



TEST REPORT

Application No.:

GZCR2202000157AT

Applicant:

NormaTec Industries LP

Address of Applicant:

480 Pleasant St. Ste A200 Watertown, Massachusetts 02472, United States

Manufacturer:

NormaTec Industries LP

Address of Manufacturer:

480 Pleasant St. Ste A200 Watertown, Massachusetts 02472, United States

Factory:

Ryder Electronics (Xinfeng) Ltd.

Address of Factory:

East Shuidong Avenue, Industrial Park, Xinfeng Town, Ganzhou City, Jiangxi Province, P.R. China 341600

Equipment Under Test (EUT):

EUT Name: Normatec Go

Model No.: ALJ7

Trade Mark:



Standard(s) :

47 CFR Part 15, Subpart C 15.247

Date of Receipt:

2022-02-10

Date of Test:

2022-02-10 to 2022-02-22

Date of Issue:

2022-02-23

Test Result:

Pass*

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

Kobe Jian
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-02-23		Original

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

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 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
Duty Cycle		ANSI C63.10 (2013) Section 11.6	KDB 558074 D01 v05r02 section 6	Pass
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1.3	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
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Note:

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

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

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Remark: The product comes with different Air compressor, Solenoid Valves and batteries, all the Configurations have been pre-tested, and only record the worst case in the report, here are the different configurations:

Component	Manufacturer	Type	Specification
Internal battery (Hixon J962)	Hixon (Shenzhen) Technology Limited	J962	3.6V, 2550mAh
Internal battery (D610-1-D1-1S1P)	Greenway Technology Co., Ltd	D610-1-D1-1S1P	3.65V, 2600mAh
Solenoid Valve	Shenzhen Deyuxin Technology Co., Ltd	DQF3-6A-9	DC3.3V
	DongGuan jingbofang Electronics Co., Ltd.	JQF1320-3.3A	DC3.3V
Air compressor	Shenzhen Deyuxin Technology Co., Ltd	DQB100-F	DC3.3V Flow rate: ≥1.7L/min, Pressure: ≤85KPA
	DongGuan jingbofang Electronics Co., Ltd.	JQB130-3.3B	DC3.3V Flow rate: ≥1.5L/min, Pressure: >400mmHg

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3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	5
4 General Information	7
4.1 Details of E.U.T	7
4.2 Description of Support Units	7
4.3 Measurement Uncertainty	7
4.4 Test Location	8
4.5 Test Facility	8
4.6 Deviation from Standards	9
4.7 Abnormalities from Standard Conditions	9
5 Equipment List	10
6 Radio Spectrum Technical Requirement	14
6.1 Antenna Requirement	14
6.1.1 Test Requirement:	14
6.1.2 Conclusion	14
7 Radio Spectrum Matter Test Results	15
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	15
7.1.1 E.U.T. Operation	15
7.1.2 Test Mode Description	15
7.1.3 Test Setup Diagram	15
7.1.4 Measurement Procedure and Data	16
7.2 Duty Cycle	19
7.2.1 E.U.T. Operation	19
7.2.2 Test Mode Description	19
7.2.3 Test Setup Diagram	19
7.2.4 Measurement Procedure and Data	19
7.3 Conducted Peak Output Power	20
7.3.1 E.U.T. Operation	20
7.3.2 Test Mode Description	20
7.3.3 Test Setup Diagram	20
7.3.4 Measurement Procedure and Data	21
7.4 Minimum 6dB Bandwidth	22
7.4.1 E.U.T. Operation	22
7.4.2 Test Mode Description	22
7.4.3 Test Setup Diagram	22
7.4.4 Measurement Procedure and Data	22
7.5 Power Spectrum Density	23
7.5.1 E.U.T. Operation	23
7.5.2 Test Mode Description	23
7.5.3 Test Setup Diagram	23
7.5.4 Measurement Procedure and Data	23

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7.6	Conducted Band Edges Measurement	24
7.6.1	E.U.T. Operation	24
7.6.2	Test Mode Description	24
7.6.3	Test Setup Diagram	24
7.6.4	Measurement Procedure and Data	25
7.7	Conducted Spurious Emissions	26
7.7.1	E.U.T. Operation	26
7.7.2	Test Mode Description	26
7.7.3	Test Setup Diagram	26
7.7.4	Measurement Procedure and Data	27
7.8	Radiated Emissions which fall in the restricted bands	28
7.8.1	E.U.T. Operation	28
7.8.2	Test Mode Description	28
7.8.3	Test Setup Diagram	29
7.8.4	Measurement Procedure and Data	29
7.9	Radiated Spurious Emissions (Below 1GHz)	38
7.9.1	E.U.T. Operation	38
7.9.2	Test Mode Description	38
7.9.3	Test Setup Diagram	39
7.9.4	Measurement Procedure and Data	39
7.10	Radiated Spurious Emissions (Above 1GHz)	42
7.10.1	E.U.T. Operation	42
7.10.2	Test Mode Description	42
7.10.3	Test Setup Diagram	43
7.10.4	Measurement Procedure and Data	44
8	Test Setup Photo	57
9	EUT Constructional Details (EUT Photos)	57
10	Appendix	58



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4 General Information

4.1 Details of E.U.T.

Power supply:	Switching Mode Power Supply Model: GPE013A-050200-Z
Test Voltage:	Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5V, 2.0A, 10.0W Max
Cable(s):	AC 120V, 60Hz or AC 240V, 50Hz
Frequency Range:	Note: Both nominal AC 120V, 60Hz and AC 240 V, 50Hz are required for testing in accordance with FCC KDB174176, this report only shows the results of the worst test result(AC 120V, 60Hz);
Bluetooth Version:	2402MHz to 2480MHz
Modulation Type:	V5.0
Number of Channels:	GFSK
Data rate:	40
Antenna Type:	1Mbps, 2Mbps
Antenna Gain:	PCB Antenna
	3dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±2.76dB
Duty Cycle	± 0.37%
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
Radiated Emissions which fall in the restricted bands	±5.00dB (30MHz-1GHz; 3m);±4.38dB (30MHz-1GHz; 10m);± 4.52dB (1GHz-6GHz);± 4.54dB (above 6GHz)
Radiated Spurious Emissions (Below 1GHz)	±5.00dB (30MHz-1GHz; 3m);±4.38dB (30MHz-1GHz; 10m)
Radiated Spurious Emissions (Above 1GHz)	± 4.52dB (1GHz-6GHz);± 4.54dB (above 6GHz)

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4.4 Test Location

All tests were performed at:

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Guangzhou, China 510663

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

No tests were sub-contracted.

4.5 Test Facility

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

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

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

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

- **ACMA**

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

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

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

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

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

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

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

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

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

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

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

- **CBTL (Lab Code: TL129)**

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

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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2021-12-23	2022-12-22
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2021-09-24	2022-09-23
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2021-06-01	2022-05-31

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

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Power Spectrum Density

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Conducted Band Edges Measurement

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Conducted Spurious Emissions

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Radiated Emissions which fall in the restricted bands

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable(Above 1GHz)	Scoflex	KMKG-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-17	2022-12-16
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

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Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29

Radiated Spurious Emissions Below 1GHz

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable	HangTianXing	N/A	EMC0542	2021-06-28	2024-06-27
Trilog Broadband Antenna (25MHz-1GHz)- Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
				2022-02-21	2025-02-20
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-12-17	2022-12-16
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiated Spurious Emissions (Above 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable(Above 1GHz)	Scoflex	KMKG-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-17	2022-12-16
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

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Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29

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

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

15.203 Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of 15.211, 15.213, 15.217, 15.219, 15.221, or 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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 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

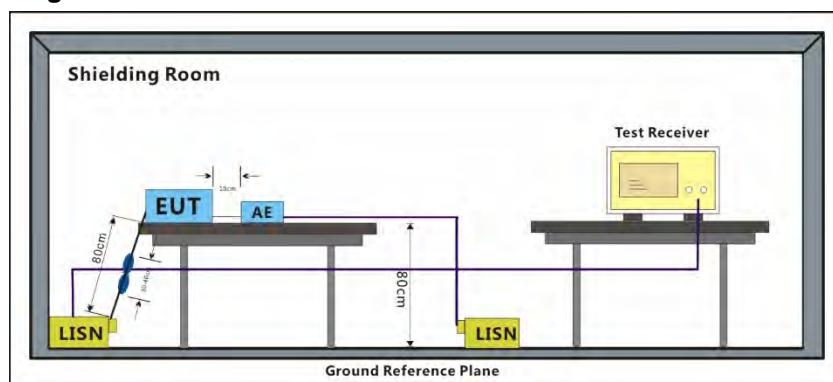
Operating Environment:

Temperature: 23.1 °C Humidity: 46.5 % RH Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

Pre-scan / Mode Final test	Mode Code	Description
Final test	07	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 1Mbps.
Pre-scan	09	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 2Mbps.

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: LISN=Read Level+ Cable Loss+ LISN Factor

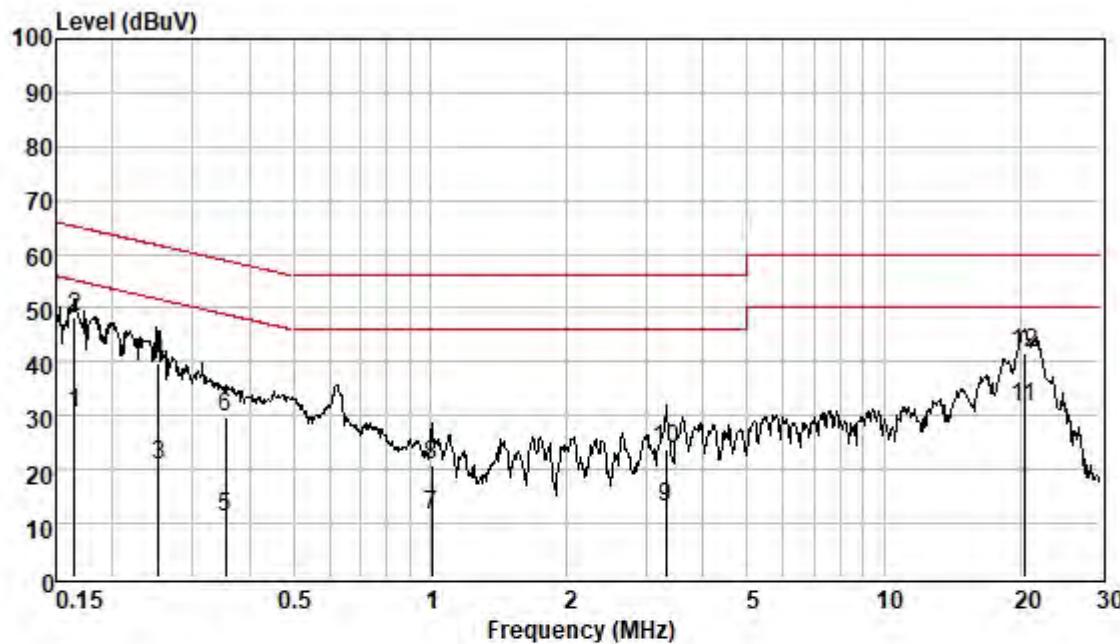
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Test Mode: 07; Line: Live line



Pol :LINE

Mode :

Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.17	20.78	0.06	9.55	30.39	55.21	-24.82	Average
0.17	38.74	0.06	9.55	48.35	65.21	-16.86	QP
0.25	11.20	0.06	9.57	20.83	51.69	-30.86	Average
0.25	30.19	0.06	9.57	39.82	61.69	-21.87	QP
0.35	1.60	0.06	9.58	11.24	48.87	-37.63	Average
0.35	20.24	0.06	9.58	29.88	58.87	-28.99	QP
1.01	1.81	0.07	9.60	11.48	46.00	-34.52	Average
1.01	10.99	0.07	9.60	20.66	56.00	-35.34	QP
3.31	3.17	0.15	9.62	12.94	46.00	-33.06	Average
3.31	13.85	0.15	9.62	23.62	56.00	-32.38	QP
20.38	21.54	0.37	9.84	31.75	50.00	-18.25	Average
20.38	31.44	0.37	9.84	41.65	60.00	-18.35	QP

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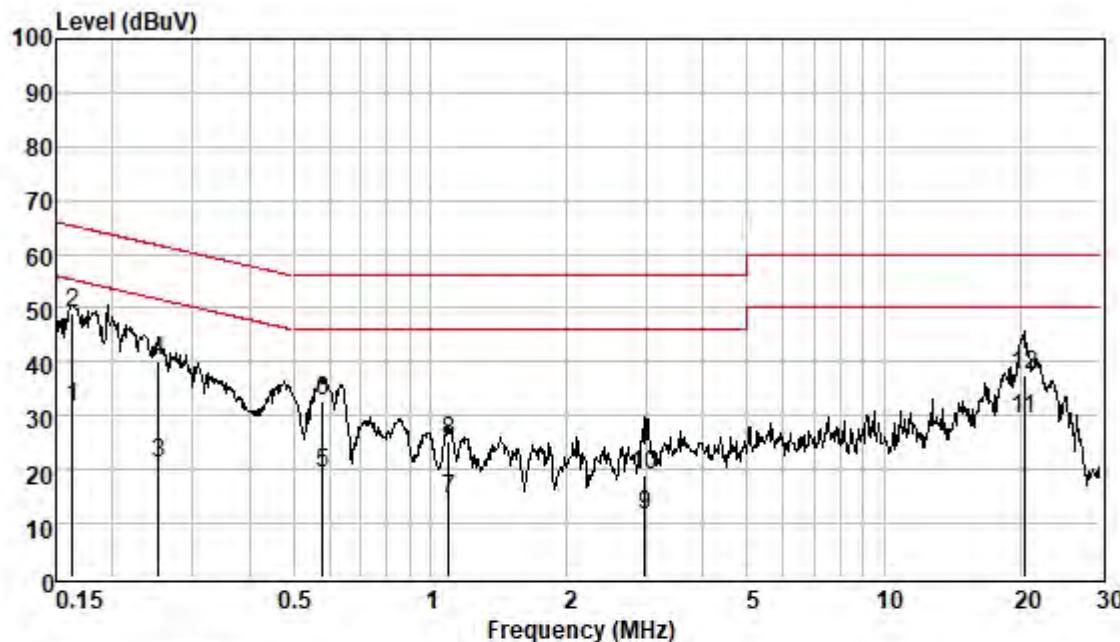
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Test Mode: 07; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model :

Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.16	21.90	0.06	9.54	31.50	55.30	-23.80	Average
0.16	39.63	0.06	9.54	49.23	65.30	-16.07	QP
0.25	11.74	0.06	9.56	21.36	51.69	-30.33	Average
0.25	30.51	0.06	9.56	40.13	61.69	-21.56	QP
0.58	9.62	0.07	9.58	19.27	46.00	-26.73	Average
0.58	23.13	0.07	9.58	32.78	56.00	-23.22	QP
1.10	4.93	0.08	9.59	14.60	46.00	-31.40	Average
1.10	15.64	0.08	9.59	25.31	56.00	-30.69	QP
2.98	1.76	0.15	9.61	11.52	46.00	-34.48	Average
2.98	9.15	0.15	9.61	18.91	56.00	-37.09	QP
20.38	18.93	0.37	9.90	29.20	50.00	-20.80	Average
20.38	27.27	0.37	9.90	37.54	60.00	-22.46	QP

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7.2 Duty Cycle

Test Requirement KDB 558074 D01 v05r02 section 6
 Test Method: ANSI C63.10 (2013) Section 11.6

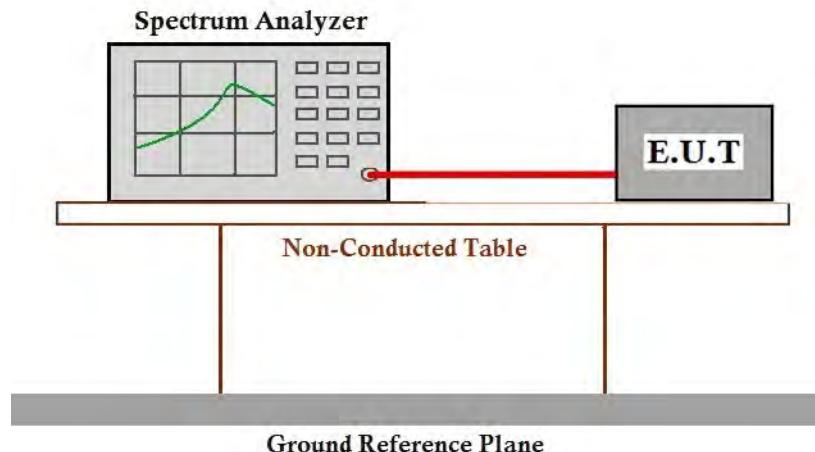
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 46.3 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 1Mbps.
Final test	07	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 1Mbps.
Pre-scan	08	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 2Mbps.
Final test	09	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 2Mbps.

7.2.3 Test Setup Diagram**7.2.4 Measurement Procedure and Data**

cable loss=0.9dB

Please Refer to Appendix for Details

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7.3 Conducted Peak Output Power

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

Test Method: ANSI C63.10 (2013) Section 11.9.1.3

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

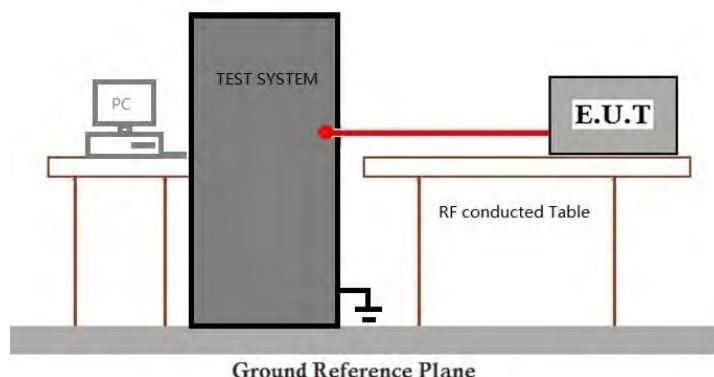
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 46.3 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 1Mbps.
Final test	07	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 1Mbps.
Pre-scan	08	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 2Mbps.
Final test	09	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 2Mbps.

7.3.3 Test Setup Diagram

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7.3.4 Measurement Procedure and Data

cable loss=0.9dB

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7.4 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

7.4.1 E.U.T. Operation

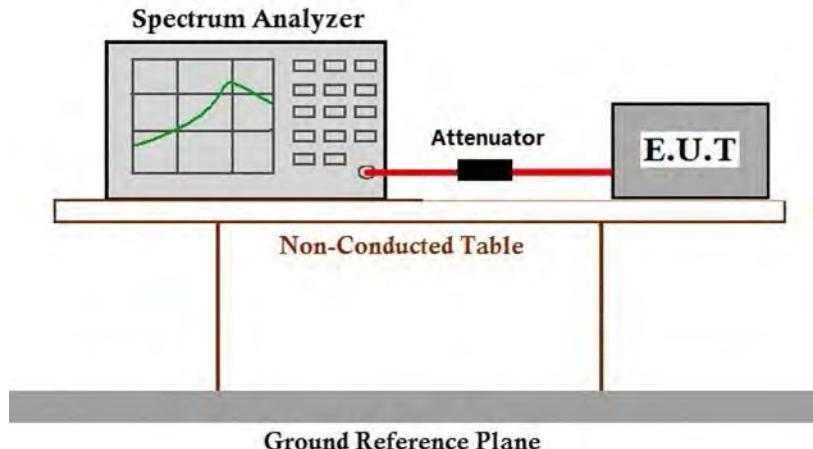
Operating Environment:

Temperature: 23.1 °C Humidity: 46.5 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 1Mbps.
Final test	07	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 1Mbps.
Pre-scan	08	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 2Mbps.
Final test	09	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 2Mbps.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

cable loss=0.9dB

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7.5 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

7.5.1 E.U.T. Operation

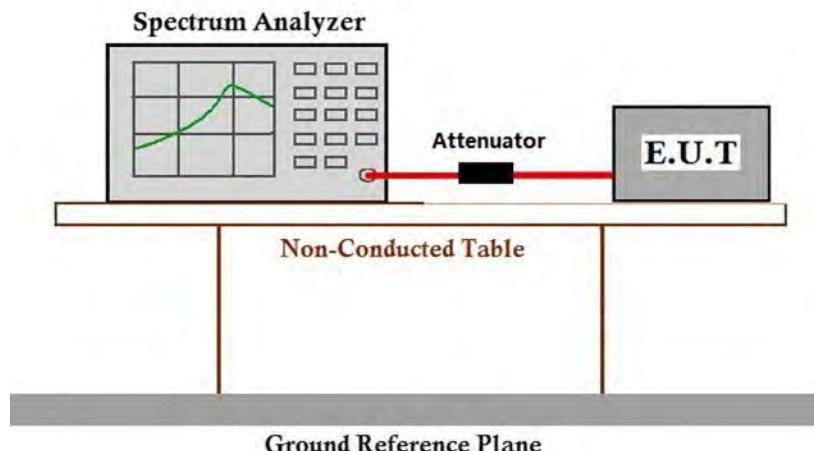
Operating Environment:

Temperature: 25.3 °C Humidity: 46.3 % RH Atmospheric Pressure: 1015 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 1Mbps.
Final test	07	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 1Mbps.
Pre-scan	08	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 2Mbps.
Final test	09	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 2Mbps.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

cable loss=0.9dB

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7.6 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)).

7.6.1 E.U.T. Operation

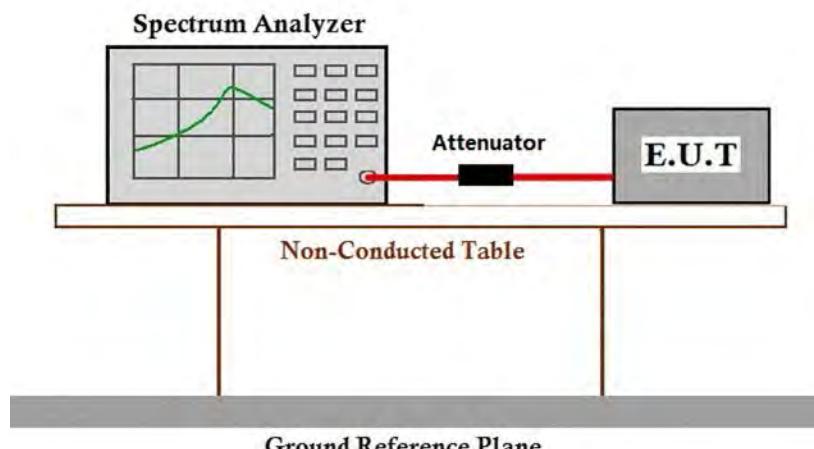
Operating Environment:

Temperature: 25.3 °C Humidity: 46.3 % RH Atmospheric Pressure: 1015 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 1Mbps.
Final test	07	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 1Mbps.
Pre-scan	08	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 2Mbps.
Final test	09	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 2Mbps.

7.6.3 Test Setup Diagram



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7.6.4 Measurement Procedure and Data

cable loss=0.9dB

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7.7 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)).

7.7.1 E.U.T. Operation

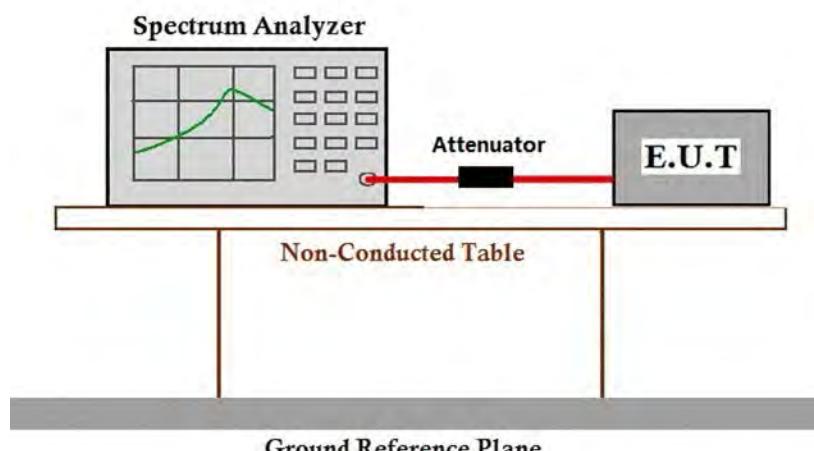
Operating Environment:

Temperature: 25.3 °C Humidity: 46.3 % RH Atmospheric Pressure: 1015 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 1Mbps.
Final test	07	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 1Mbps.
Pre-scan	08	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 2Mbps.
Final test	09	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 2Mbps.

7.7.3 Test Setup Diagram



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7.7.4 Measurement Procedure and Data

cable loss=0.9dB

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7.8 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 6.10.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
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.

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 57.0 % RH Atmospheric Pressure: 1015 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 1Mbps.
Final test	07	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 1Mbps.
Pre-scan	08	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 2Mbps.
Final test	09	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 2Mbps.

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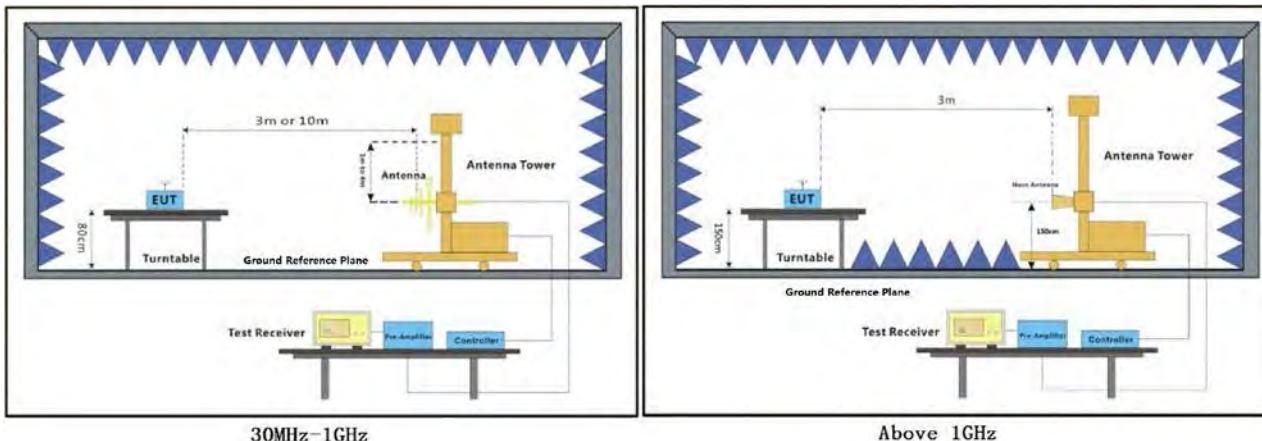
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7.8.3 Test Setup Diagram



7.8.4 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

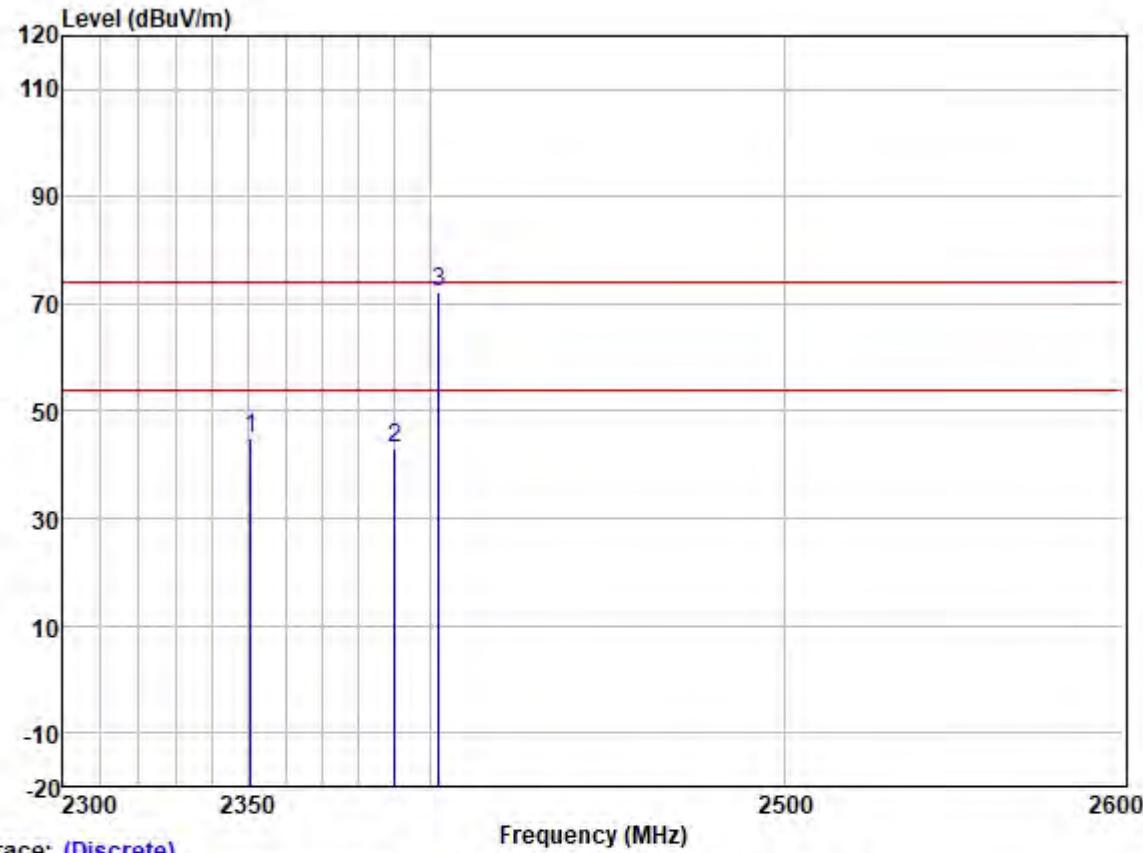
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Mode: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 2350.488	51.92	27.25	3.40	37.61	44.96	74.00	-29.04 HORIZONTAL Peak
2 2390.000	49.98	27.33	3.48	37.59	43.20	74.00	-30.80 HORIZONTAL Peak
3 2402.000	79.02	27.35	3.50	37.59	72.28	74.00	-1.72 HORIZONTAL Peak

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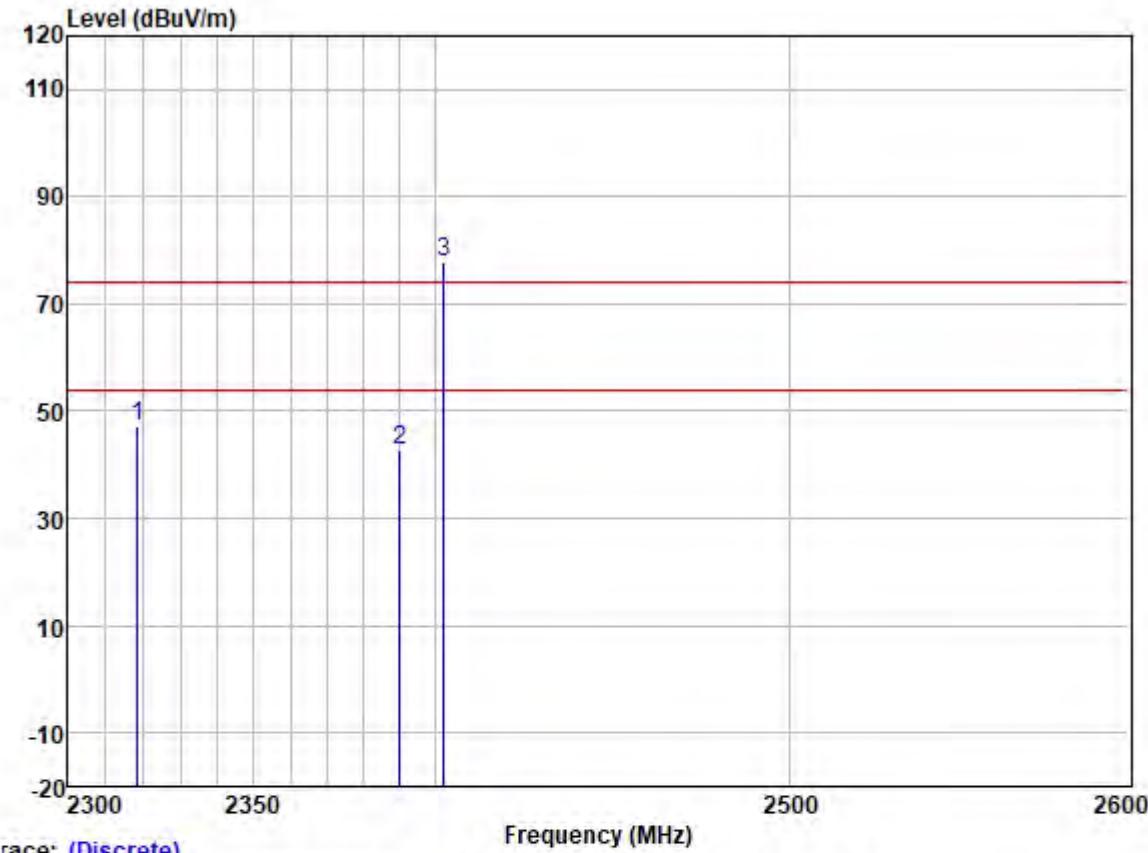
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



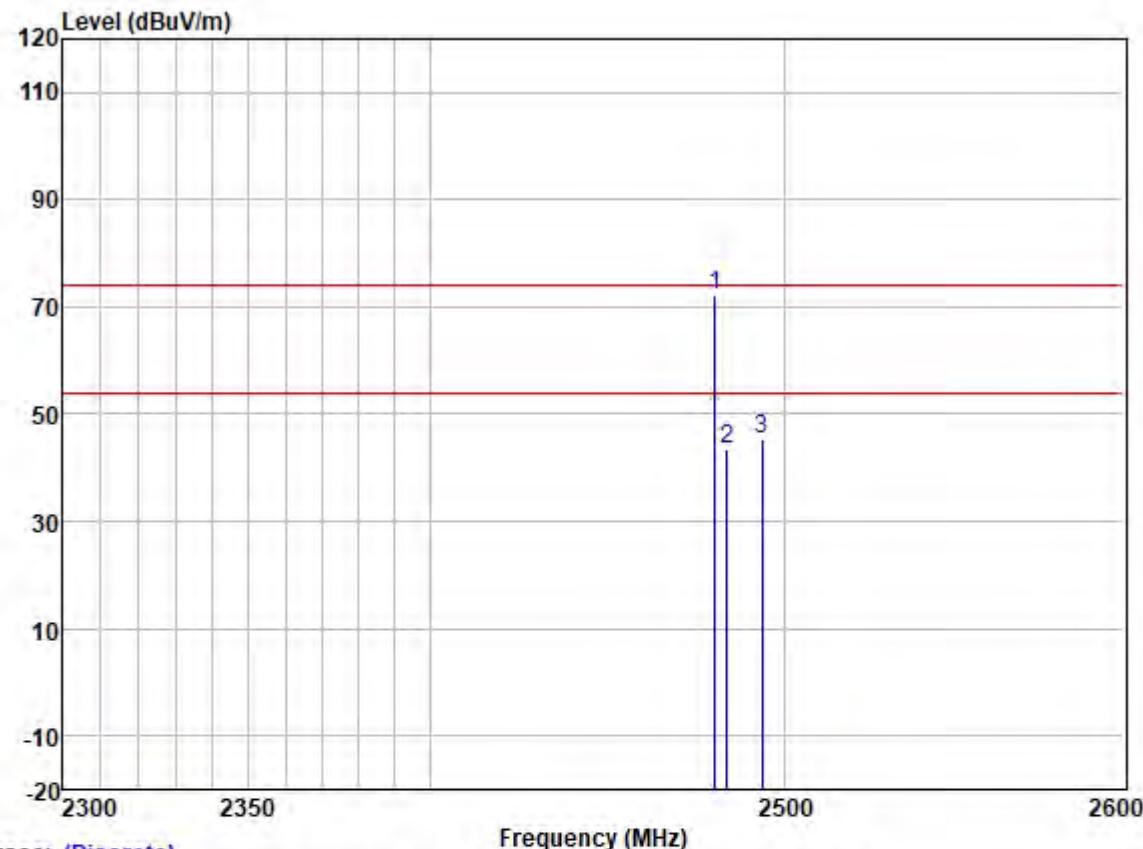
Face (Discrete)	ReadAntenna		Cable		Preamp		Level	Limit	Over	Limit	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB			
1	2318.434	54.15	27.17	3.33	37.62	47.03	74.00	-26.97	VERTICAL	Peak		
2	2390.000	49.32	27.33	3.48	37.59	42.54	74.00	-31.46	VERTICAL	Peak		
3 *	2402.000	84.48	27.35	3.50	37.59	77.74	74.00	3.74	VERTICAL	Peak		

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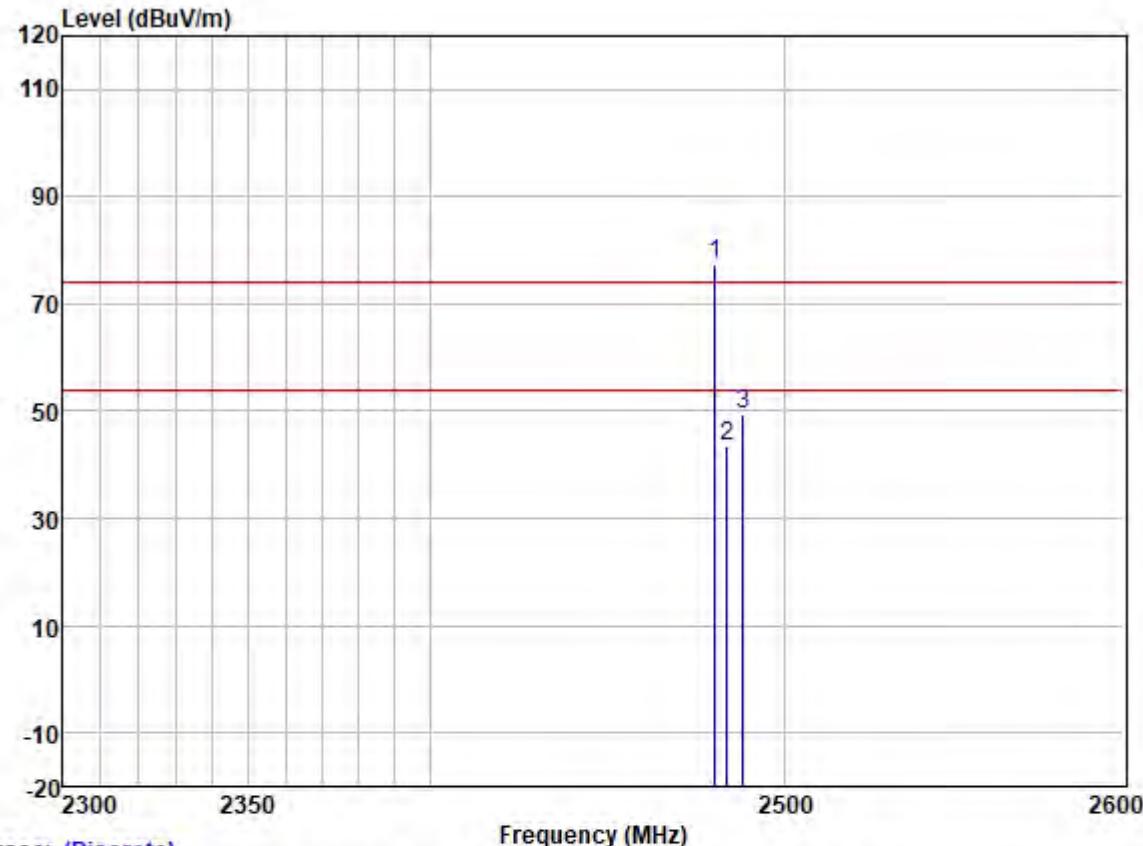
Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:High



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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Race: (Discrete)

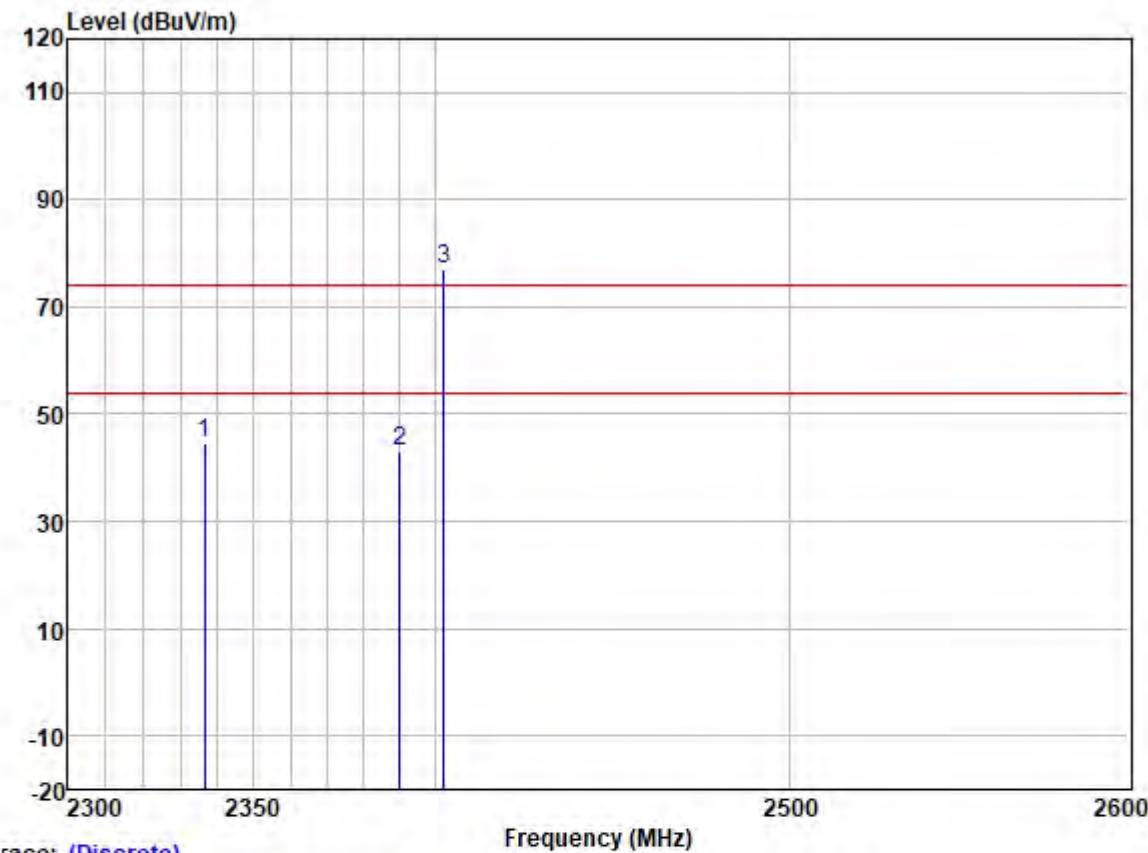
Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2480.000	84.10	27.47	3.60	37.57	77.60	74.00	3.60 VERTICAL Peak
2	2483.500	49.94	27.48	3.53	37.57	43.38	74.00	-30.62 VERTICAL Peak
3	2488.019	55.83	27.48	3.53	37.56	49.28	74.00	-24.72 VERTICAL Peak

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Test Mode: 09; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Mode: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Over	Over	Over	Over	Over
	Level	Factor	Loss								
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1 2336.485	51.43	27.22	3.37	37.62	44.40	74.00	-29.60	HORIZONTAL	Peak		
2 2390.000	49.77	27.33	3.48	37.59	42.99	74.00	-31.01	HORIZONTAL	Peak		
3 * 2402.000	83.87	27.35	3.50	37.59	77.13	74.00	3.13	HORIZONTAL	Peak		

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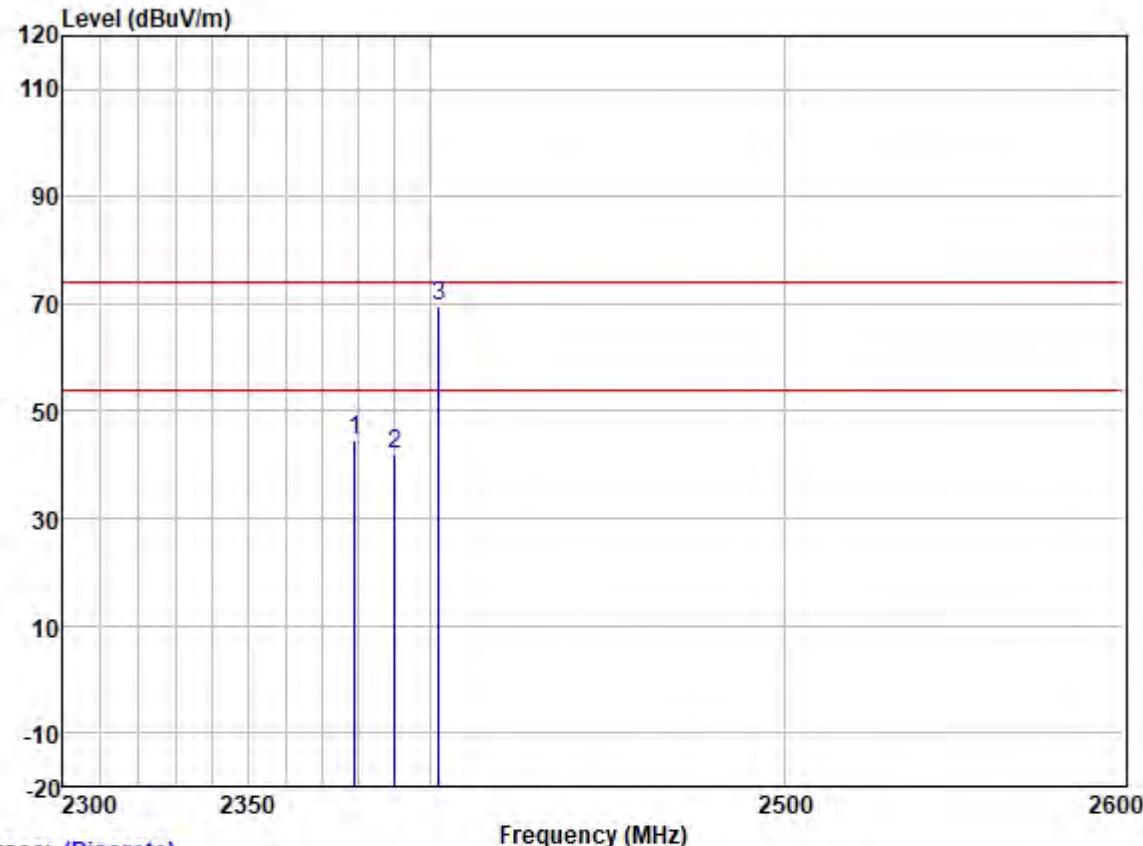
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Test Mode: 09; Polarity: Vertical; Modulation:GFSK; Channel:Low



Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 2378.747	51.43	27.31	3.46	37.60	44.60	74.00	-29.40 VERTICAL Peak
2 2390.000	48.73	27.33	3.48	37.59	41.95	74.00	-32.05 VERTICAL Peak
3 2402.000	76.47	27.35	3.50	37.59	69.73	74.00	-4.27 VERTICAL Peak

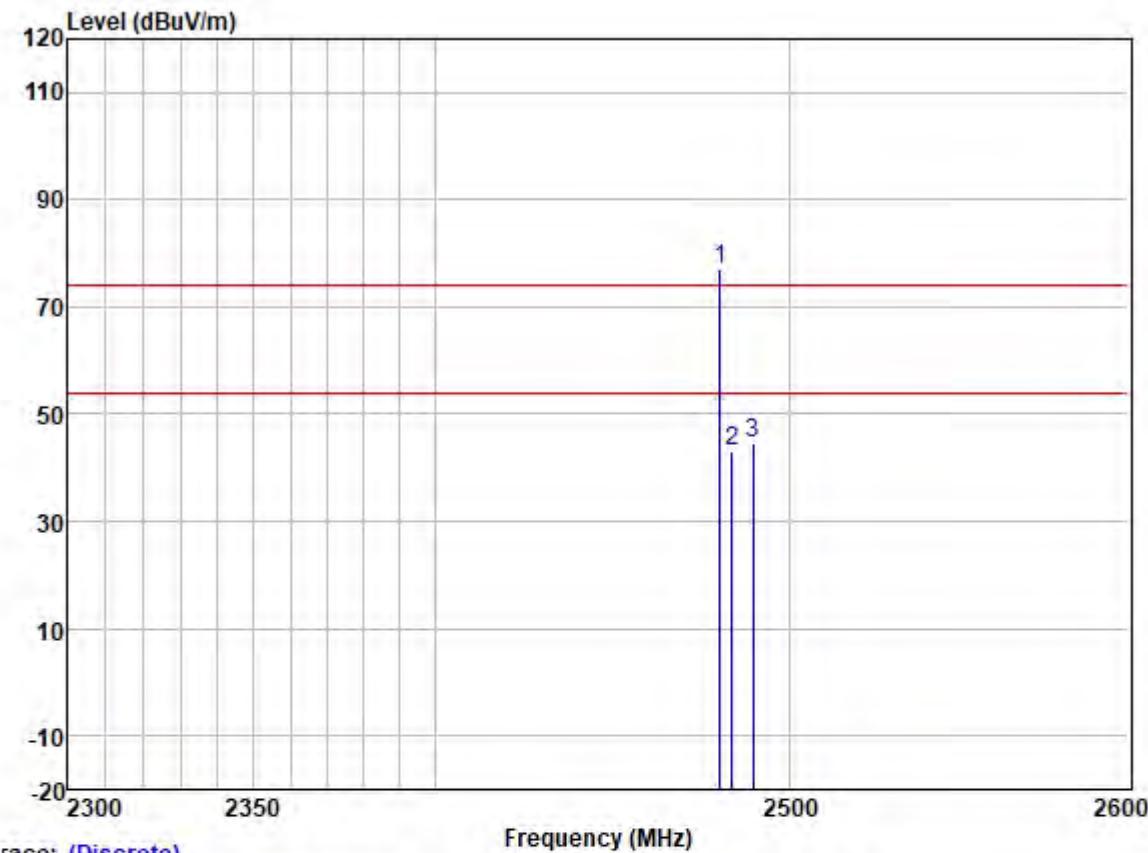
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Test Mode: 09; Polarity: Horizontal; Modulation:GFSK; Channel:High



Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2480.000	83.69	27.47	3.60	37.57	77.19	74.00	3.19 HORIZONTAL Peak
2	2483.500	49.54	27.48	3.53	37.57	42.98	74.00	-31.02 HORIZONTAL Peak
3	2489.520	51.09	27.49	3.47	37.56	44.49	74.00	-29.51 HORIZONTAL Peak

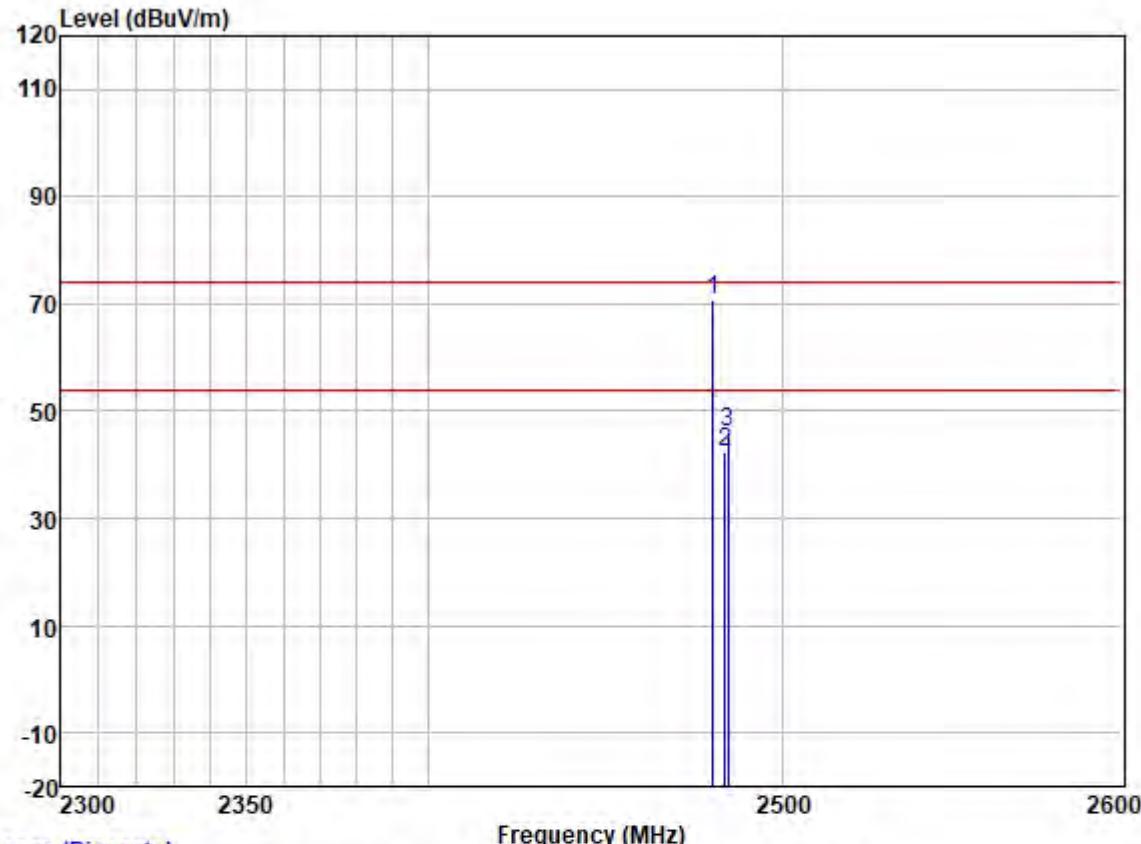
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Test Mode: 09; Polarity: Vertical; Modulation:GFSK; Channel:High



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1	2480.000	77.24	27.47	3.60	37.57	70.74	74.00	-3.26	VERTICAL	Peak	
2	2483.500	48.80	27.48	3.53	37.57	42.24	74.00	-31.76	VERTICAL	Peak	
3	2484.196	52.48	27.48	3.53	37.57	45.92	74.00	-28.08	VERTICAL	Peak	

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7.9 Radiated Spurious Emissions (Below 1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 59.2 % RH Atmospheric Pressure: 1015 mbar

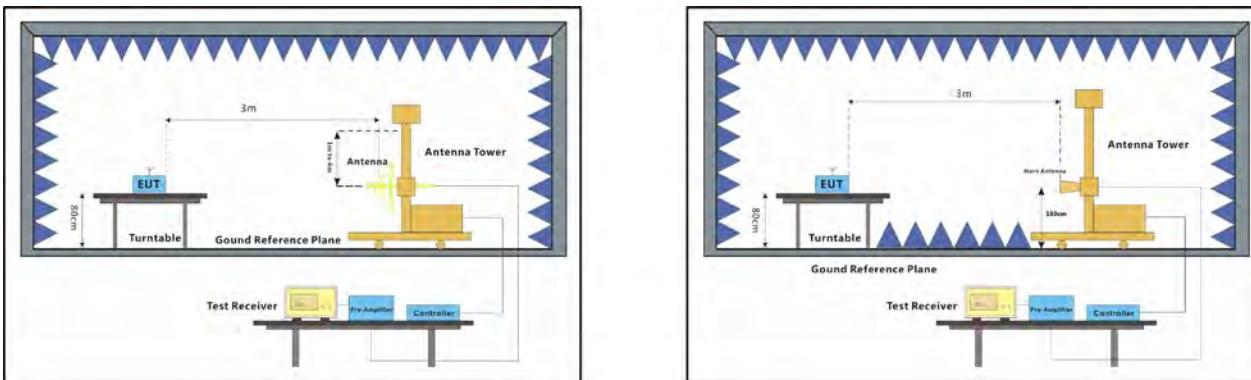
7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 1Mbps.
Final test	07	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 1Mbps.
Pre-scan	08	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 2Mbps.
Pre-scan	09	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 2Mbps.

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7.9.3 Test Setup Diagram**7.9.4 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 peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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

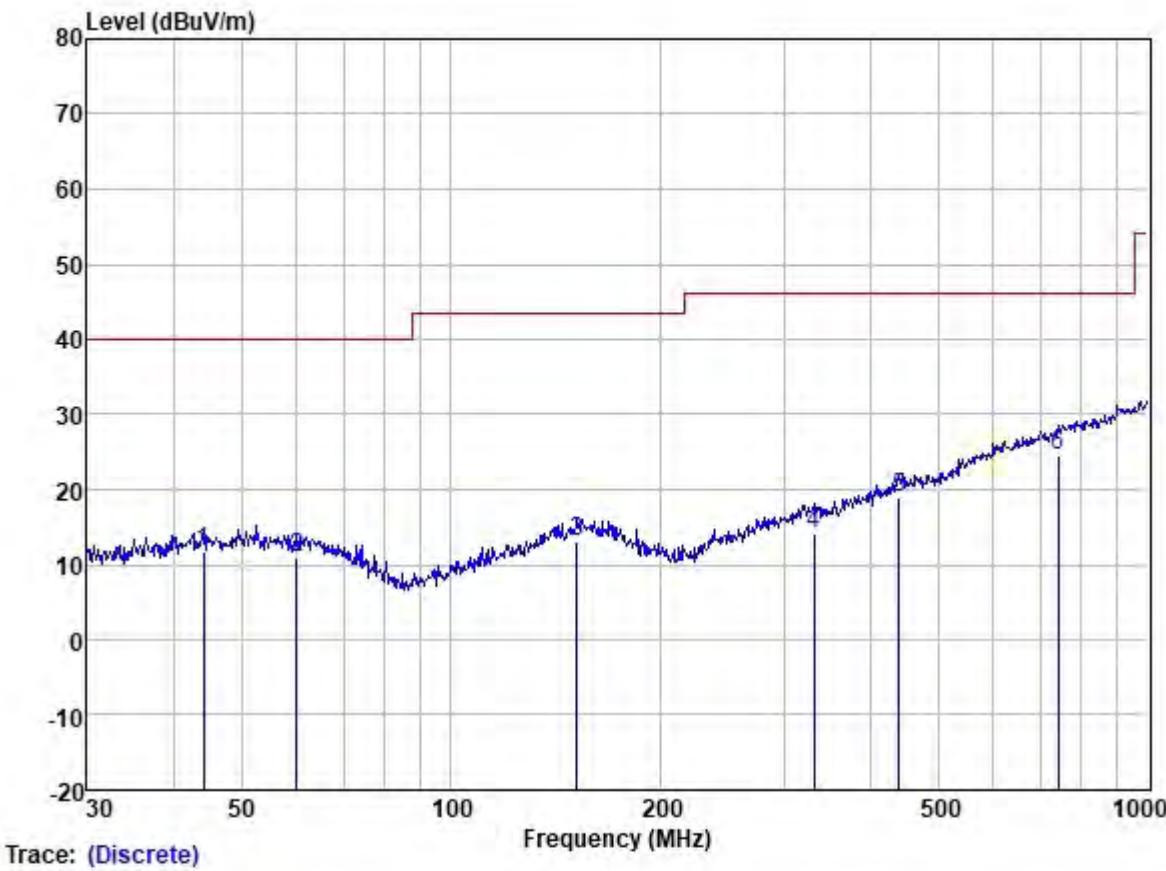
3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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Test Mode: 07; 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	
1 MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 44.12	24.16	13.61	1.12	27.17	11.72	40.00	-28.28	HORIZONTAL	QP
2 60.07	23.86	13.10	1.26	27.16	11.06	40.00	-28.94	HORIZONTAL	QP
3 151.60	24.27	13.49	2.26	26.83	13.19	43.50	-30.31	HORIZONTAL	QP
4 331.35	23.32	14.10	3.42	26.75	14.09	46.00	-31.91	HORIZONTAL	QP
5 440.20	25.59	16.80	4.13	27.57	18.95	46.00	-27.05	HORIZONTAL	QP
6 744.87	24.78	21.95	5.97	28.10	24.60	46.00	-21.40	HORIZONTAL	QP

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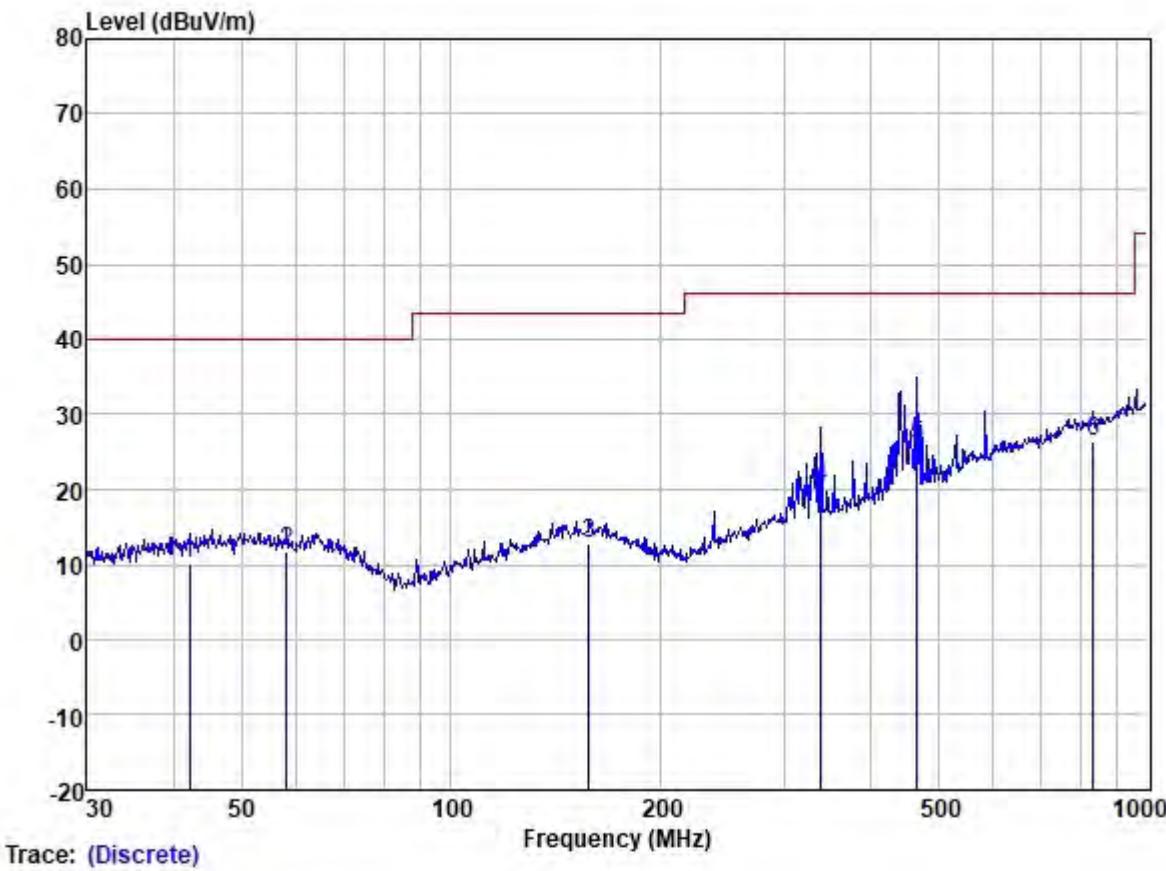
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Test Mode: 07; Polarity: Vertical



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

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 42.15	22.68	13.51	1.11	27.17	10.13	40.00	-29.87	VERTICAL	QP
2 58.00	24.27	13.50	1.23	27.16	11.84	40.00	-28.16	VERTICAL	QP
3 157.56	23.97	13.42	2.31	26.80	12.90	43.50	-30.60	VERTICAL	QP
4 339.59	29.60	14.10	3.50	26.84	20.36	46.00	-25.64	VERTICAL	QP
5 467.24	32.36	17.17	4.29	27.83	25.99	46.00	-20.01	VERTICAL	QP
6 836.24	25.54	22.40	6.46	27.97	26.43	46.00	-19.57	VERTICAL	QP

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7.10 Radiated Spurious Emissions (Above 1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
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.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 57.0 % RH Atmospheric Pressure: 1015 mbar

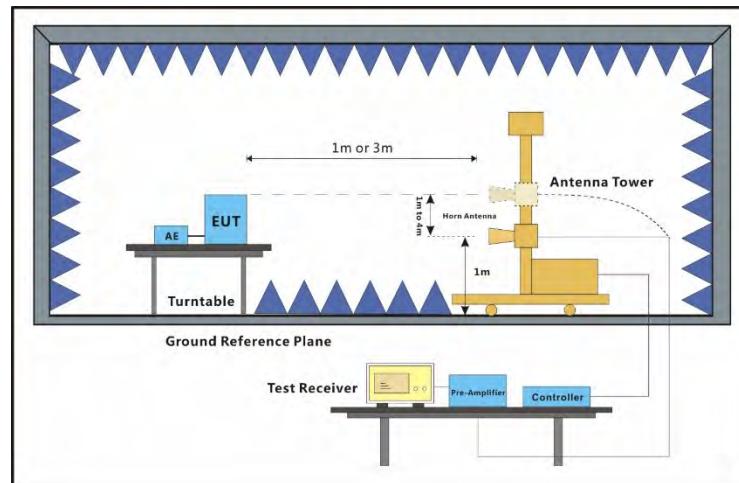
7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 1Mbps.
Final test	07	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 1Mbps.
Pre-scan	08	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation for 2Mbps.
Final test	09	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for 2Mbps.

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7.10.3 Test Setup Diagram

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7.10.4 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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

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) 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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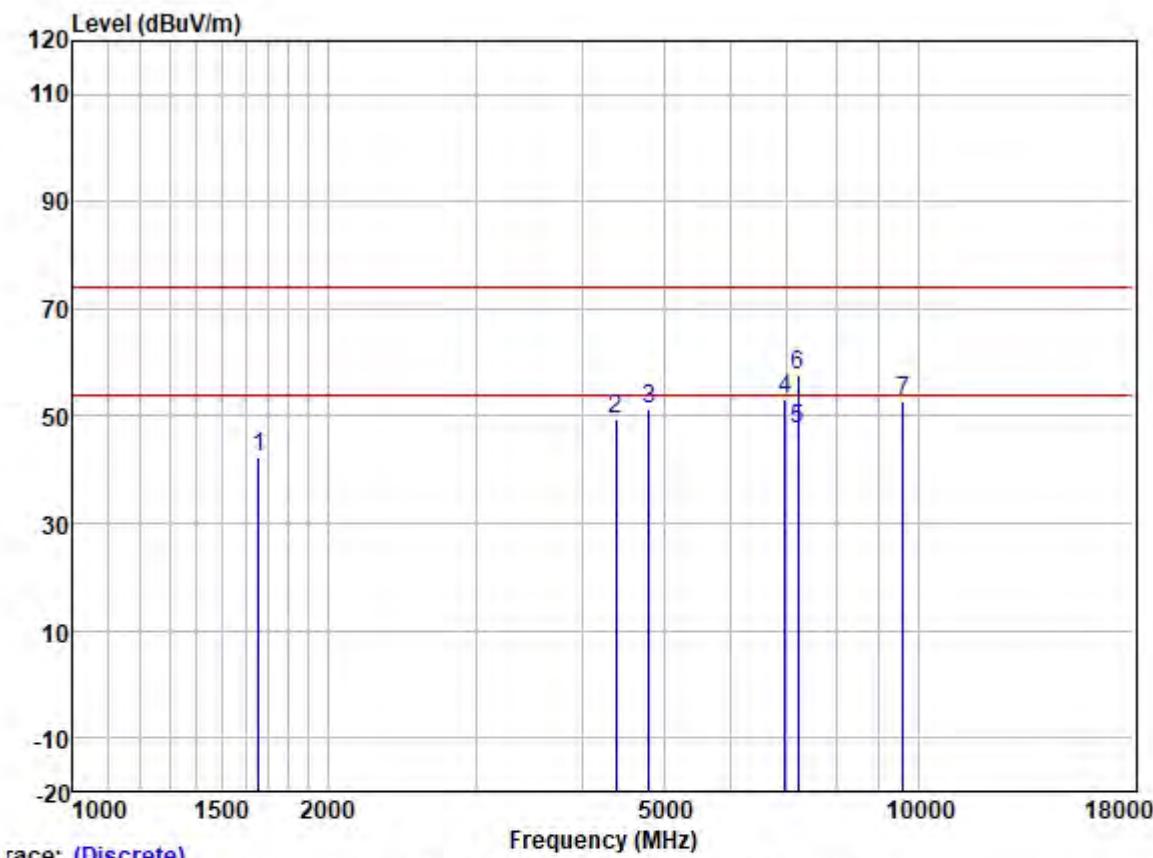


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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Line	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	1658.337	51.88	25.65	2.80	37.93	42.40	74.00	-31.60	HORIZONTAL	Peak
2	4392.376	51.03	30.66	4.70	36.81	49.58	74.00	-24.42	HORIZONTAL	Peak
3	4804.000	51.46	31.42	5.40	36.83	51.45	74.00	-22.55	HORIZONTAL	Peak
4	6954.852	49.46	34.95	5.81	37.21	53.01	74.00	-20.99	HORIZONTAL	Peak
5	7206.000	43.52	35.54	5.98	37.38	47.66	54.00	-6.34	HORIZONTAL	Average
6	7206.000	53.38	35.54	5.98	37.38	57.52	74.00	-16.48	HORIZONTAL	Peak
7	9608.000	44.74	38.37	7.07	37.42	52.76	74.00	-21.24	HORIZONTAL	Peak

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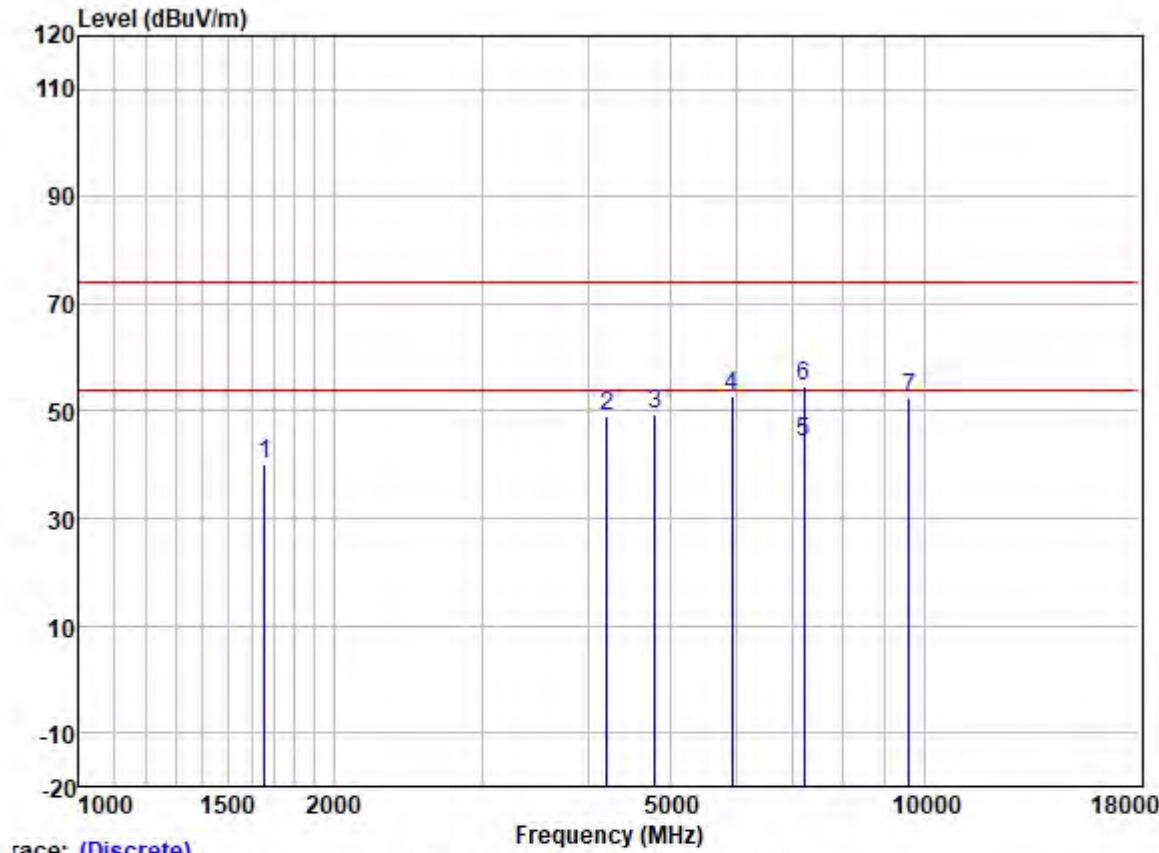
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Pol/Phase	Remark
	MHz	Level	Factor	Loss						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	49.43	25.65	2.80	37.93	39.95	74.00	-34.05	VERTICAL	Peak
2	4218.186	50.96	30.22	4.60	36.81	48.97	74.00	-25.03	VERTICAL	Peak
3	4804.000	49.45	31.42	5.40	36.83	49.44	74.00	-24.56	VERTICAL	Peak
4	5932.638	51.24	32.34	6.00	36.90	52.68	74.00	-21.32	VERTICAL	Peak
5	7206.000	39.89	35.54	5.98	37.38	44.03	54.00	-9.97	VERTICAL	Average
6	7206.000	50.45	35.54	5.98	37.38	54.59	74.00	-19.41	VERTICAL	Peak
7	9608.000	44.23	38.37	7.07	37.42	52.25	74.00	-21.75	VERTICAL	Peak

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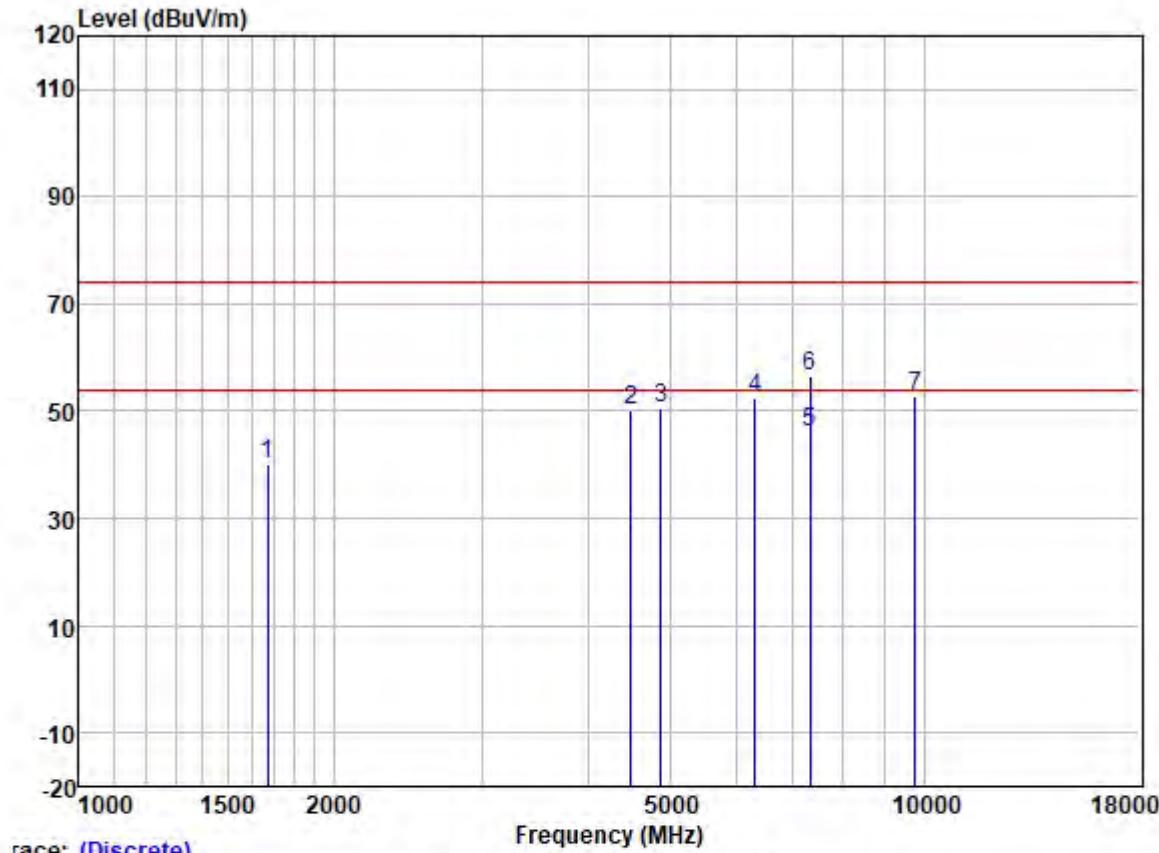
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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Trace: (Discrete)	ReadAntenna		Cable		Preamp	Limit	Over	Over	Over	Over	Over	Remark
	Freq	Level	Factor	Loss								
	MHz	dBuV	dB/m		dB	dBuV/m	dBuV/m		dB			
1	1672.779	49.64	25.67		2.80	37.91	40.20	74.00	-33.80	HORIZONTAL	Peak	
2	4495.125	51.23	30.80		5.05	36.82	50.26	74.00	-23.74	HORIZONTAL	Peak	
3	4880.000	50.47	31.54		5.50	36.84	50.67	74.00	-23.33	HORIZONTAL	Peak	
4	6303.890	50.06	33.44		5.97	36.96	52.51	74.00	-21.49	HORIZONTAL	Peak	
5	7320.000	41.29	36.00		6.13	37.43	45.99	54.00	-8.01	HORIZONTAL	Average	
6	7320.000	51.71	36.00		6.13	37.43	56.41	74.00	-17.59	HORIZONTAL	Peak	
7	9760.000	44.79	38.50		7.02	37.41	52.90	74.00	-21.10	HORIZONTAL	Peak	

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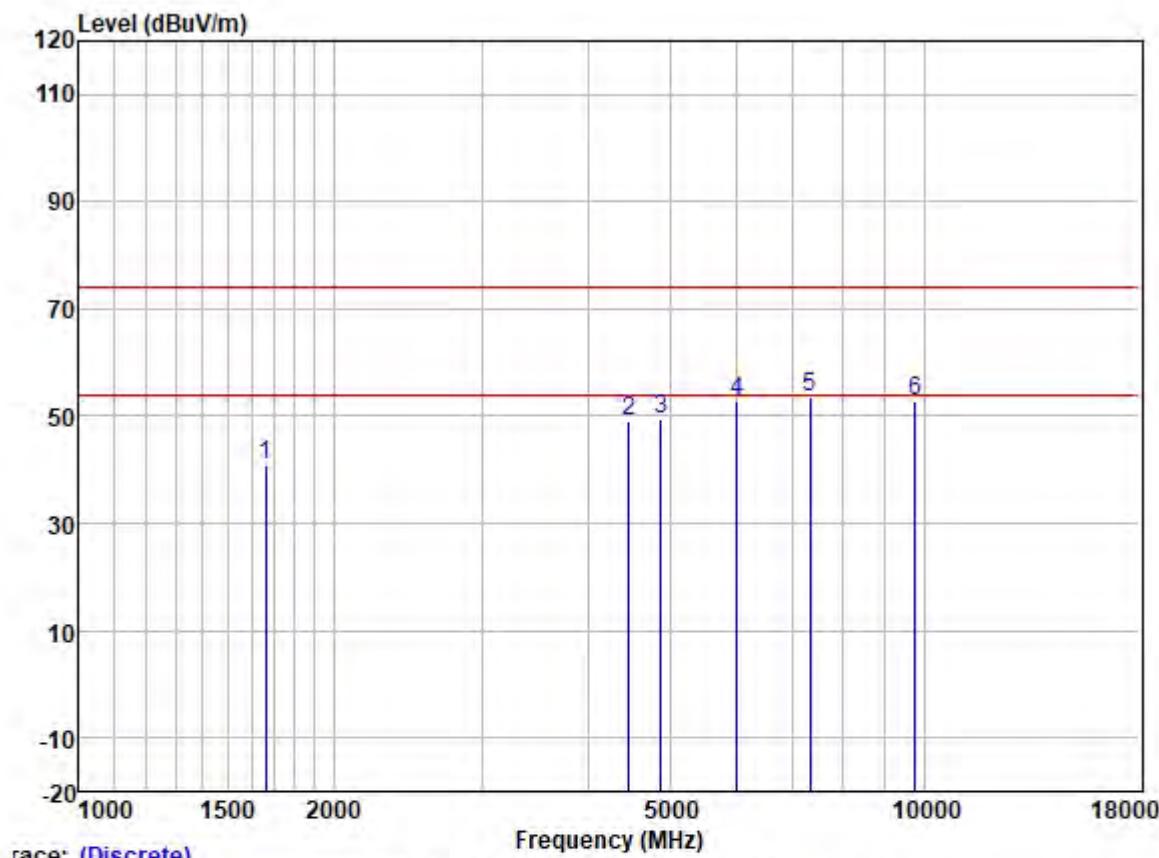
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:middle



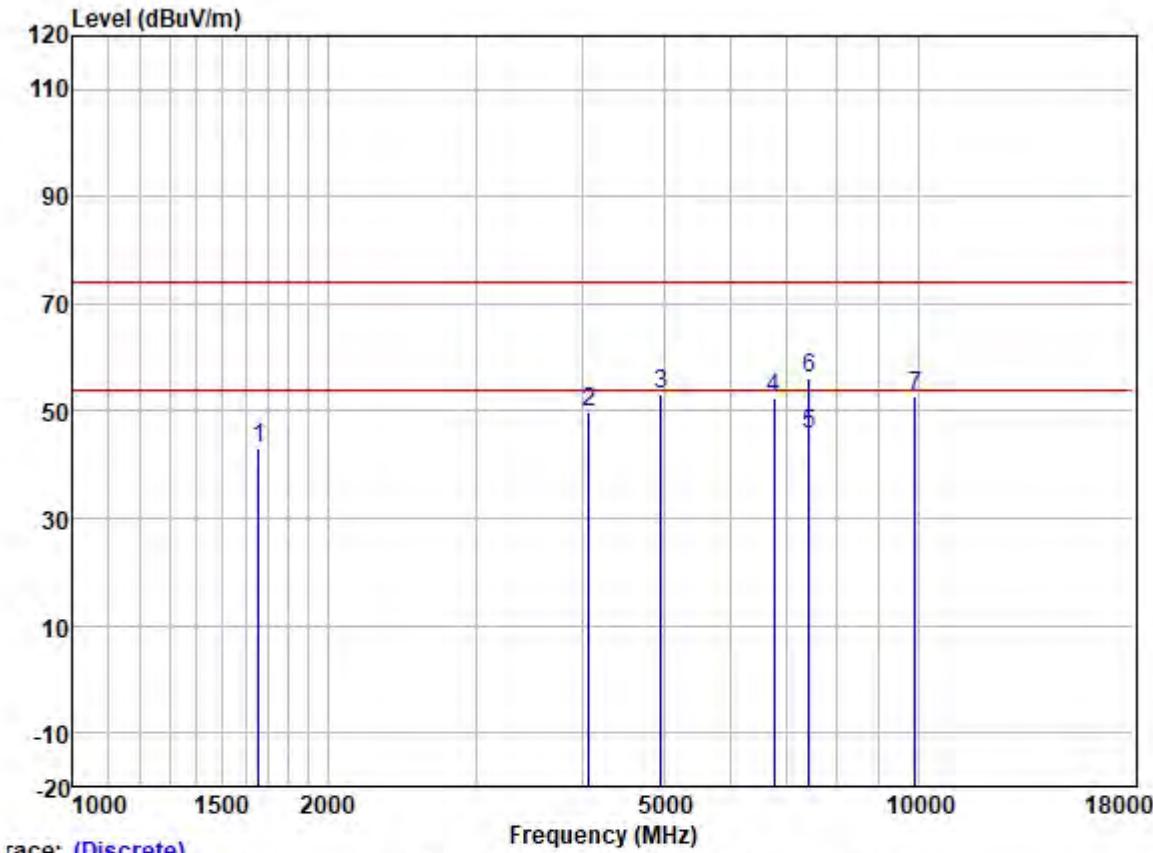
Trace: (Discrete)	ReadAntenna		Cable		Preamp	Limit	Over	Over	Over	Over	Remark
	Freq	Level	Factor	Loss							
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	
1	1663.137	50.13	25.65	2.80	37.91	40.67	74.00	-33.33	VERTICAL	Peak	
2	4469.214	50.26	30.77	4.93	36.81	49.15	74.00	-24.85	VERTICAL	Peak	
3	4880.000	49.21	31.54	5.50	36.84	49.41	74.00	-24.59	VERTICAL	Peak	
4	6001.626	50.94	32.40	6.20	36.90	52.64	74.00	-21.36	VERTICAL	Peak	
5	7320.000	48.71	36.00	6.13	37.43	53.41	74.00	-20.59	VERTICAL	Peak	
6	9760.000	44.74	38.50	7.02	37.41	52.85	74.00	-21.15	VERTICAL	Peak	

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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:High



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1658.337	52.71	25.65	2.80	37.93	43.23	74.00	-30.77	HORIZONTAL Peak
2	4074.388	52.01	29.90	4.60	36.80	49.71	74.00	-24.29	HORIZONTAL Peak
3	4960.000	52.83	31.65	5.65	36.84	53.29	74.00	-20.71	HORIZONTAL Peak
4	6756.708	49.23	34.56	5.82	37.10	52.51	74.00	-21.49	HORIZONTAL Peak
5	7440.000	40.51	36.27	6.22	37.47	45.53	54.00	-8.47	HORIZONTAL Average
6	7440.000	50.97	36.27	6.22	37.47	55.99	74.00	-18.01	HORIZONTAL Peak
7	9920.000	44.72	38.65	6.96	37.40	52.93	74.00	-21.07	HORIZONTAL Peak

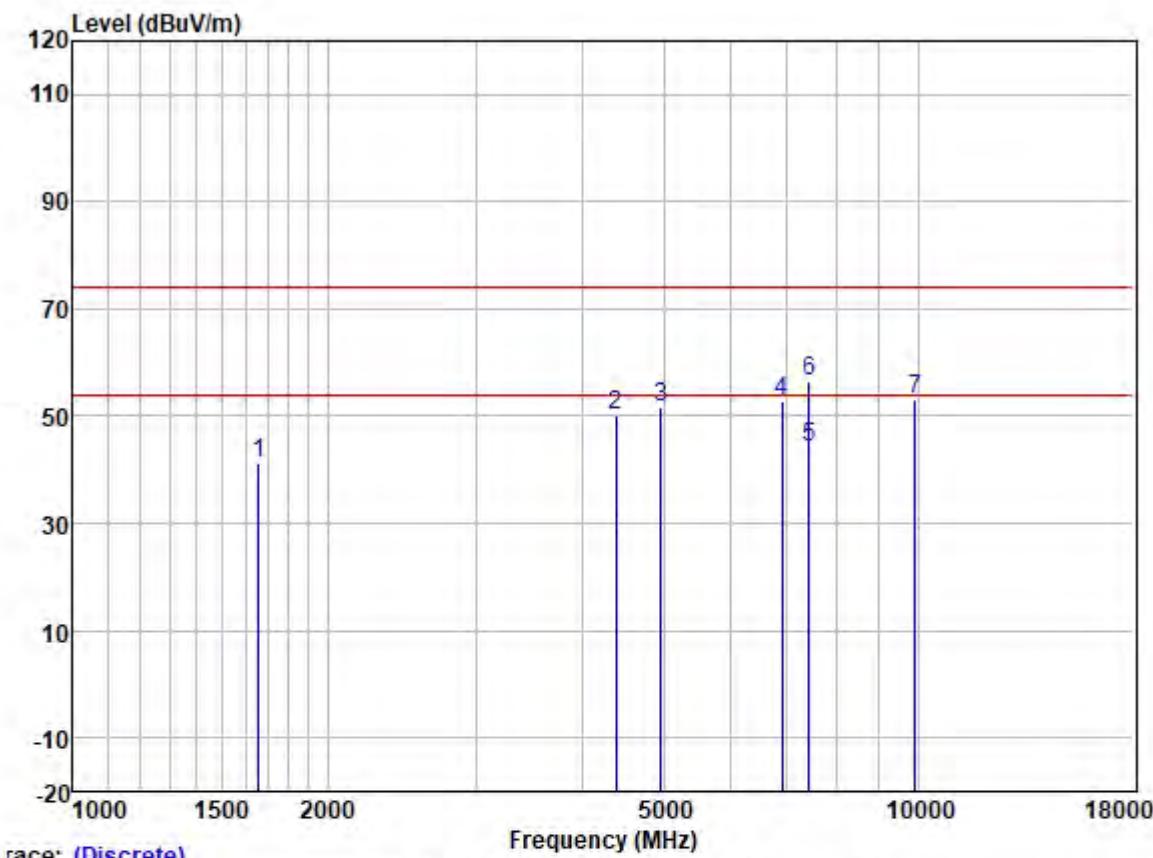
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Over	Over	Over	Remark
	MHz	Level	Factor	Loss								
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	
1	1658.337	50.84	25.65	2.80	37.93	41.36	74.00	-32.64	VERTICAL	Peak	Peak	
2	4392.376	51.51	30.66	4.70	36.81	50.06	74.00	-23.94	VERTICAL	Peak	Peak	
3	4960.000	51.21	31.65	5.65	36.84	51.67	74.00	-22.33	VERTICAL	Peak	Peak	
4	6894.806	49.41	34.85	5.81	37.18	52.89	74.00	-21.11	VERTICAL	Peak	Peak	
5	7440.000	39.36	36.27	6.22	37.47	44.38	54.00	-9.62	VERTICAL	Average	Peak	
6	7440.000	51.35	36.27	6.22	37.47	56.37	74.00	-17.63	VERTICAL	Peak	Peak	
7	9920.000	44.96	38.65	6.96	37.40	53.17	74.00	-20.83	VERTICAL	Peak	Peak	

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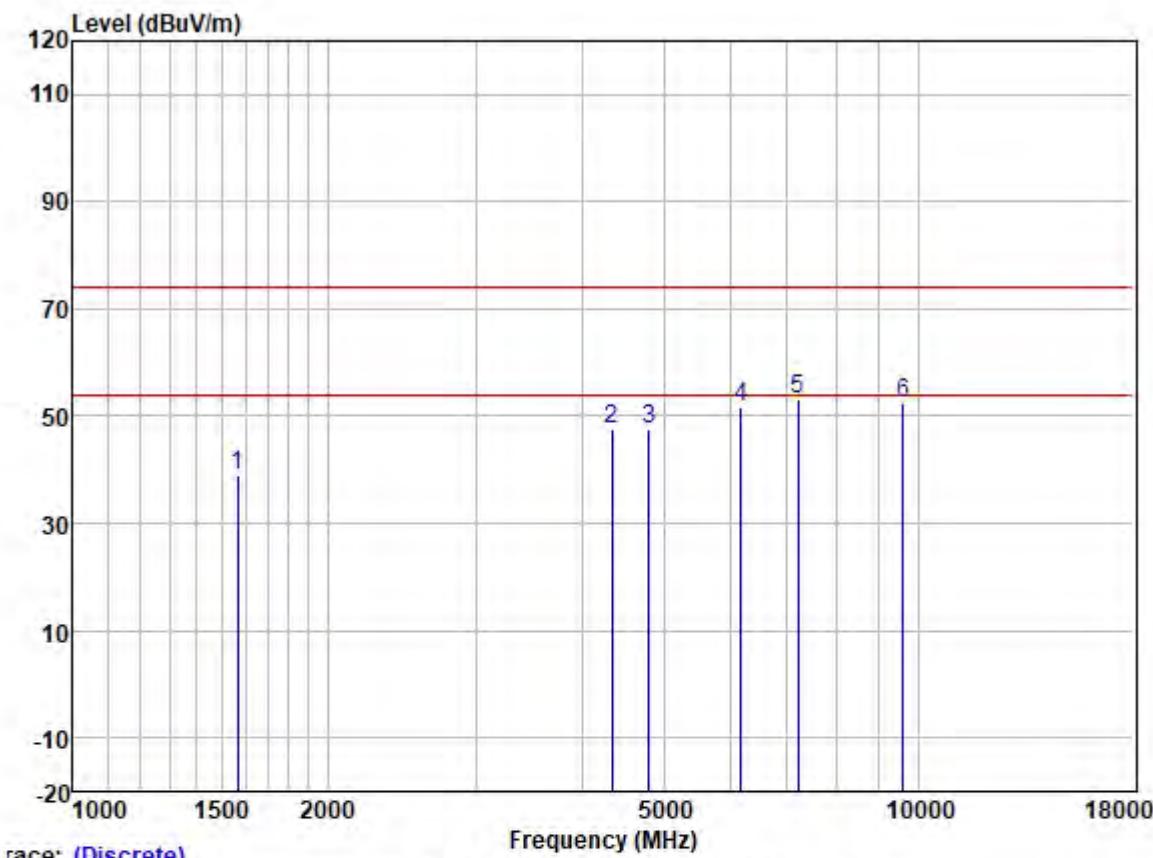
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Test Mode: 09; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Over	Over	Over	Remark
	MHz	Level	Factor	Loss								
	MHz	dBuV	dB/m		dB	dBuV/m	dBuV/m					
1	1565.191	48.48	25.55	2.80	38.00	38.83	74.00	-35.17	HORIZONTAL	Peak		
2	4341.886	49.29	30.57	4.67	36.81	47.72	74.00	-26.28	HORIZONTAL	Peak		
3	4804.000	47.73	31.42	5.40	36.83	47.72	74.00	-26.28	HORIZONTAL	Peak		
4	6177.627	49.57	32.89	6.09	36.93	51.62	74.00	-22.38	HORIZONTAL	Peak		
5	7206.000	48.86	35.54	5.98	37.38	53.00	74.00	-21.00	HORIZONTAL	Peak		
6	9608.000	44.53	38.37	7.07	37.42	52.55	74.00	-21.45	HORIZONTAL	Peak		

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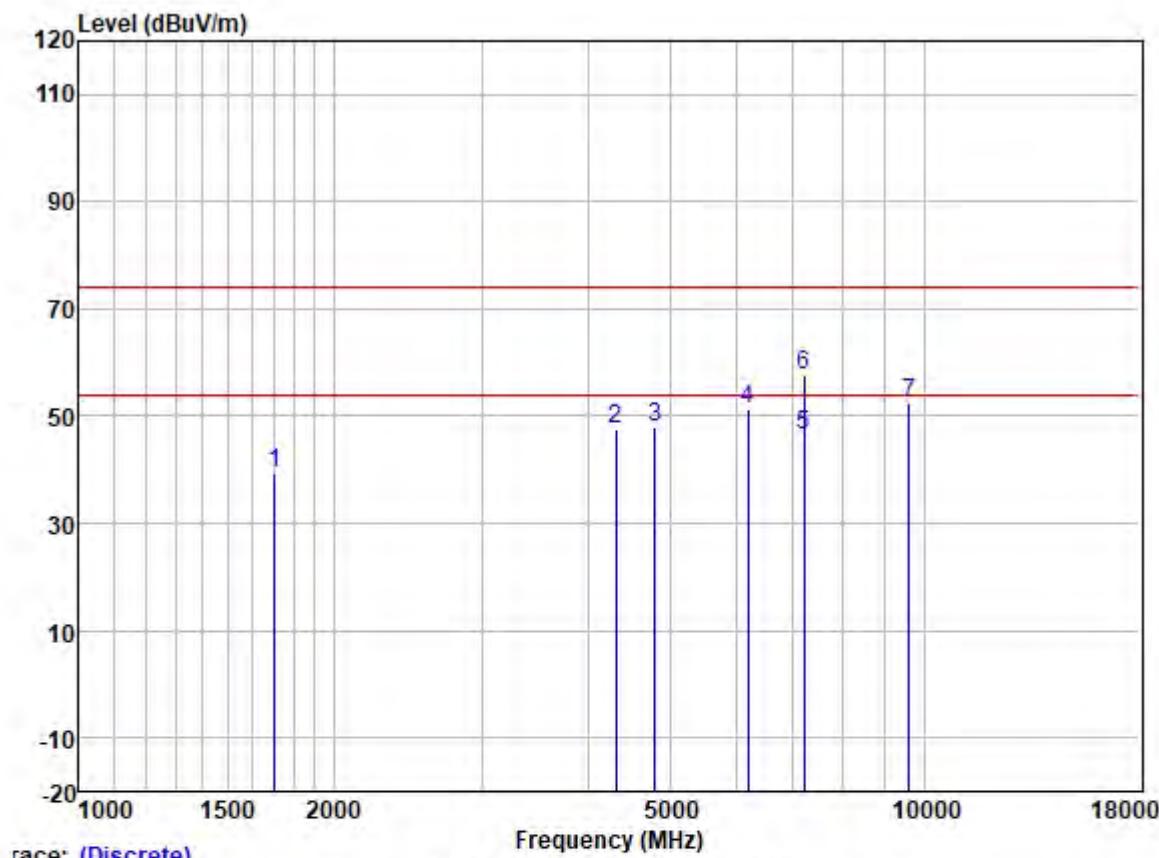
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Test Mode: 09; Polarity: Vertical; Modulation:GFSK; Channel:Low



Mode: (Discrete)

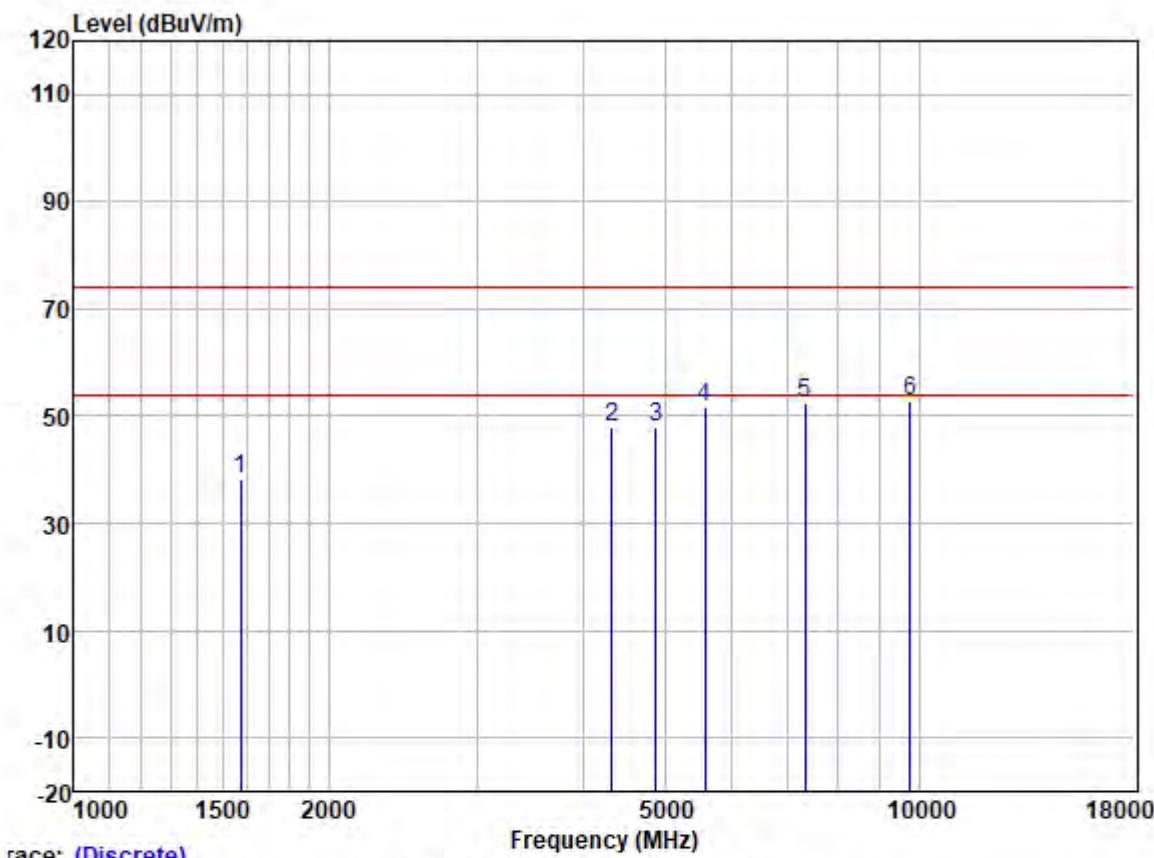
Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Over	Over	Over	Remark
	MHz	Level	Factor	Loss								
	MHz	dBuV	dB/m		dB	dBuV/m	dBuV/m					
1	1702.042	48.83	25.72	2.80	37.89	39.46	74.00	-34.54	VERTICAL	Peak		
2	4316.859	49.26	30.51	4.66	36.81	47.62	74.00	-26.38	VERTICAL	Peak		
3	4804.000	47.86	31.42	5.40	36.83	47.85	74.00	-26.15	VERTICAL	Peak		
4	6195.508	49.18	32.96	6.07	36.94	51.27	74.00	-22.73	VERTICAL	Peak		
5	7206.000	42.17	35.54	5.98	37.38	46.31	54.00	-7.69	VERTICAL	Average		
6	7206.000	53.41	35.54	5.98	37.38	57.55	74.00	-16.45	VERTICAL	Peak		
7	9608.000	44.29	38.37	7.07	37.42	52.31	74.00	-21.69	VERTICAL	Peak		

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Test Mode: 09; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Over	Over	Over	Remark
	MHz	Level	Factor	Loss								
	MHz	dBuV	dB/m		dB	dBuV/m	dBuV/m					
1	1574.265	47.87	25.56	2.80	38.00	38.23	74.00	-35.77	HORIZONTAL	Peak		
2	4329.354	49.37	30.54	4.67	36.81	47.77	74.00	-26.23	HORIZONTAL	Peak		
3	4880.000	47.79	31.54	5.50	36.84	47.99	74.00	-26.01	HORIZONTAL	Peak		
4	5583.251	50.50	31.87	6.32	36.89	51.80	74.00	-22.20	HORIZONTAL	Peak		
5	7320.000	47.65	36.00	6.13	37.43	52.35	74.00	-21.65	HORIZONTAL	Peak		
6	9760.000	44.83	38.50	7.02	37.41	52.94	74.00	-21.06	HORIZONTAL	Peak		

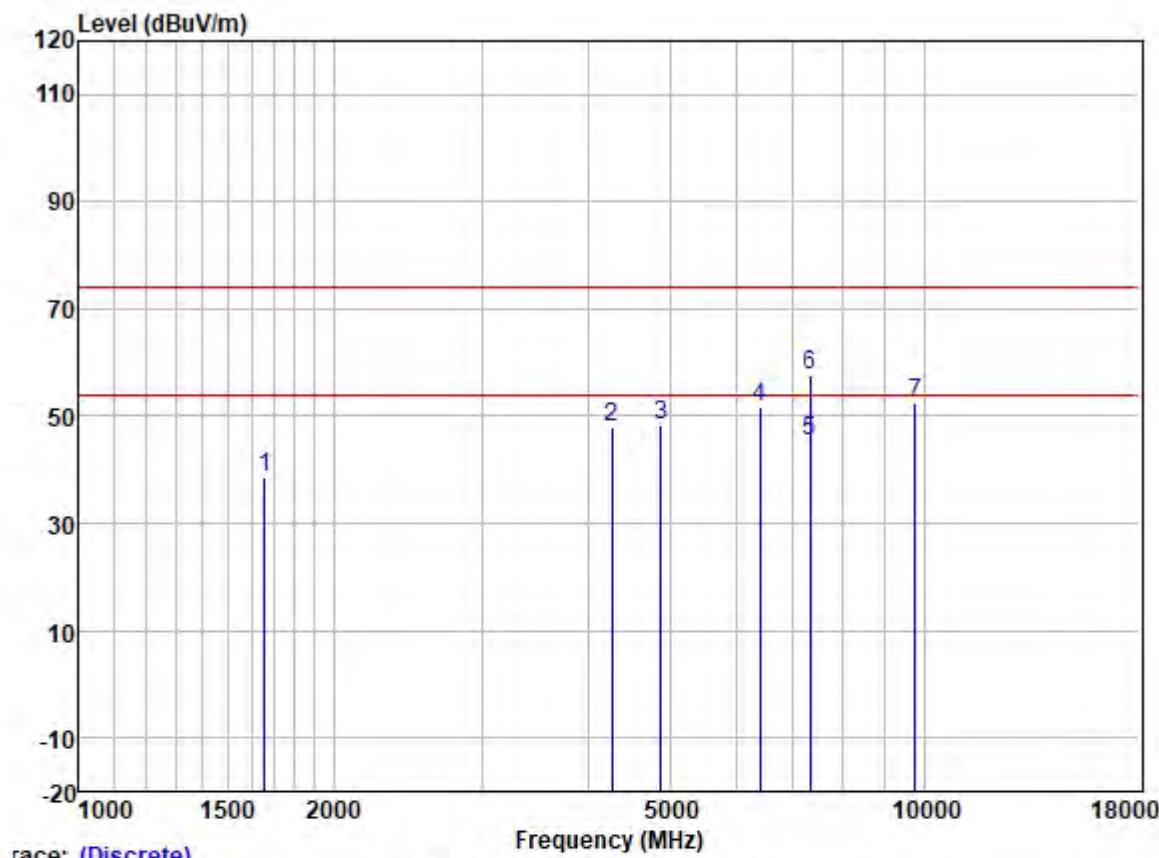
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Test Mode: 09; Polarity: Vertical; Modulation:GFSK; Channel:middle



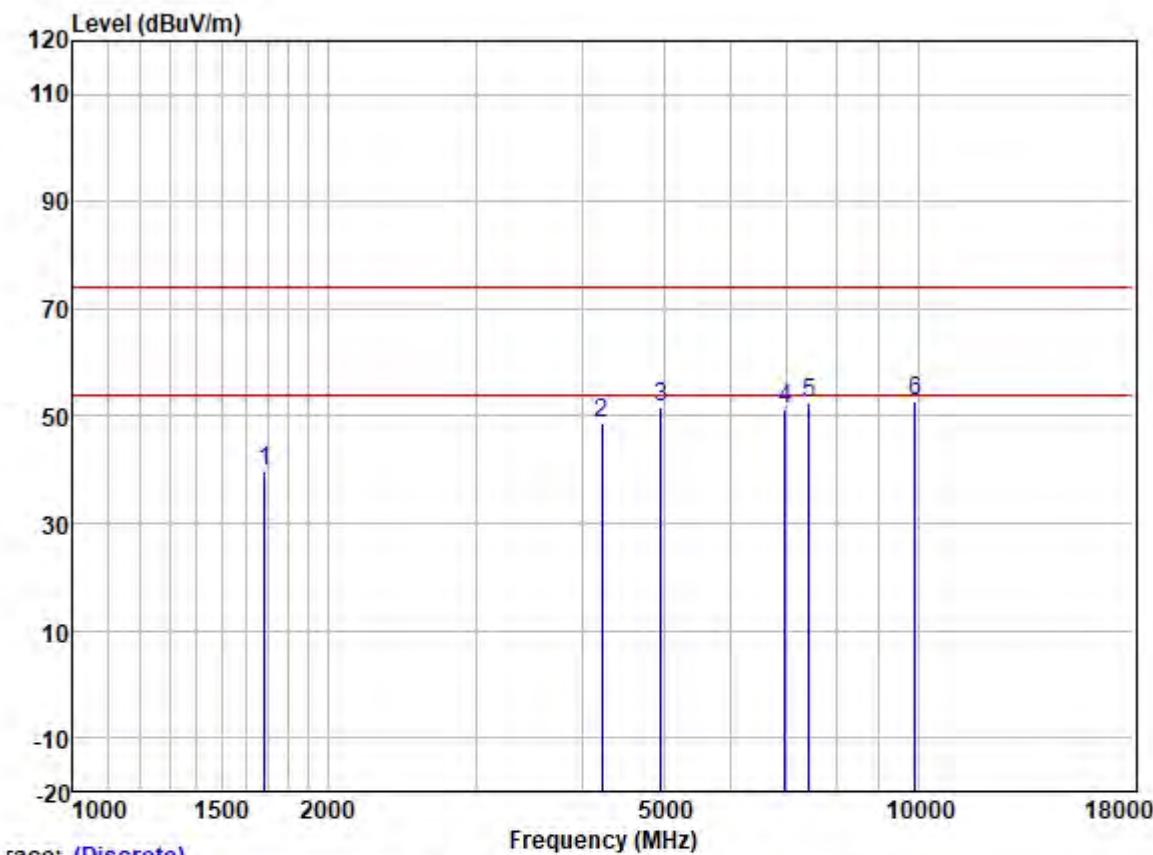
Index: (Discrete)	ReadAntenna		Cable Preamp		Limit	Over	Over	Over	Over	Over	Remark
	Freq	Level	Factor	Loss	Factor	Level	Line	Line	Line	Line	Line
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	
1	1658.337	48.23	25.65	2.80	37.93	38.75	74.00	-35.25	VERTICAL	Peak	
2	4267.237	49.75	30.38	4.63	36.81	47.95	74.00	-26.05	VERTICAL	Peak	
3	4880.000	48.01	31.54	5.50	36.84	48.21	74.00	-25.79	VERTICAL	Peak	
4	6395.654	48.97	33.74	5.90	36.98	51.63	74.00	-22.37	VERTICAL	Peak	
5	7320.000	40.56	36.00	6.13	37.43	45.26	54.00	-8.74	VERTICAL	Average	
6	7320.000	52.80	36.00	6.13	37.43	57.50	74.00	-16.50	VERTICAL	Peak	
7	9760.000	44.41	38.50	7.02	37.41	52.52	74.00	-21.48	VERTICAL	Peak	

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Test Mode: 09; Polarity: Horizontal; Modulation:GFSK; Channel:High



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Over	Over	Remark
	MHz	Level	Factor	Loss							
	MHz	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m	dB		
1	1687.347	49.21	25.69	2.80	37.91	39.79	74.00	-34.21	HORIZONTAL	Peak	
2	4230.396	50.60	30.26	4.61	36.81	48.66	74.00	-25.34	HORIZONTAL	Peak	
3	4960.000	51.28	31.65	5.65	36.84	51.74	74.00	-22.26	HORIZONTAL	Peak	
4	6954.852	47.82	34.95	5.81	37.21	51.37	74.00	-22.63	HORIZONTAL	Peak	
5	7440.000	47.31	36.27	6.22	37.47	52.33	74.00	-21.67	HORIZONTAL	Peak	
6	9920.000	44.45	38.65	6.96	37.40	52.66	74.00	-21.34	HORIZONTAL	Peak	

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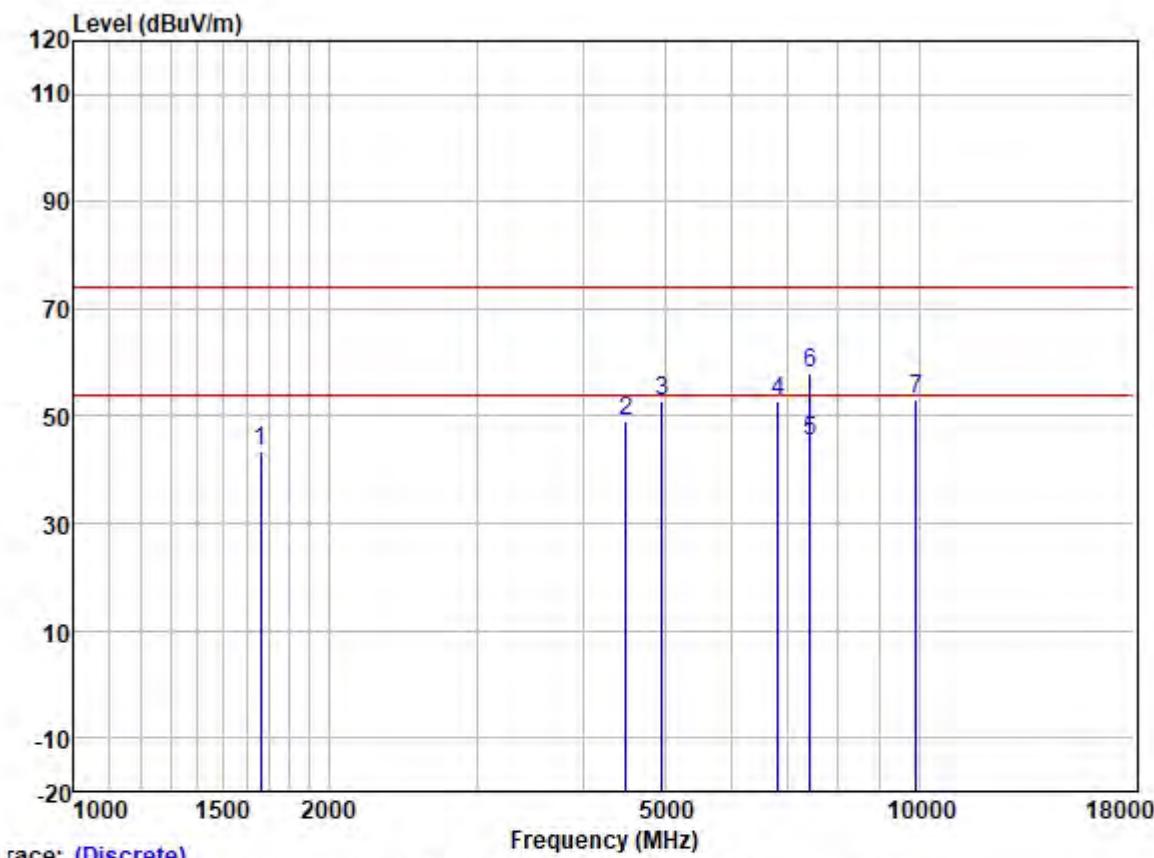
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Test Mode: 09; Polarity: Vertical; Modulation:GFSK; Channel:High



Trace: (Discrete)	ReadAntenna		Cable Preamp		Limit	Over	Over	Over	Over	Over	Remark
	Freq	Level	Factor	Loss	Factor	Level	Line	Line	Line	Line	Line
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	
1	1663.137	52.85	25.65	2.80	37.91	43.39	74.00	-30.61	VERTICAL	Peak	
2	4495.125	50.01	30.80	5.05	36.82	49.04	74.00	-24.96	VERTICAL	Peak	
3	4960.000	52.29	31.65	5.65	36.84	52.75	74.00	-21.25	VERTICAL	Peak	
4	6815.551	49.55	34.70	5.82	37.13	52.94	74.00	-21.06	VERTICAL	Peak	
5	7440.000	40.38	36.27	6.22	37.47	45.40	54.00	-8.60	VERTICAL	Average	
6	7440.000	52.94	36.27	6.22	37.47	57.96	74.00	-16.04	VERTICAL	Peak	
7	9920.000	45.04	38.65	6.96	37.40	53.25	74.00	-20.75	VERTICAL	Peak	

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8 Test Setup Photo

Refer to Appendix – Test Setup Photos for GZCR2202000157AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2202000157AT

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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

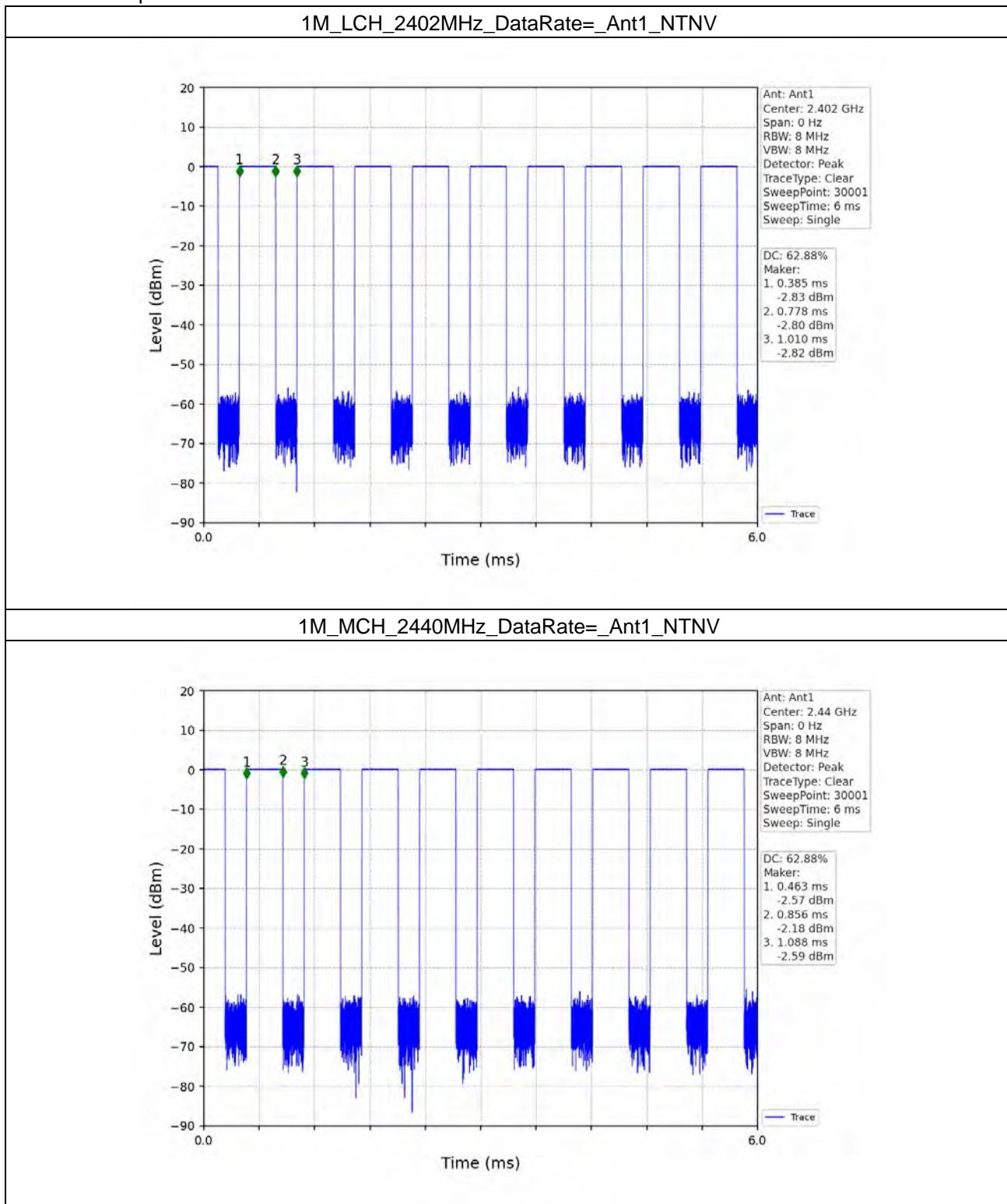
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.393	0.625	62.88	2.01	0.00
		2440	0.393	0.625	62.88	2.01	0.00
		2480	0.393	0.625	62.88	2.01	0.00
2M	SISO	2402	0.207	0.625	33.12	4.80	0.02
		2440	0.063	0.625	10.08	9.97	0.00
		2480	0.064	0.625	10.24	9.90	0.00



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1.1.2 Test Graph

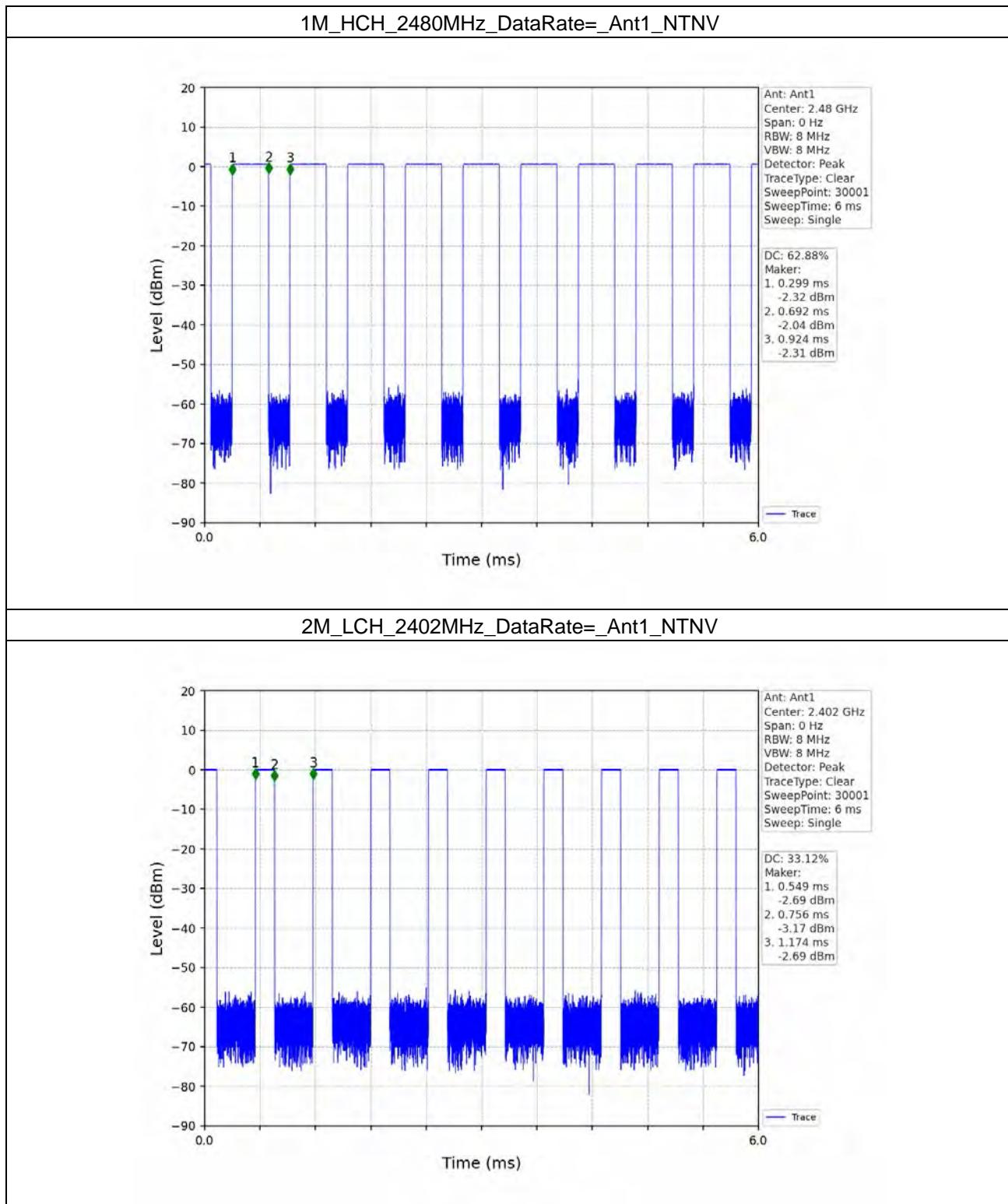


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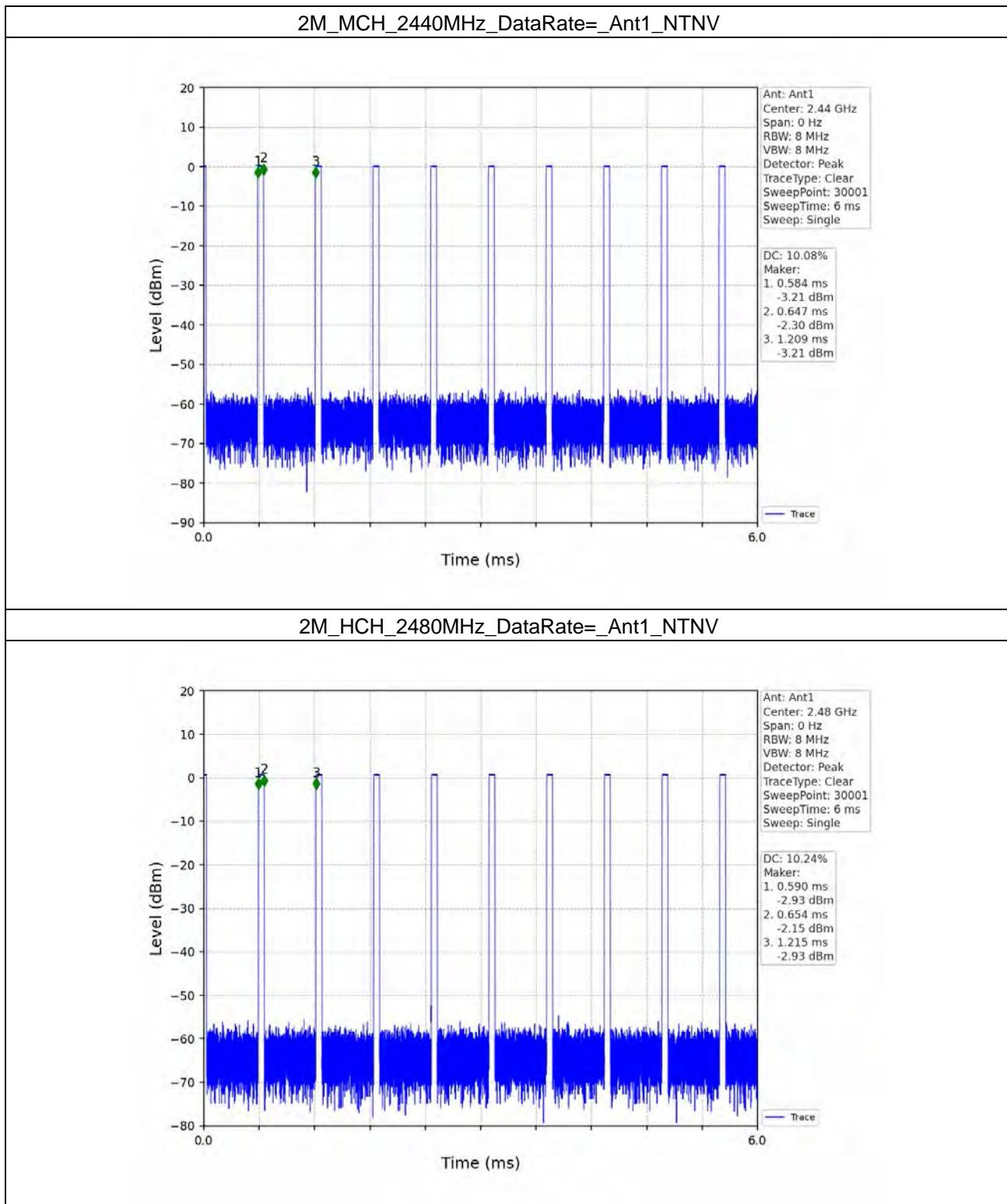


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2. Bandwidth

2.1 6dB BW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.706	>=0.5	Pass
		2440	1	0.696	>=0.5	Pass
		2480	1	0.697	>=0.5	Pass
2M	SISO	2402	1	1.142	>=0.5	Pass
		2440	1	1.186	>=0.5	Pass
		2480	1	1.190	>=0.5	Pass

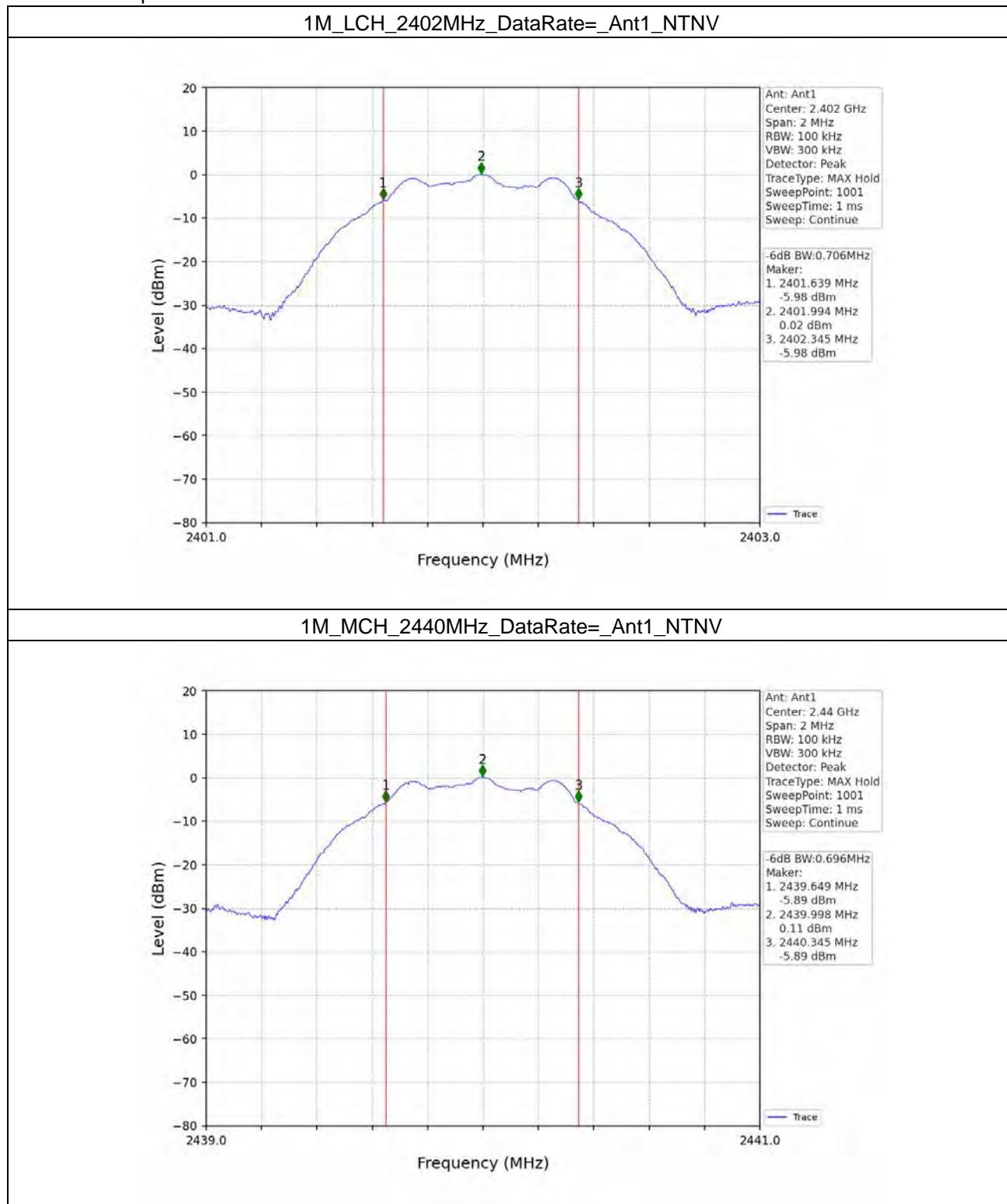
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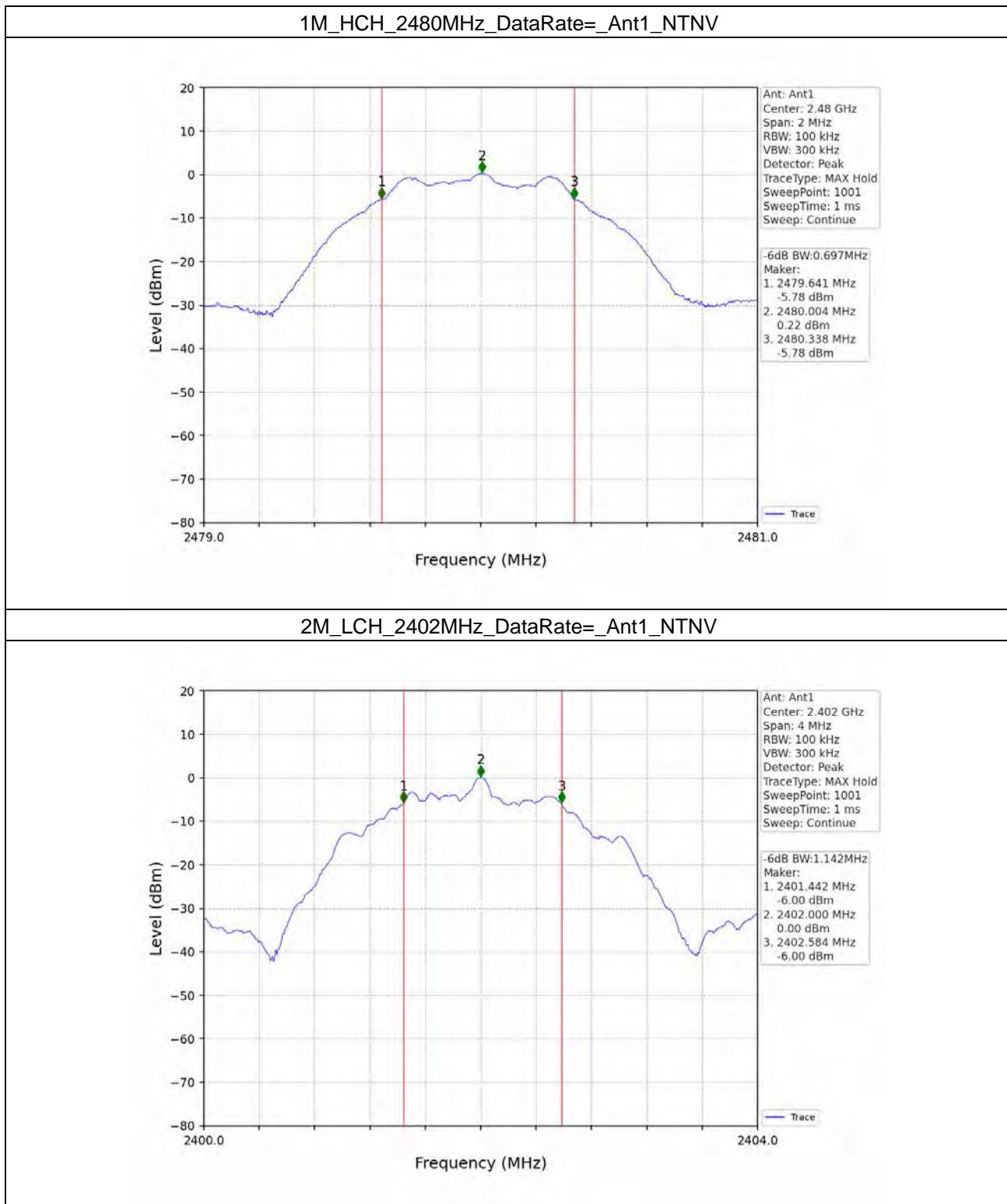
2.1.2 Test Graph



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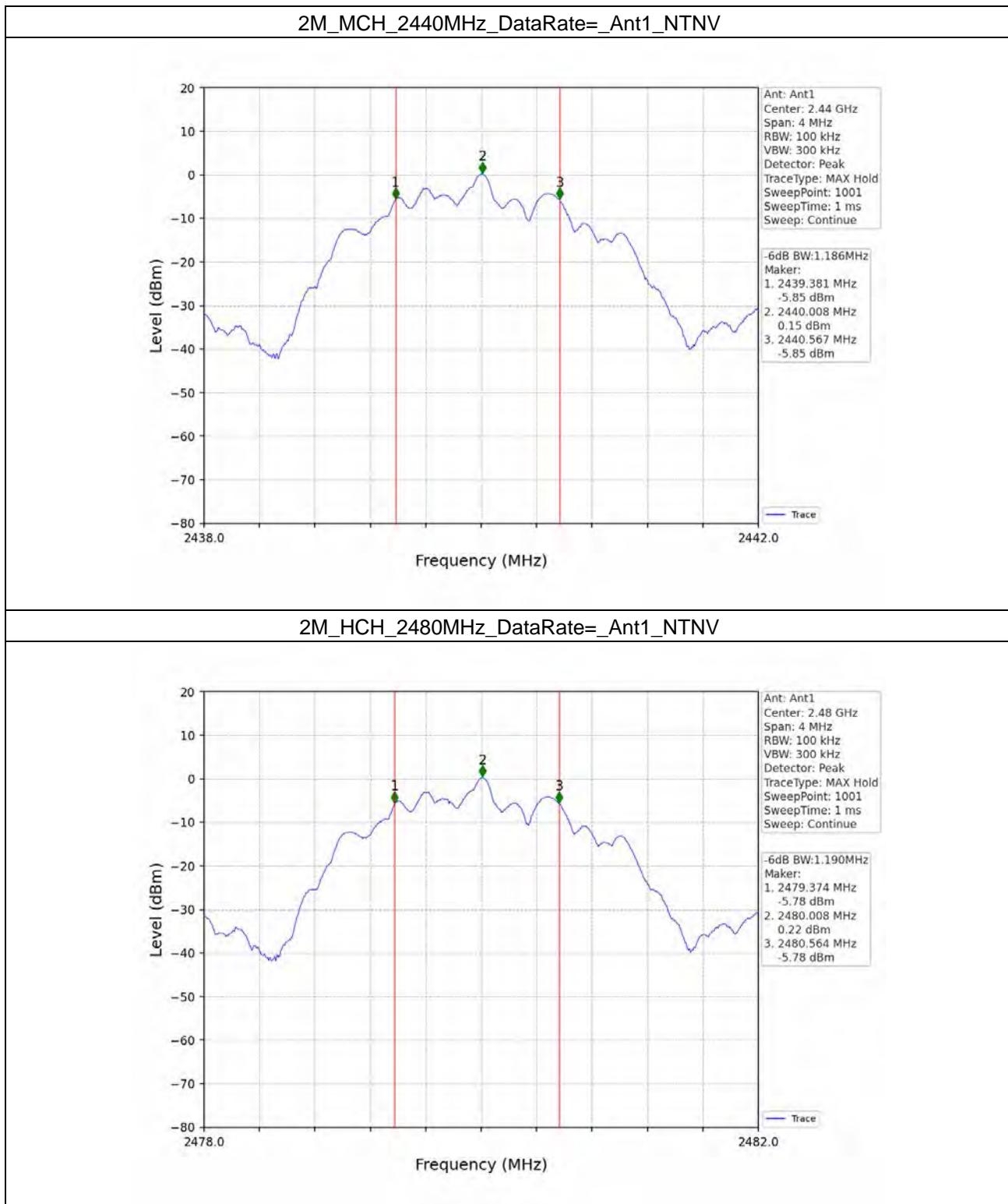




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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

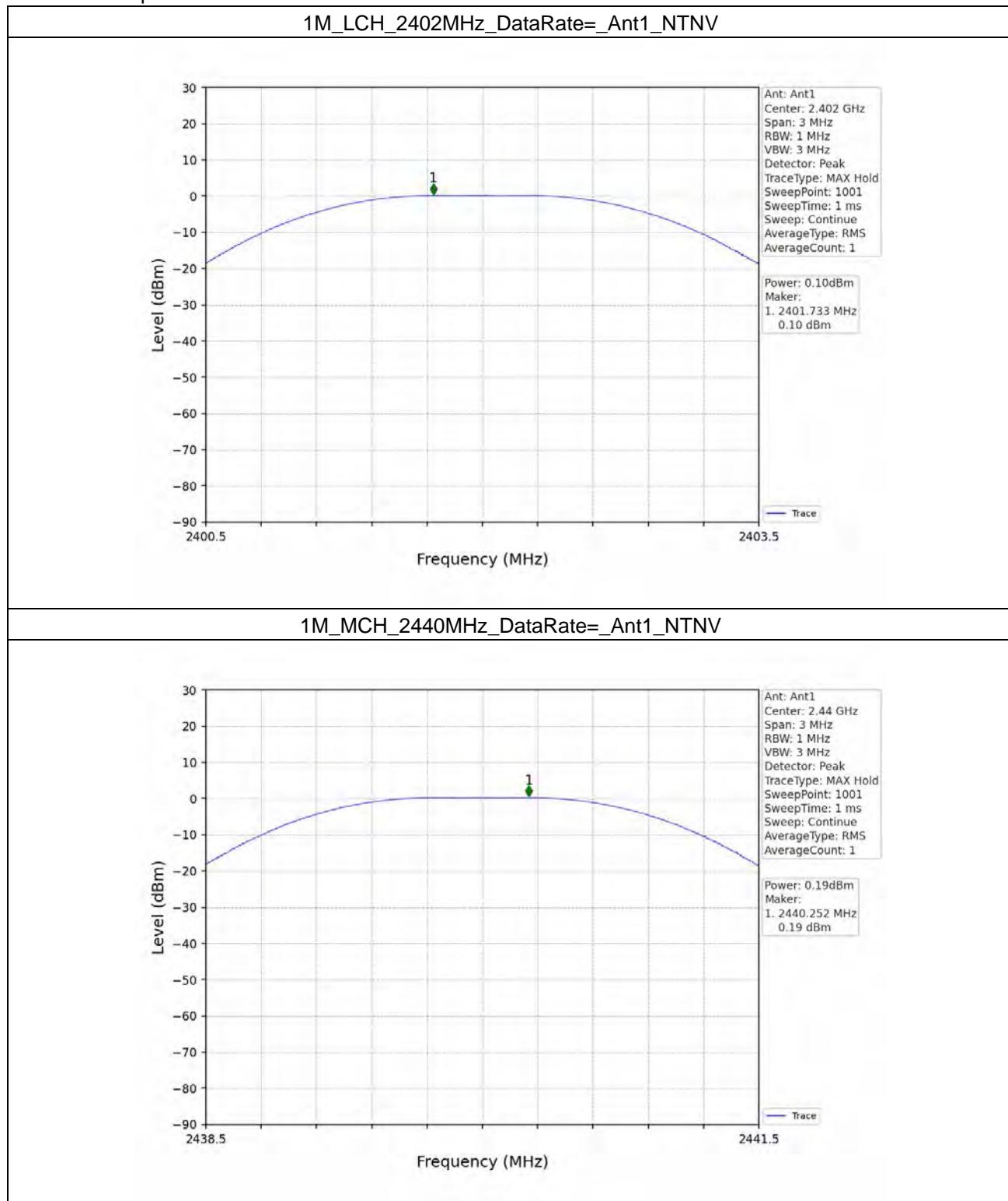
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
1M	SISO	2402	0.10	<=30	Pass
		2440	0.19	<=30	Pass
		2480	0.32	<=30	Pass
2M	SISO	2402	0.04	<=30	Pass
		2440	0.19	<=30	Pass
		2480	0.28	<=30	Pass

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3.1.2 Test Graph

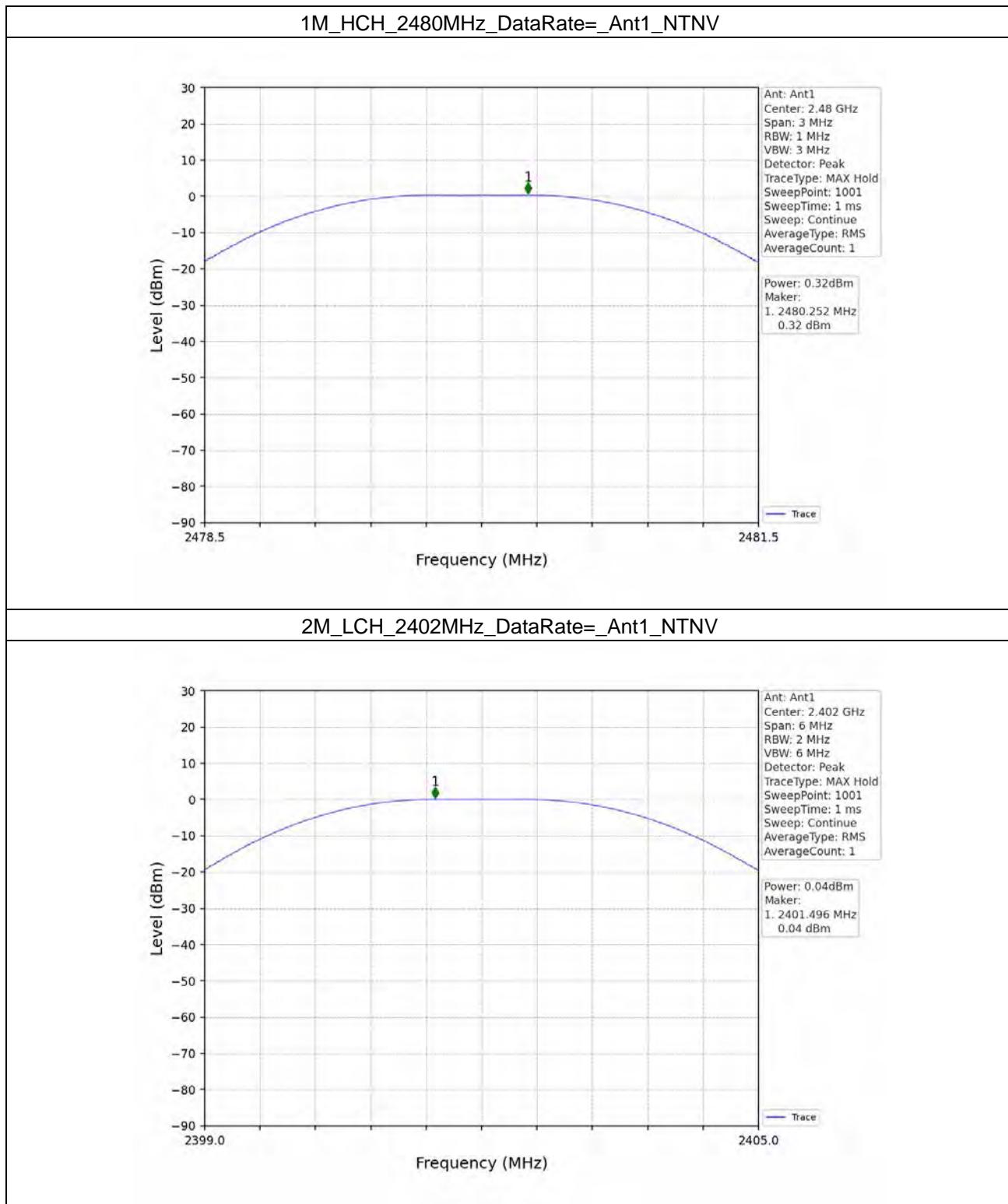


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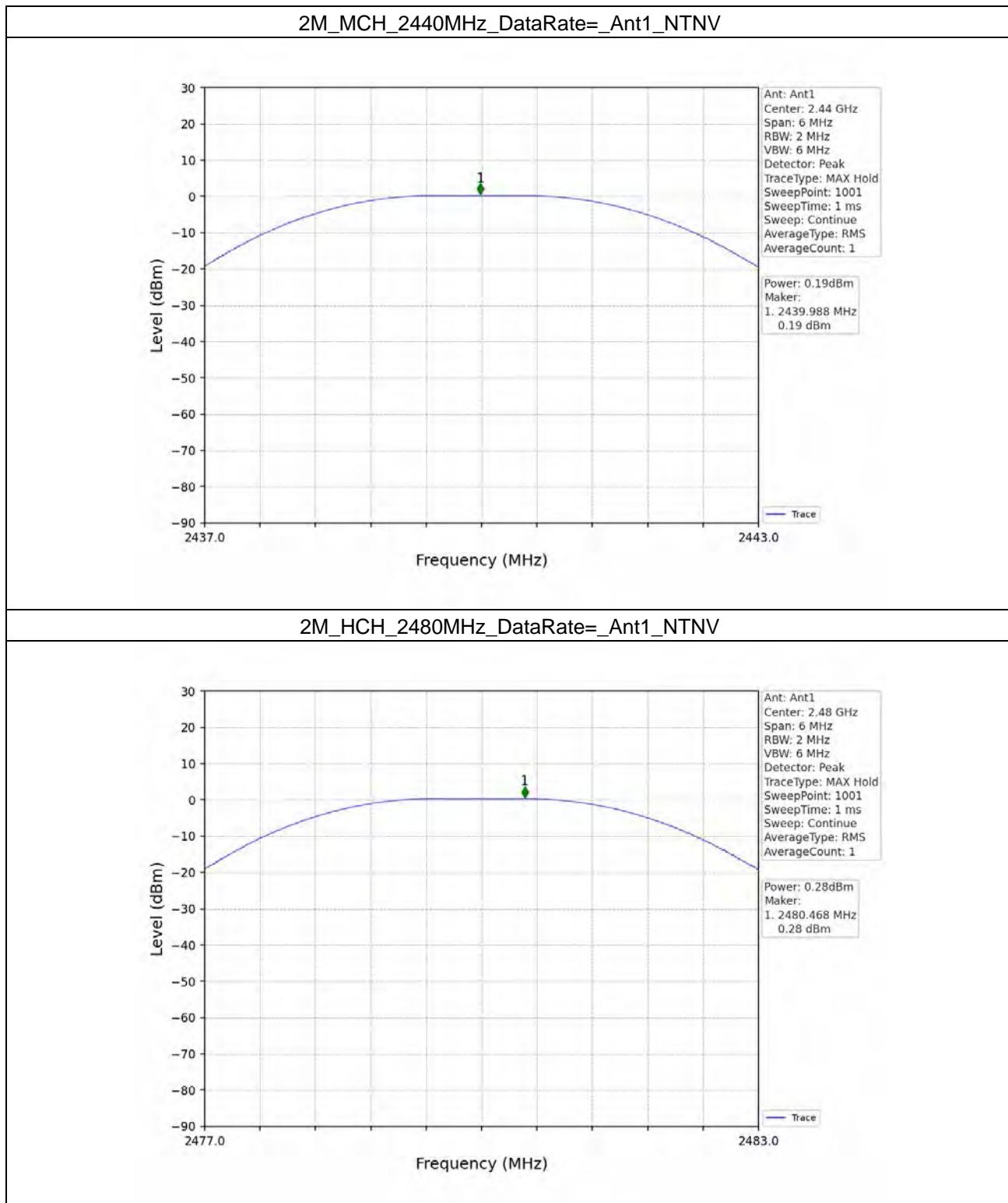
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4. Maximum Power Spectral Density

4.1 PSD

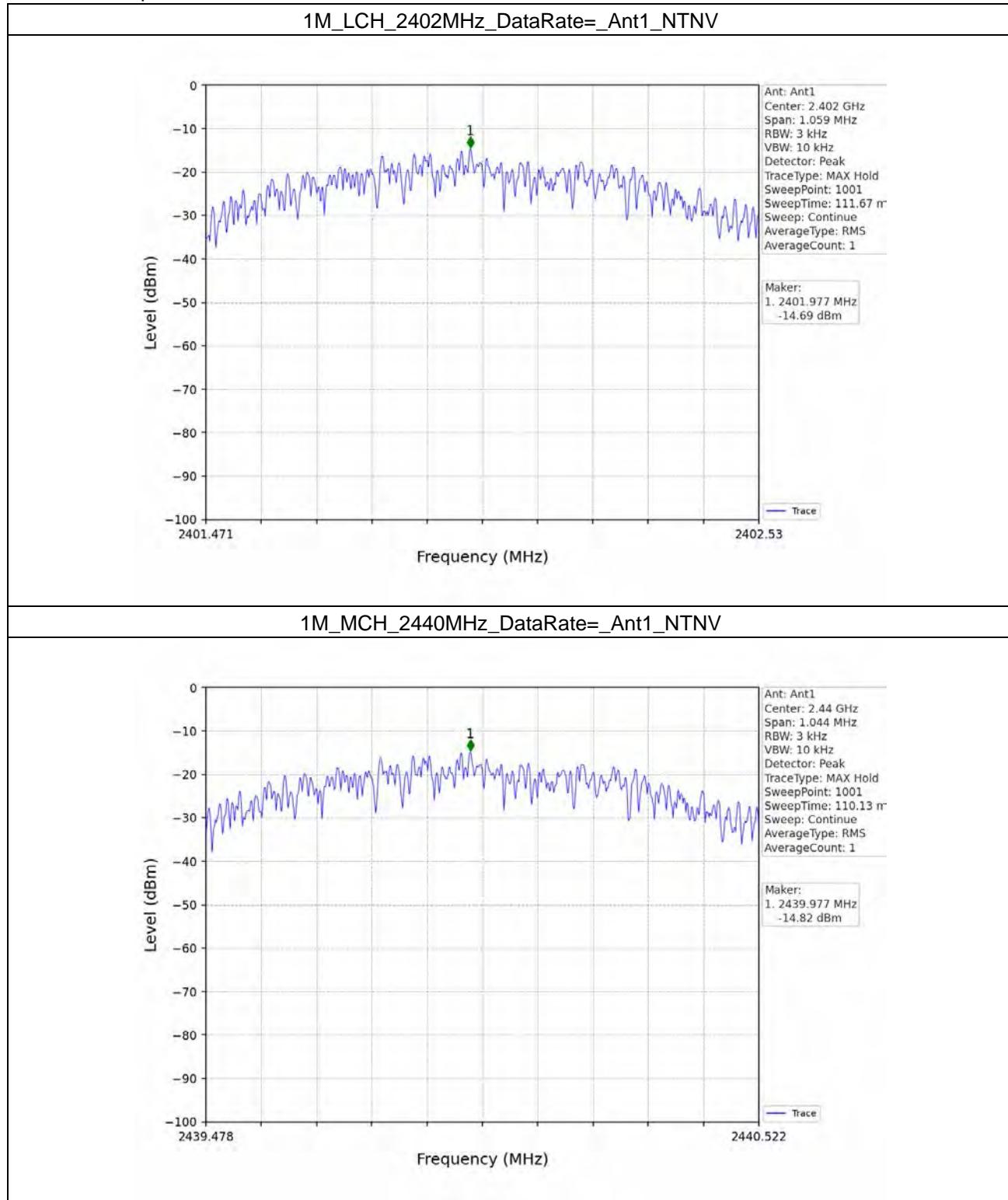
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
1M	SISO	2402	-14.69	<=8	Pass
		2440	-14.82	<=8	Pass
		2480	-14.94	<=8	Pass
2M	SISO	2402	-17.29	<=8	Pass
		2440	-19.12	<=8	Pass
		2480	-19.07	<=8	Pass

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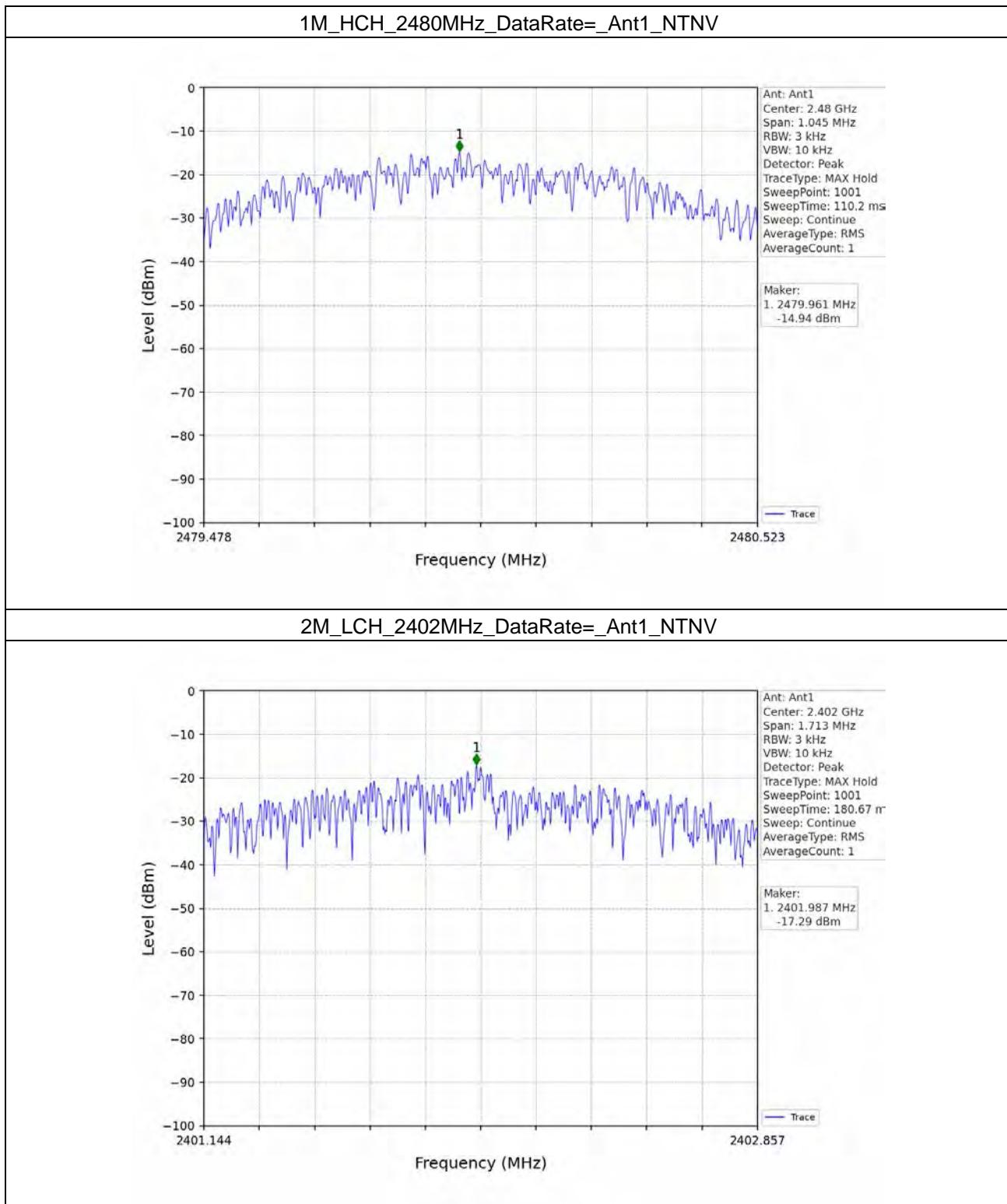
4.1.2 Test Graph



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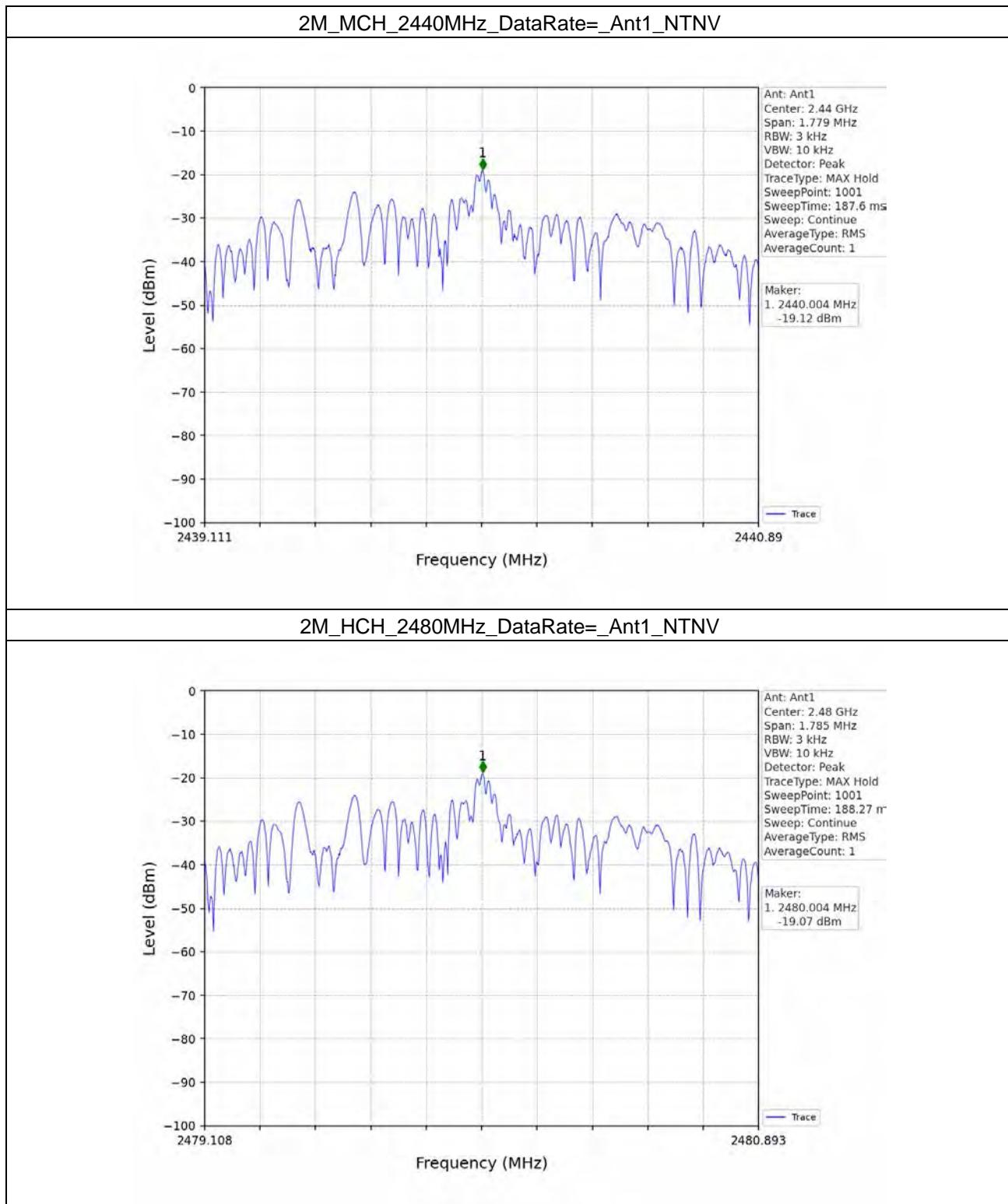
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

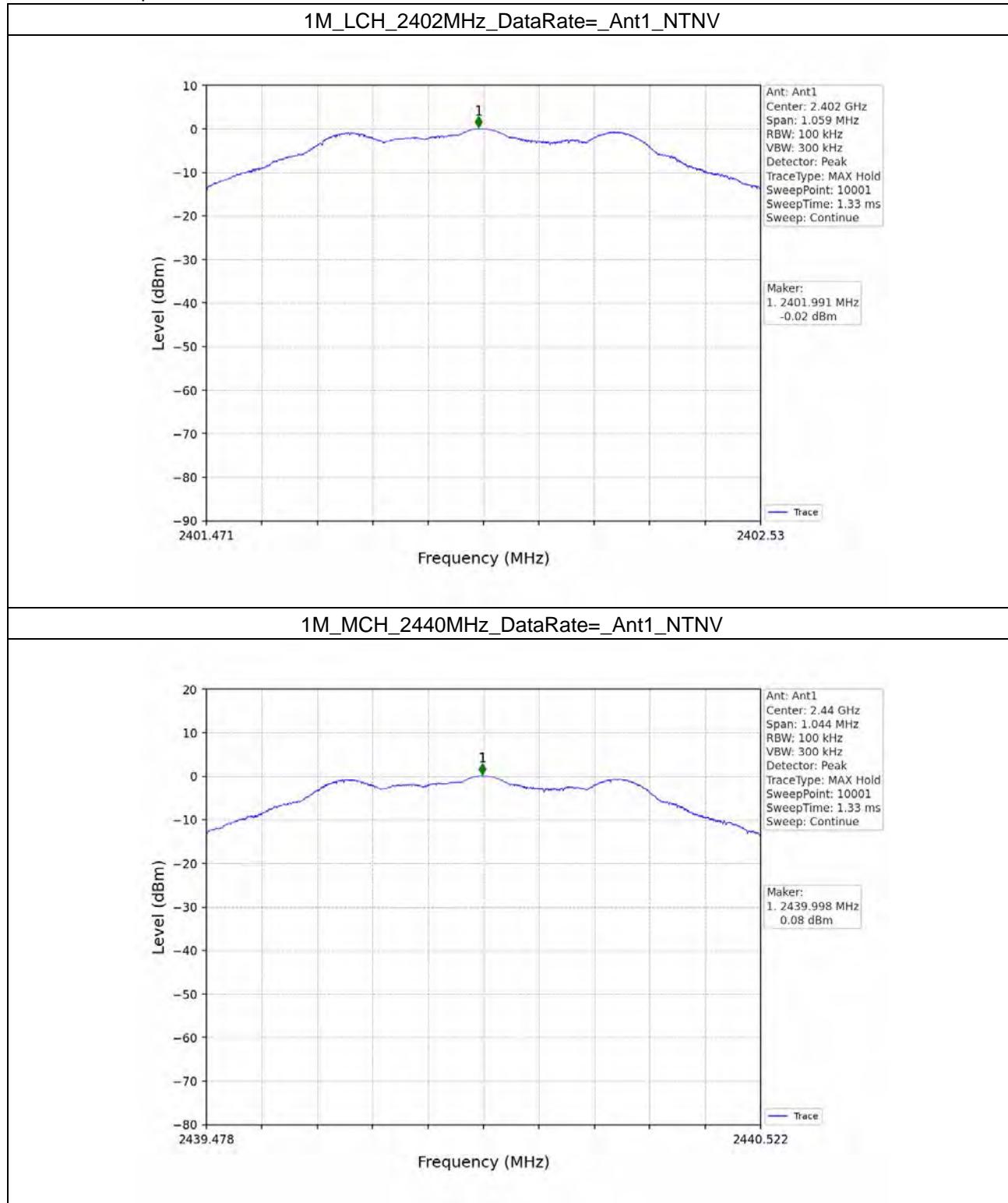
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
1M	SISO	2402	1	-0.02
		2440	1	0.08
		2480	1	0.21
2M	SISO	2402	1	-0.07
		2440	1	0.10
		2480	1	0.18

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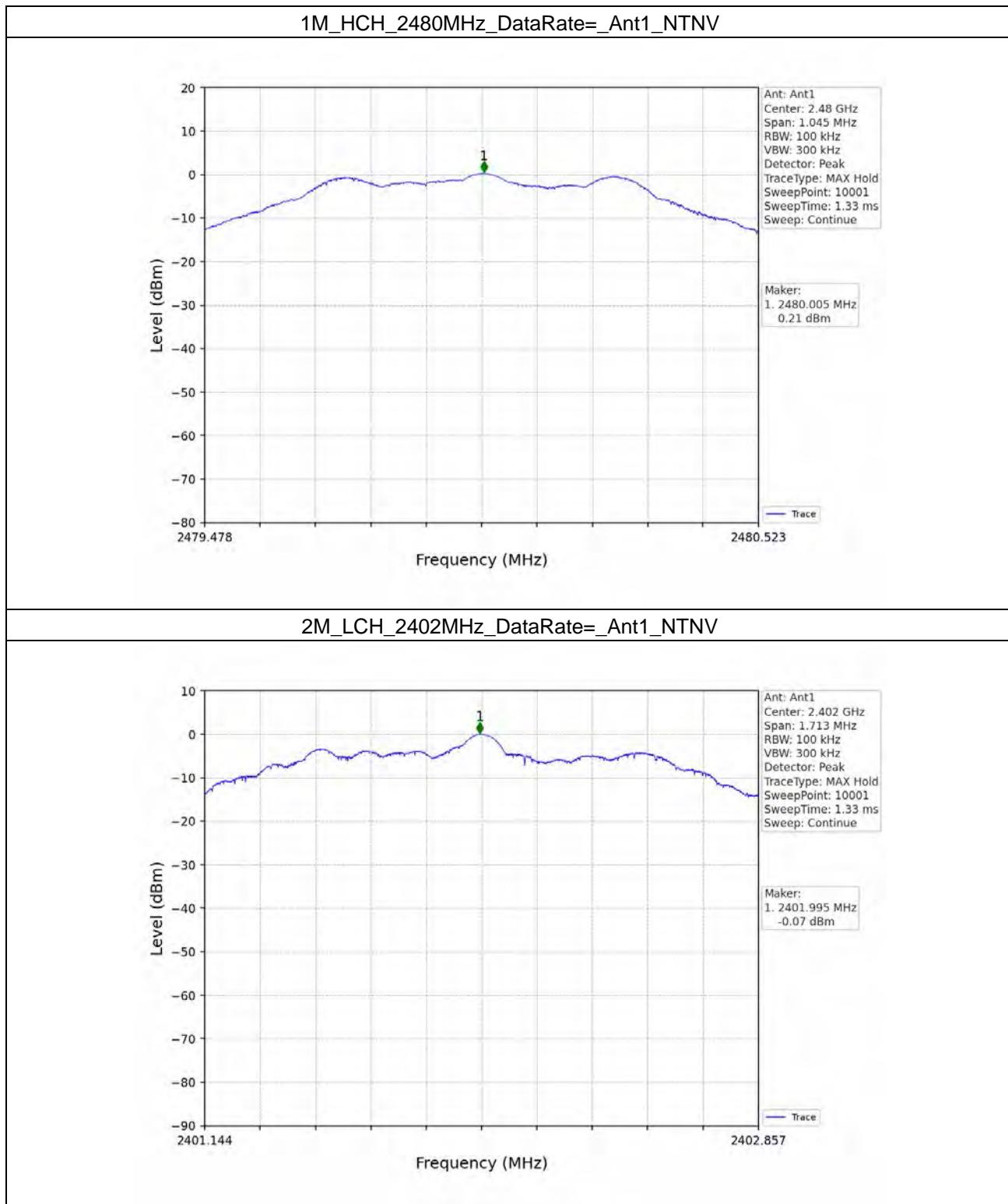
5.1.2 Test Graph



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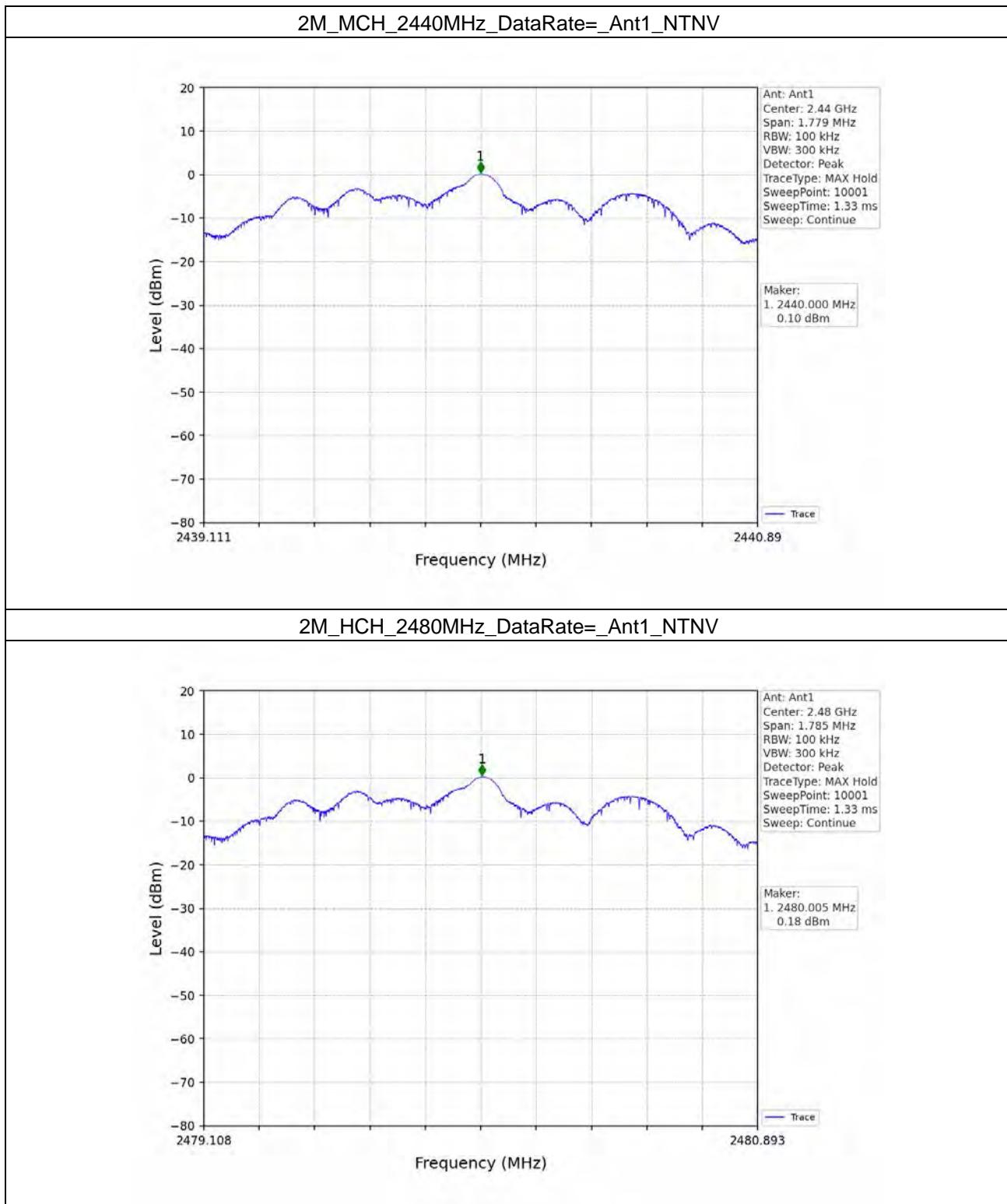


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5.2 CSE**5.2.1 Test Result**

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.21	-29.79	Pass
		2440	1	0.21	-29.79	Pass
		2480	1	0.21	-29.79	Pass
2M	SISO	2402	1	0.18	-19.82	Pass
		2440	1	0.18	-19.82	Pass
		2480	1	0.18	-19.82	Pass

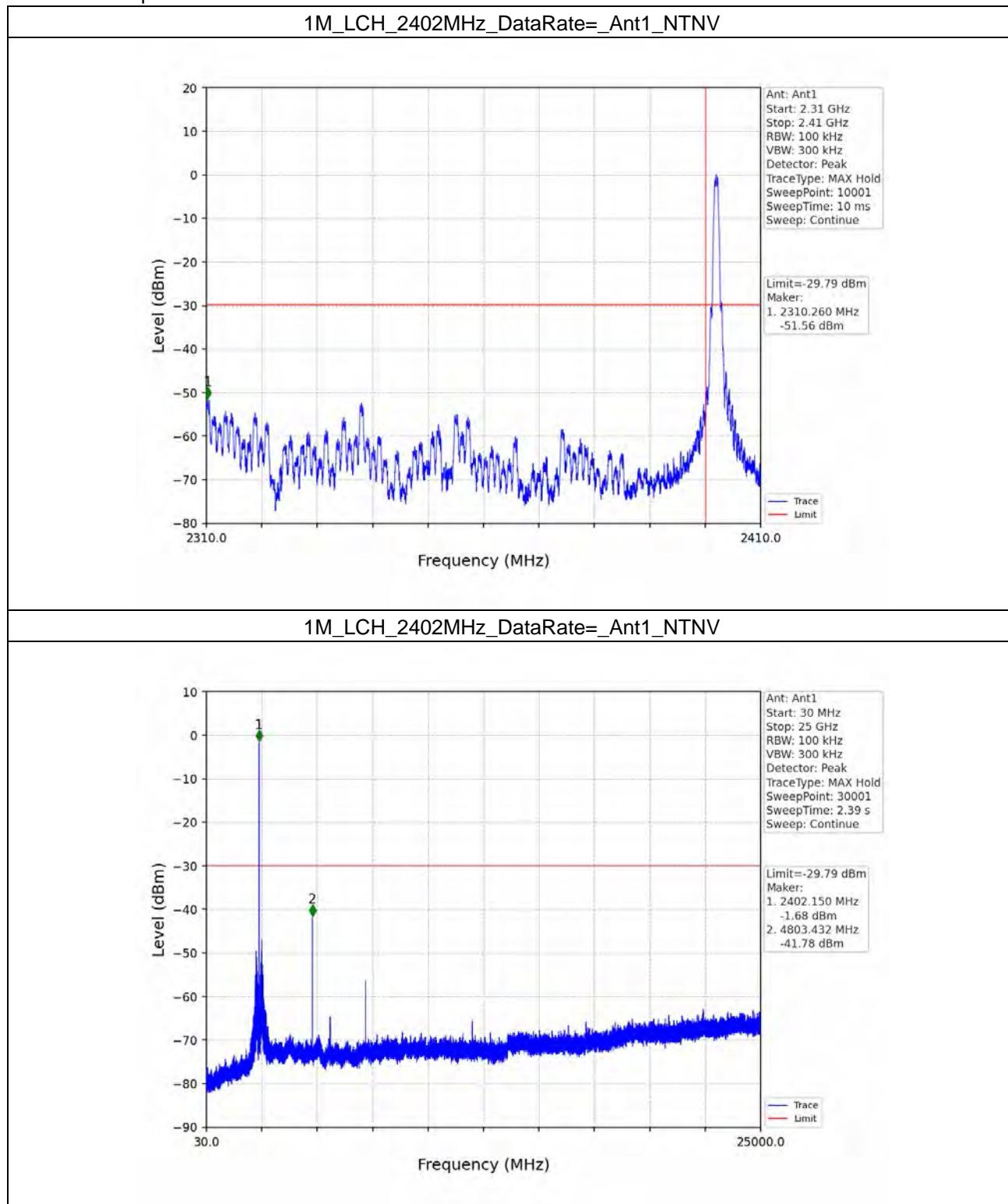
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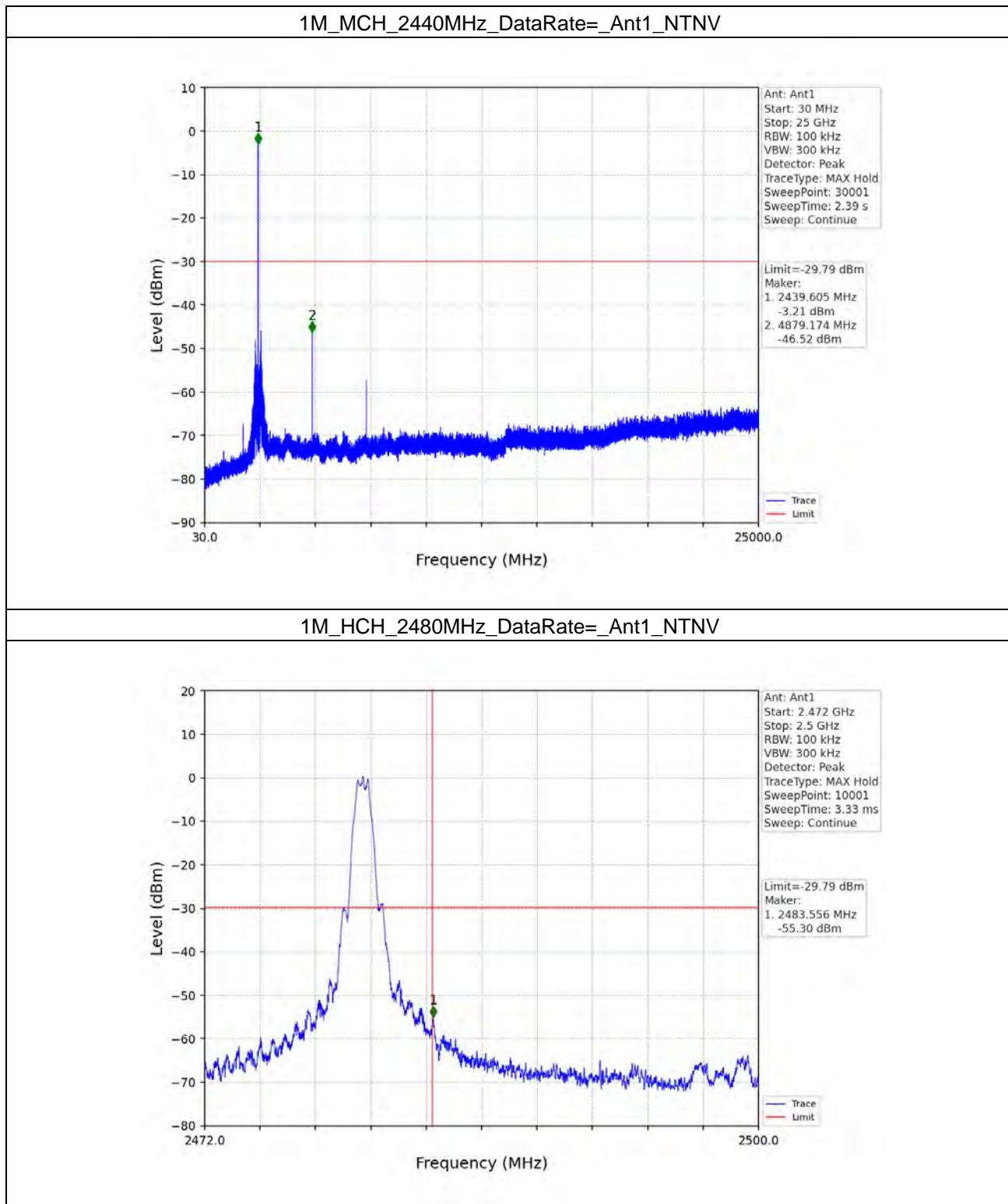
5.2.2 Test Graph



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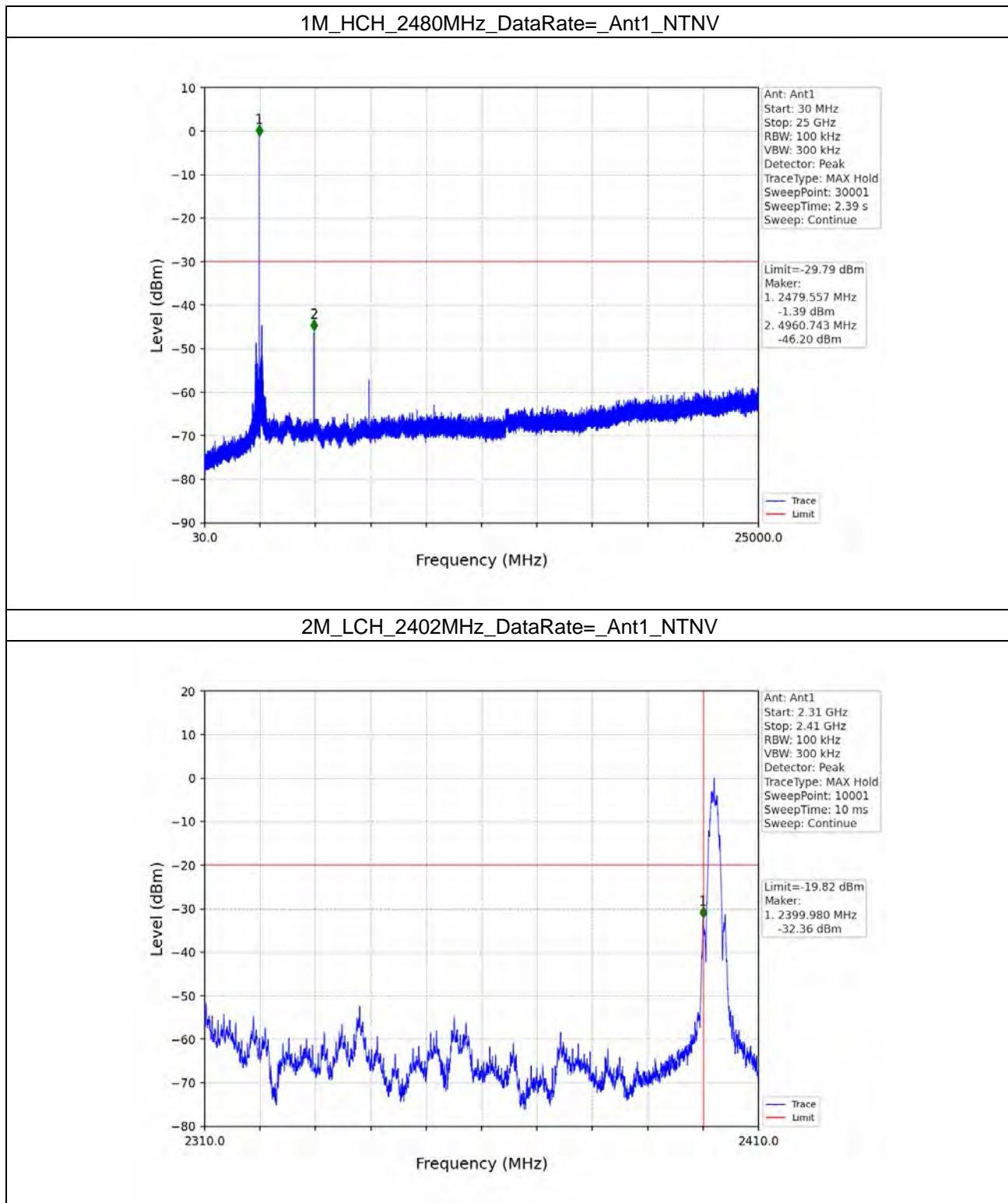




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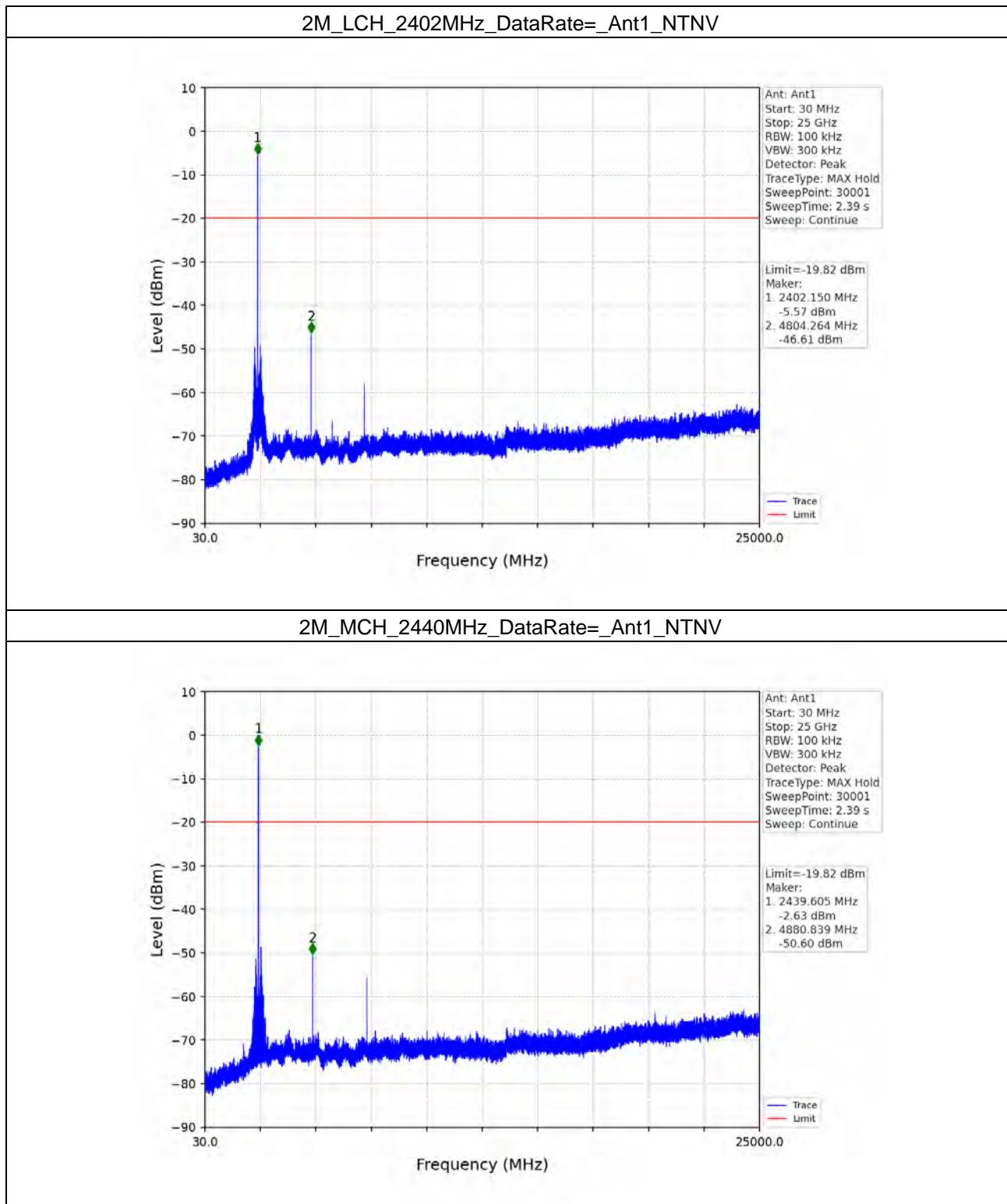


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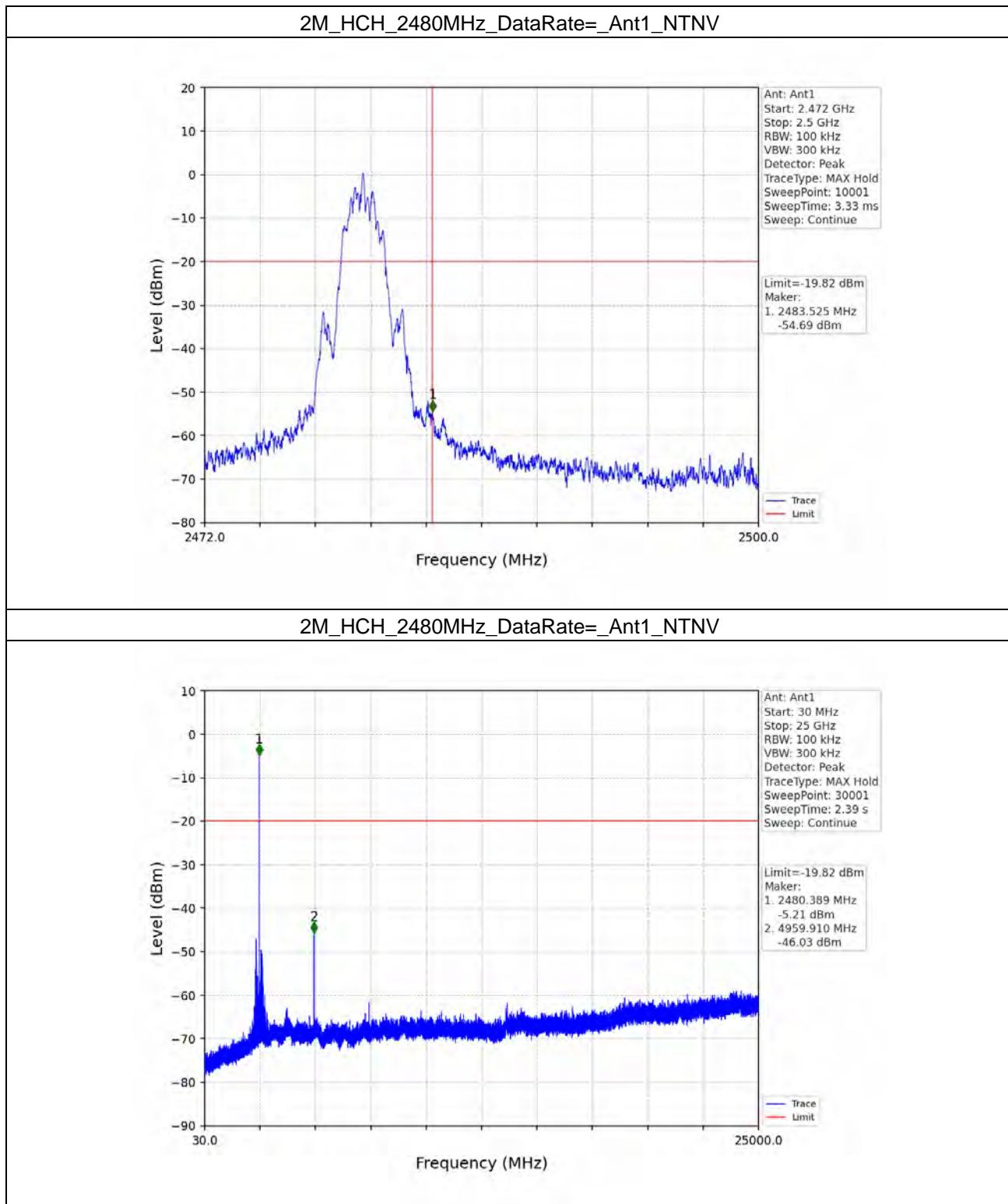


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- End of the Report -

