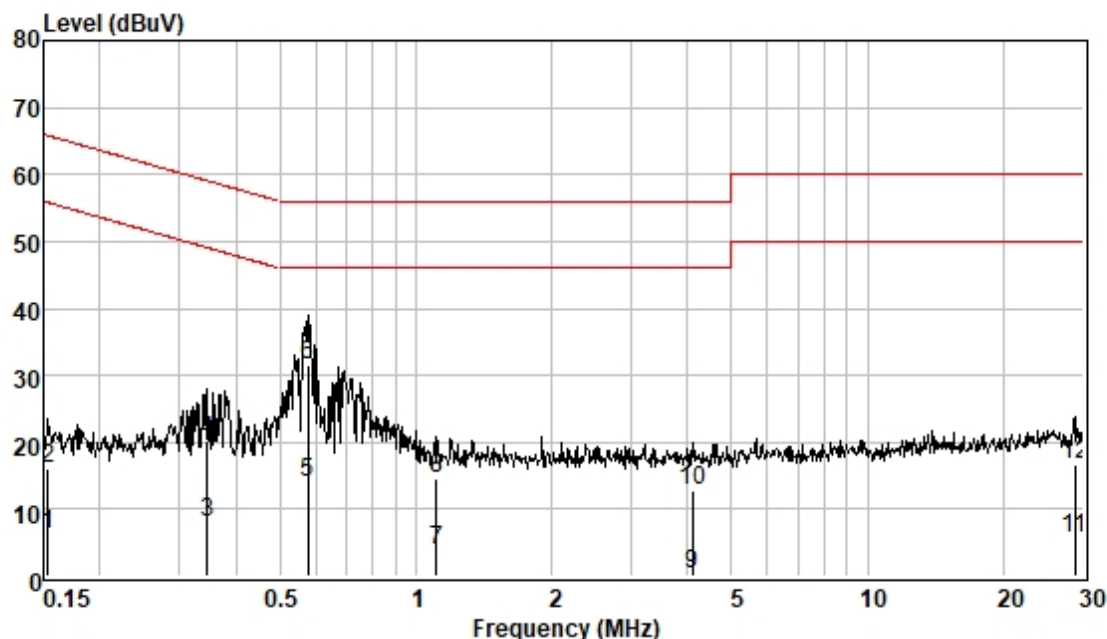
## 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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



Test Mode: 00; Line: Live line

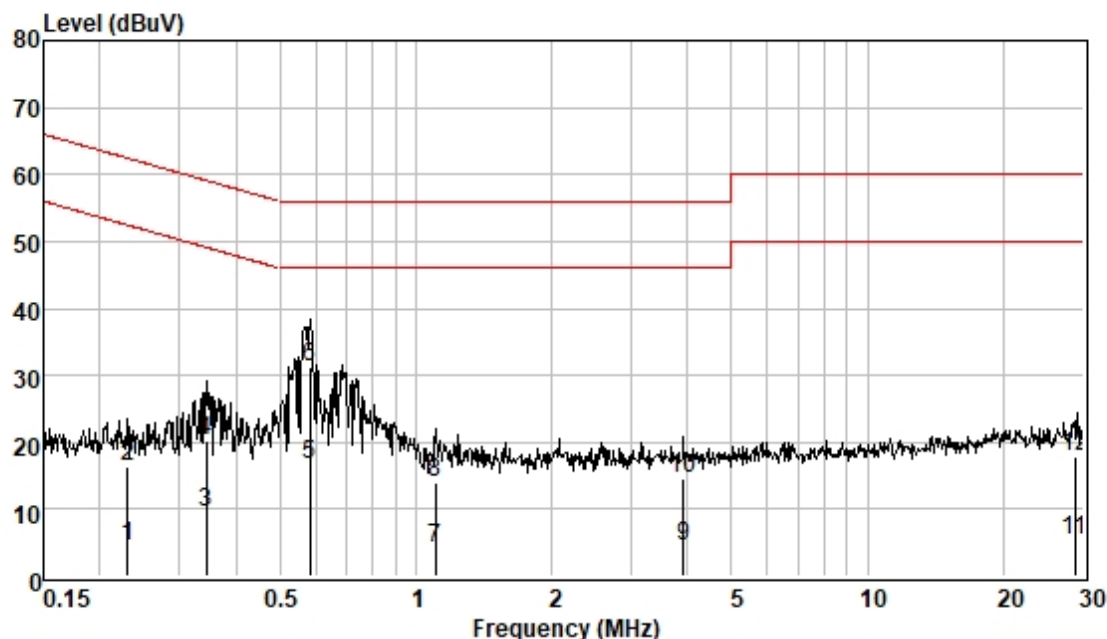


Pol :LINE  
Mode :RT  
Model :M1(TL03EB)  
Power :

	Frequeunc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.153	-3.30	0.04	9.55	6.29	55.82	-49.53	Average
2	0.153	6.54	0.04	9.55	16.13	65.82	-49.69	QP
3	0.346	-1.58	0.05	9.57	8.04	49.05	-41.01	Average
4	0.346	10.70	0.05	9.57	20.32	59.05	-38.73	QP
5	0.576	4.31	0.05	9.57	13.93	46.00	-32.07	Average
6	0.576	21.88	0.05	9.57	31.50	56.00	-24.50	QP
7	1.111	-5.63	0.08	9.56	4.01	46.00	-41.99	Average
8	1.111	4.94	0.08	9.56	14.58	56.00	-41.42	QP
9	4.092	-9.38	0.18	9.60	0.40	46.00	-45.60	Average
10	4.092	2.96	0.18	9.60	12.74	56.00	-43.26	QP
11	28.755	-4.82	0.45	9.88	5.51	50.00	-44.49	Average
12	28.755	6.26	0.45	9.88	16.59	60.00	-43.41	QP



Test Mode: 00; Line: Neutral Line



Pol : NEUTRAL  
Mode : RT  
Model : M1(TL03EB)  
Power :

	Frequency MHz	Read Level dBUV	Cable Loss dB	LISN Factor dB	Measured Level dBUV	Limit Line dBUV	Over Limit dB	Remark
1	0.230	-5.24	0.04	9.53	4.33	52.44	-48.11	Average
2	0.230	6.75	0.04	9.53	16.32	62.44	-46.12	QP
3	0.345	-0.18	0.05	9.54	9.41	49.09	-39.68	Average
4	0.345	10.68	0.05	9.54	20.27	59.09	-38.82	QP
5	0.582	7.07	0.05	9.55	16.67	46.00	-29.33	Average
6	0.582	21.50	0.05	9.55	31.10	56.00	-24.90	QP
7	1.106	-5.36	0.08	9.55	4.27	46.00	-41.73	Average
8	1.106	4.38	0.08	9.55	14.01	56.00	-41.99	QP
9	3.901	-5.30	0.18	9.59	4.47	46.00	-41.53	Average
10	3.901	4.74	0.18	9.59	14.51	56.00	-41.49	QP
11	28.755	-5.15	0.45	10.01	5.31	50.00	-44.69	Average
12	28.755	7.42	0.45	10.01	17.88	60.00	-42.12	QP



## 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: 25.6 °C Humidity: 51.0 % RH Atmospheric Pressure: 1004 mbar

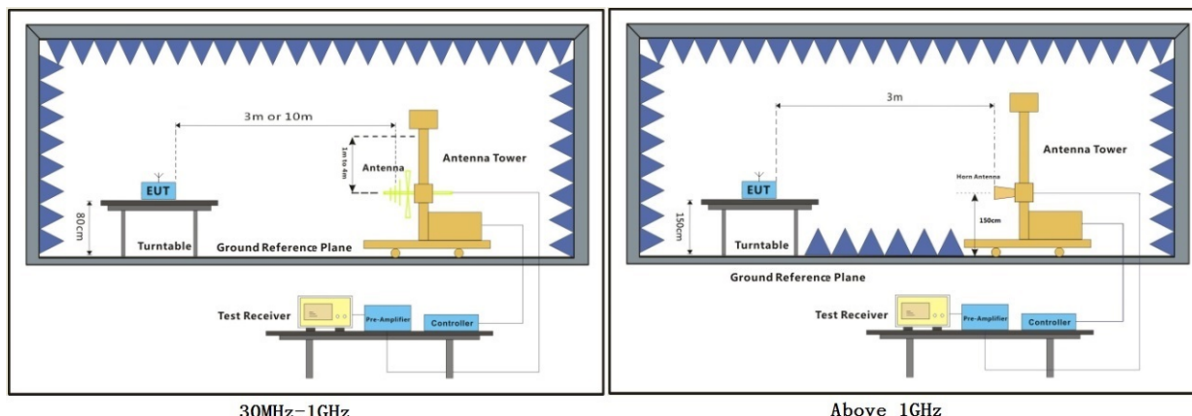
### 7.2.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.





### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

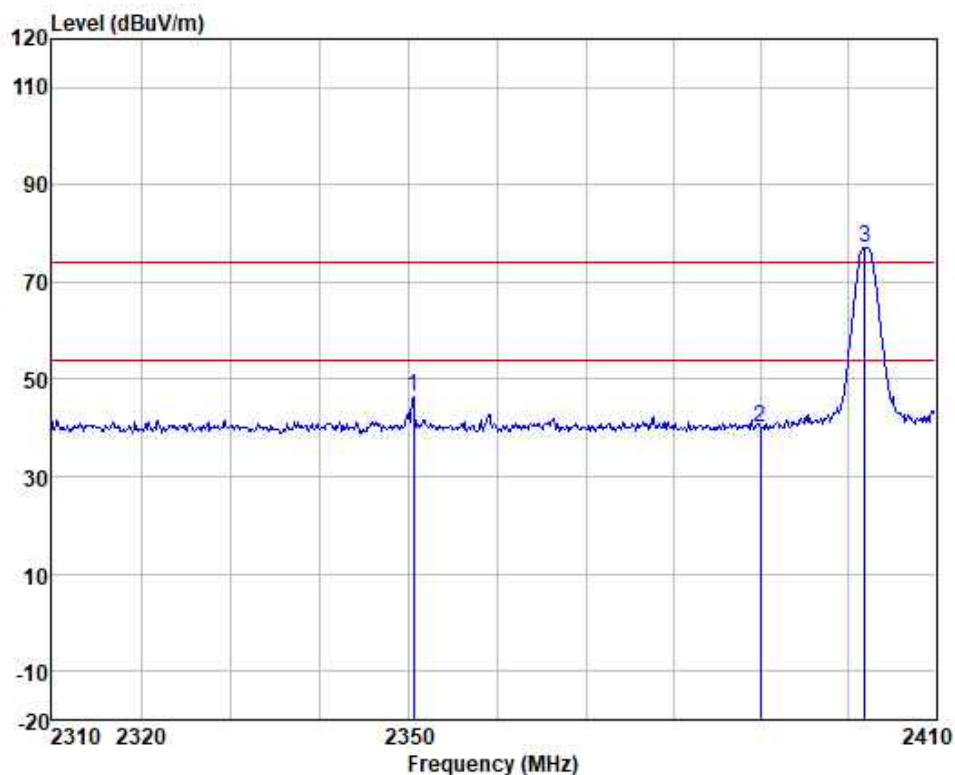
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the Highest channel.
- 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.
- 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.



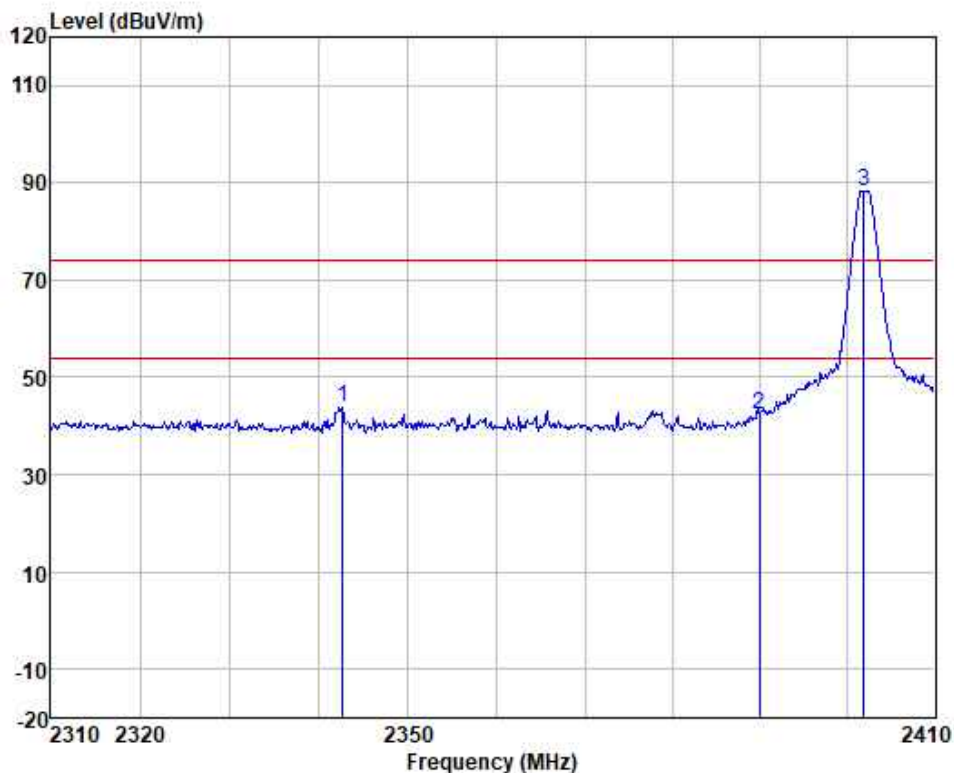
Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: Low



	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	dBuV/m	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2350.488	52.65	27.61	3.42	37.23	46.45	74.00	-27.55	VERTICAL	peak
2	2390.000	46.36	27.68	3.44	37.21	40.27	74.00	-33.73	VERTICAL	peak
3 *	2402.000	83.01	27.71	3.45	37.21	76.96	74.00	2.96	VERTICAL	peak



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

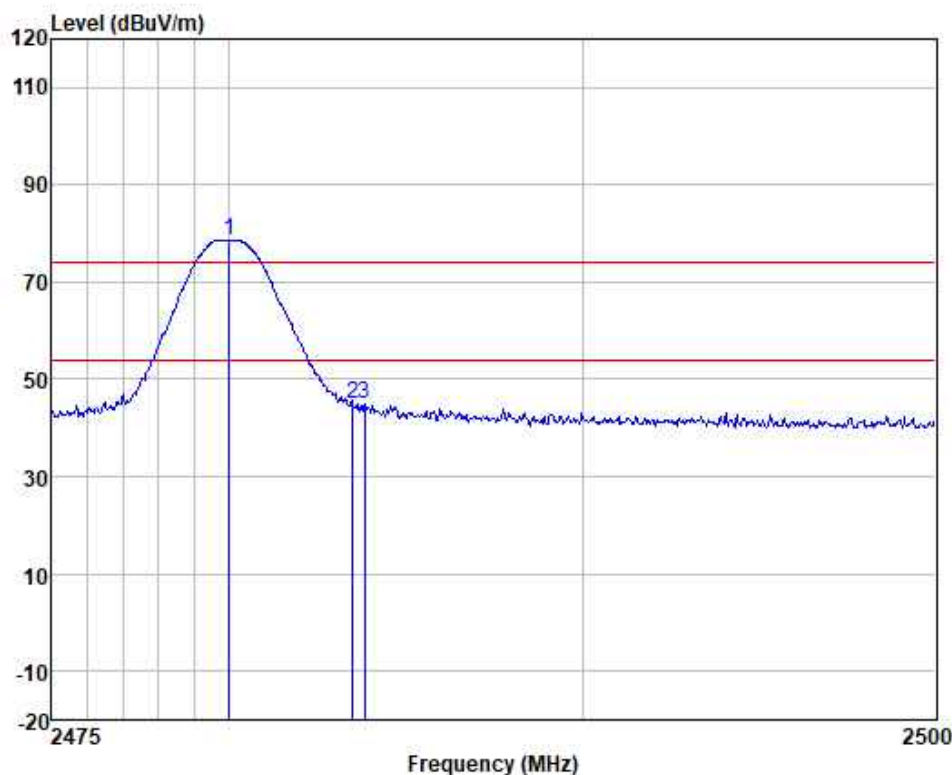


	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2342.632	50.16	27.59	3.42	37.23	43.94	74.00	-30.06	HORIZONTAL peak
2	2390.000	48.38	27.68	3.44	37.21	42.29	74.00	-31.71	HORIZONTAL peak
3 *	2402.000	94.49	27.71	3.45	37.21	88.44	74.00	14.44	HORIZONTAL peak





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

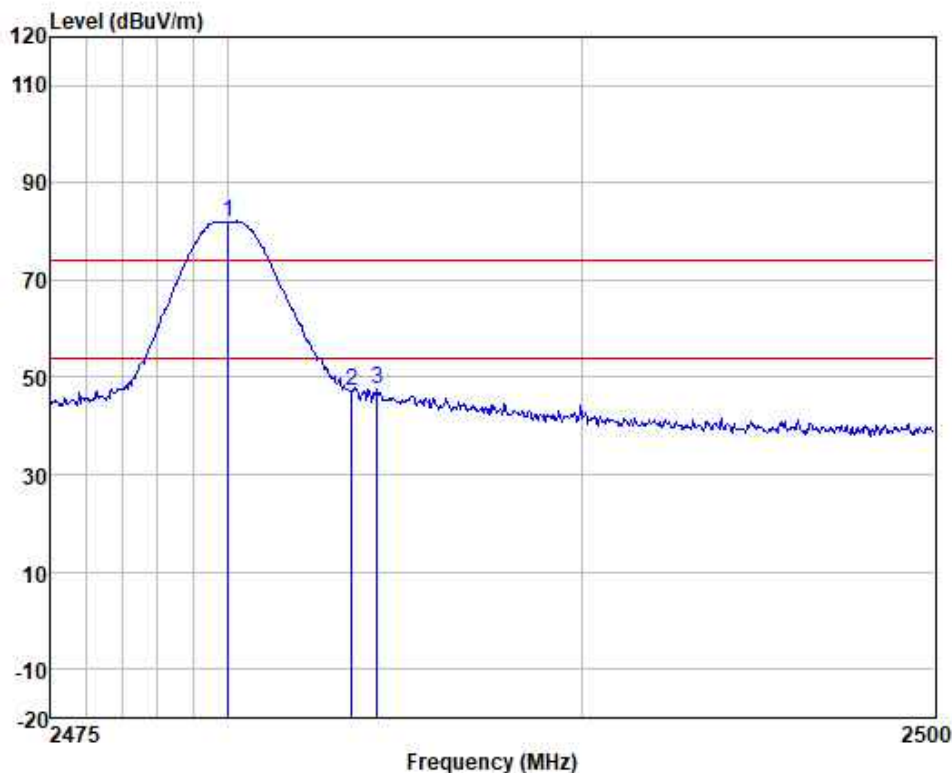


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2480.000	84.38	27.84	3.48	37.19	78.51	74.00	4.51	VERTICAL	peak
2	2483.500	50.79	27.85	3.49	37.19	44.94	74.00	-29.06	VERTICAL	peak
3	2483.821	50.96	27.85	3.49	37.19	45.11	74.00	-28.89	VERTICAL	peak





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



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2480.000	87.82	27.84	3.48	37.19	81.95	74.00	7.95	HORIZONTAL peak
2	2483.500	53.11	27.85	3.49	37.19	47.26	74.00	-26.74	HORIZONTAL peak
3	2484.221	53.31	27.85	3.49	37.19	47.46	74.00	-26.54	HORIZONTAL peak



### 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: 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
960-1000	500	3

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

Humidity: 52.2 % RH

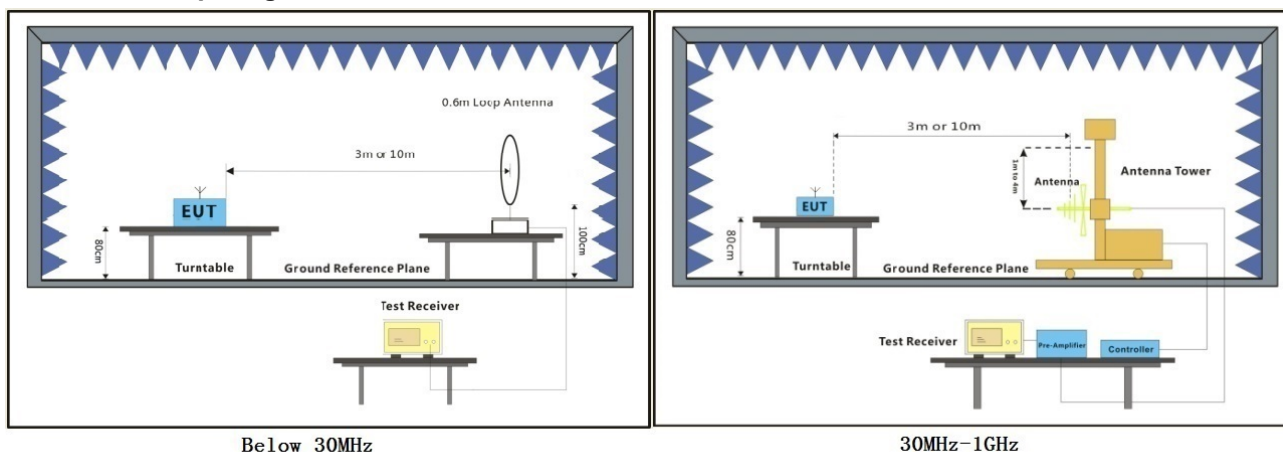
Atmospheric Pressure: 1005 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Mode  
Final test Code Description

Final test 00 TX mode(1Mbps)\_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.3.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz

## 7.3.4 Measurement Procedure and Data

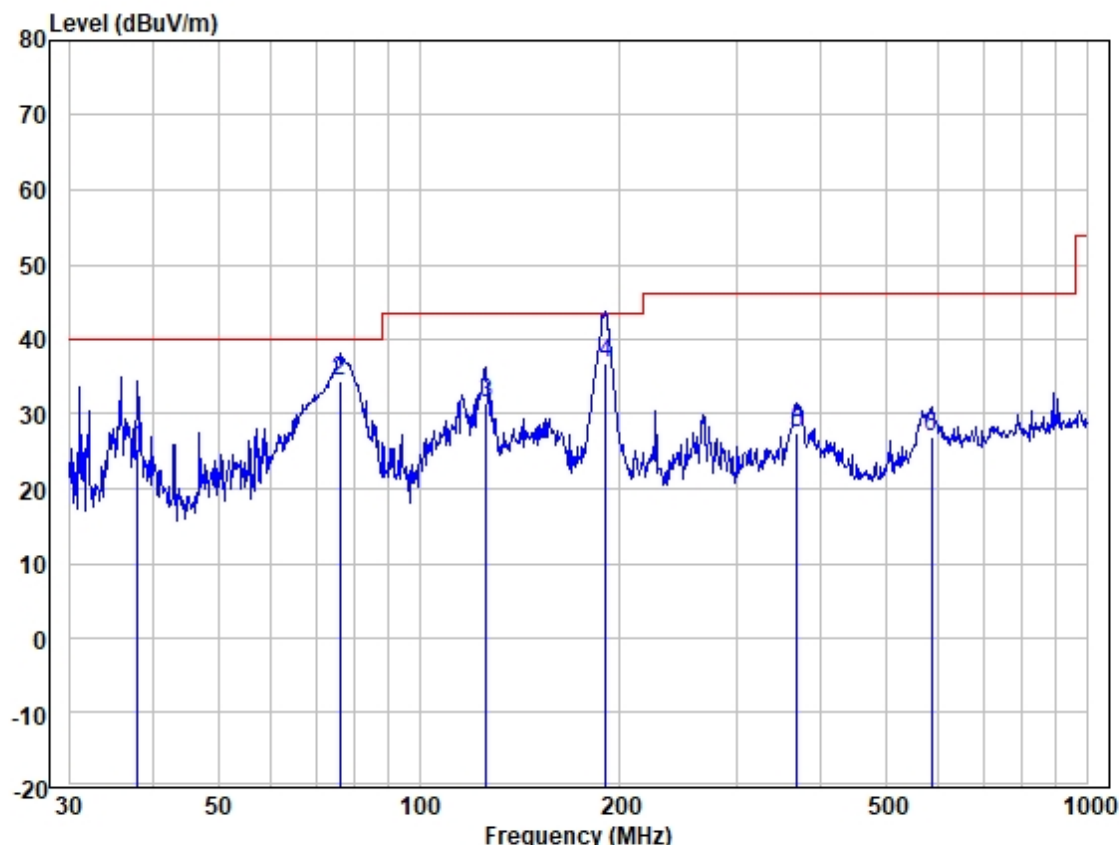
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, 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.



Test Mode: 00; Polarity: Horizontal



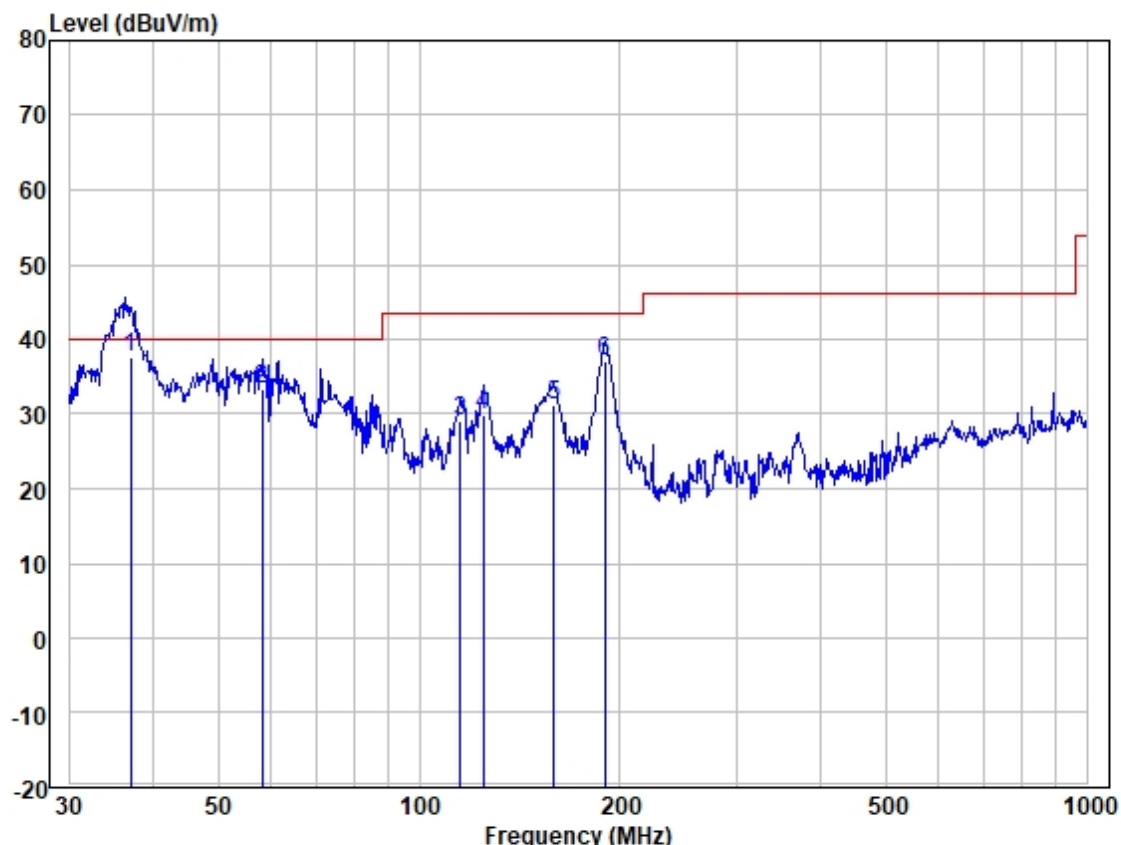
Site : 966 Chamber  
Job :  
Model : TL03EB  
Power :  
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	37.945	39.23	18.73	0.34	32.86	25.44	40.00	-14.56	HORIZONTAL	QP
2	75.977	50.61	16.07	0.48	32.84	34.32	40.00	-5.68	HORIZONTAL	QP
3	125.886	45.78	17.76	0.61	32.81	31.34	43.52	-12.18	HORIZONTAL	QP
4	190.405	52.60	16.32	0.77	32.84	36.85	43.52	-6.67	HORIZONTAL	QP
5	368.112	38.70	20.65	1.12	32.90	27.57	46.02	-18.45	HORIZONTAL	QP
6	584.790	33.19	25.32	1.42	32.91	27.02	46.02	-19.00	HORIZONTAL	QP





Test Mode: 00; Polarity: Vertical



Site : 966 Chamber  
Job :  
Model : TL03EB  
Power :  
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	37.013	51.50	18.59	0.34	32.86	37.57	40.00	-2.43	VERTICAL	QP
2	58.203	46.89	18.99	0.41	32.87	33.42	40.00	-6.58	VERTICAL	QP
3	115.321	44.64	16.72	0.59	32.80	29.15	43.52	-14.37	VERTICAL	QP
4	124.569	44.57	17.60	0.61	32.81	29.97	43.52	-13.55	VERTICAL	QP
5	159.225	44.24	19.20	0.70	32.83	31.31	43.52	-12.21	VERTICAL	QP
6	189.739	52.70	16.32	0.77	32.84	36.95	43.52	-6.57	VERTICAL	QP



### 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: 25.6 °C

Humidity: 51.0 % RH

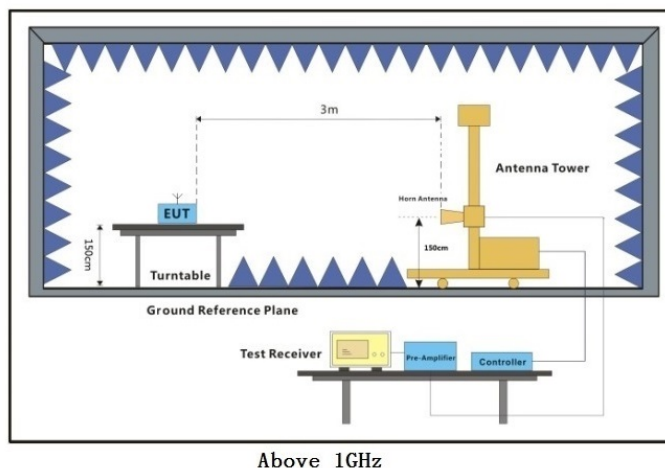
Atmospheric Pressure: 1004 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Mode Description  
Final test Code

Final test 00 TX mode(1Mbps)\_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.4.3 Test Setup Diagram



## 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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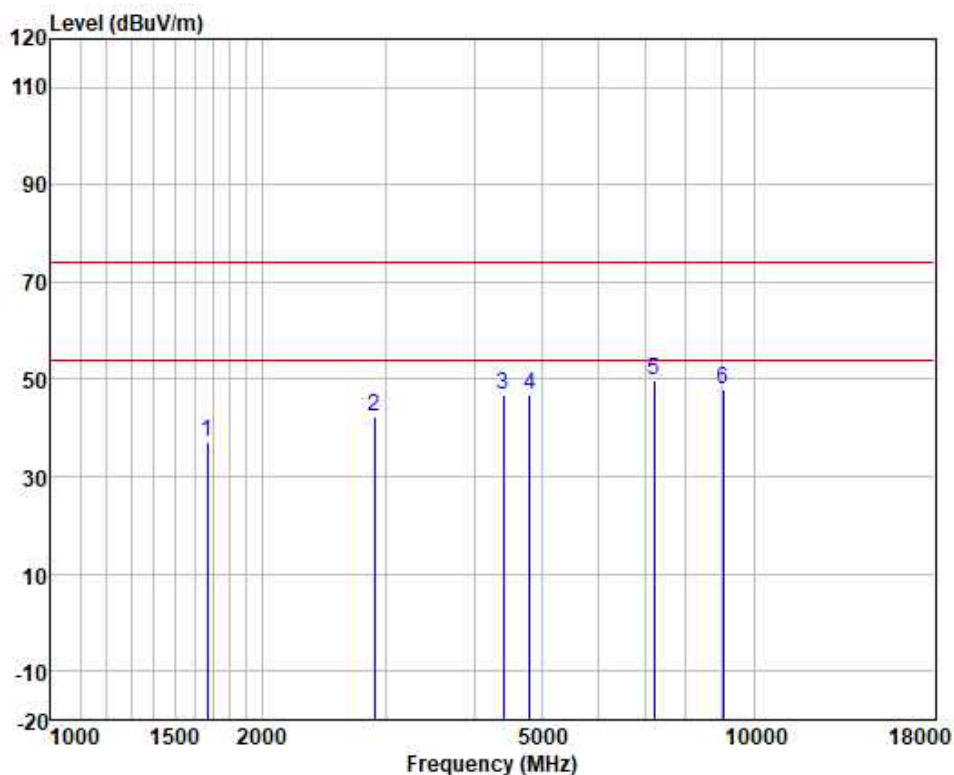
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t (86-20) 82155555 www.sgsgroup.com.cn  
t (86-20) 82155555 sgs.china@sgs.com

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

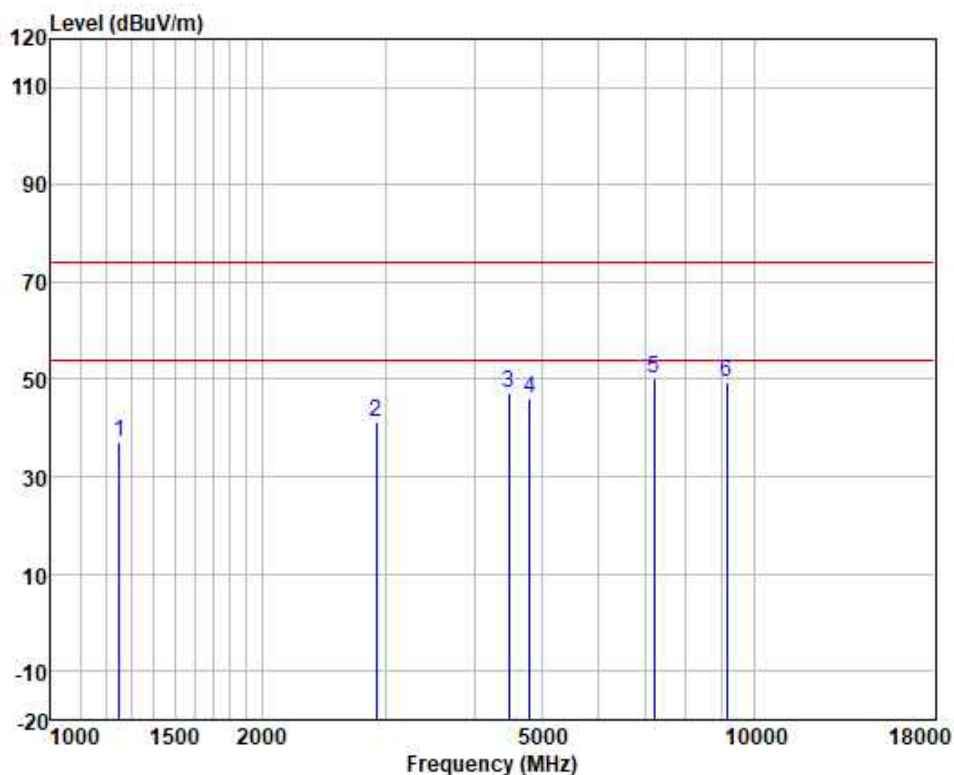


	Freq	ReadAntenna		Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1672.779	46.88	24.98	2.82	37.41	37.27	74.00	-36.73	VERTICAL	peak
2	2888.584	46.84	28.58	3.77	37.02	42.17	74.00	-31.83	VERTICAL	peak
3	4405.090	45.26	33.74	4.61	36.62	46.99	74.00	-27.01	VERTICAL	peak
4	4804.000	44.35	34.16	4.81	36.66	46.66	74.00	-27.34	VERTICAL	peak
5	7206.000	45.30	35.63	5.93	36.93	49.93	74.00	-24.07	VERTICAL	peak
6	9047.272	40.64	37.67	6.60	36.89	48.02	74.00	-25.98	VERTICAL	peak





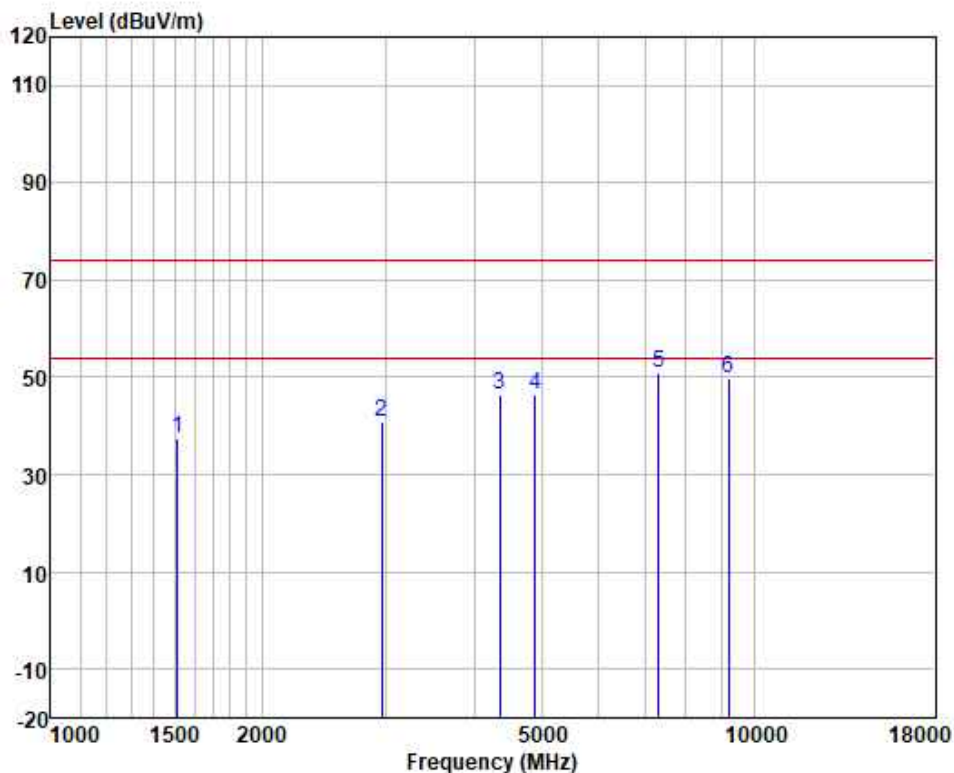
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



	Freq	ReadAntenna	Cable Preamp	Limit	Over					
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1252.885	48.36	23.71	2.52	37.63	36.96	74.00	-37.04	HORIZONTAL	peak
2	2905.331	45.76	28.59	3.78	37.01	41.12	74.00	-32.88	HORIZONTAL	peak
3	4482.150	45.22	34.12	4.62	36.63	47.33	74.00	-26.67	HORIZONTAL	peak
4	4804.000	43.91	34.16	4.81	36.66	46.22	74.00	-27.78	HORIZONTAL	peak
5	7206.000	45.39	35.63	5.93	36.93	50.02	74.00	-23.98	HORIZONTAL	peak
6	9152.479	41.65	37.85	6.68	36.87	49.31	74.00	-24.69	HORIZONTAL	peak



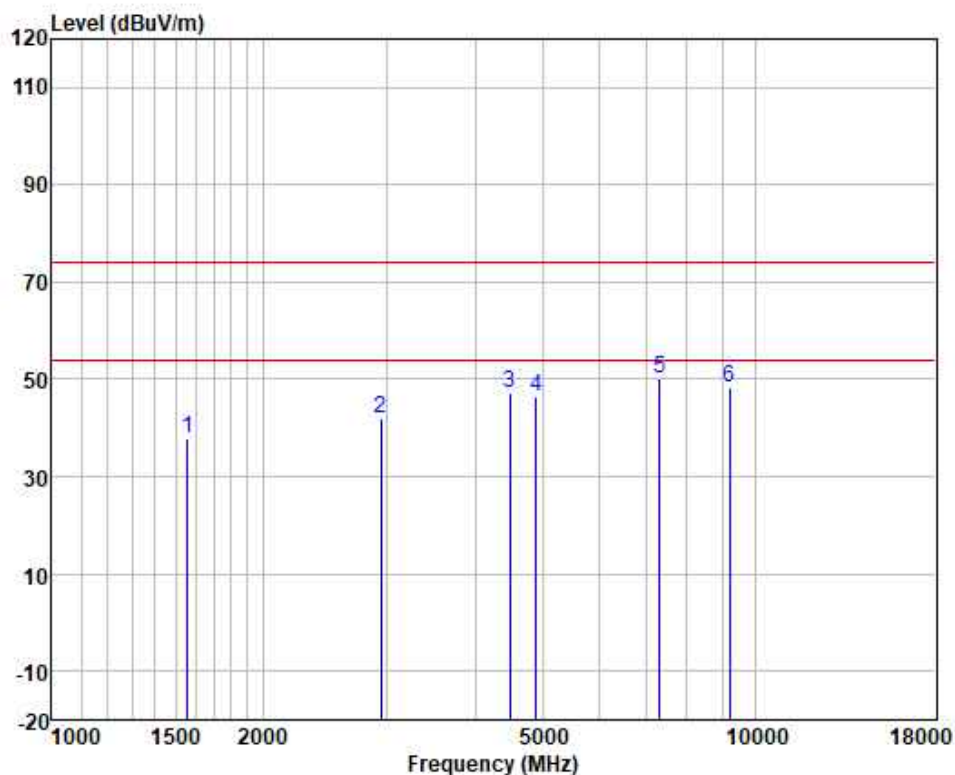
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1516.210	47.88	24.47	2.71	37.50	37.56	74.00	-36.44	VERTICAL	peak
2	2956.155	45.47	28.64	3.80	36.97	40.94	74.00	-33.06	VERTICAL	peak
3	4354.454	45.17	33.43	4.60	36.62	46.58	74.00	-27.42	VERTICAL	peak
4	4880.000	44.08	34.15	4.85	36.67	46.41	74.00	-27.59	VERTICAL	peak
5	7320.000	45.68	36.07	5.98	36.95	50.78	74.00	-23.22	VERTICAL	peak
6	9205.540	41.81	37.97	6.73	36.86	49.65	74.00	-24.35	VERTICAL	peak



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

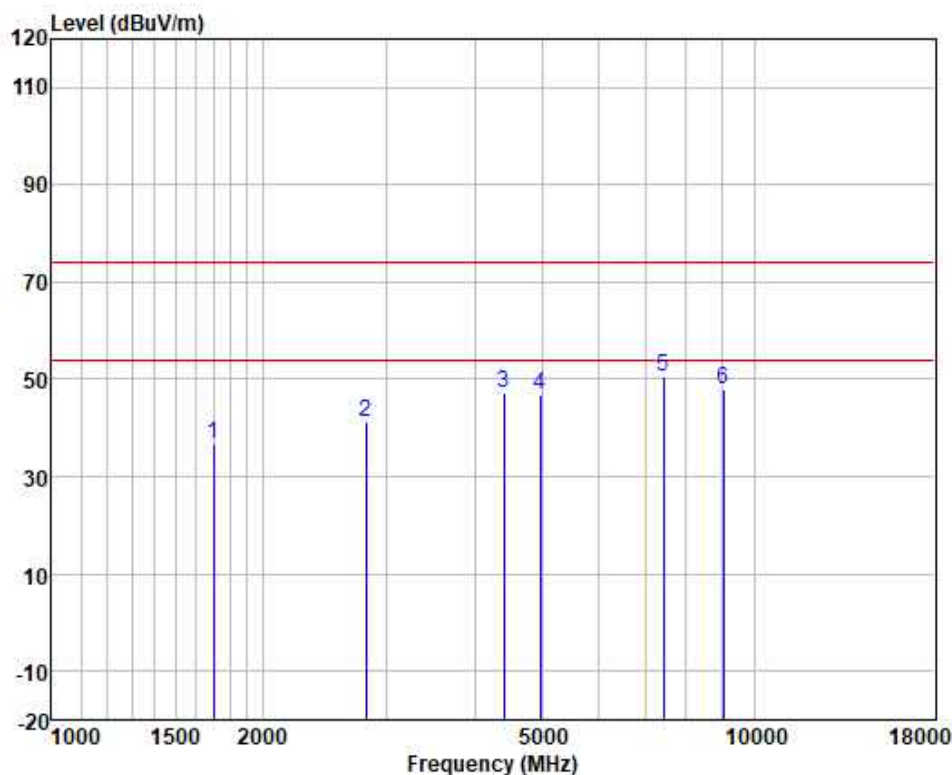


	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1560.673	47.99	24.57	2.73	37.47	37.82	74.00	-36.18	HORIZONTAL	peak
2	2939.115	46.68	28.63	3.79	36.99	42.11	74.00	-31.89	HORIZONTAL	peak
3	4482.150	44.90	34.12	4.62	36.63	47.01	74.00	-26.99	HORIZONTAL	peak
4	4880.000	44.18	34.15	4.85	36.67	46.51	74.00	-27.49	HORIZONTAL	peak
5	7320.000	44.94	36.07	5.98	36.95	50.04	74.00	-23.96	HORIZONTAL	peak
6	9205.540	40.39	37.97	6.73	36.86	48.23	74.00	-25.77	HORIZONTAL	peak





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

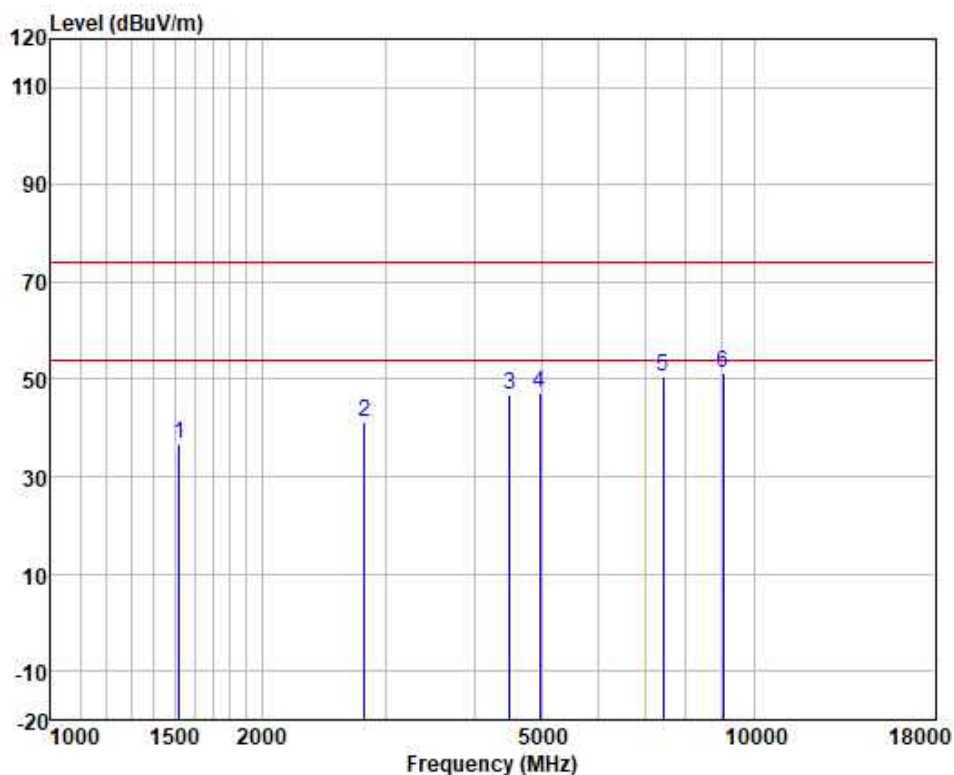


	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1702.042	46.16	25.15	2.85	37.39	36.77	74.00	-37.23	VERTICAL	peak
2	2806.288	45.98	28.46	3.72	37.07	41.09	74.00	-32.91	VERTICAL	peak
3	4405.090	45.42	33.74	4.61	36.62	47.15	74.00	-26.85	VERTICAL	peak
4	4960.000	44.33	34.15	4.89	36.69	46.68	74.00	-27.32	VERTICAL	peak
5	7440.000	45.05	36.33	6.02	36.96	50.44	74.00	-23.56	VERTICAL	peak
6	9047.272	40.71	37.67	6.60	36.89	48.09	74.00	-25.91	VERTICAL	peak





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



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1525.000	47.20	24.49	2.71	37.48	36.92	74.00	-37.08	HORIZONTAL	peak
2	2790.113	46.36	28.42	3.71	37.08	41.41	74.00	-32.59	HORIZONTAL	peak
3	4495.125	44.74	34.17	4.62	36.63	46.90	74.00	-27.10	HORIZONTAL	peak
4	4960.000	44.83	34.15	4.89	36.69	47.18	74.00	-26.82	HORIZONTAL	peak
5	7440.000	45.07	36.33	6.02	36.96	50.46	74.00	-23.54	HORIZONTAL	peak
6	9047.272	43.90	37.67	6.60	36.89	51.28	74.00	-22.72	HORIZONTAL	peak



### 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 $\geq 50$ hopping channels
	0.25 for $25 \leq$ hopping channels $< 50$
	1 for digital modulation
2400-2483.5	1 for $\geq 75$ 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: 21.2 °C

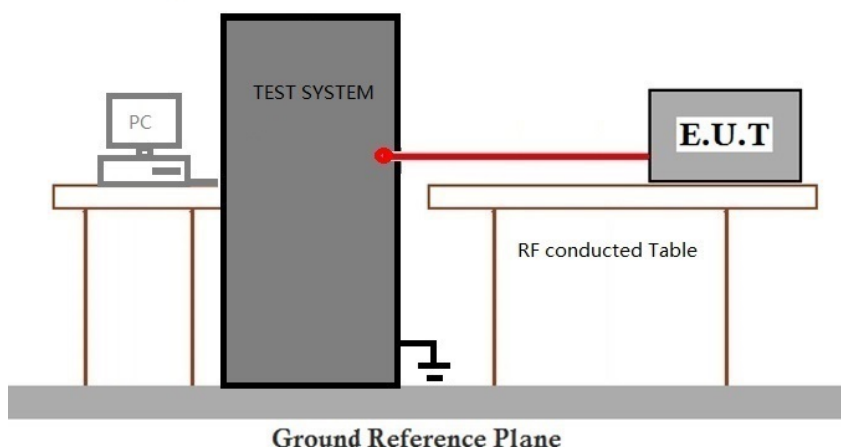
Humidity: 67.4 % RH

Atmospheric Pressure: 1004 mbar

#### 7.5.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode(1Mbps)_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

### 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

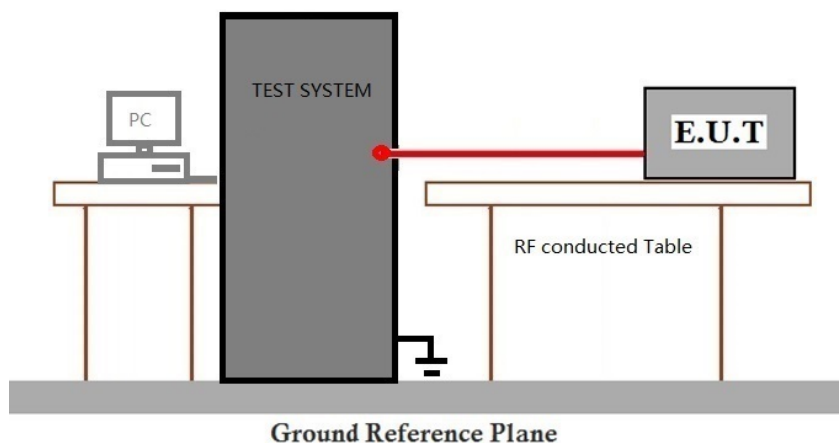
Operating Environment:

Temperature: 21.2 °C Humidity: 67.4 % RH Atmospheric Pressure: 1004 mbar

#### 7.6.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode(1Mbps)_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

### 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

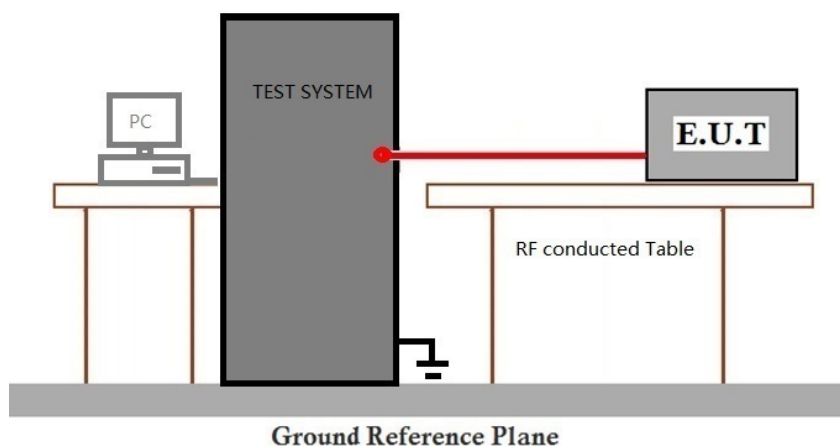
Operating Environment:

Temperature: 21.2 °C Humidity: 67.4 % RH Atmospheric Pressure: 1004 mbar

#### 7.7.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode(1Mbps)_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



### 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

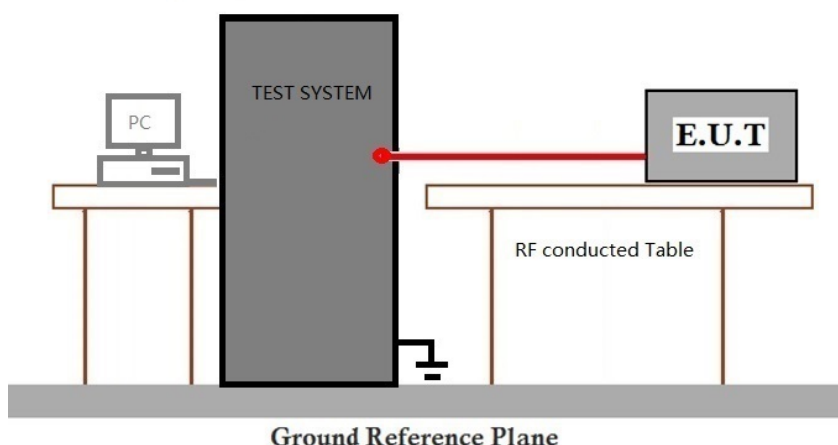
Operating Environment:

Temperature: 21.2 °C Humidity: 67.4 % RH Atmospheric Pressure: 1004 mbar

#### 7.8.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	00	TX mode(1Mbps)_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: 21.2 °C

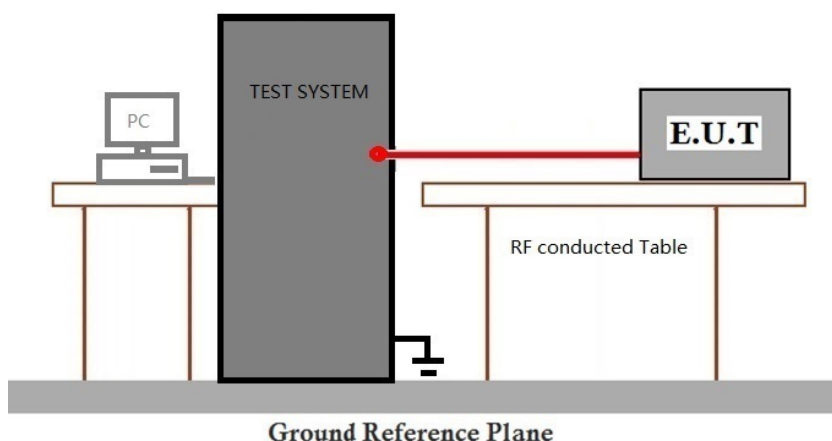
Humidity: 67.4 % RH

Atmospheric Pressure: 1004 mbar

#### 7.9.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	00	TX mode(1Mbps)_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 Photos for GZCR241000122503



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## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2410001225HS



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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

##### 1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T <sub>on</sub> (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	100.000	100.000	100.00	0.00	0.00
		2440	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00



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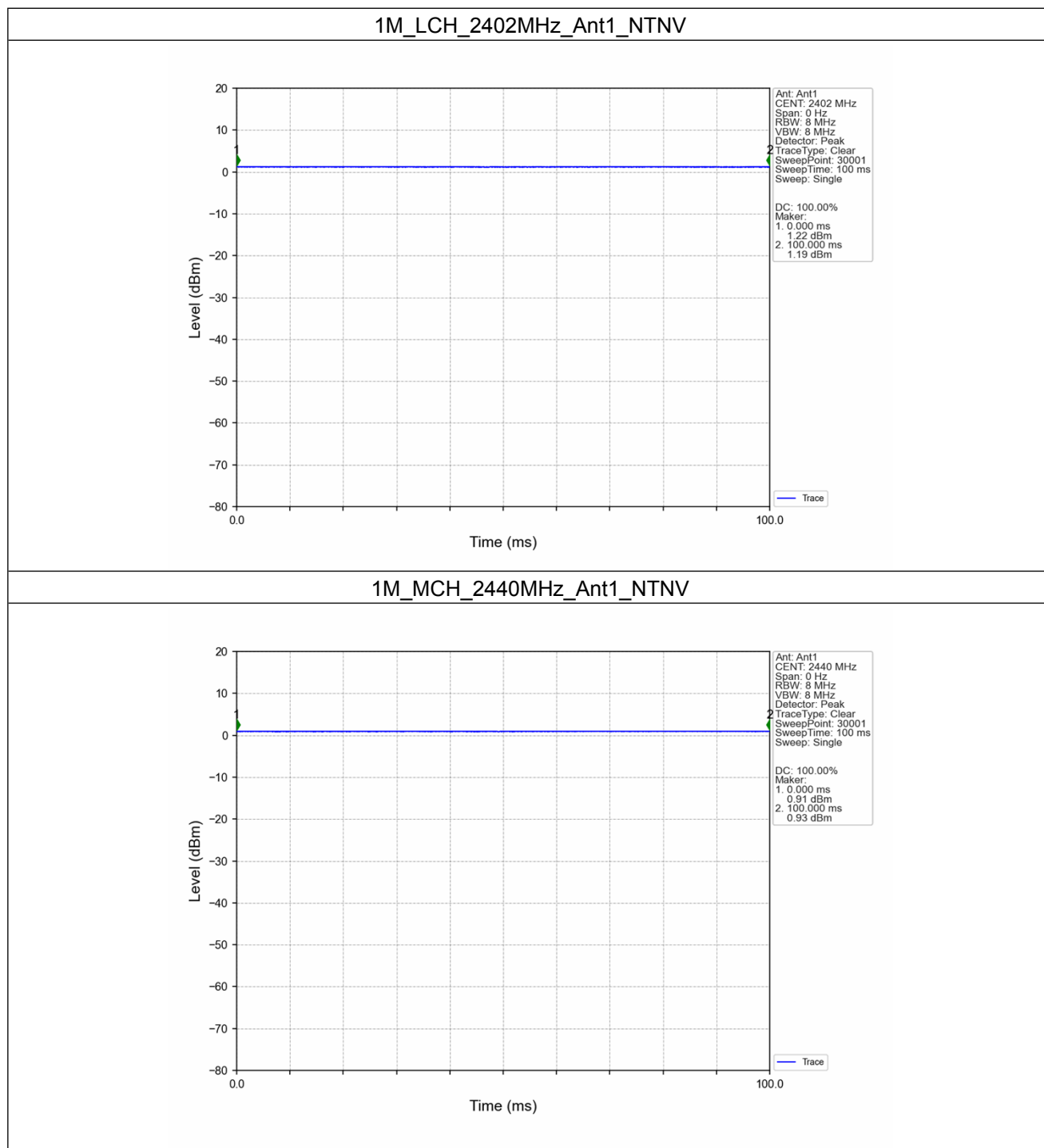
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### 1.2 Test Graph

#### 1.2.1 Ant1



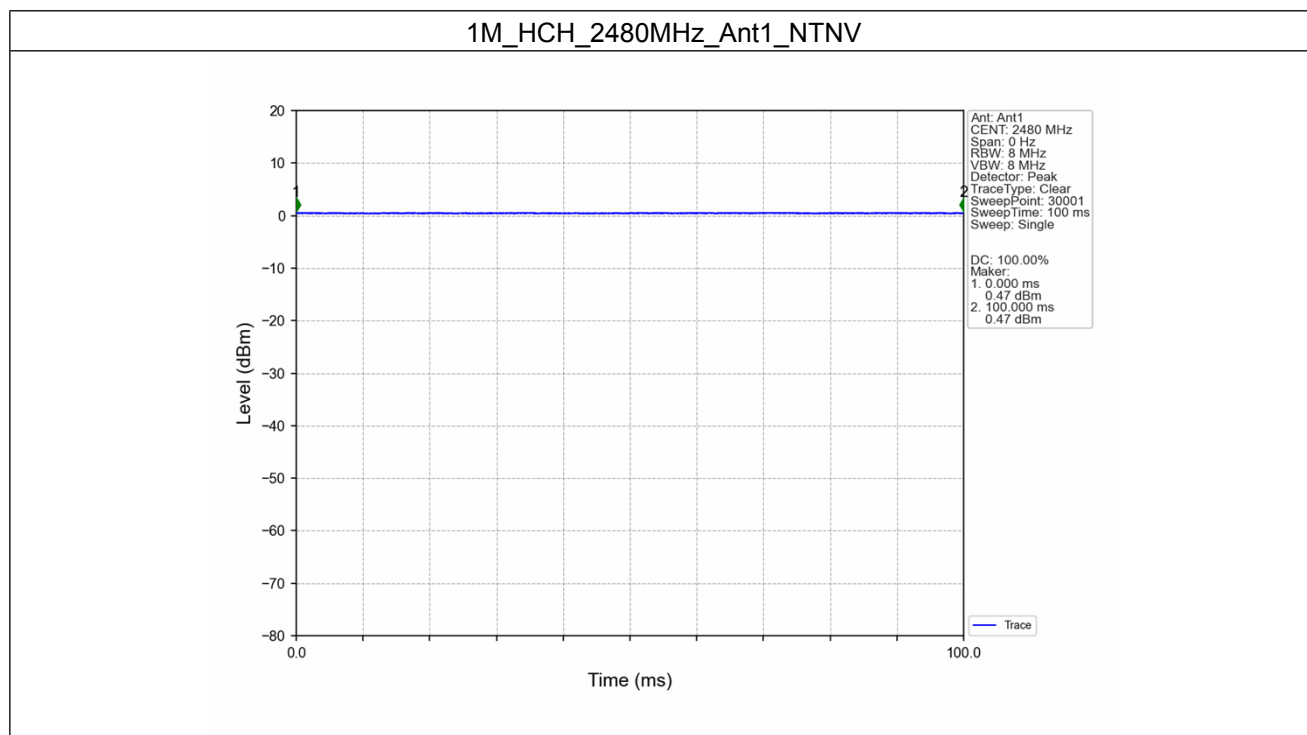
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## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.751	$\geq 0.5$	Pass
		2440	1	0.756	$\geq 0.5$	Pass
		2480	1	0.758	$\geq 0.5$	Pass



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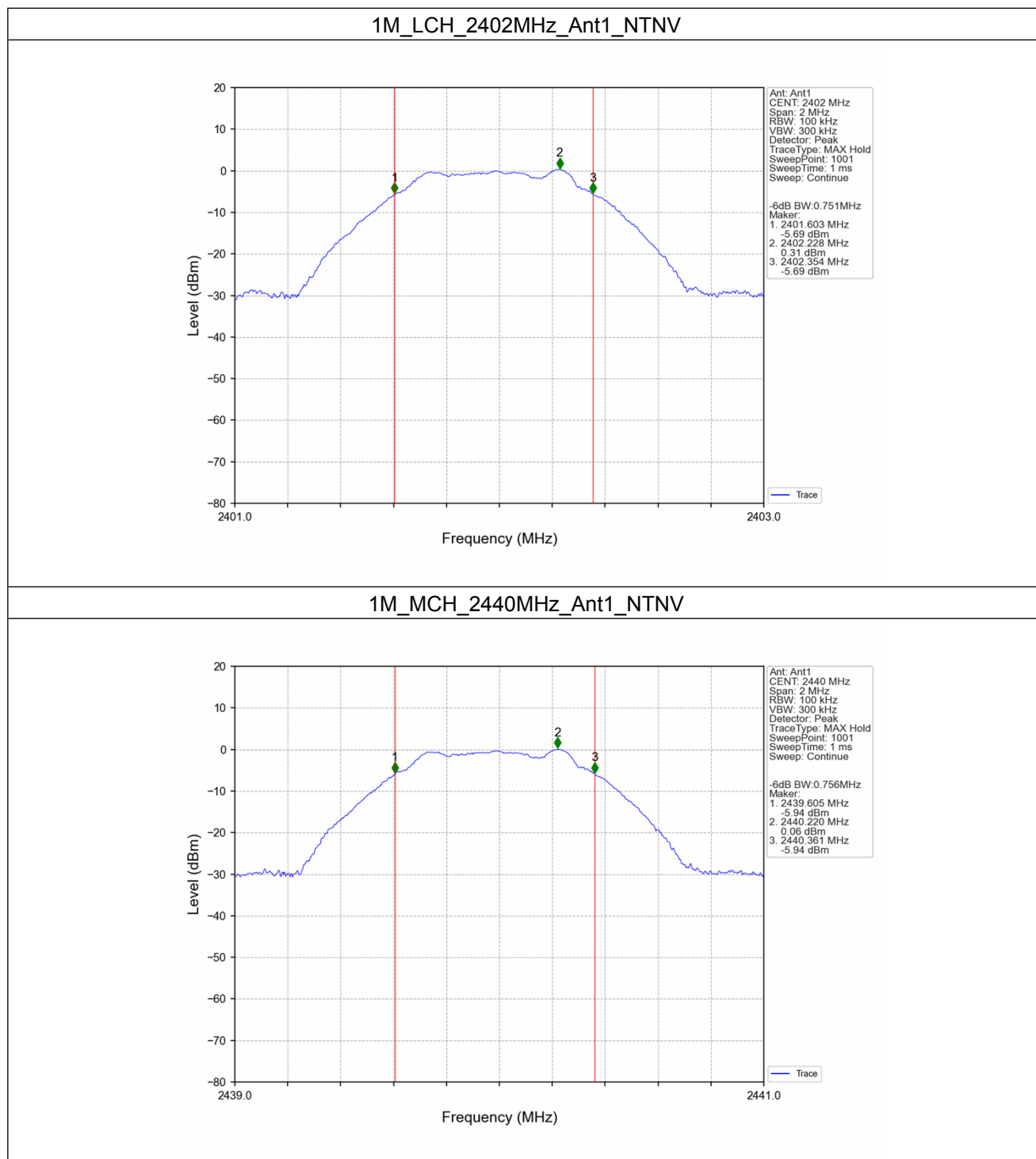
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## 2.2 Test Graph

### 2.2.1 6dB BW



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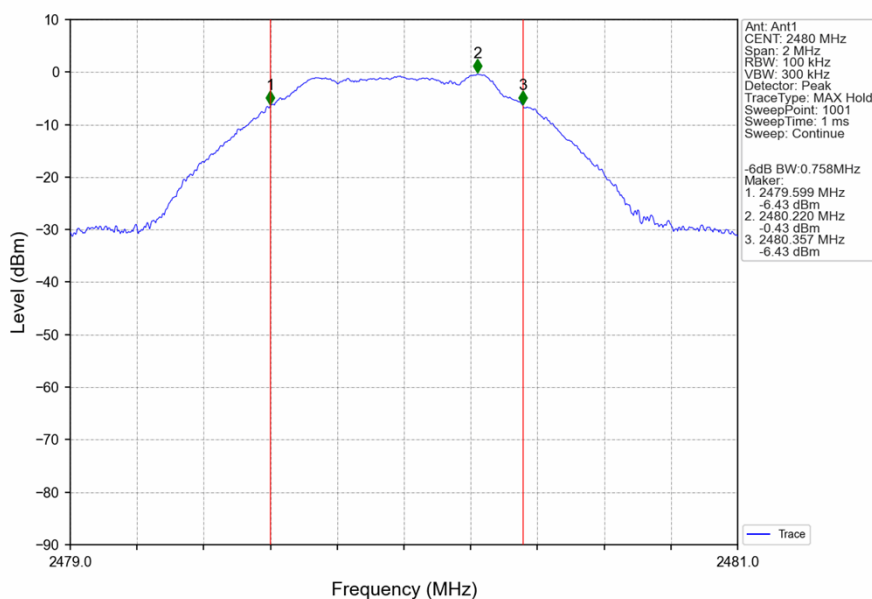
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### 1M\_HCH\_2480MHz\_Ant1\_NTNV



### 3. Maximum Conducted Output Power

#### 3.1 Test Result

##### 3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	1.20	<=30	Pass
		2440	0.91	<=30	Pass
		2480	0.49	<=30	Pass

Note1: Antenna Gain: Ant1: -3.03dBi;

## 4. Maximum Power Spectral Density

### 4.1 Test Result

#### 4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-14.81	<=8	Pass
		2440	-15.16	<=8	Pass
		2480	-14.87	<=8	Pass
Note1: Antenna Gain: Ant1: -3.03dBi;					



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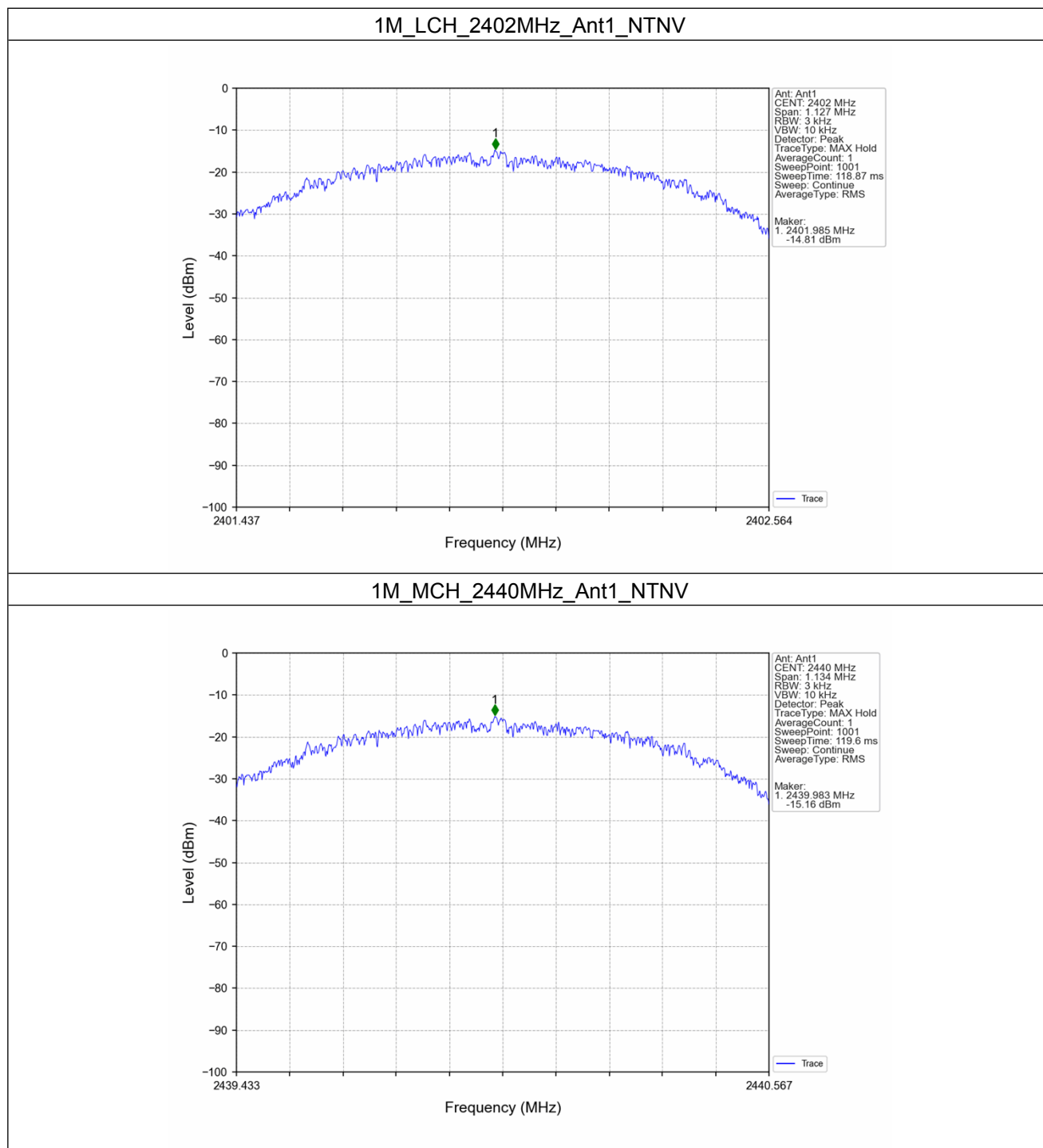
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### 4.2 Test Graph

#### 4.2.1 PSD



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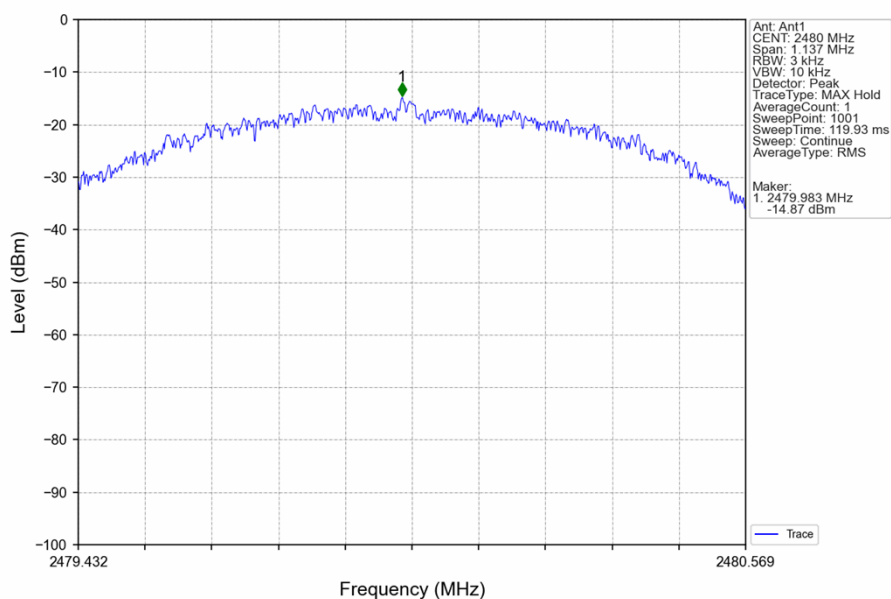
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### 1M\_HCH\_2480MHz\_Ant1\_NTNV



## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Test Result

#### 5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	0.28
		2440	1	0.01
		2480	1	-0.42

Note1: Refer to RSS-247 Issue 2 section 5.5 and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

#### 5.1.2 CSE and Band Edge

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.28	-19.72	Pass
		2440	1	0.28	-19.72	Pass
		2480	1	0.28	-19.72	Pass

Note1: Refer to RSS-247 Issue 2 section 5.5 and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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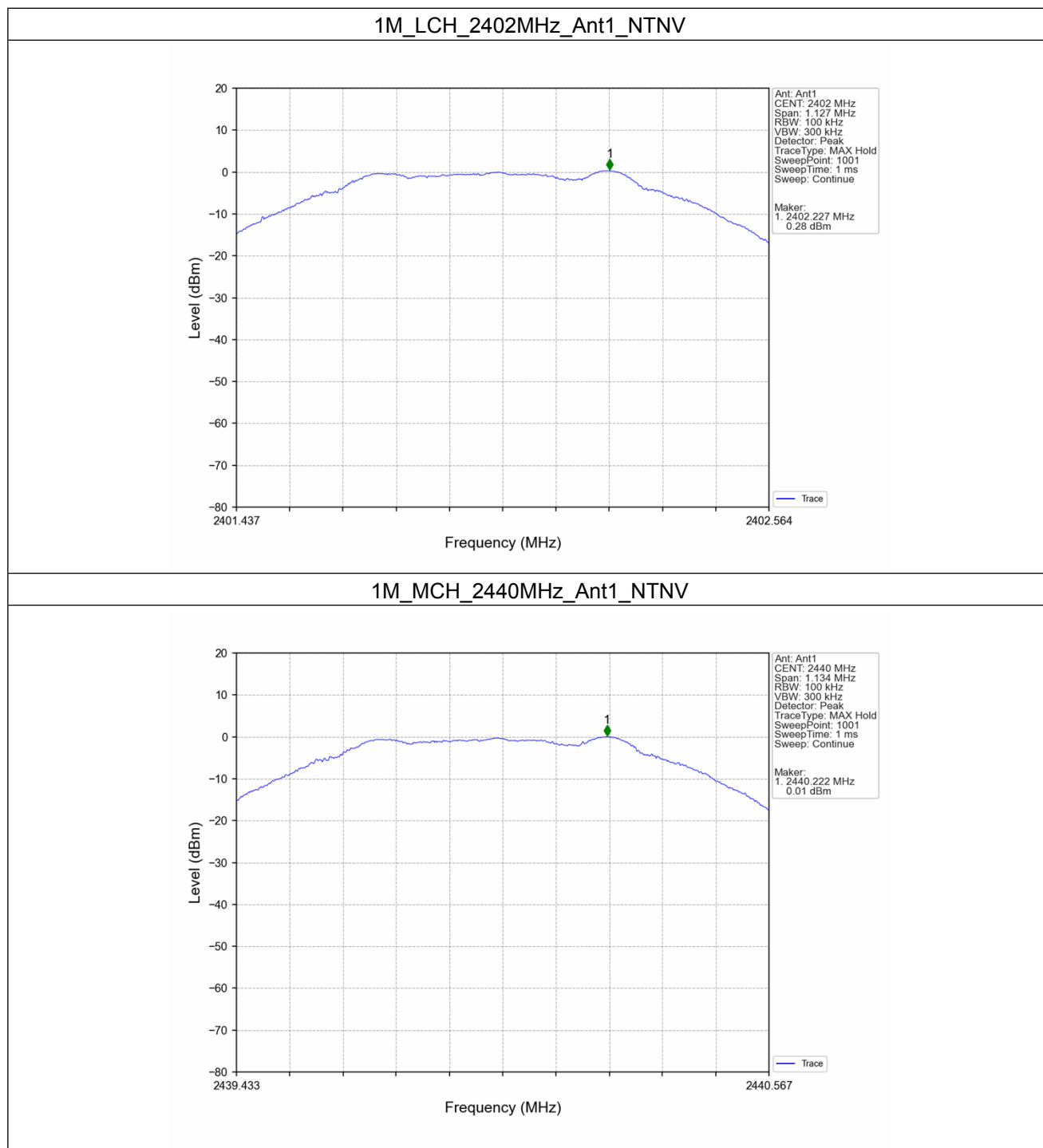
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### 5.2 Test Graph

#### 5.2.1 Ref



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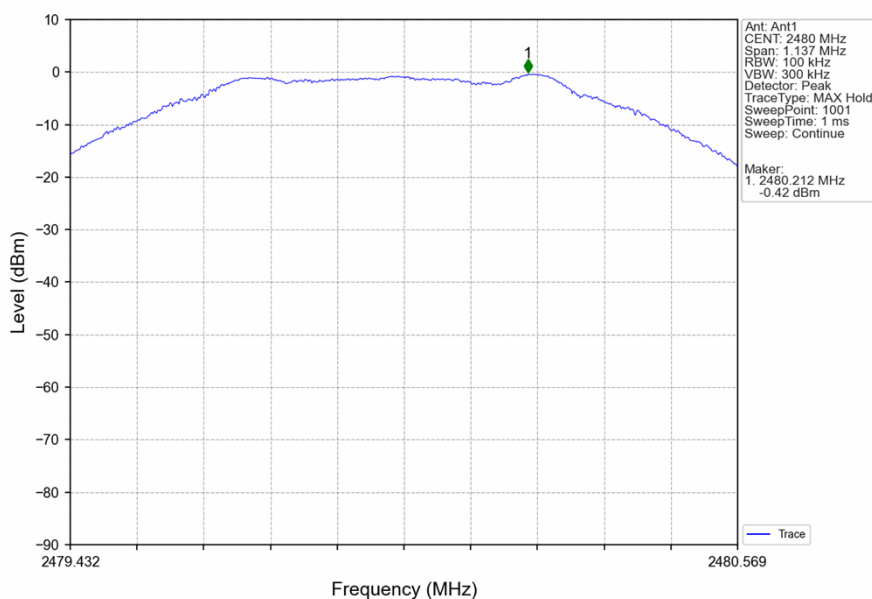
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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

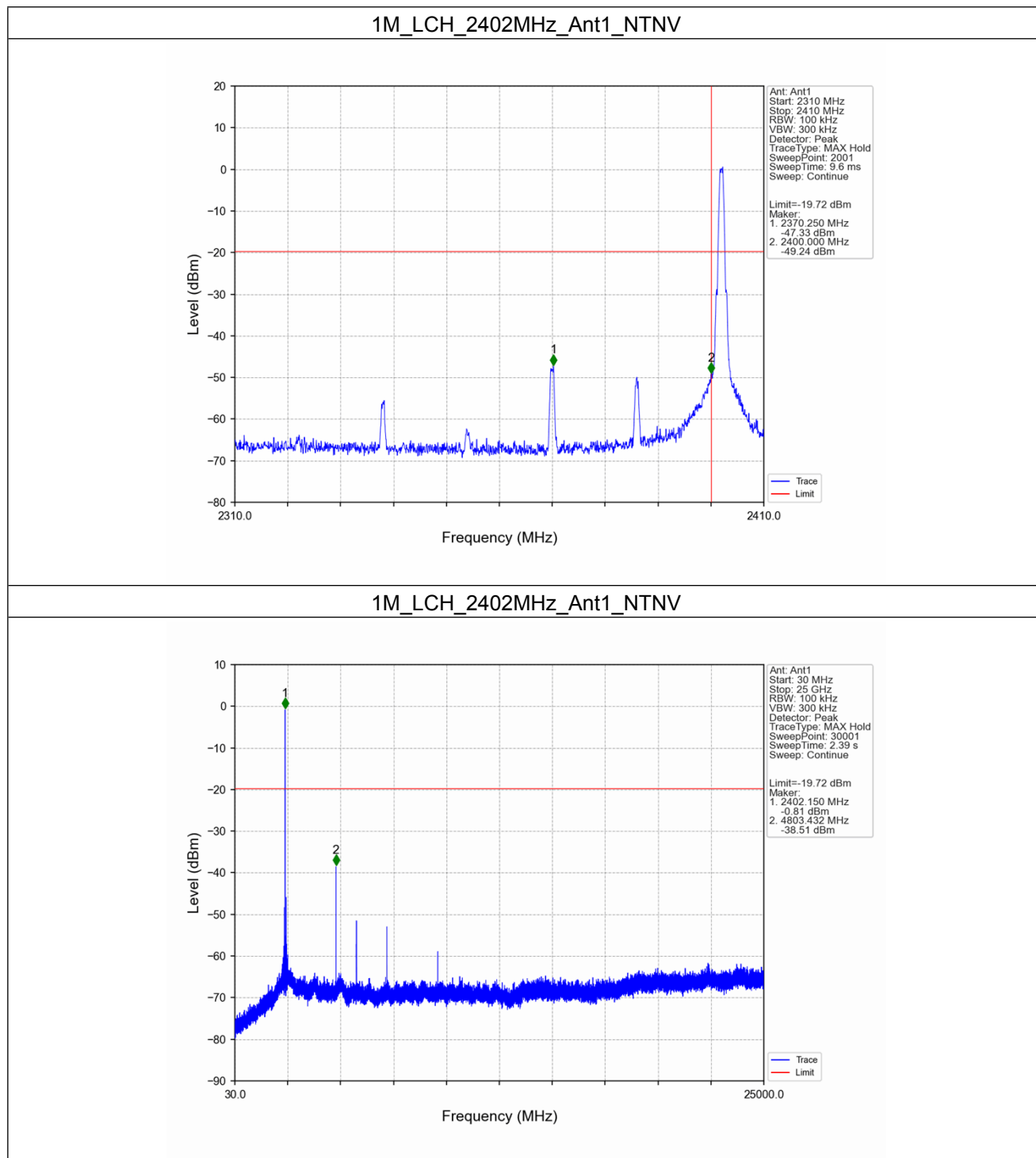
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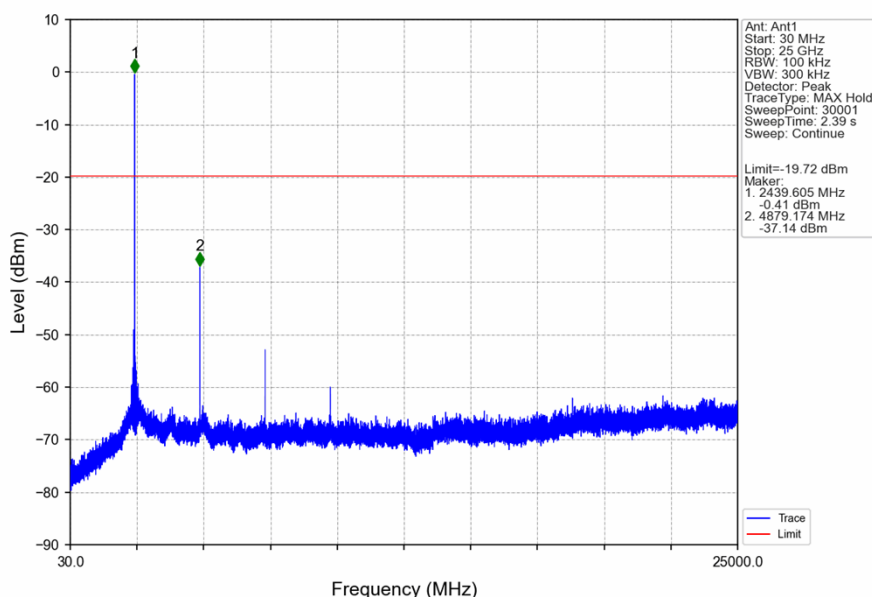
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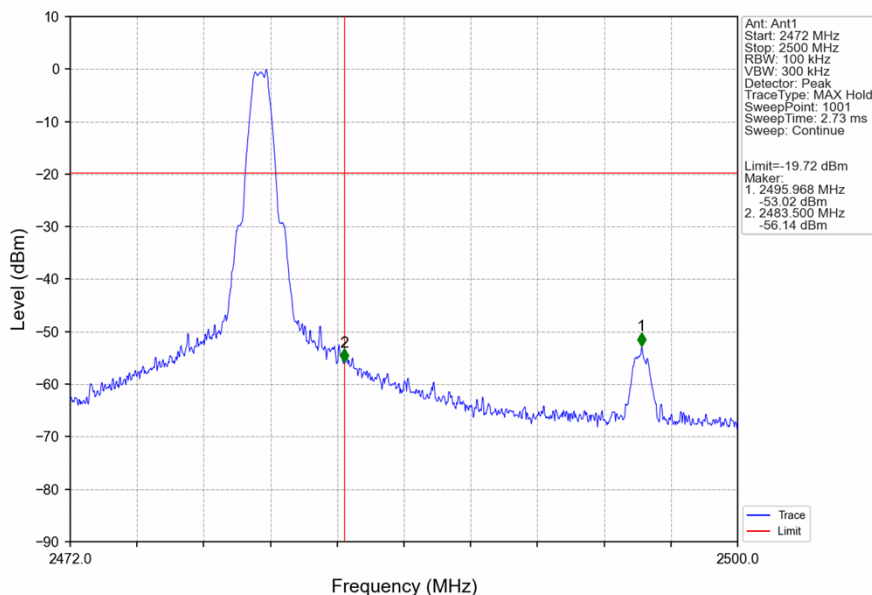
### 5.2.2 CSE and Band Edge



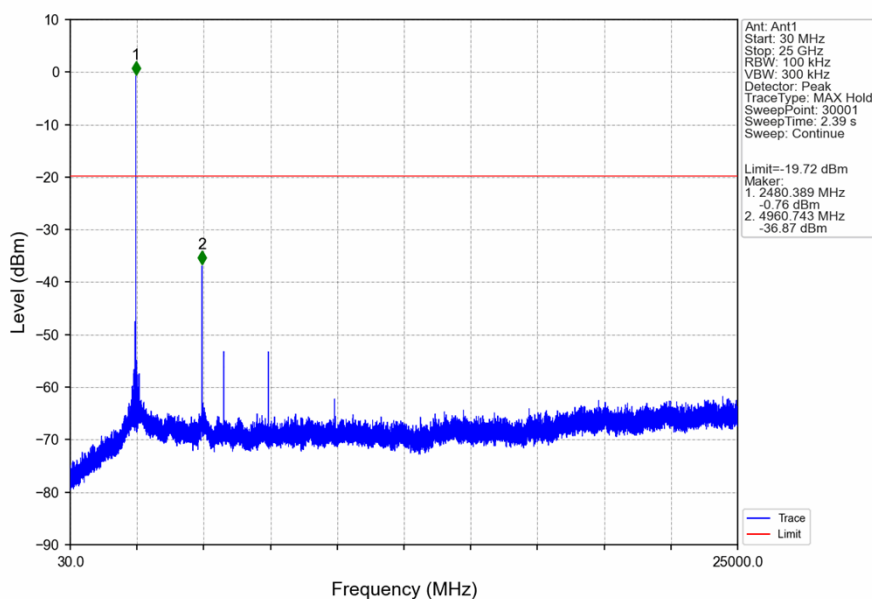
### 1M\_MCH\_2440MHz\_Ant1\_NTNV



### 1M\_HCH\_2480MHz\_Ant1\_NTNV



### 1M\_HCH\_2480MHz\_Ant1\_NTNV



- End of the Report -