

TEST REPORT

Application No.: SZCR2411004137AT
Applicant: SKULLCANDY, INC.
Address of Applicant: 6301 N Landmark Dr Park City, UT 84098, United States of America
Manufacturer: SKULLCANDY, INC.
Address of Manufacturer: 6301 N Landmark Dr Park City, UT 84098, United States of America
Equipment Under Test (EUT):
EUT Name: MOD 180
Model No.: S2MGW
Trade Mark:

FCC ID: Y22-S2MGW
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2024-11-06
Date of Test: 2024-11-12 to 2024-11-16
Date of Issue: 2024-11-28

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



Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Certification Laboratory.

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100413703

Page: 2 of 87

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-11-28		Original

Authorized for issue by:			
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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
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	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	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



3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	4
4 General Information.....	6
4.1 Details of E.U.T	6
4.2 Description of Support Units	6
4.3 Measurement Uncertainty	7
4.4 Test Location.....	8
4.5 Test Facility	8
4.6 Deviation from Standards.....	8
4.7 Abnormalities from Standard Conditions	8
5 Equipment List	9
6 Radio Spectrum Technical Requirement	11
6.1 Antenna Requirement	11
6.1.1 Test Requirement:	11
6.1.2 Conclusion	11
7 Radio Spectrum Matter Test Results	12
7.1 Radiated Emissions which fall in the restricted bands	12
7.1.1 E.U.T. Operation	12
7.1.2 Test Mode Description	12
7.1.3 Test Setup Diagram	13
7.1.4 Measurement Procedure and Data.....	14
7.2 Radiated Spurious Emissions Below 1GHz	23
7.2.1 E.U.T. Operation	23
7.2.2 Test Mode Description	23
7.2.3 Test Setup Diagram	24
7.2.4 Measurement Procedure and Data.....	24
7.3 Radiated Spurious Emissions Above 1GHz.....	31
7.3.1 E.U.T. Operation	31
7.3.2 Test Mode Description	31
7.3.3 Test Setup Diagram	31
7.3.4 Measurement Procedure and Data.....	32
7.4 Conducted Peak Output Power.....	45
7.4.1 E.U.T. Operation	45
7.4.2 Test Mode Description	45
7.4.3 Test Setup Diagram	46
7.4.4 Measurement Procedure and Data.....	46
7.5 Minimum 6dB Bandwidth	47
7.5.1 E.U.T. Operation	47



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100413703

Page: 5 of 87

7.5.2	Test Mode Description	47
7.5.3	Test Setup Diagram	47
7.5.4	Measurement Procedure and Data.....	47
7.6	Power Spectrum Density.....	48
7.6.1	E.U.T. Operation	48
7.6.2	Test Mode Description	48
7.6.3	Test Setup Diagram	48
7.6.4	Measurement Procedure and Data.....	48
7.7	Conducted Band Edges Measurement	49
7.7.1	E.U.T. Operation	49
7.7.2	Test Mode Description	49
7.7.3	Test Setup Diagram	50
7.7.4	Measurement Procedure and Data.....	50
7.8	Conducted Spurious Emissions	51
7.8.1	E.U.T. Operation	51
7.8.2	Test Mode Description	51
7.8.3	Test Setup Diagram	52
7.8.4	Measurement Procedure and Data.....	52
8	Test Setup Photo	53
9	EUT Constructional Details (EUT Photos)	53
10	Appendix.....	54

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4 General Information

4.1 Details of E.U.T.

Power supply:	Left earbuds: Li-Ion Polymer Battery 3.7V 45mAh(Charge by travel case) Right earbuds: Li-Ion Polymer Battery 3.7V 45mAh(Charge by travel case) travel case with backup battery: Li-Ion Polymer Battery 3.7V 370mAh (Charged by Type-C port)
Cable(s):	USB-A to C cable 11cm unshielded
Bluetooth Version:	V5.3 Dual mode
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Data Rate:	1Mbps
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	FPC Antenna
Antenna Gain:	Left earbuds:1.46dBi, Right earbuds:1.61dBi
Cable Loss (for RF conducted test):	0.8dB

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.
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The EUT has been tested as an independent unit.



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18-40GHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



4.4 Test Location

All tests were performed at:

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No tests were sub-contracted.

4.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2024-03-26	2025-03-25
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2024-08-14	2025-08-13
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2024-03-27	2025-03-26
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2024-07-06	2025-07-05

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Report No.: SZCR241100413703

Page: 10 of 87

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TPSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17

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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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Left earbuds:1.46dBi, Right earbuds:1.61dBi.

Antenna location: Refer to internal photos



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7 Radio Spectrum Matter Test Results

7.1 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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 61.0 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation

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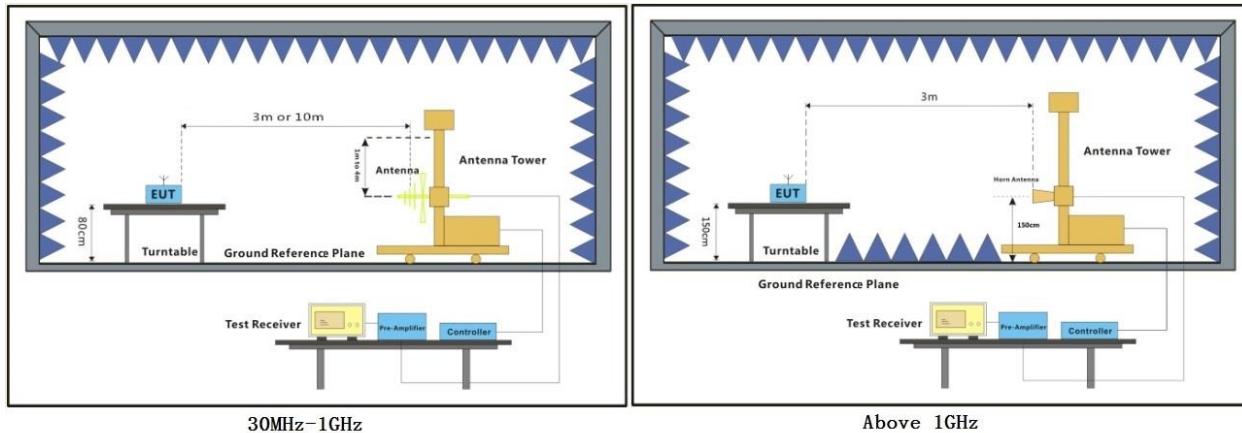
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7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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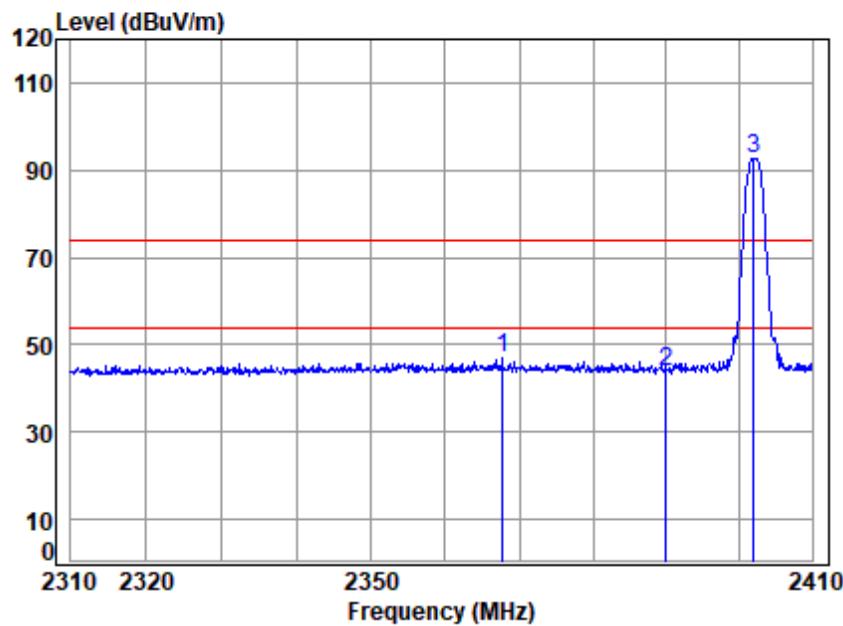
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04137AT\04138AT
Mode : 2402 Band edge
: BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 2367.684	15.80	29.10	32.79	34.91	47.02	74.00	-26.98	peak
2 2390.000	15.81	29.10	32.78	31.61	43.74	74.00	-30.26	peak
3 p 2402.000	15.82	29.09	32.77	80.64	92.78	74.00	18.78	peak

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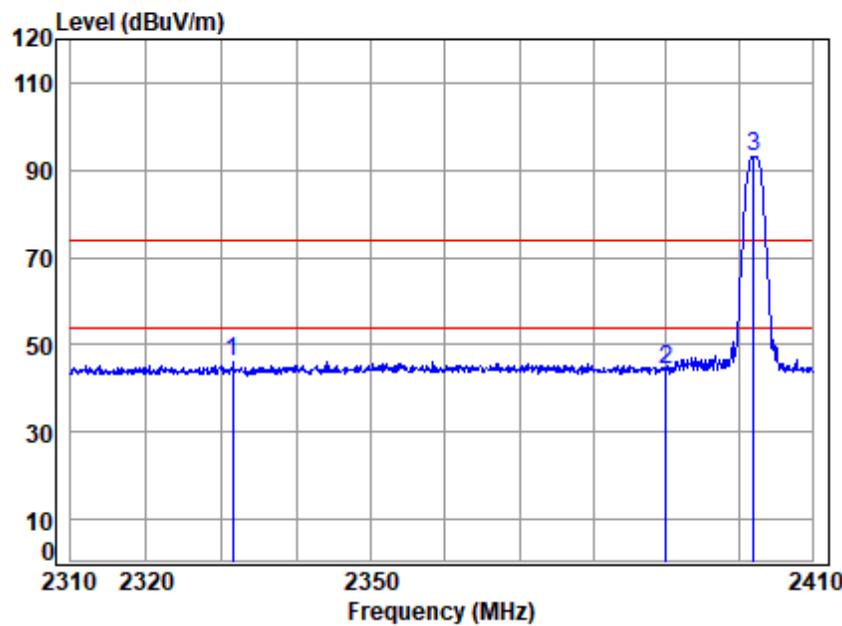
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04137AT\04138AT
Mode : 2402 Band edge
: BLE

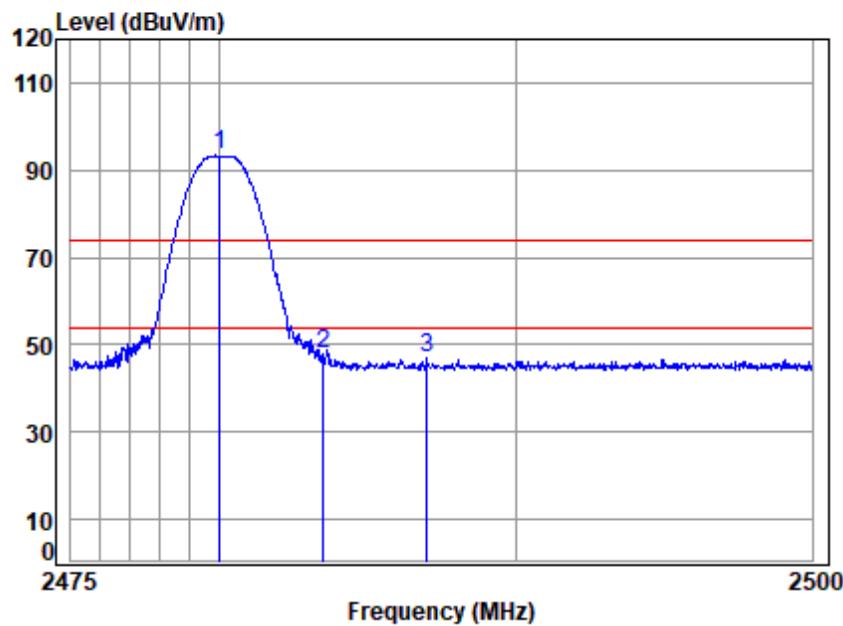
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2331.539	15.78	28.84	32.81	34.31	46.12	74.00	-27.88 peak
2 2390.000	15.81	29.10	32.78	31.94	44.07	74.00	-29.93 peak
3 p 2402.000	15.82	29.09	32.77	81.15	93.29	74.00	19.29 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04137AT\04138AT
Mode : 2480 Band edge
: BLE

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 2480.000	15.86	28.90	32.73	81.28	93.31	74.00	19.31 peak
2 2483.500	15.86	28.90	32.73	35.67	47.70	74.00	-26.30 peak
3 2486.969	15.86	28.90	32.73	34.83	46.86	74.00	-27.14 peak

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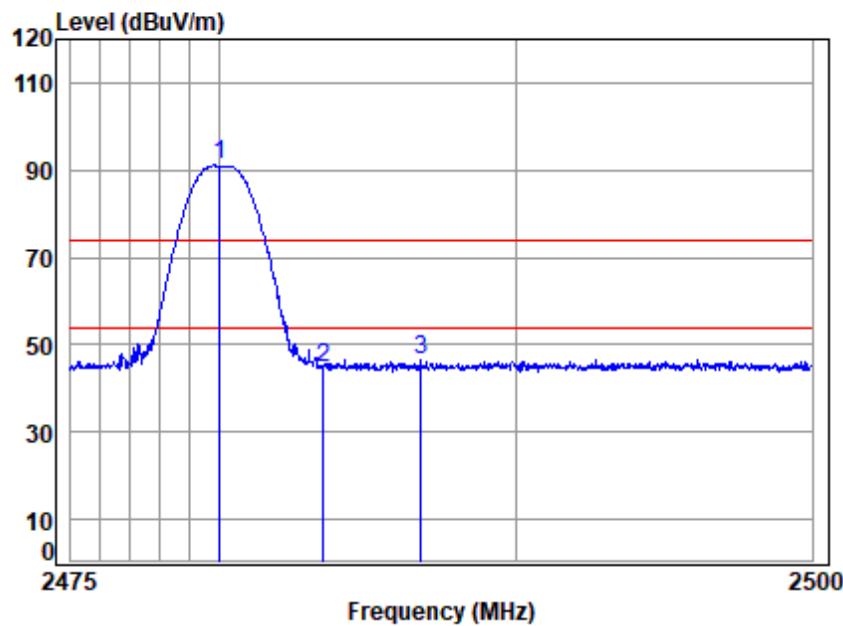
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 04137AT\04138AT
Mode : 2480 Band edge
: BLE

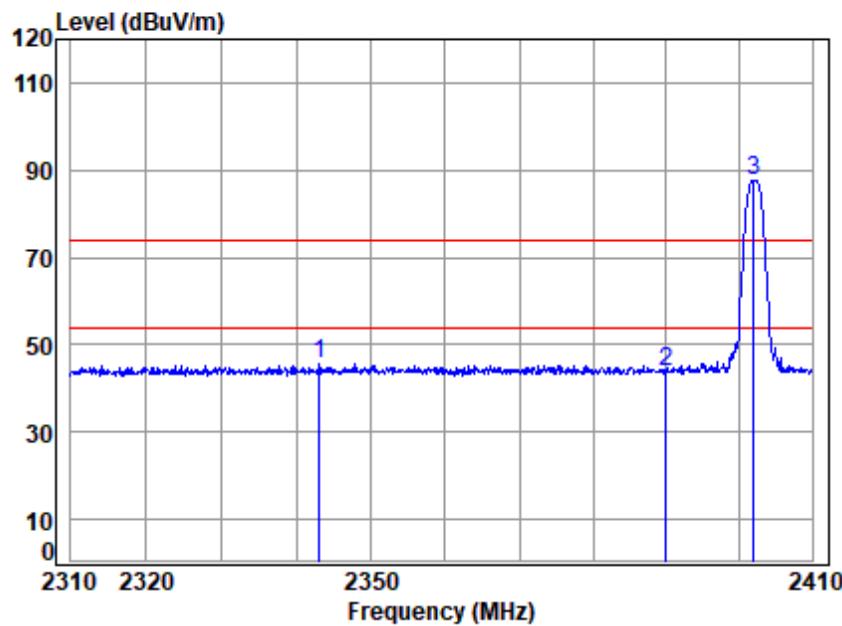
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 2480.000	15.86	28.90	32.73	79.02	91.05	74.00	17.05 peak
2 2483.500	15.86	28.90	32.73	32.81	44.84	74.00	-29.16 peak
3 2486.769	15.86	28.90	32.73	34.69	46.72	74.00	-27.28 peak

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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04137AT\04138AT
Mode : 2402 Band edge
: BLE

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2343.029	15.78	29.00	32.80	33.75	45.73	74.00	-28.27 peak
2 2390.000	15.81	29.10	32.78	31.56	43.69	74.00	-30.31 peak
3 p 2402.000	15.82	29.09	32.77	75.59	87.73	74.00	13.73 peak

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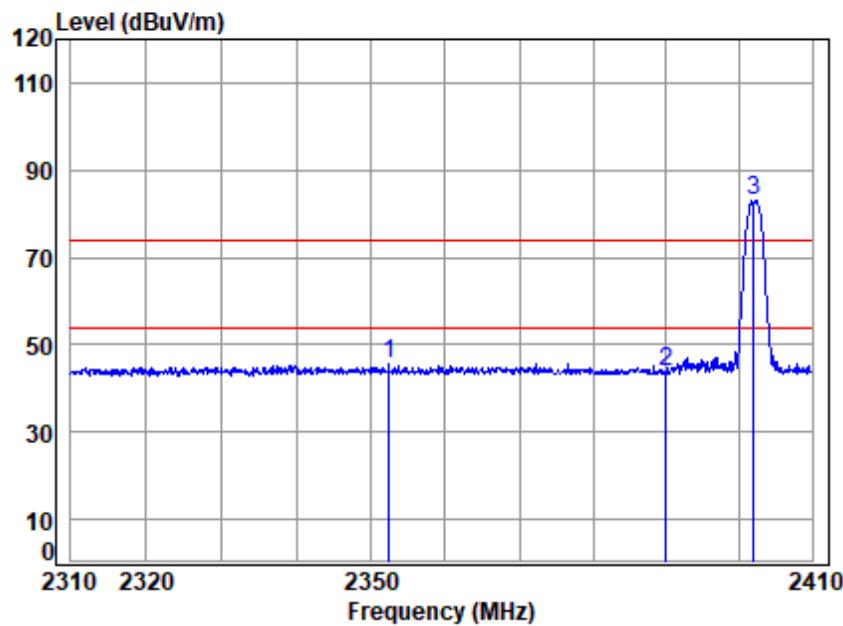
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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04137AT\04138AT
Mode : 2402 Band edge
: BLE

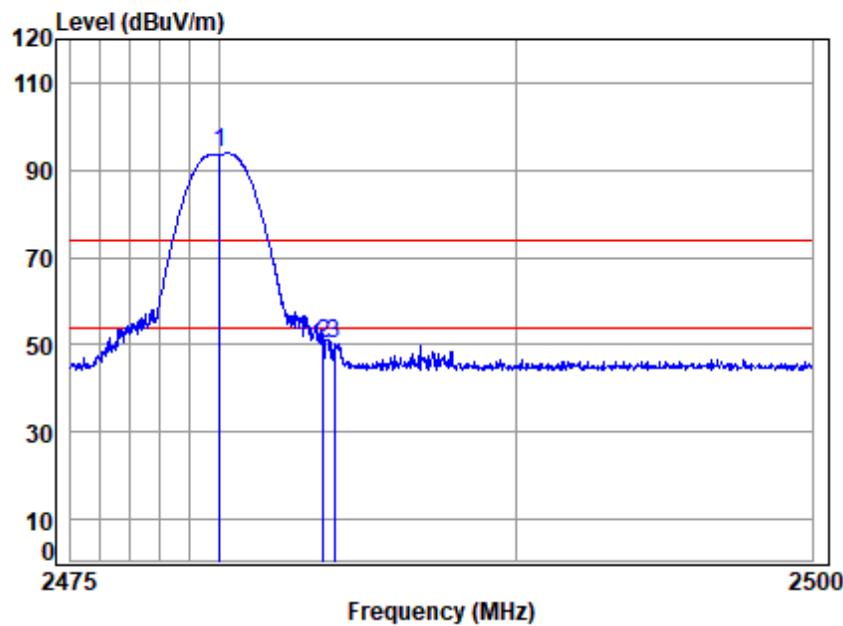
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
							dB	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2352.382	15.79	29.10	32.80	33.63	45.72	74.00	-28.28	peak
2 2390.000	15.81	29.10	32.78	31.56	43.69	74.00	-30.31	peak
3 p 2402.000	15.82	29.09	32.77	70.71	82.85	74.00	8.85	peak

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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04137AT\04138AT
Mode : 2480 Band edge
: BLE

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 2480.000	15.86	28.90	32.73	81.78	93.81	74.00	19.81 peak
2 2483.500	15.86	28.90	32.73	38.36	50.39	74.00	-23.61 peak
3 2483.846	15.86	28.90	32.73	38.26	50.29	74.00	-23.71 peak

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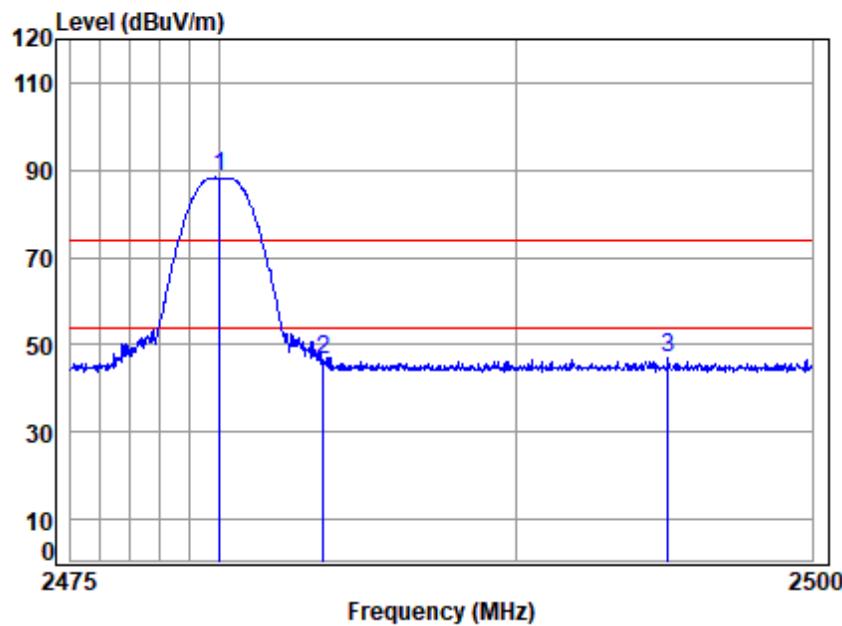
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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 04137AT\04138AT
Mode : 2480 Band edge
: BLE

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 2480.000	15.86	28.90	32.73	76.26	88.29	74.00	14.29 peak
2 2483.500	15.86	28.90	32.73	34.62	46.65	74.00	-27.35 peak
3 2495.130	15.87	28.90	32.73	34.80	46.84	74.00	-27.16 peak

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7.2 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

Measurement Distance: 10m

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
960-1000	500	3

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 50.9 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation

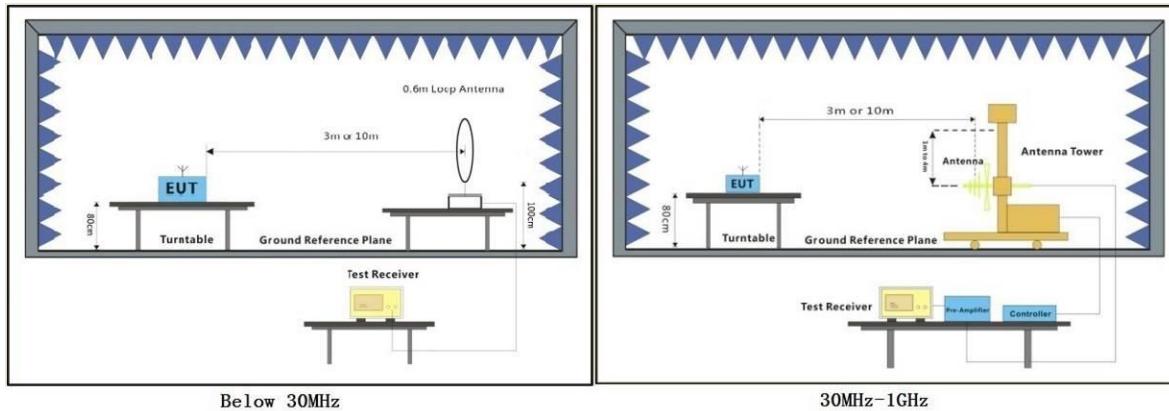
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7.2.3 Test Setup Diagram**7.2.4 Measurement Procedure and Data**

- 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.
- 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 quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle 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
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.



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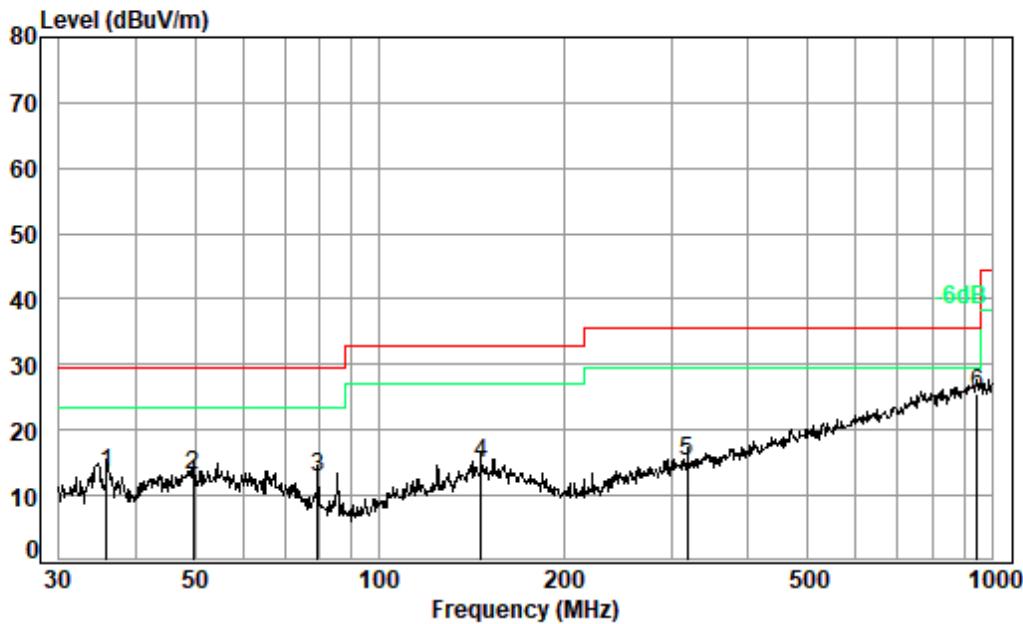
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Test Mode: 02; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 04137AT/04138AT

Test Mode: 02

Freq	Read	Ant	Cable	Preamp	Limit	Over	Limit	Remark
	MHz	Level	Factor	Loss				
1	35.875	28.94	16.63	0.40	32.50	13.47	29.50	-16.03 QP
2	49.707	26.98	18.17	0.50	32.50	13.15	29.50	-16.35 QP
3	79.243	31.10	13.47	0.60	32.43	12.74	29.50	-16.76 QP
4	146.374	28.64	17.61	0.90	32.40	14.75	33.00	-18.25 QP
5	318.817	28.29	18.07	1.30	32.30	15.36	35.60	-20.24 QP
6 pp	945.440	26.81	27.92	2.20	31.31	25.62	35.60	-9.98 QP

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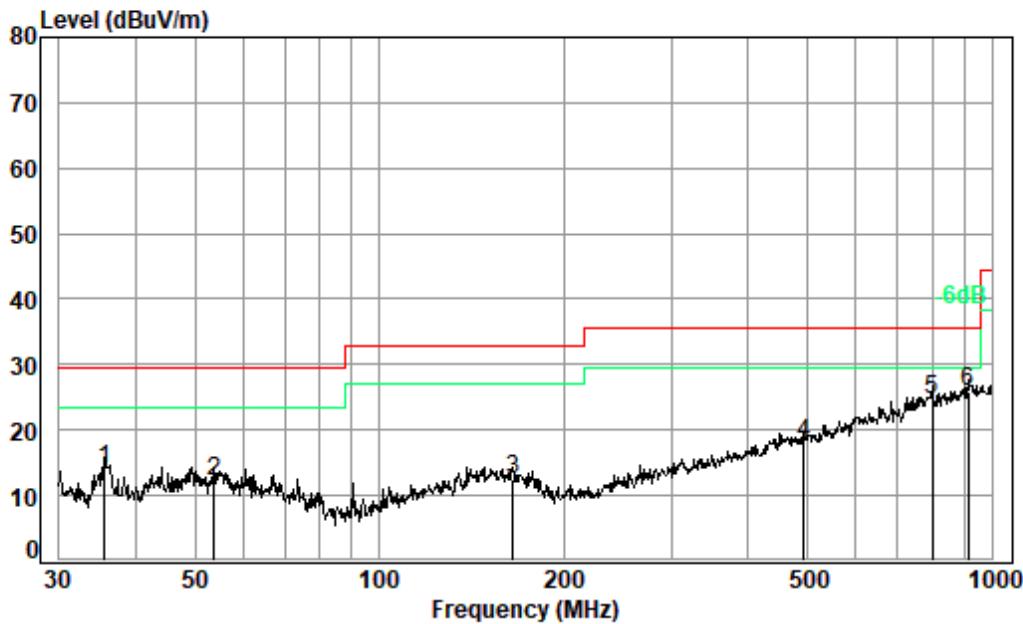
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Test Mode: 02; Polarity: Vertical



Condition: 10m VERTICAL
Job No. : 04137AT/04138AT
Test Mode: 02

	Read Freq	Ant Level	Cable Factor	Preamp Loss	Limit Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	35.624	29.45	16.61	0.40	32.50	13.96	29.50	-15.54 QP
2	53.693	26.12	18.10	0.50	32.49	12.23	29.50	-17.27 QP
3	165.487	26.38	17.49	0.92	32.40	12.39	33.00	-20.61 QP
4	492.469	26.77	21.82	1.60	32.30	17.89	35.60	-17.71 QP
5	798.980	28.00	26.60	2.03	32.00	24.63	35.60	-10.97 QP
6 pp	916.069	27.31	27.69	2.16	31.37	25.79	35.60	-9.81 QP



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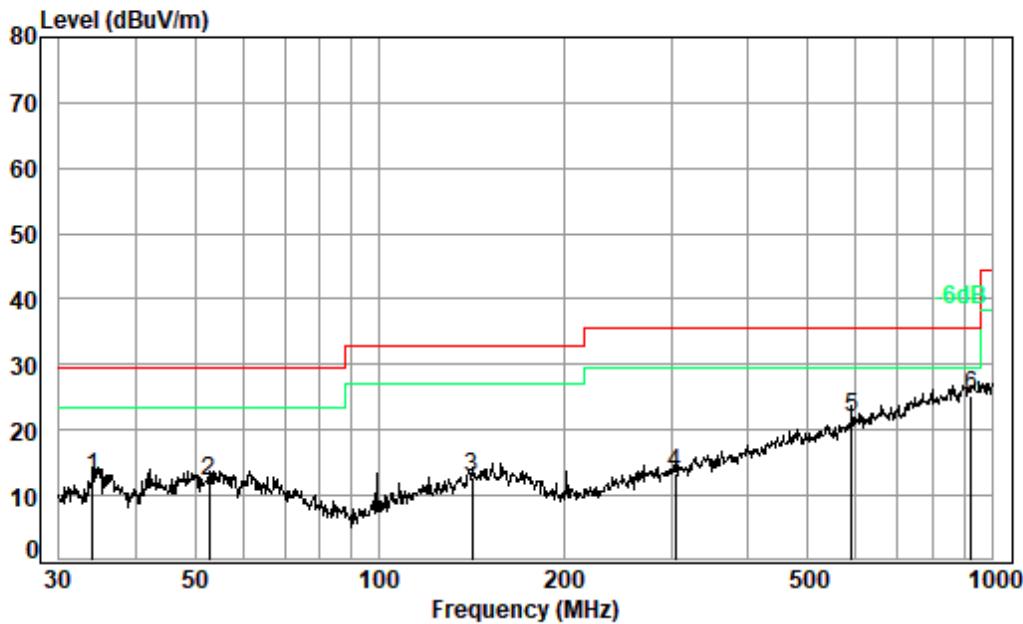
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Test Mode: 05; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 04137AT/04138AT

Test Mode: 05

Freq	Read	Ant	Cable	Preamp	Limit	Over	Remark
	MHz	Level	Factor	Loss			
1	34.037	28.52	16.34	0.40	32.50	12.76	29.50 -16.74 QP
2	52.760	25.85	18.20	0.50	32.49	12.06	29.50 -17.44 QP
3	141.826	26.93	17.35	0.84	32.40	12.72	33.00 -20.28 QP
4	304.610	26.75	17.66	1.20	32.30	13.31	35.60 -22.29 QP
5	590.974	28.91	23.71	1.75	32.39	21.98	35.60 -13.62 QP
6 pp	925.756	26.52	27.84	2.20	31.35	25.21	35.60 -10.39 QP

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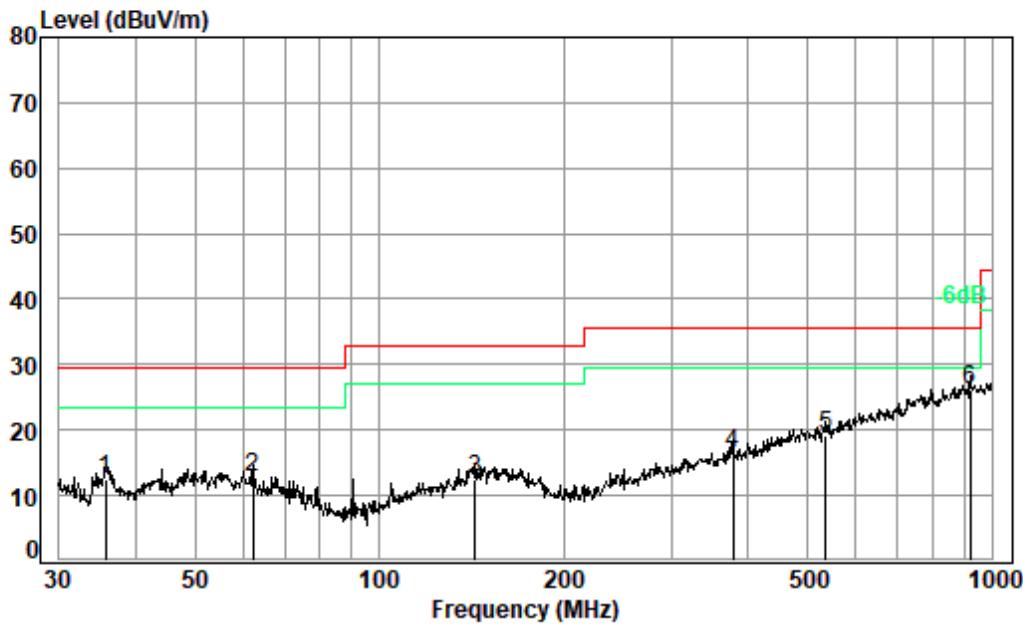
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Test Mode: 05; Polarity: Vertical



Condition: 10m VERTICAL
Job No. : 04137AT/04138AT
Test Mode: 05

Freq	Read	Ant	Cable	Preamp	Limit	Over	Limit	Remark
	MHz	Level	Factor	Loss				
1	35.749	28.07	16.62	0.40	32.50	12.59	29.50	-16.91 QP
2	62.213	27.49	17.05	0.60	32.47	12.67	29.50	-16.83 QP
3	143.326	26.54	17.42	0.90	32.40	12.46	33.00	-20.54 QP
4	378.584	28.03	19.38	1.40	32.30	16.51	35.60	-19.09 QP
5	535.707	27.30	22.62	1.70	32.34	19.28	35.60	-16.32 QP
6 pp	922.516	27.44	27.81	2.20	31.35	26.10	35.60	-9.50 QP

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

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

Note:

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

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

D_3 : 3m distance. Unit: m

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

The level at 3m test distance is below:

Test Mode: 02

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
35.875	13.47	4.72	15.72	23.93	40.00	-16.07	H
49.707	13.15	4.54	15.15	23.61	40.00	-16.39	H
79.243	12.74	4.34	14.45	23.20	40.00	-16.80	H
146.374	14.75	5.46	18.21	25.21	43.50	-18.29	H
318.817	15.36	5.86	19.54	25.82	46.00	-20.18	H
945.440	25.62	19.10	63.66	36.08	46.00	-9.92	H
35.624	13.96	4.99	16.63	24.42	40.00	-15.58	V
53.693	12.23	4.09	13.63	22.69	40.00	-17.31	V
165.487	12.39	4.16	13.88	22.85	43.50	-20.65	V
492.469	17.89	7.84	26.14	28.35	46.00	-17.65	V
798.980	24.63	17.04	56.80	35.09	46.00	-10.91	V
916.069	25.79	19.48	64.92	36.25	46.00	-9.75	V

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100413703

Page: 30 of 87

Test Mode: 05

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
34.037	12.76	4.35	14.48	23.22	40.00	-16.78	H
52.760	12.06	4.01	13.36	22.52	40.00	-17.48	H
141.826	12.72	4.33	14.42	23.18	43.50	-20.32	H
304.610	13.31	4.63	15.43	23.77	46.00	-22.23	H
590.974	21.98	12.56	41.87	32.44	46.00	-13.56	H
925.756	25.21	18.22	60.73	35.67	46.00	-10.33	H
35.749	12.59	4.26	14.20	23.05	40.00	-16.95	V
62.213	12.67	4.30	14.33	23.13	40.00	-16.87	V
143.326	12.46	4.20	13.99	22.92	43.50	-20.58	V
378.584	16.51	6.69	22.30	26.97	46.00	-19.03	V
535.707	19.28	9.20	30.68	29.74	46.00	-16.26	V
922.516	26.10	20.18	67.28	36.56	46.00	-9.44	V

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7.3 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

Measurement Distance: 3m

Limit:

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

7.3.1 E.U.T. Operation

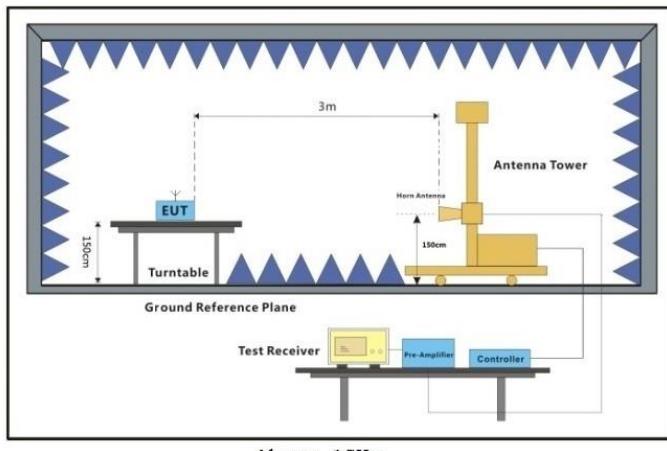
Operating Environment:

Temperature: 23.7 °C Humidity: 61.0 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation

7.3.3 Test Setup Diagram

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7.3.4 Measurement Procedure and Data

- a. For 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.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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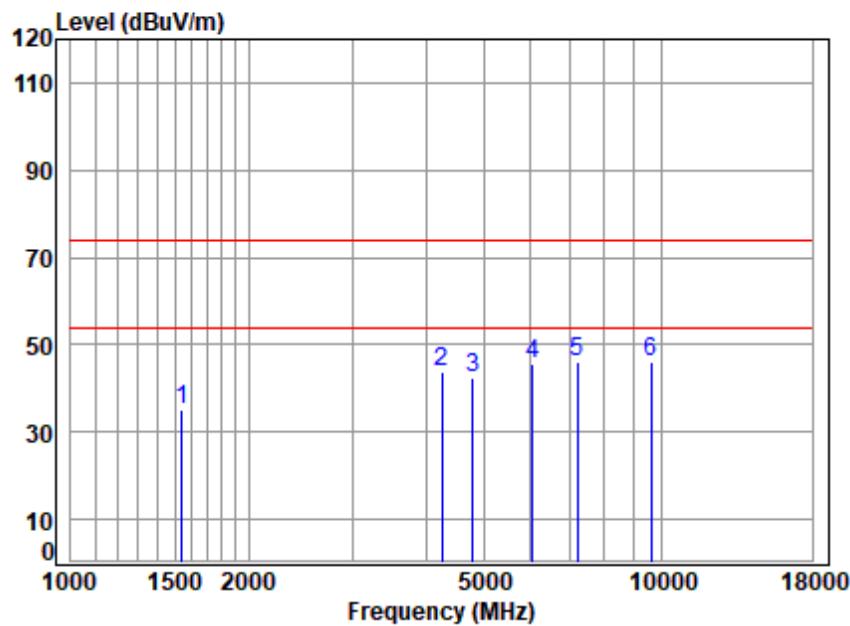
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04137AT\04138AT
 Mode : 2402 TX RSE
 : BLE

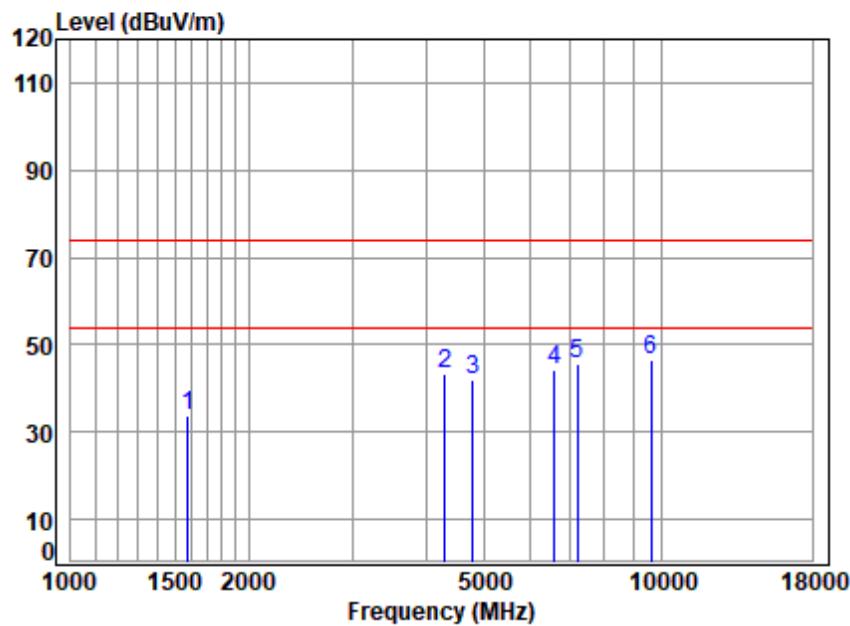
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1542.733	4.66	26.97	61.50	64.91	35.04	74.00	-38.96 peak
2 4254.921	8.19	33.82	61.26	63.03	43.78	74.00	-30.22 peak
3 4804.000	8.00	34.32	61.03	61.02	42.31	74.00	-31.69 peak
4 6053.894	9.48	35.01	60.60	61.52	45.41	74.00	-28.59 peak
5 p 7206.000	9.32	35.70	60.39	61.53	46.16	74.00	-27.84 peak
6 9608.000	11.41	37.42	61.25	58.47	46.05	74.00	-27.95 peak

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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04137AT\04138AT
Mode : 2402 TX RSE
: BLE

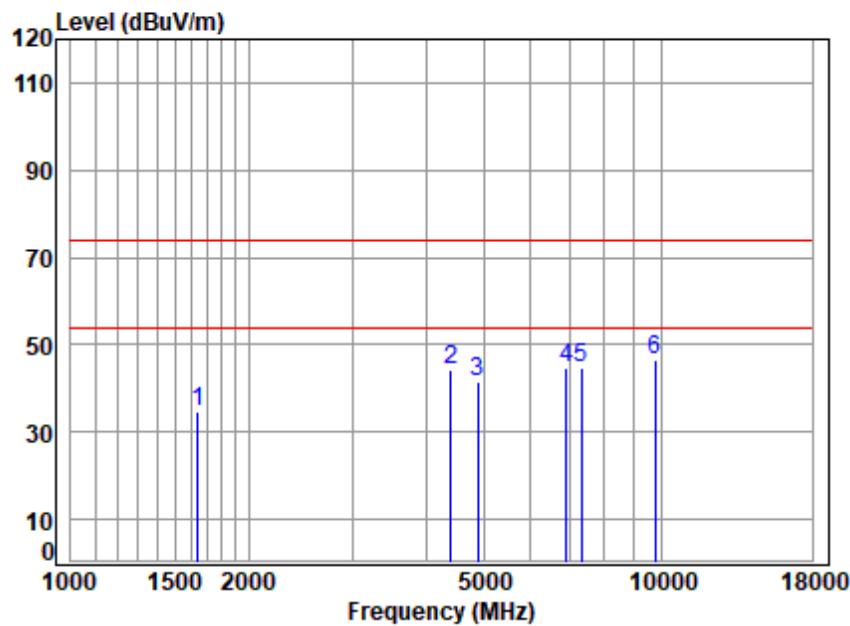
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								dB	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	1578.822	4.74	26.88	61.51	63.75	33.86	74.00	-40.14	peak
2	4304.400	8.12	34.04	61.24	62.42	43.34	74.00	-30.66	peak
3	4804.000	8.00	34.32	61.03	60.58	41.87	74.00	-32.13	peak
4	6602.265	9.22	35.30	60.50	60.45	44.47	74.00	-29.53	peak
5	7206.000	9.32	35.70	60.39	60.81	45.44	74.00	-28.56	peak
6	p 9608.000	11.41	37.42	61.25	58.91	46.49	74.00	-27.51	peak

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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04137AT\04138AT
Mode : 2440 TX RSE
: BLE

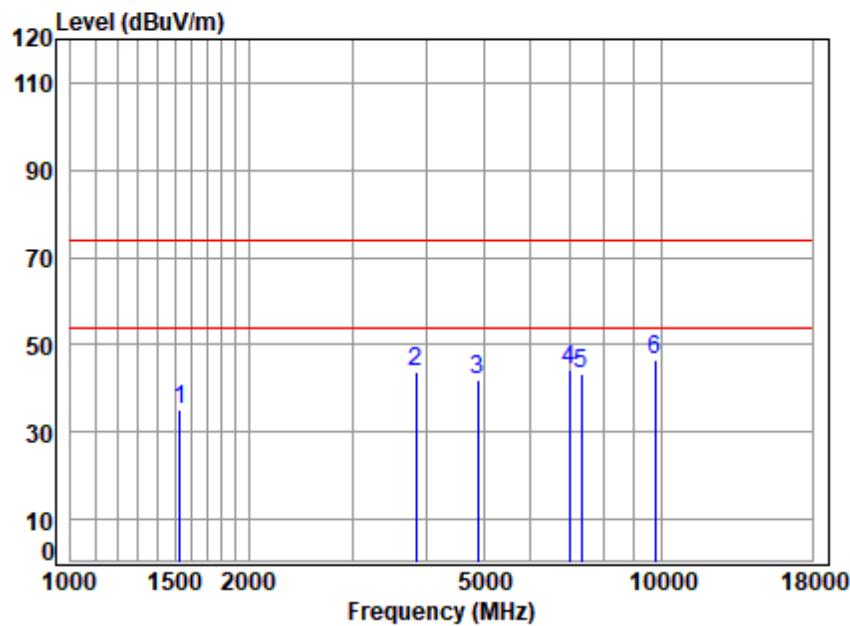
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								dB	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	1639.274	4.87	26.41	61.53	64.89	34.64	74.00	-39.36	peak
2	4405.090	7.99	34.74	61.20	62.72	44.25	74.00	-29.75	peak
3	4880.000	8.03	34.62	61.00	59.68	41.33	74.00	-32.67	peak
4	6914.763	9.47	35.66	60.44	60.11	44.80	74.00	-29.20	peak
5	7320.000	9.21	35.70	60.37	60.00	44.54	74.00	-29.46	peak
6	p 9760.000	11.32	37.38	61.33	59.00	46.37	74.00	-27.63	peak

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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 04137AT\04138AT
Mode : 2440 TX RSE
: BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1529.414	4.64	26.92	61.50	64.99	35.05	74.00	-38.95 peak
2 3845.537	8.07	33.04	61.42	64.18	43.87	74.00	-30.13 peak
3 4880.000	8.03	34.62	61.00	60.35	42.00	74.00	-32.00 peak
4 6995.172	9.53	35.71	60.43	59.49	44.30	74.00	-29.70 peak
5 7320.000	9.21	35.70	60.37	58.82	43.36	74.00	-30.64 peak
6 p 9760.000	11.32	37.38	61.33	59.03	46.40	74.00	-27.60 peak

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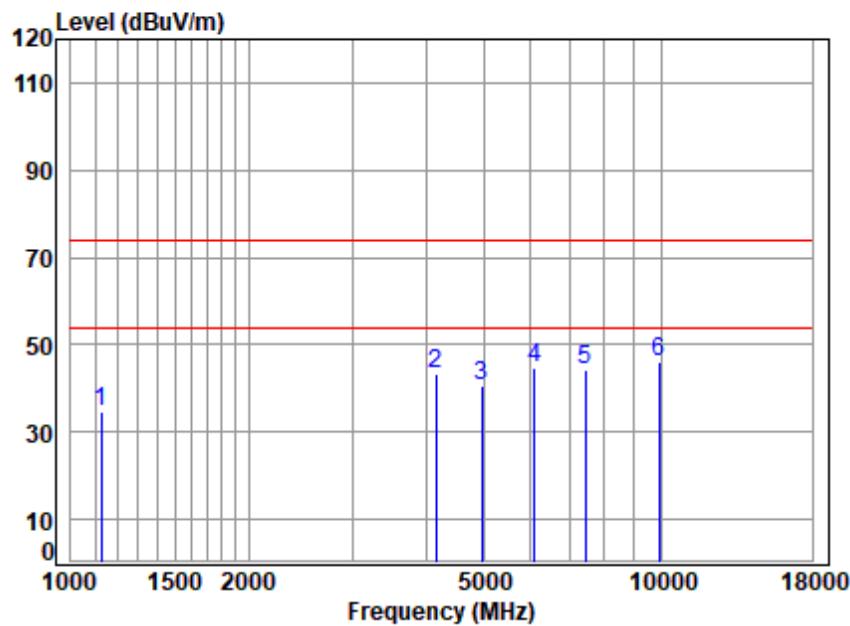
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04137AT\04138AT
Mode : 2480 TX RSE
: BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 1125.813	4.56	23.80	61.35	67.81	34.82	74.00	-39.18	peak
2 4157.664	8.33	33.80	61.31	62.58	43.40	74.00	-30.60	peak
3 4960.000	8.06	34.56	60.97	59.10	40.75	74.00	-33.25	peak
4 6106.616	9.44	35.07	60.59	60.83	44.75	74.00	-29.25	peak
5 7440.000	9.09	35.96	60.36	59.60	44.29	74.00	-29.71	peak
6 p 9920.000	11.23	37.30	61.42	58.79	45.90	74.00	-28.10	peak

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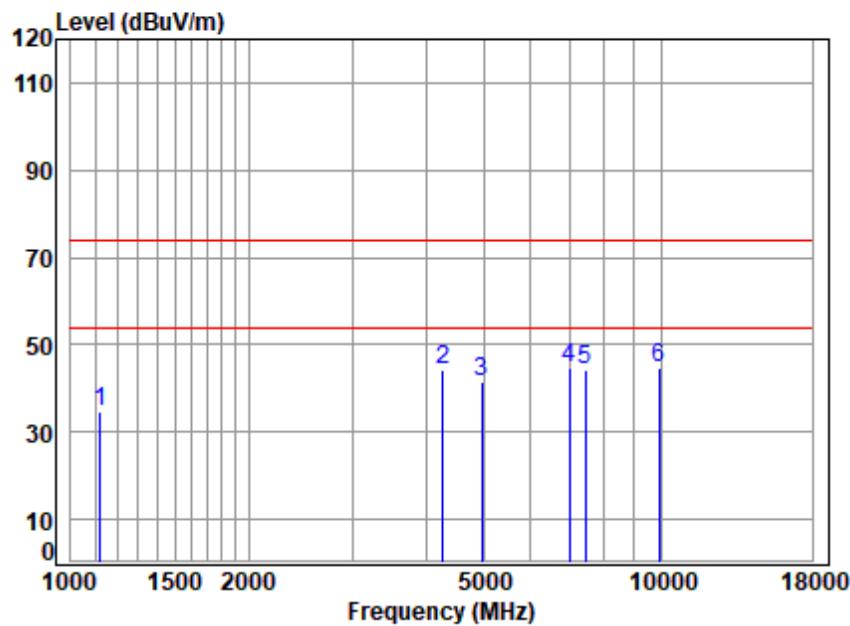
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Shenzhen Branch (SGS-CSTC Shenzhen LLC Laboratory)



Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 04137AT\04138AT
 Mode : 2480 TX RSE
 : BLE

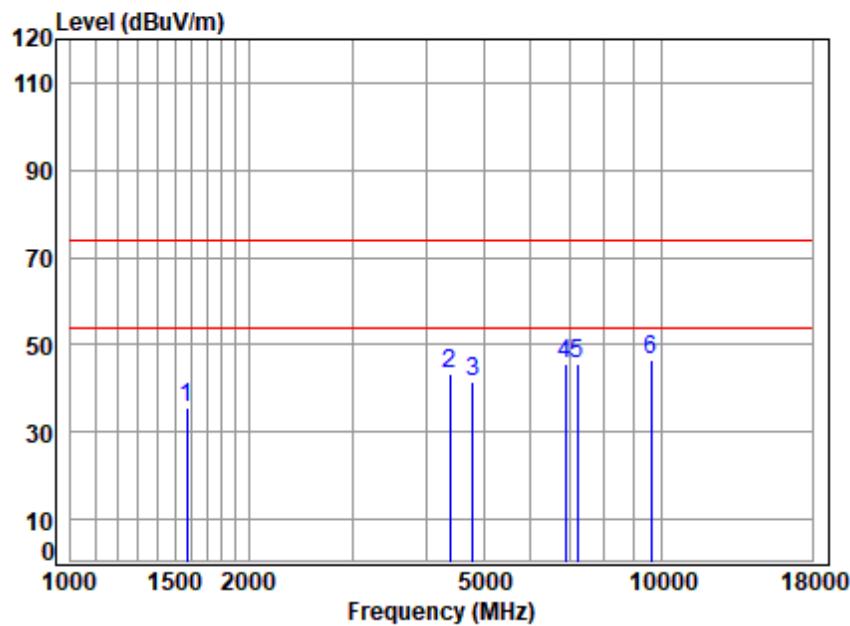
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
								dB	dB
1	1122.563	4.56	23.79	61.35	67.72	34.72	74.00	-39.28	peak
2	4267.237	8.18	33.87	61.26	63.62	44.41	74.00	-29.59	peak
3	4960.000	8.06	34.56	60.97	59.83	41.48	74.00	-32.52	peak
4	6995.172	9.53	35.71	60.43	60.06	44.87	74.00	-29.13	peak
5	7440.000	9.09	35.96	60.36	59.70	44.39	74.00	-29.61	peak
6	p 9920.000	11.23	37.30	61.42	57.83	44.94	74.00	-29.06	peak

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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04137AT\04138AT
Mode : 2402 TX RSE
: BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1574.265	4.73	26.90	61.51	65.40	35.52	74.00	-38.48 peak
2	4392.376	8.00	34.74	61.20	61.74	43.28	74.00	-30.72 peak
3	4804.000	8.00	34.32	61.03	60.38	41.67	74.00	-32.33 peak
4	6874.906	9.44	35.55	60.45	61.01	45.55	74.00	-28.45 peak
5	7206.000	9.32	35.70	60.39	60.89	45.52	74.00	-28.48 peak
6 p	9608.000	11.41	37.42	61.25	59.06	46.64	74.00	-27.36 peak

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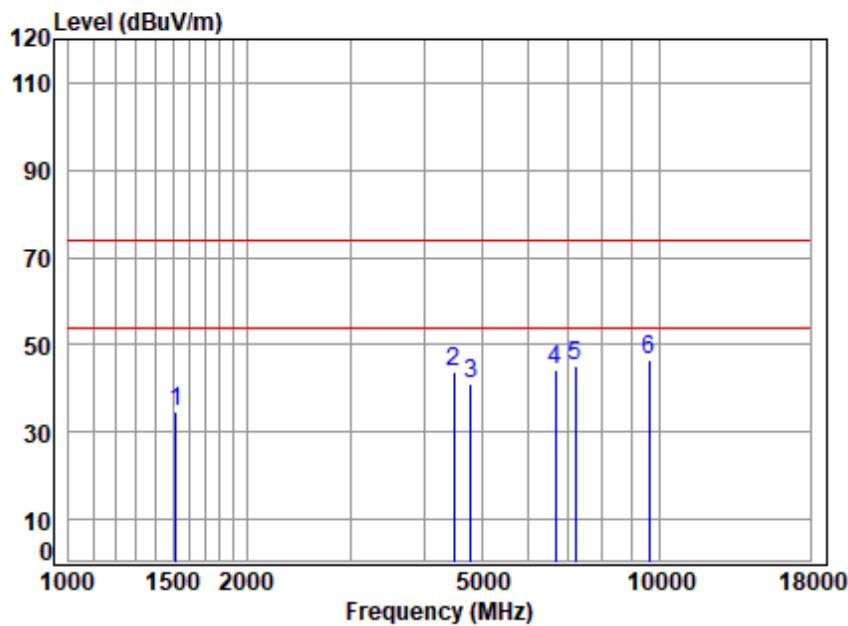
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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04137AT\04138AT
Mode : 2402 TX RSE
: BLE

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1516.210	4.61	26.86	61.49	64.53	34.51	74.00	-39.49 peak
2 4495.125	7.87	33.66	61.16	63.20	43.57	74.00	-30.43 peak
3 4804.000	8.00	34.32	61.03	59.57	40.86	74.00	-33.14 peak
4 6679.040	9.28	35.20	60.48	60.14	44.14	74.00	-29.86 peak
5 7206.000	9.32	35.70	60.39	60.33	44.96	74.00	-29.04 peak
6 p 9608.000	11.41	37.42	61.25	58.79	46.37	74.00	-27.63 peak

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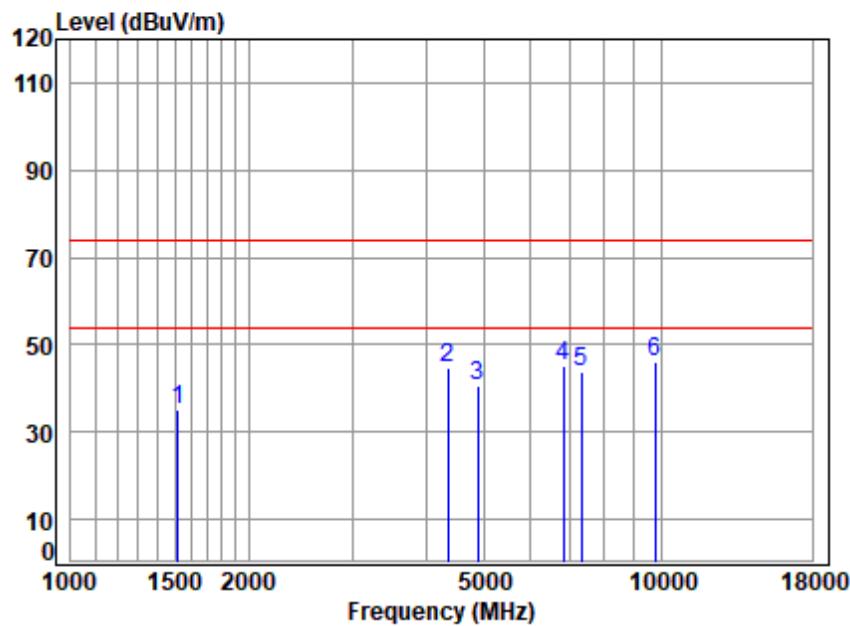
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Shenzhen Branch (SGS-CSTC Laboratory)



Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04137AT\04138AT
 Mode : 2440 TX RSE
 : BLE

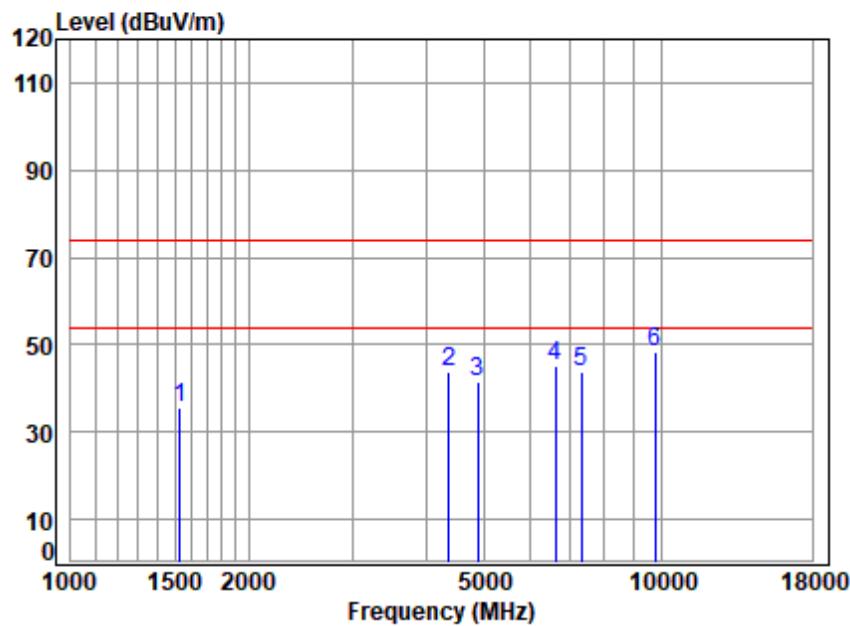
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								MHz	dB
								dB	dB
1	1516.210	4.61	26.86	61.49	65.36	35.34	74.00	-38.66	peak
2	4354.454	8.06	34.44	61.22	63.22	44.50	74.00	-29.50	peak
3	4880.000	8.03	34.62	61.00	58.94	40.59	74.00	-33.41	peak
4	6835.278	9.40	35.44	60.46	60.77	45.15	74.00	-28.85	peak
5	7320.000	9.21	35.70	60.37	59.36	43.90	74.00	-30.10	peak
6 p	9760.000	11.32	37.38	61.33	58.67	46.04	74.00	-27.96	peak

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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:middle

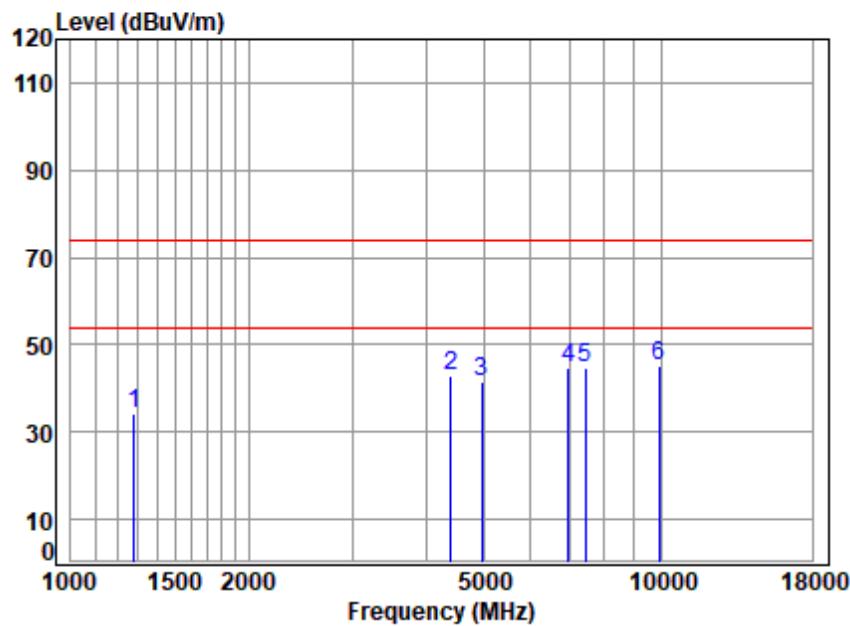


Site : chamber
Condition: 3m VERTICAL
Job No : 04137AT\04138AT
Mode : 2440 TX RSE
: BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								dB	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	1529.414	4.64	26.92	61.50	65.33	35.39	74.00	-38.61	peak
2	4367.058	8.04	34.54	61.21	62.54	43.91	74.00	-30.09	peak
3	4880.000	8.03	34.62	61.00	60.08	41.73	74.00	-32.27	peak
4	6621.375	9.24	35.26	60.49	60.95	44.96	74.00	-29.04	peak
5	7320.000	9.21	35.70	60.37	59.07	43.61	74.00	-30.39	peak
6	p 9760.000	11.32	37.38	61.33	61.09	48.46	74.00	-25.54	peak



Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04137AT\04138AT
 Mode : 2480 TX RSE
 : BLE

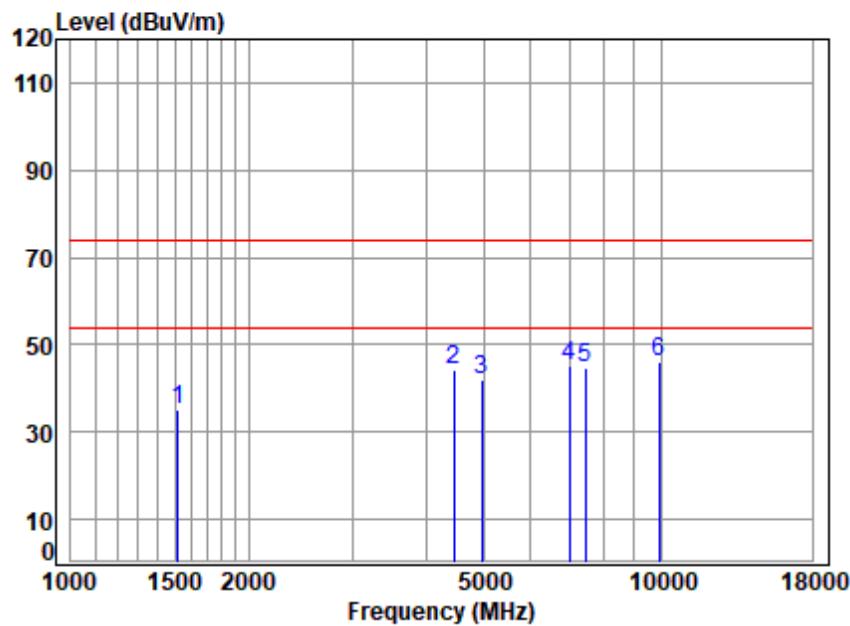
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1278.492	4.56	24.93	61.41	66.28	34.36	74.00	-39.64 peak
2 4405.090	7.99	34.74	61.20	61.26	42.79	74.00	-31.21 peak
3 4960.000	8.06	34.56	60.97	59.97	41.62	74.00	-32.38 peak
4 6954.852	9.50	35.79	60.44	59.88	44.73	74.00	-29.27 peak
5 7440.000	9.09	35.96	60.36	60.13	44.82	74.00	-29.18 peak
6 p 9920.000	11.23	37.30	61.42	57.86	44.97	74.00	-29.03 peak

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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 04137AT\04138AT
Mode : 2480 TX RSE
: BLE

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1520.598	4.62	26.88	61.49	65.24	35.25	74.00	-38.75 peak
2 4456.315	7.92	34.12	61.17	63.20	44.07	74.00	-29.93 peak
3 4960.000	8.06	34.56	60.97	60.31	41.96	74.00	-32.04 peak
4 6974.982	9.51	35.75	60.43	60.29	45.12	74.00	-28.88 peak
5 7440.000	9.09	35.96	60.36	60.12	44.81	74.00	-29.19 peak
6 p 9920.000	11.23	37.30	61.42	58.99	46.10	74.00	-27.90 peak

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7.4 Conducted Peak Output Power

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

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

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 38.8 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

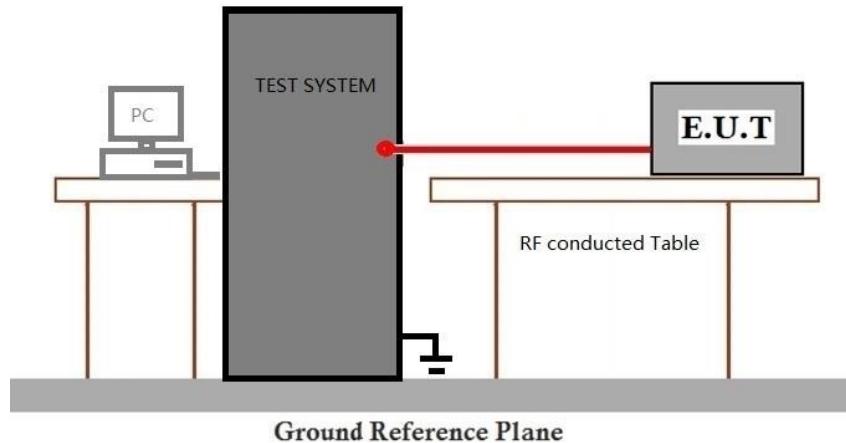
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation

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7.4.3 Test Setup Diagram**7.4.4 Measurement Procedure and Data**

Please Refer to Appendix for Details

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7.5 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

7.5.1 E.U.T. Operation

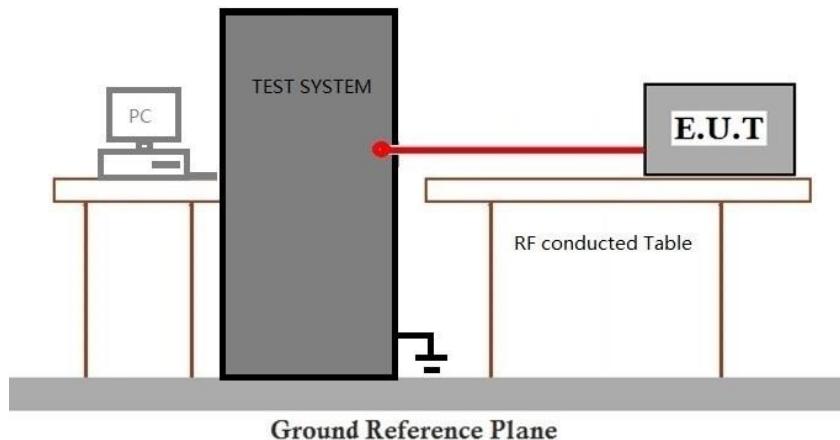
Operating Environment:

Temperature: 24.0 °C Humidity: 38.8 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 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

7.6.1 E.U.T. Operation

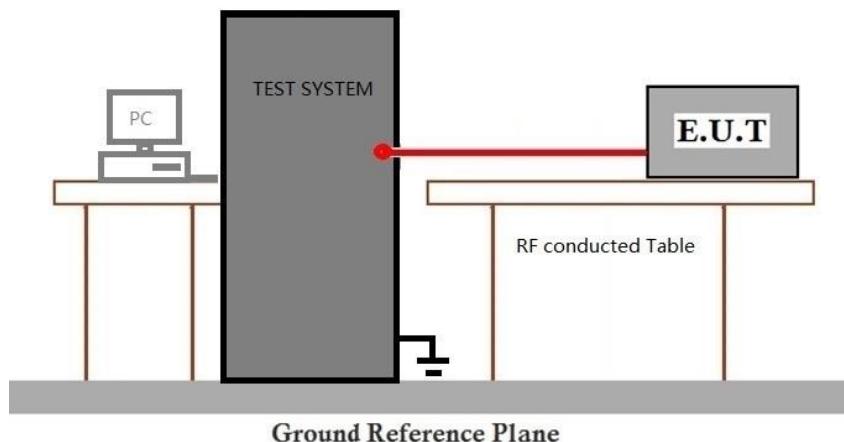
Operating Environment:

Temperature: 24.0 °C Humidity: 38.8 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 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)).

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 38.8 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation

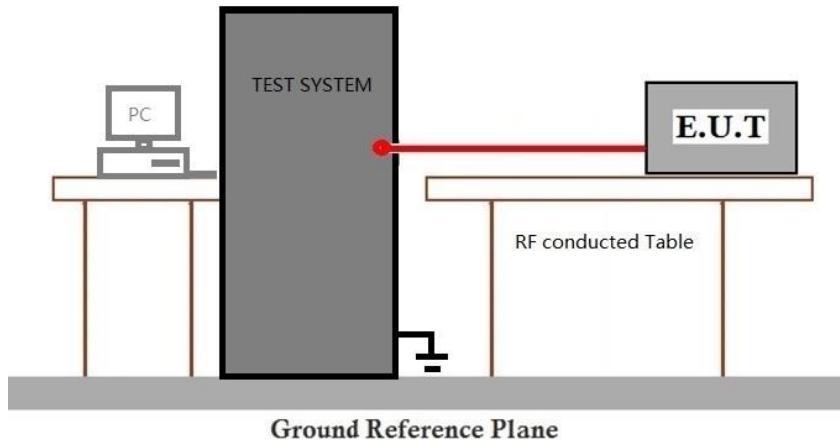
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7.7.3 Test Setup Diagram**7.7.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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7.8 Conducted 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)).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 38.8 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps_Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(1Mbps_Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation

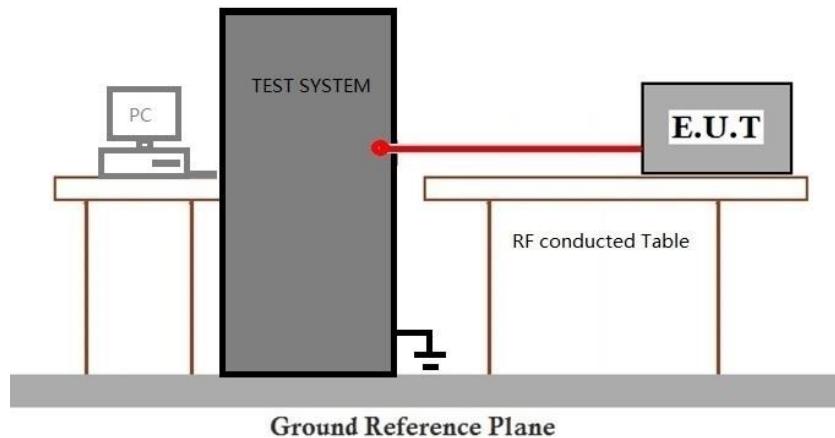
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7.8.3 Test Setup Diagram**7.8.4 Measurement Procedure and Data**

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2411004137AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2411004137AT



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10 Appendix

For right earbud:

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.095	0.625	15.20	8.18	0.00
		2440	0.095	0.625	15.20	8.18	0.00
		2480	0.096	0.625	15.36	8.14	0.00



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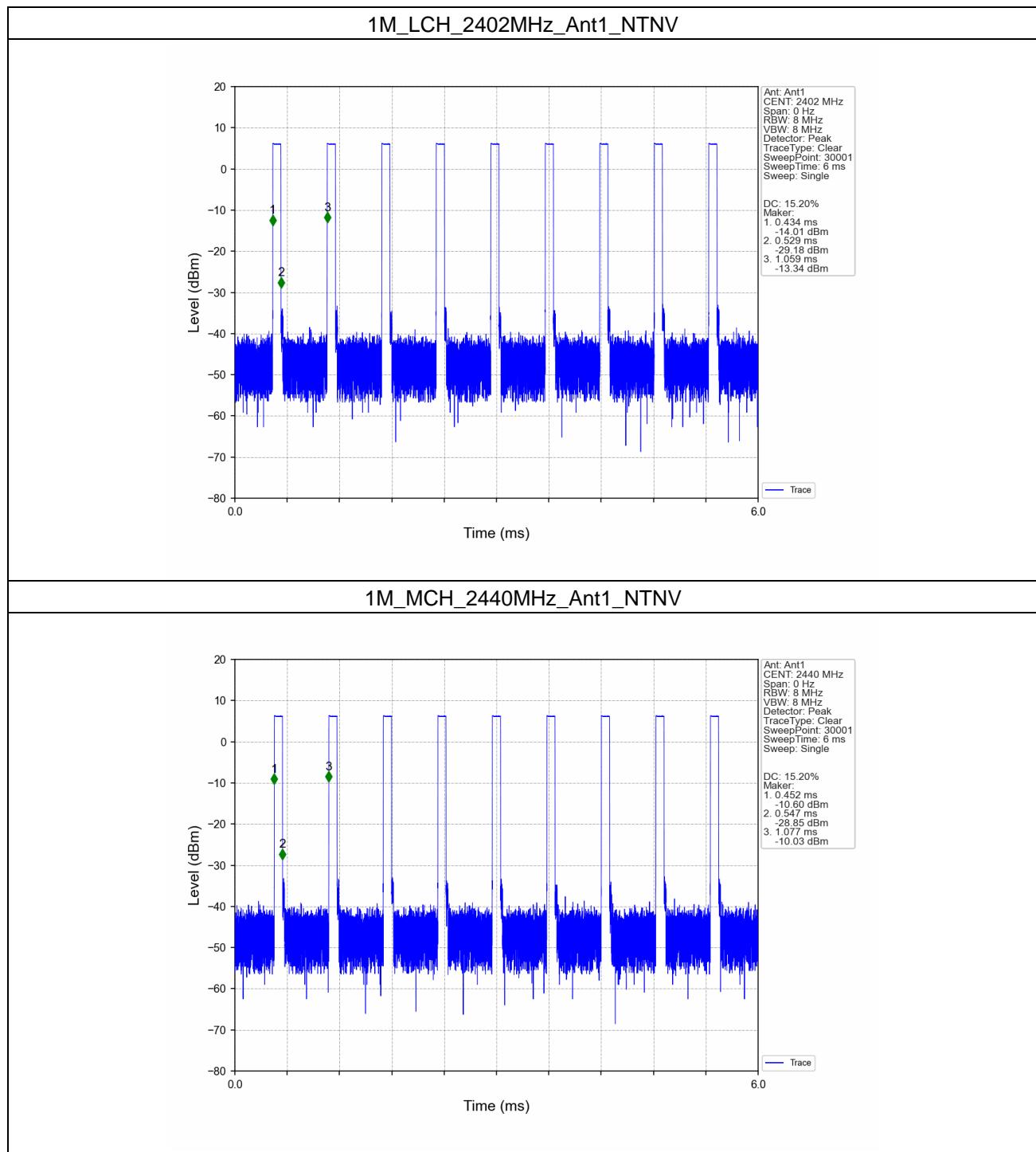
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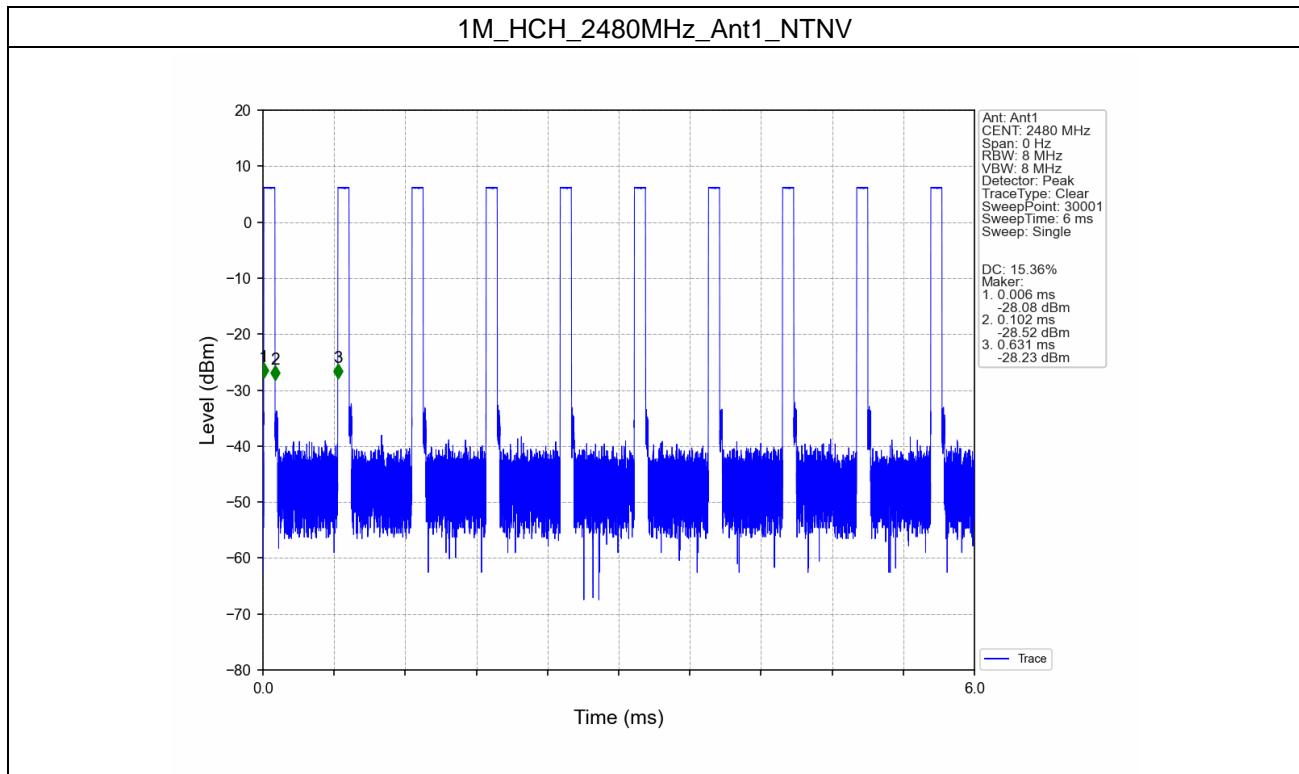
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1.2 Test Graph

1.2.1 Ant1





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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.027	/	Pass
		2440	1	1.024	/	Pass
		2480	1	1.022	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.515	>=0.5	Pass
		2440	1	0.515	>=0.5	Pass
		2480	1	0.516	>=0.5	Pass



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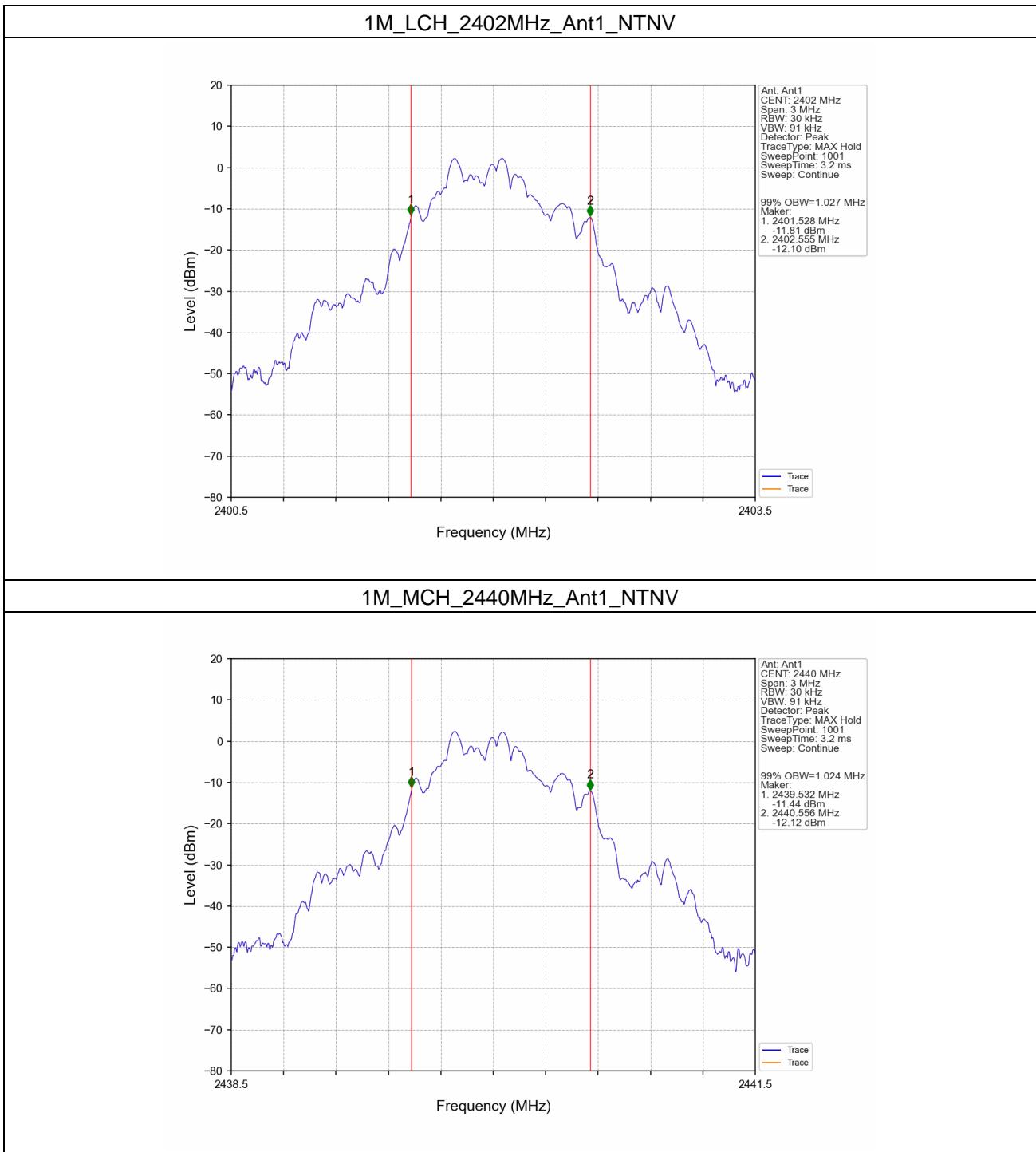
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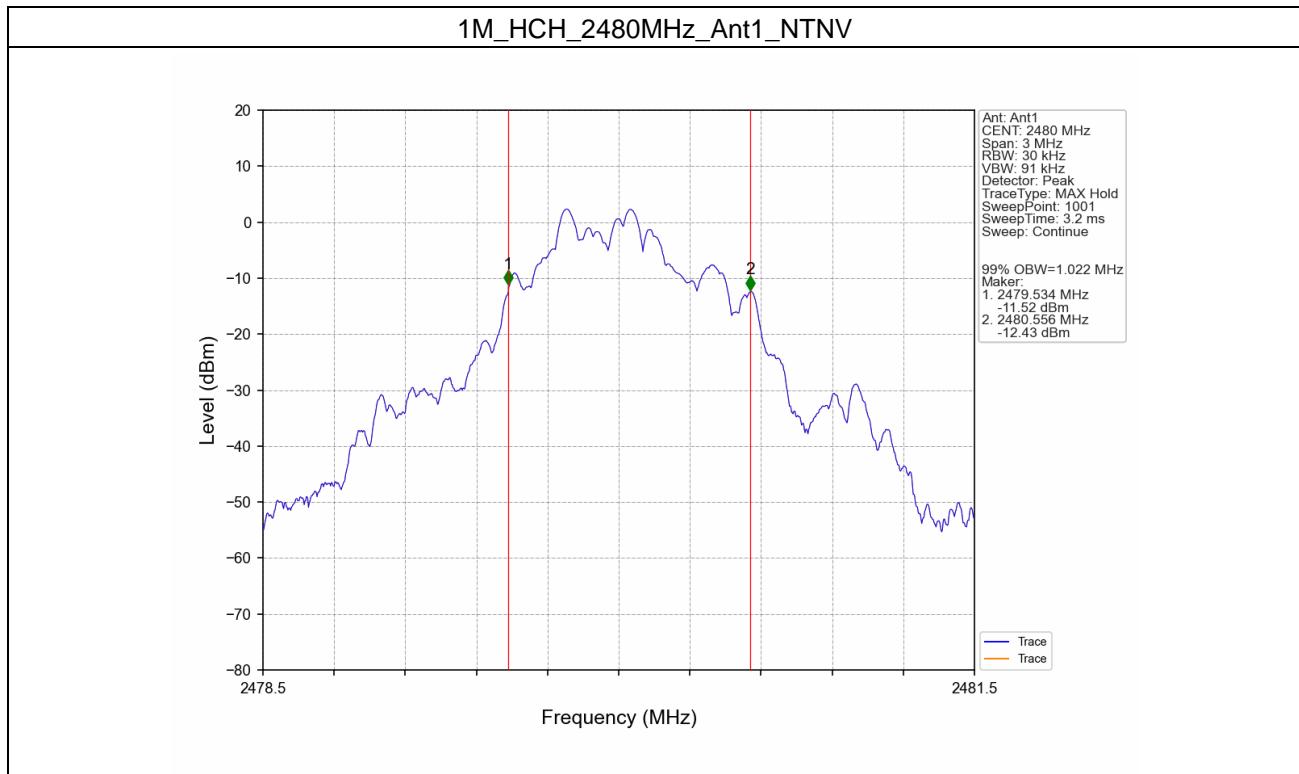
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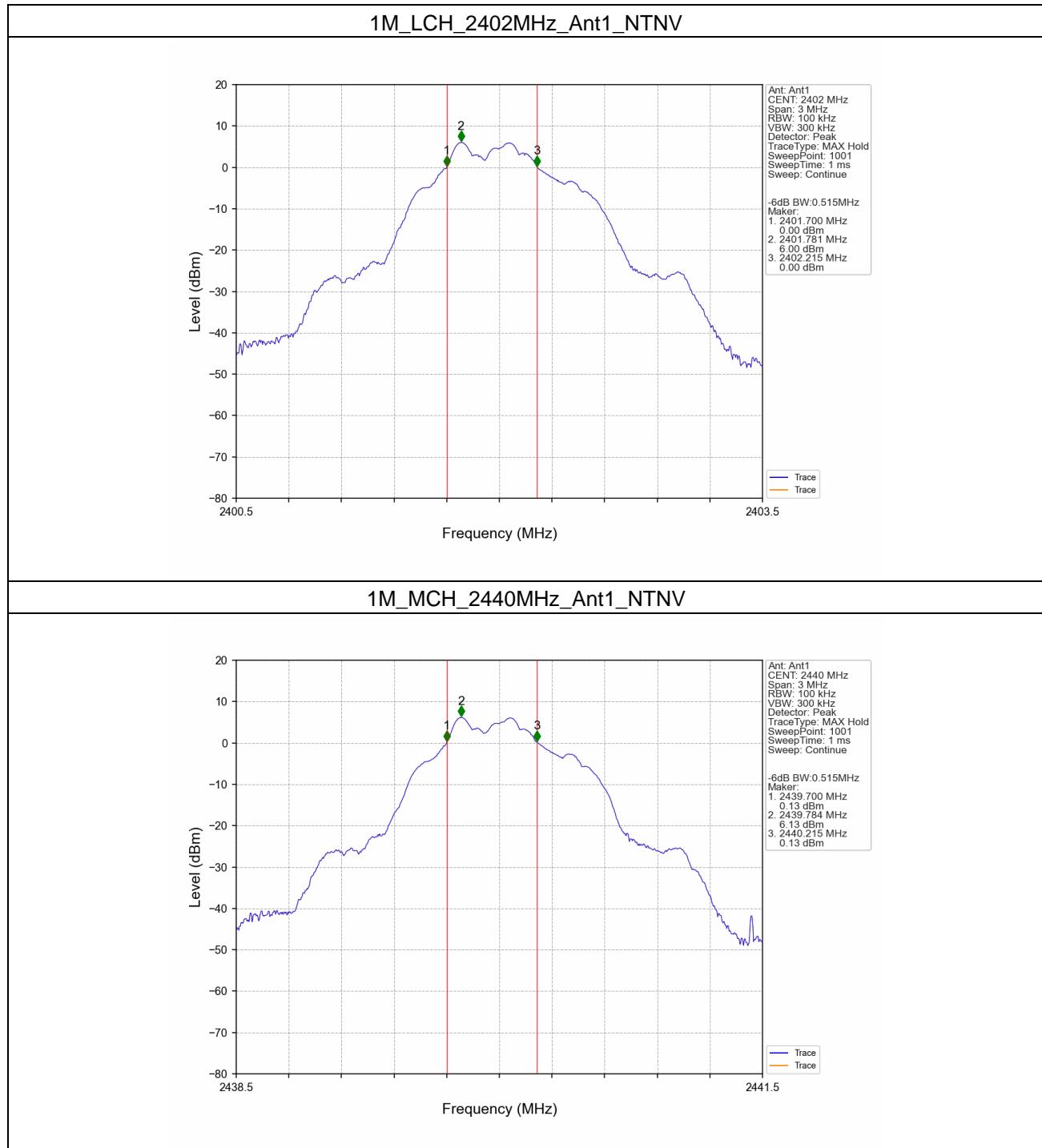
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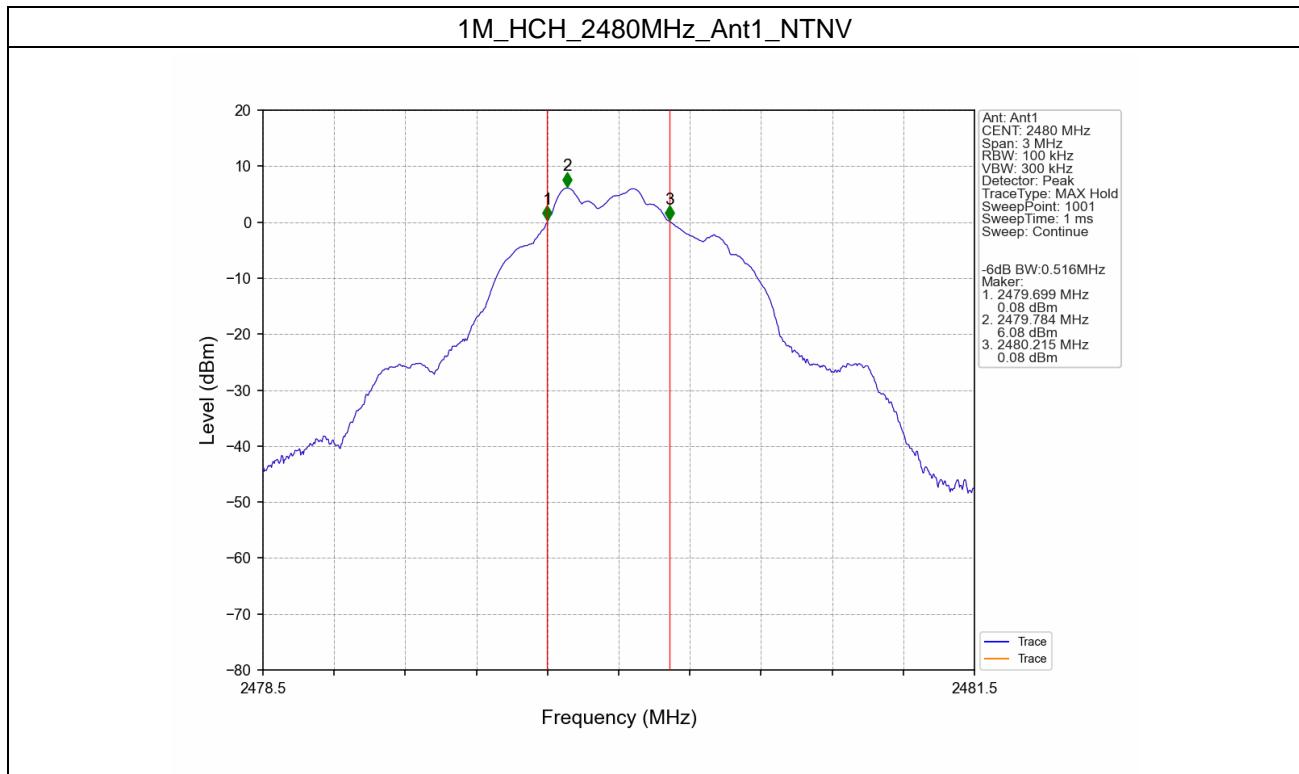
2.2 Test Graph

2.2.1 OBW





2.2.2 6dB BW



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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	6.12	<=30	Pass
		2440	6.23	<=30	Pass
		2480	6.10	<=30	Pass

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	-13.28	<=8	Pass
		2440	-13.45	<=8	Pass
		2480	-13.23	<=8	Pass

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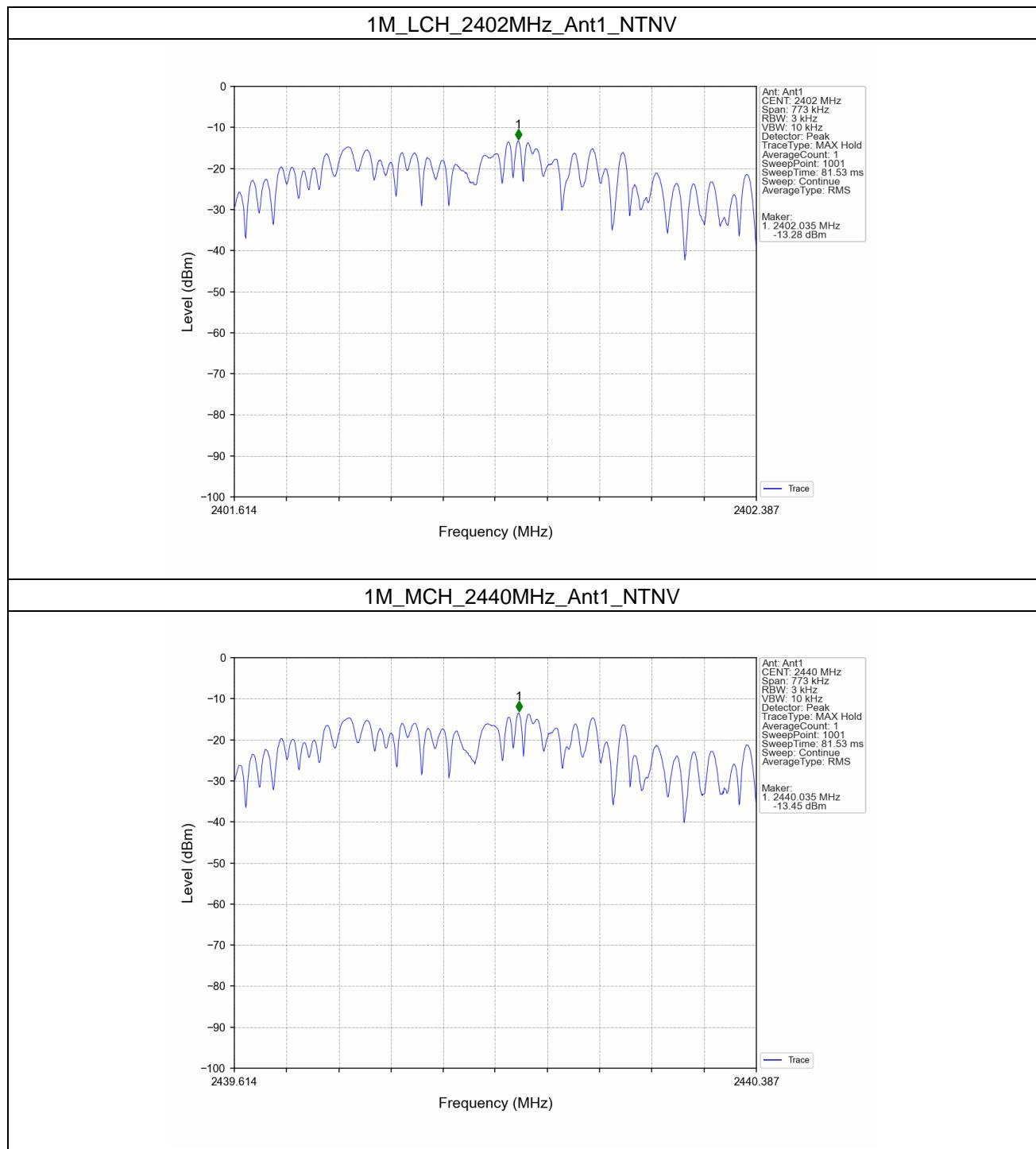
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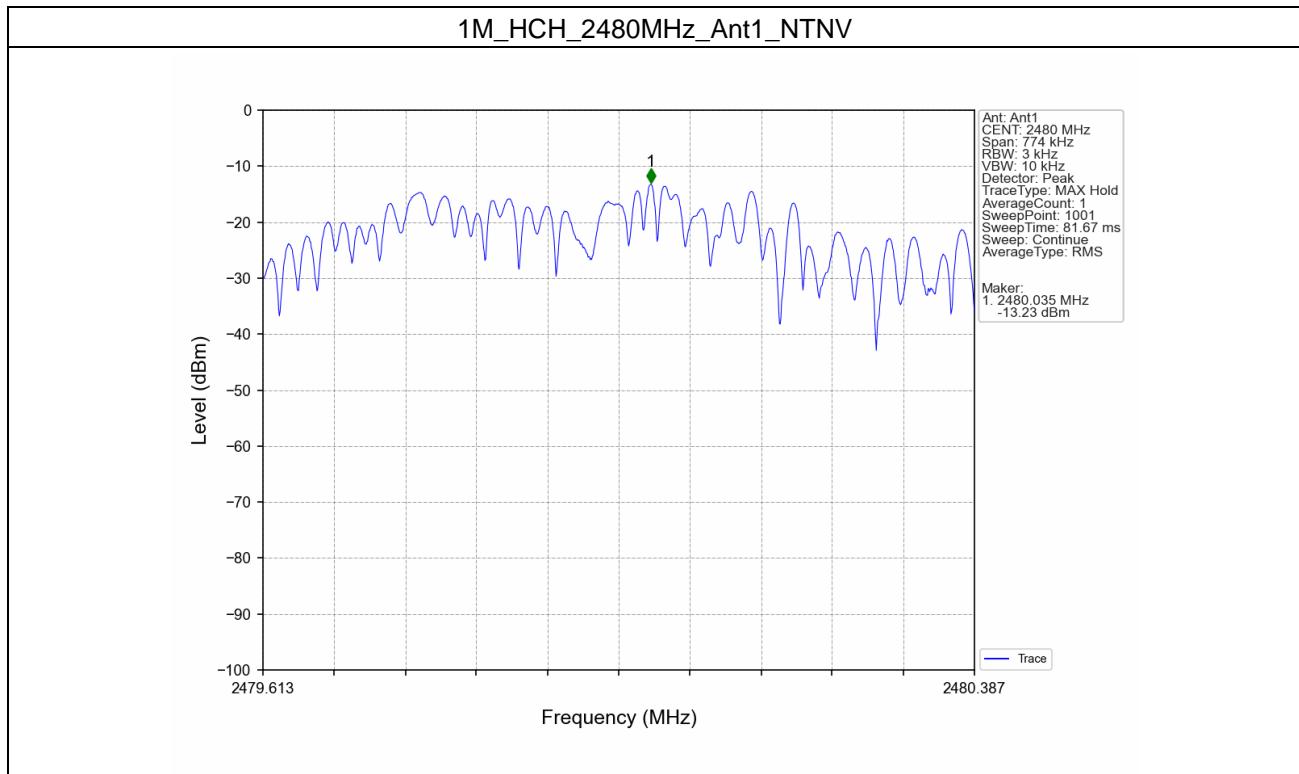
4.2 Test Graph

4.2.1 PSD



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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	5.97
		2440	1	6.08
		2480	1	6.02

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	6.08	-13.92	Pass
		2440	1	6.08	-13.92	Pass
		2480	1	6.08	-13.92	Pass



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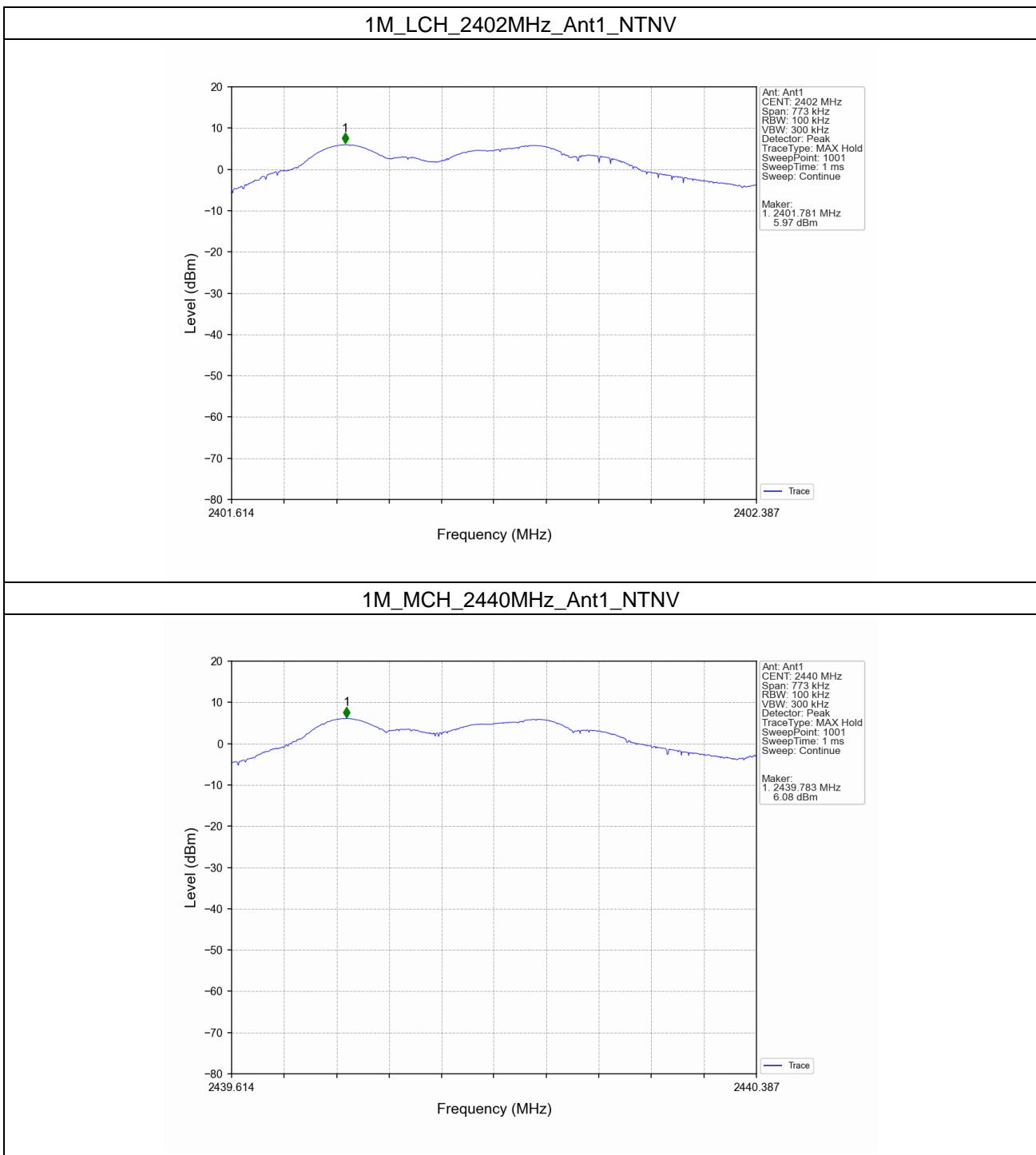
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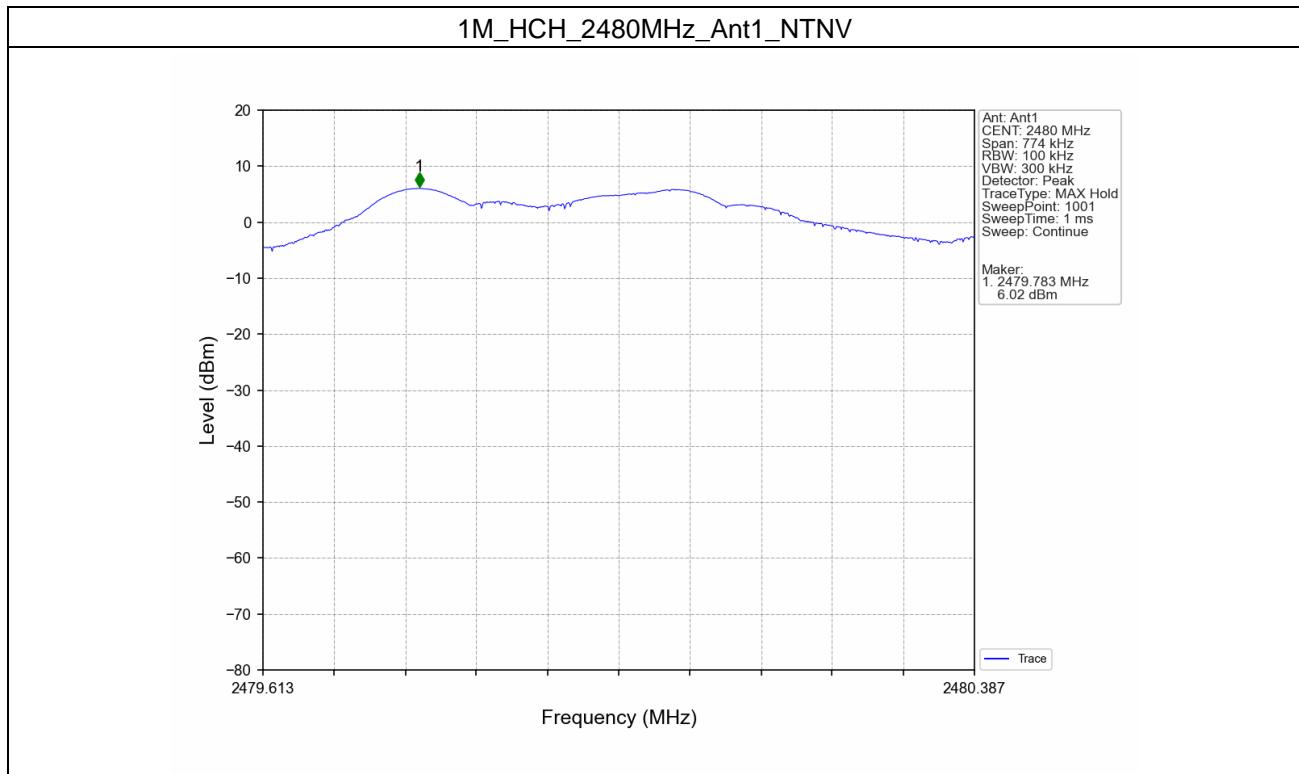
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5.2 Test Graph

5.2.1 Ref





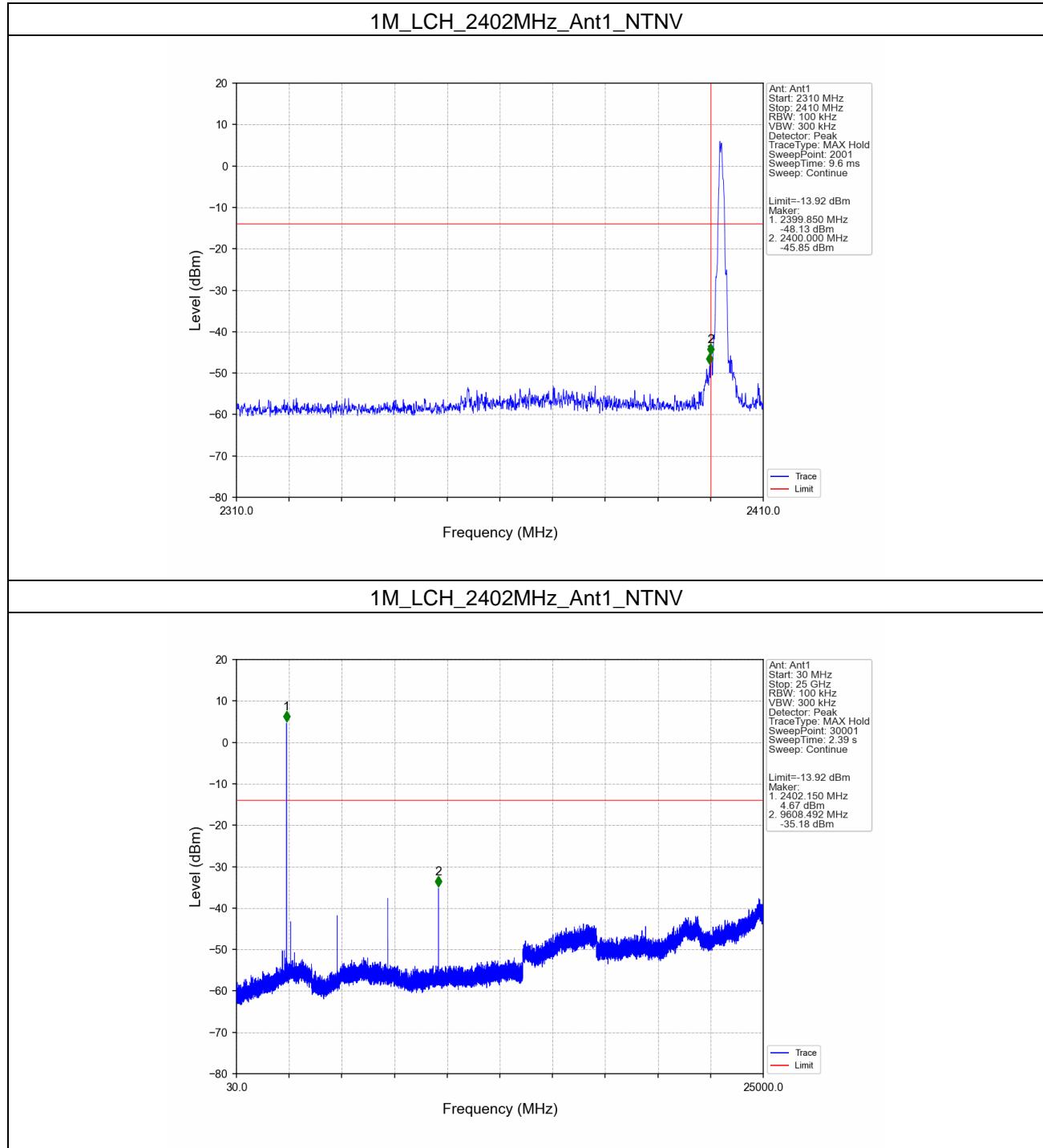
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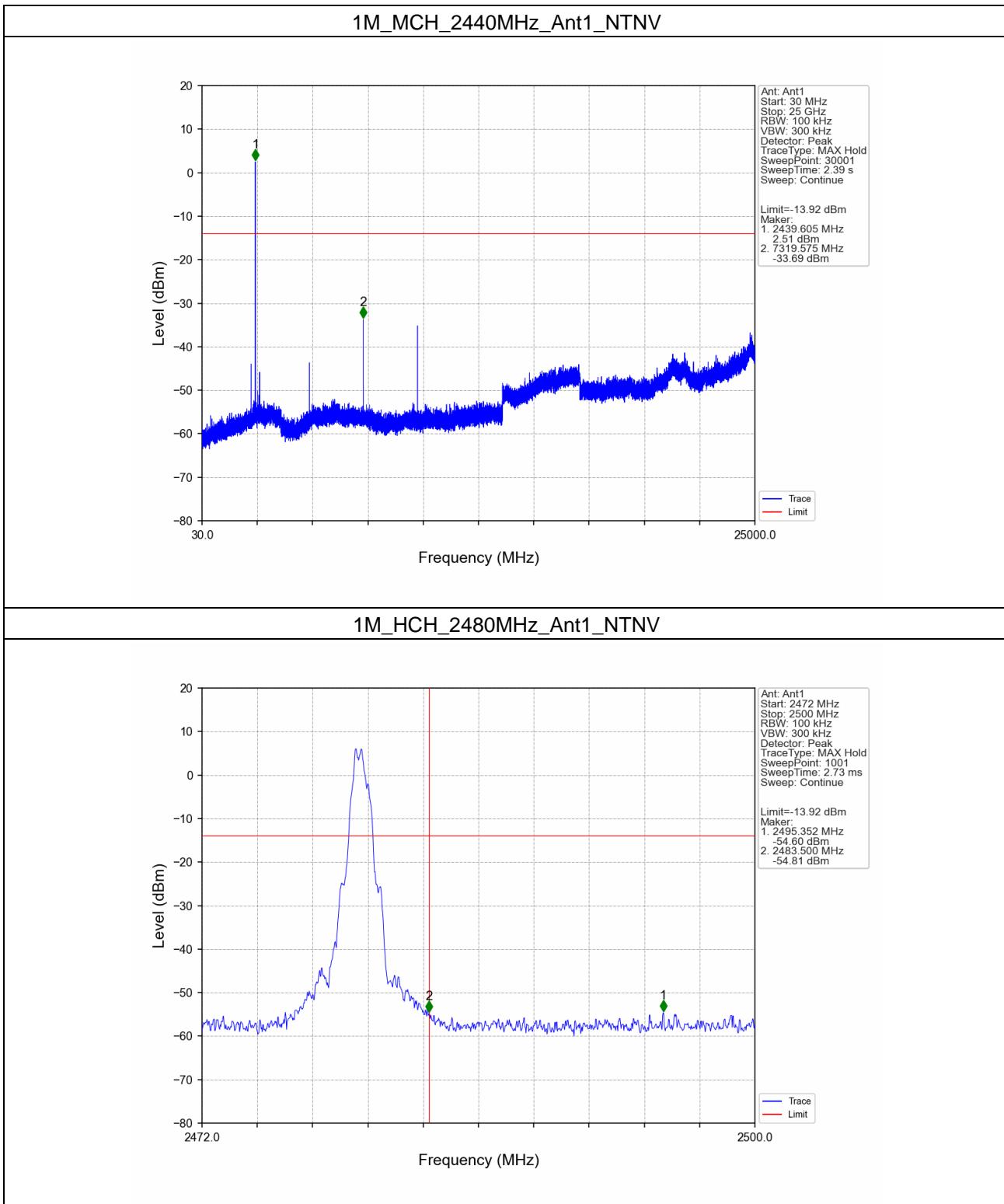
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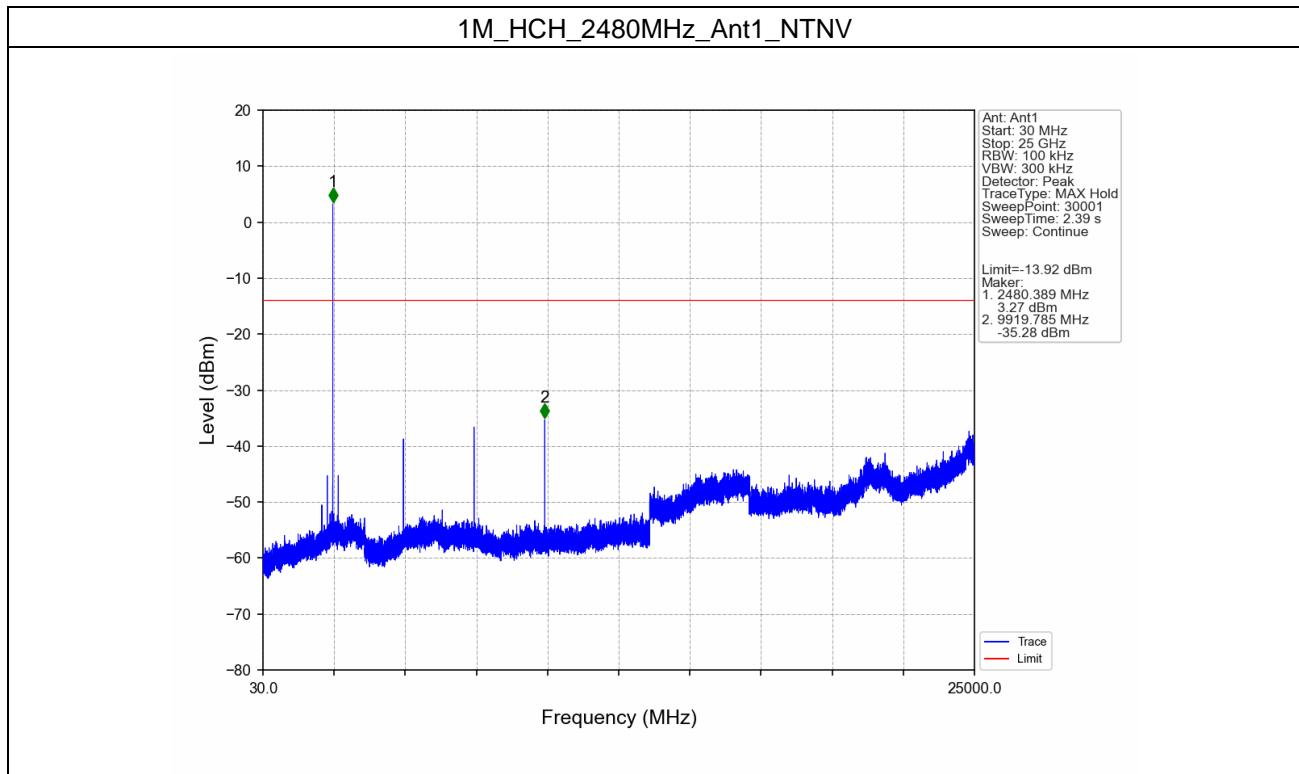
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5.2.2 CSE





For left earbud:

1. Duty Cycle**1.1 Test Result****1.1.1 Ant1**

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.094	0.625	15.04	8.23	0.03
		2440	0.094	0.625	15.04	8.23	0.03
		2480	0.095	0.625	15.20	8.18	0.00

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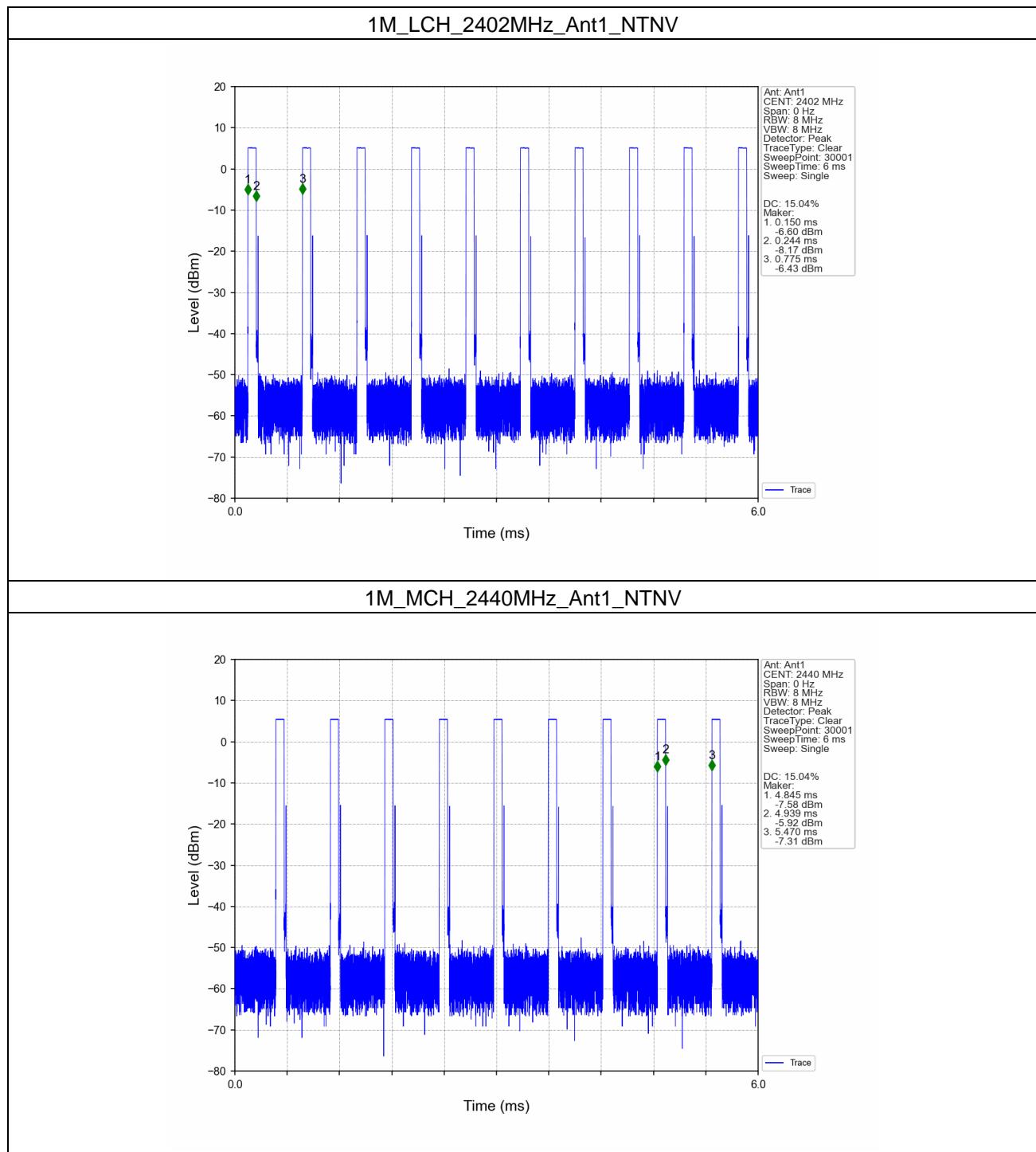
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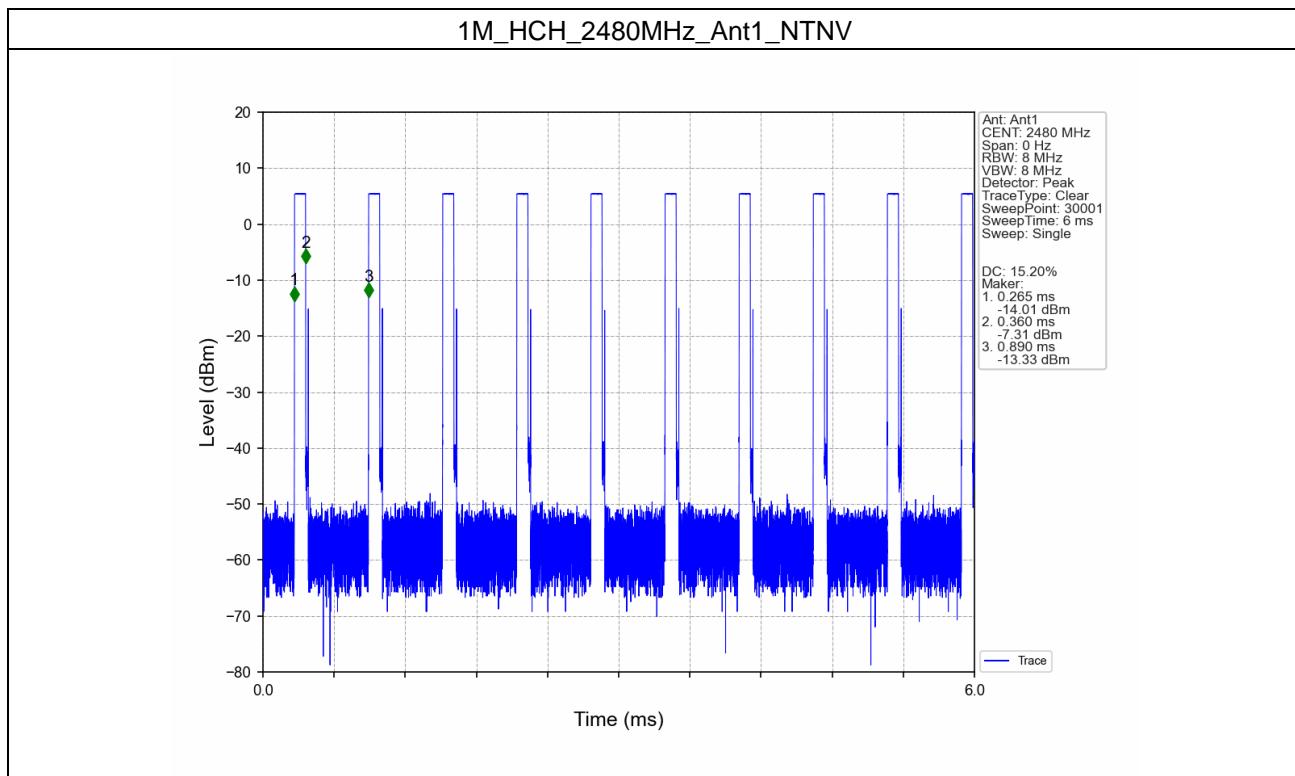
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1.2 Test Graph

1.2.1 Ant1





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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.024	/	Pass
		2440	1	1.028	/	Pass
		2480	1	1.028	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.515	>=0.5	Pass
		2440	1	0.515	>=0.5	Pass
		2480	1	0.509	>=0.5	Pass



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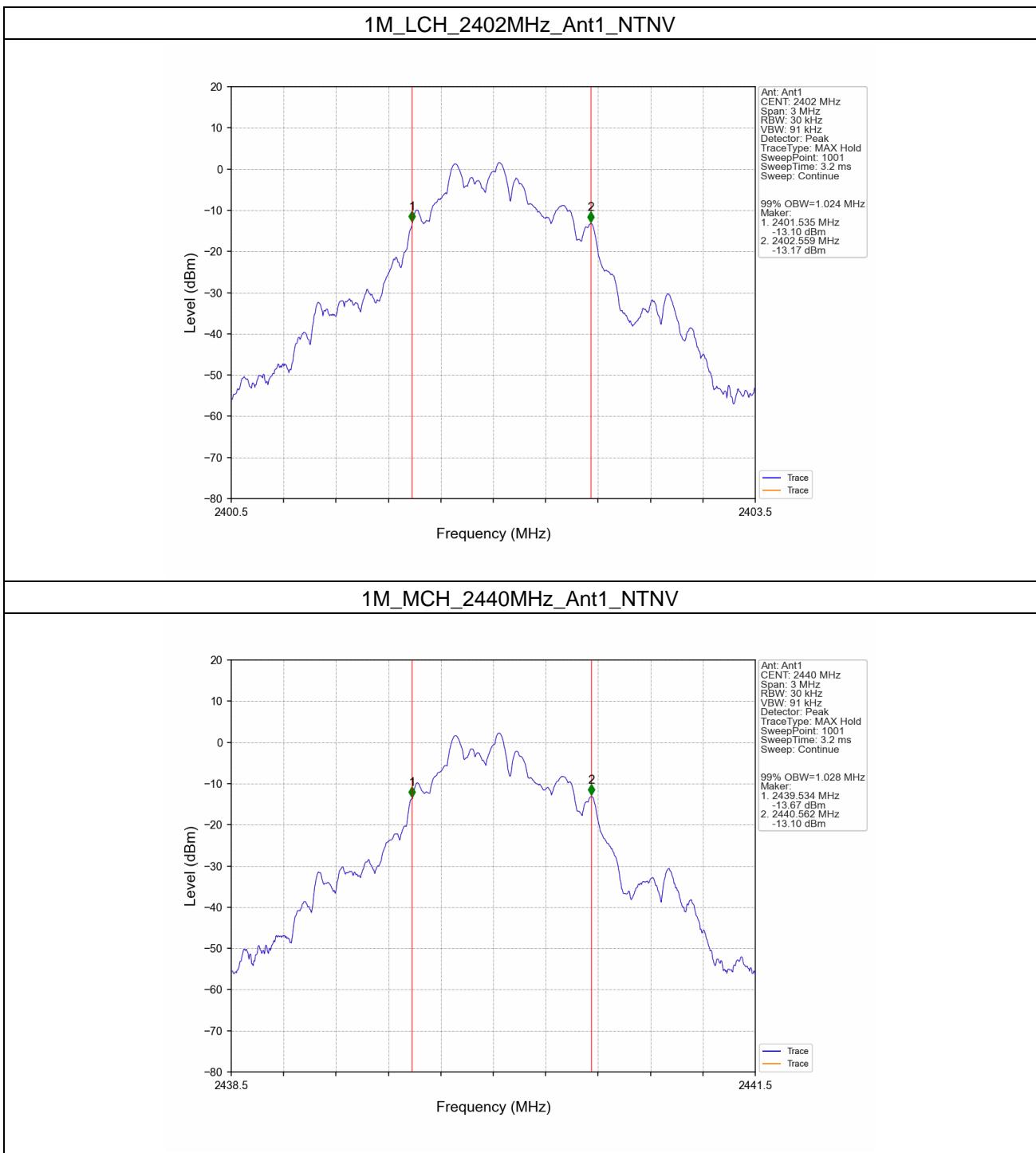
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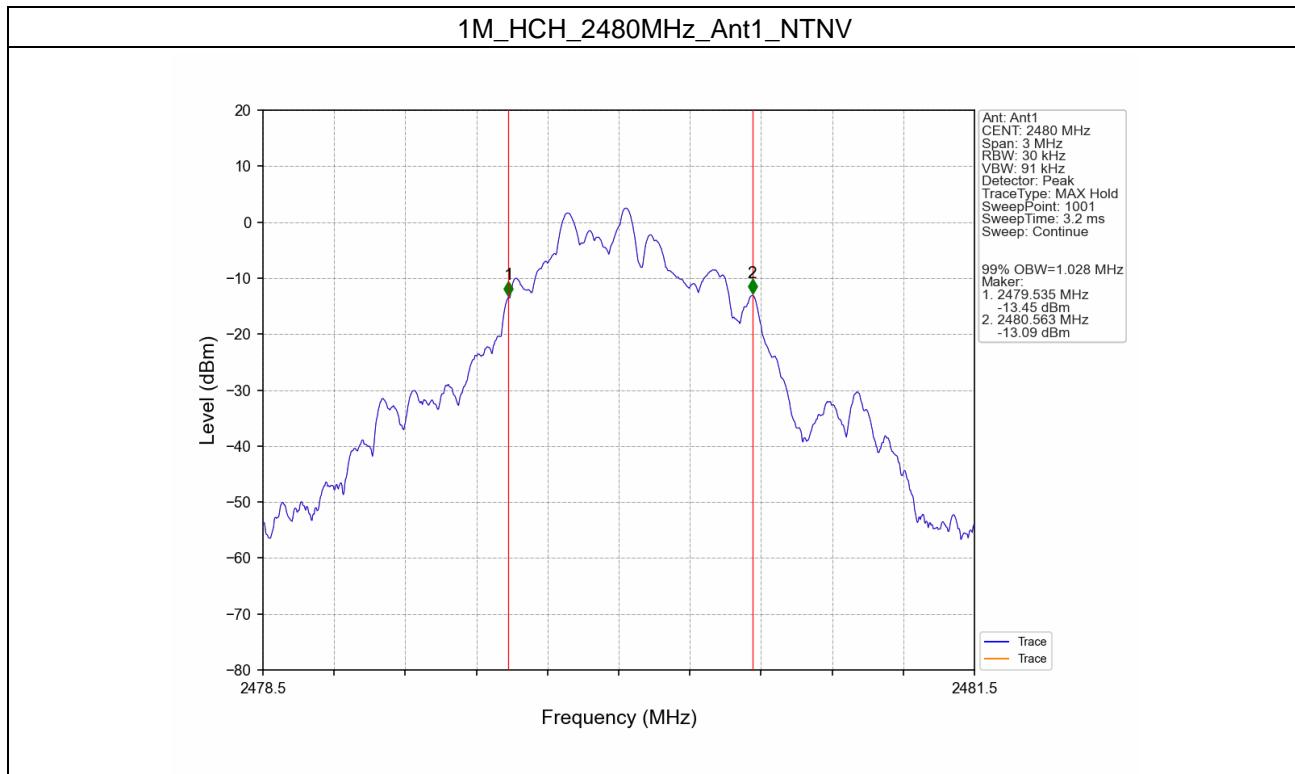
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2.2 Test Graph

2.2.1 OBW



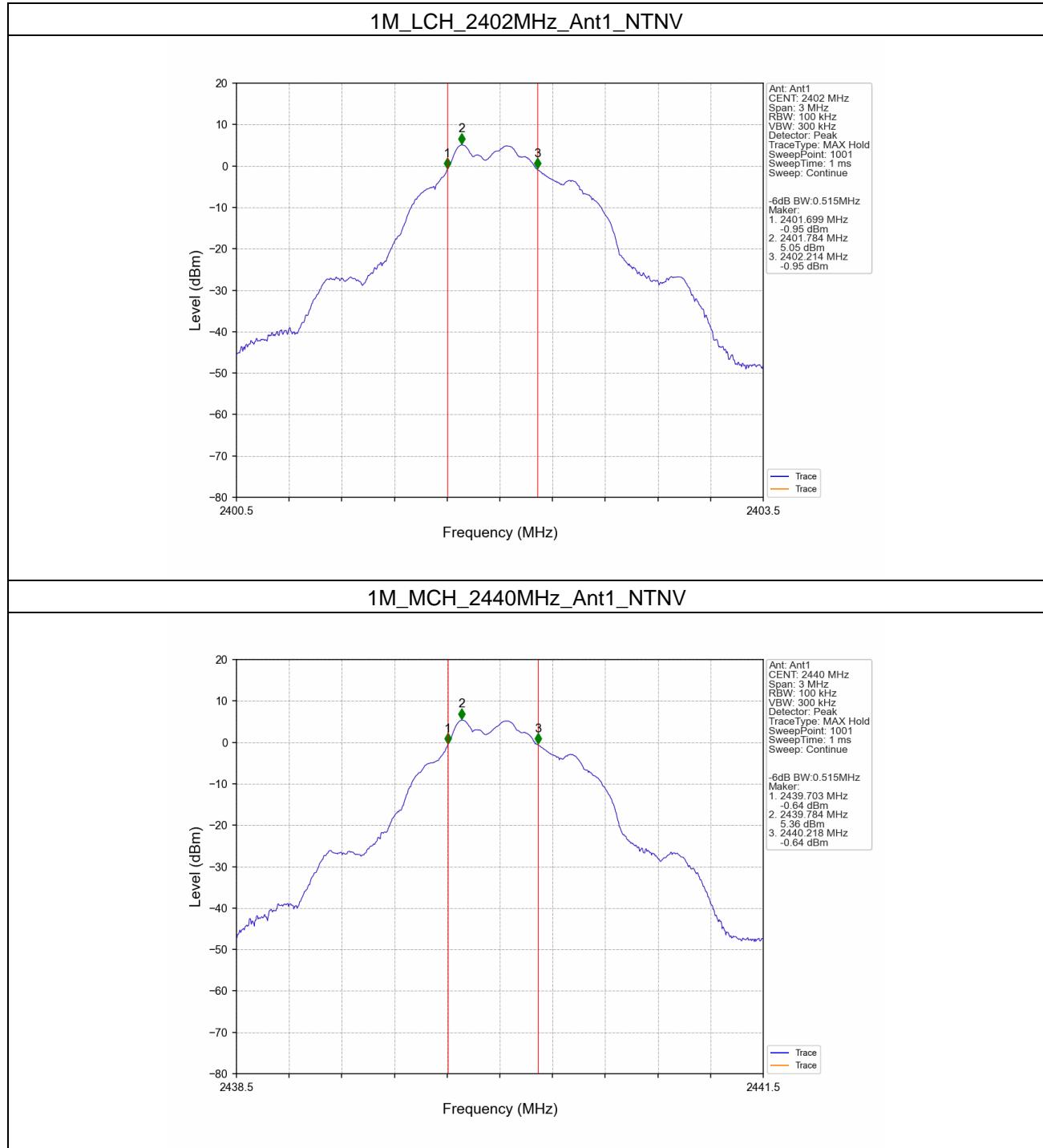


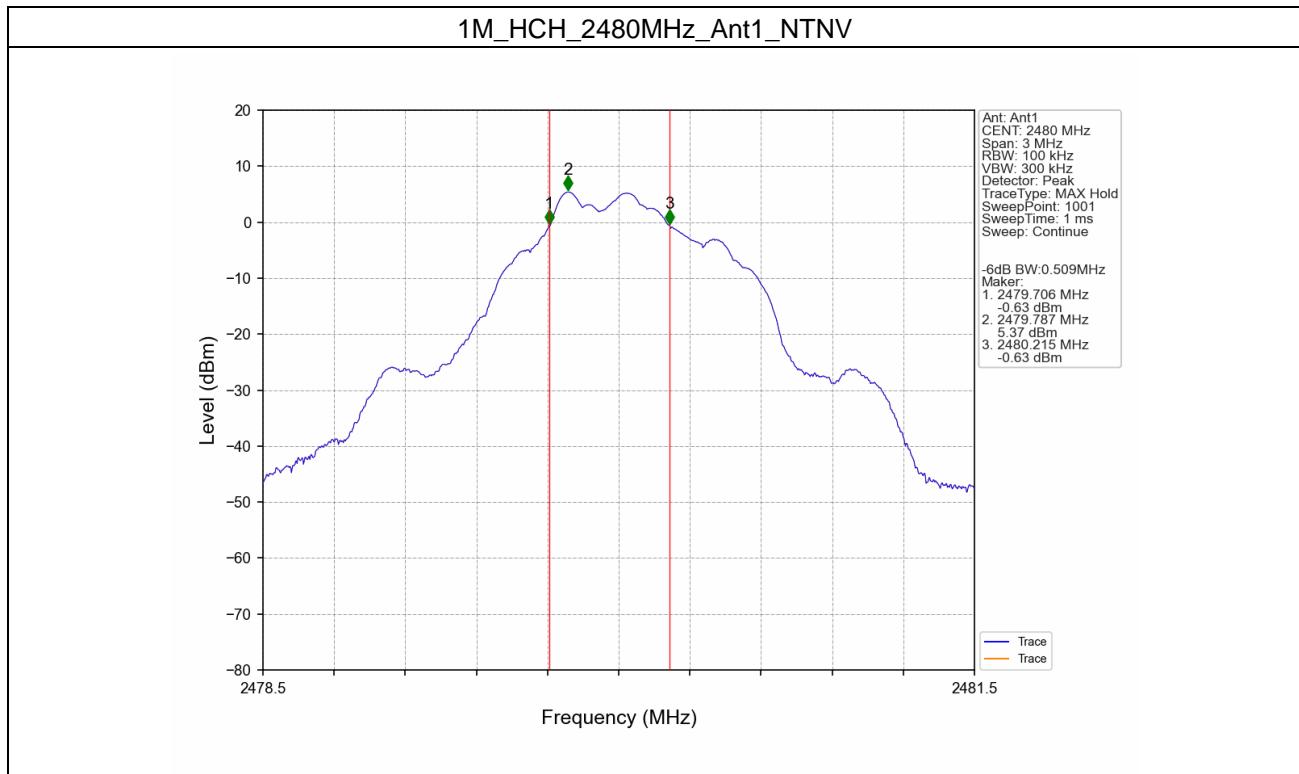
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2.2.2 6dB BW



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	5.13	<=30	Pass
		2440	5.44	<=30	Pass
		2480	5.45	<=30	Pass

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	-13.39	<=8	Pass
		2440	-12.88	<=8	Pass
		2480	-12.34	<=8	Pass



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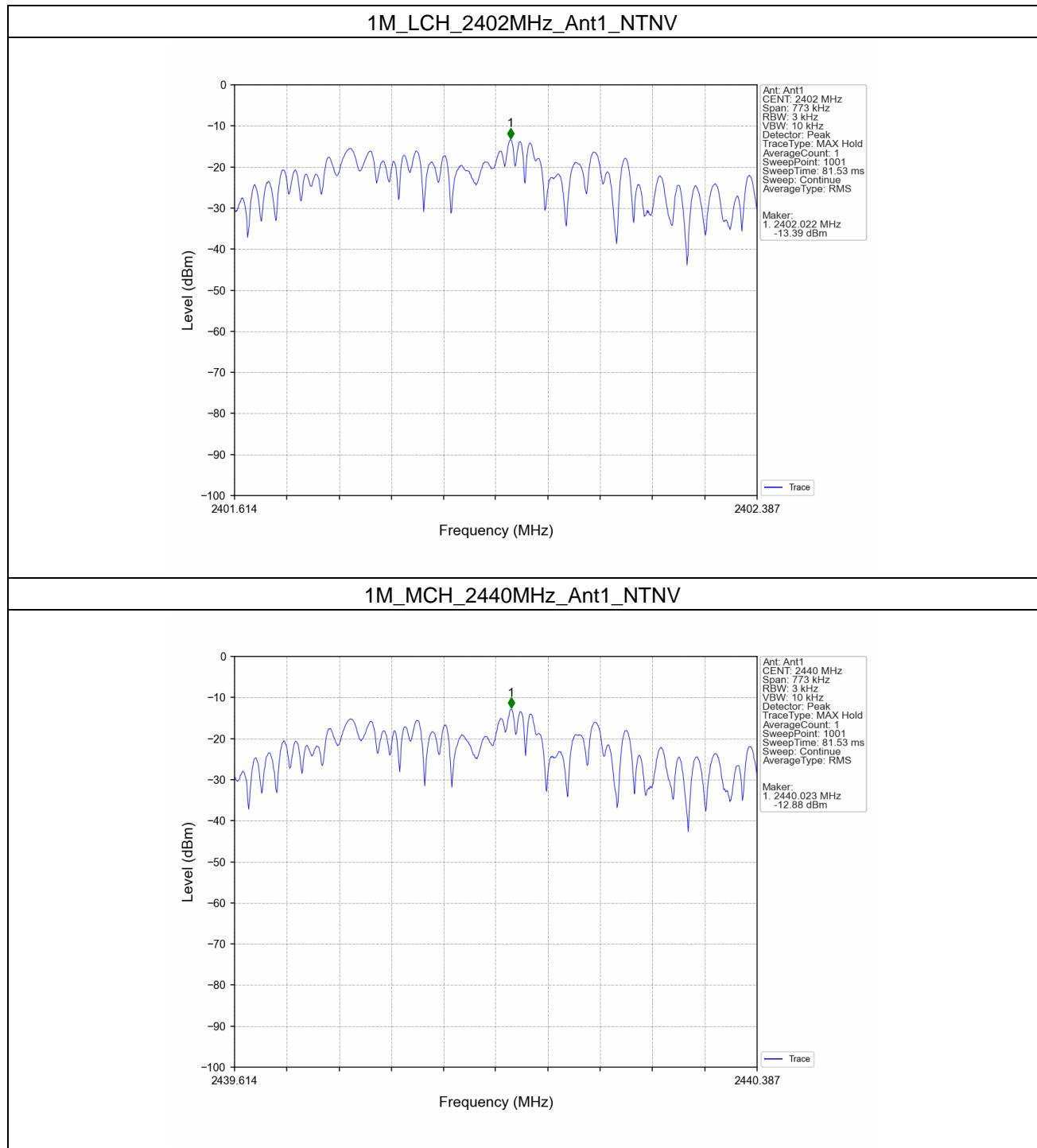
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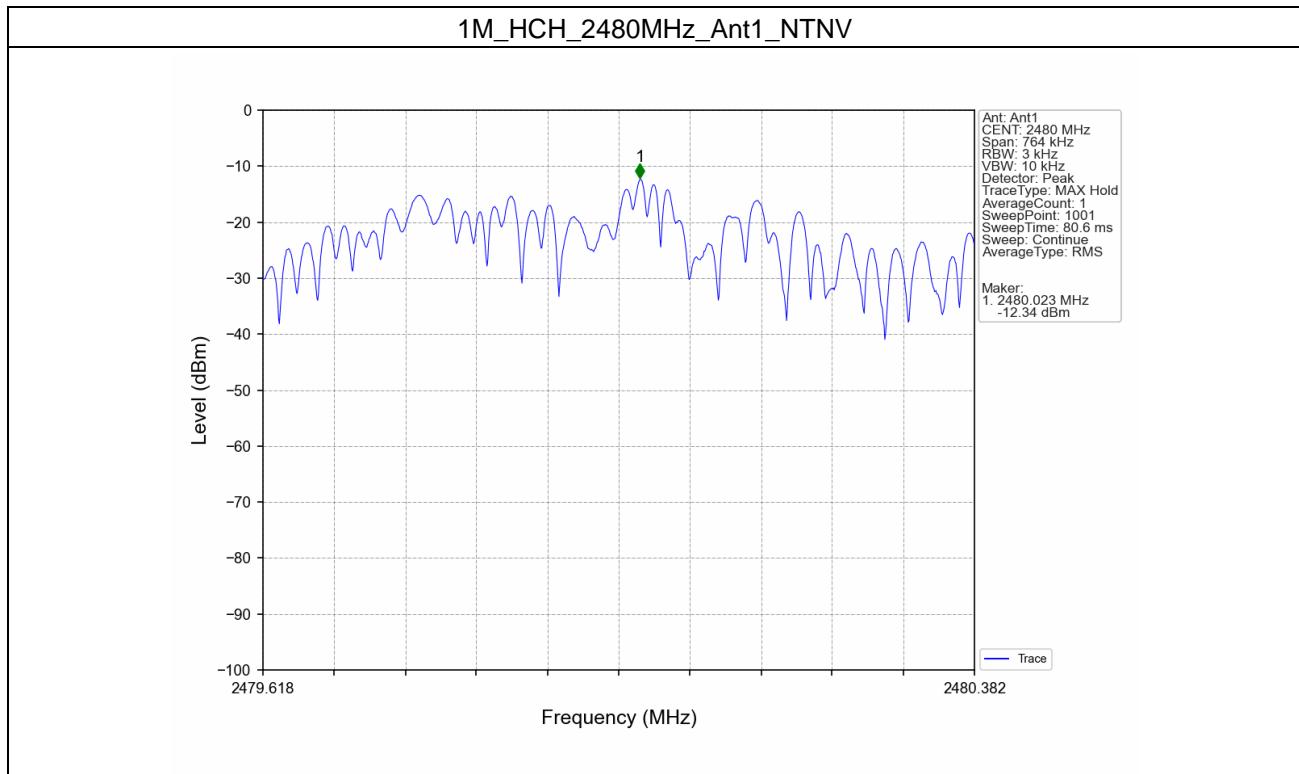
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4.2 Test Graph

4.2.1 PSD





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	5.07
		2440	1	5.36
		2480	1	5.37

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	5.37	-14.63	Pass
		2440	1	5.37	-14.63	Pass
		2480	1	5.37	-14.63	Pass



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Shenzhen Branch (SGS-CSTC) Laboratory

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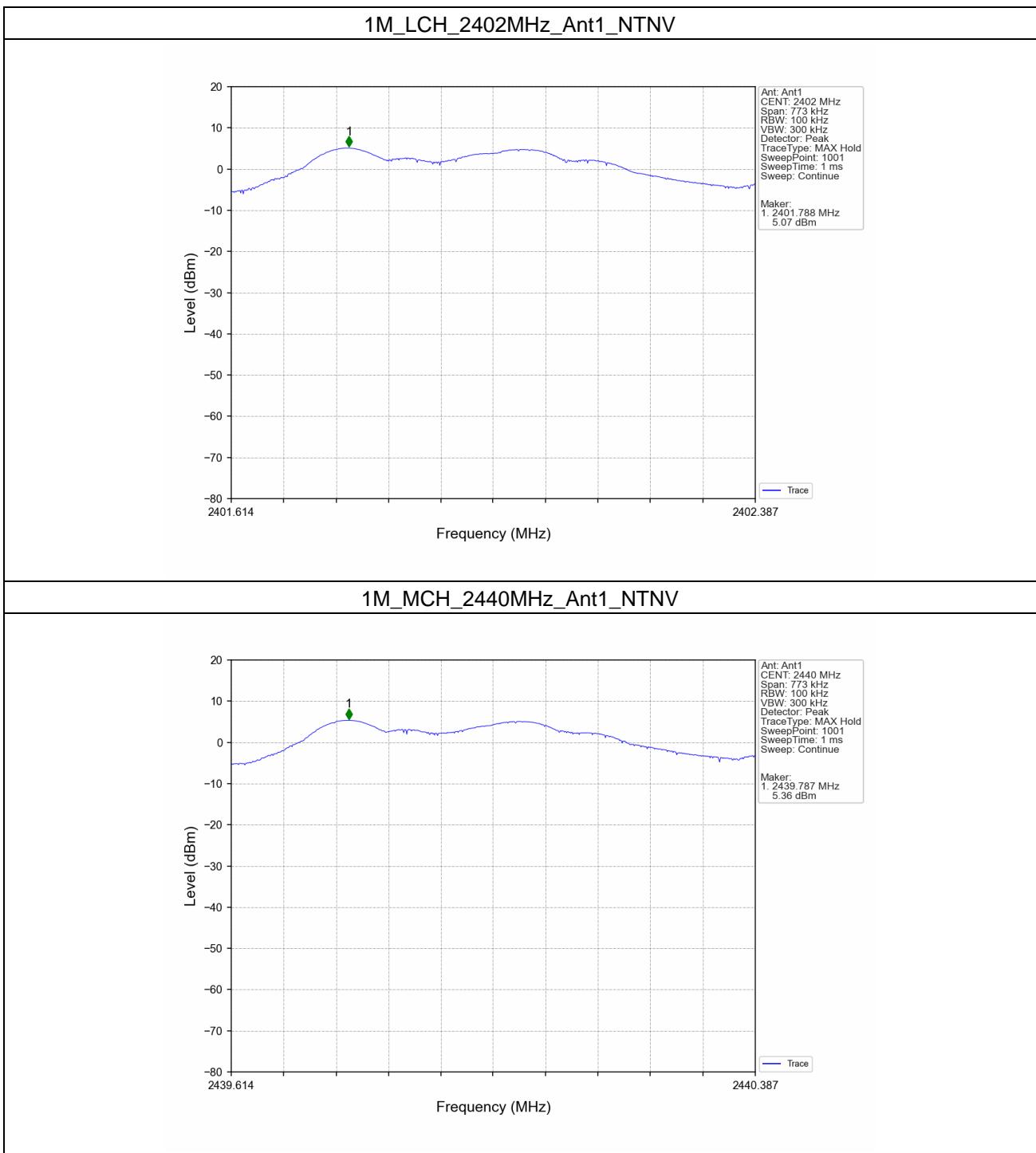
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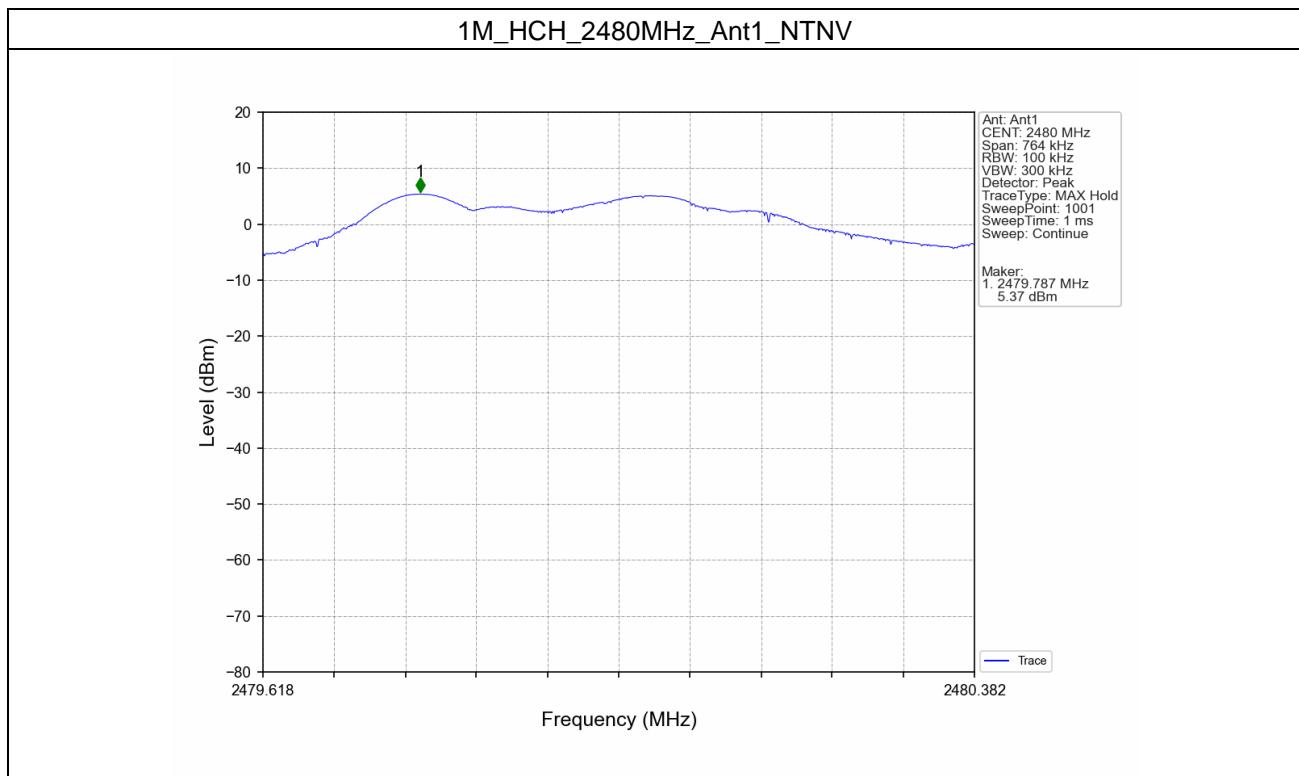
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5.2 Test Graph

5.2.1 Ref

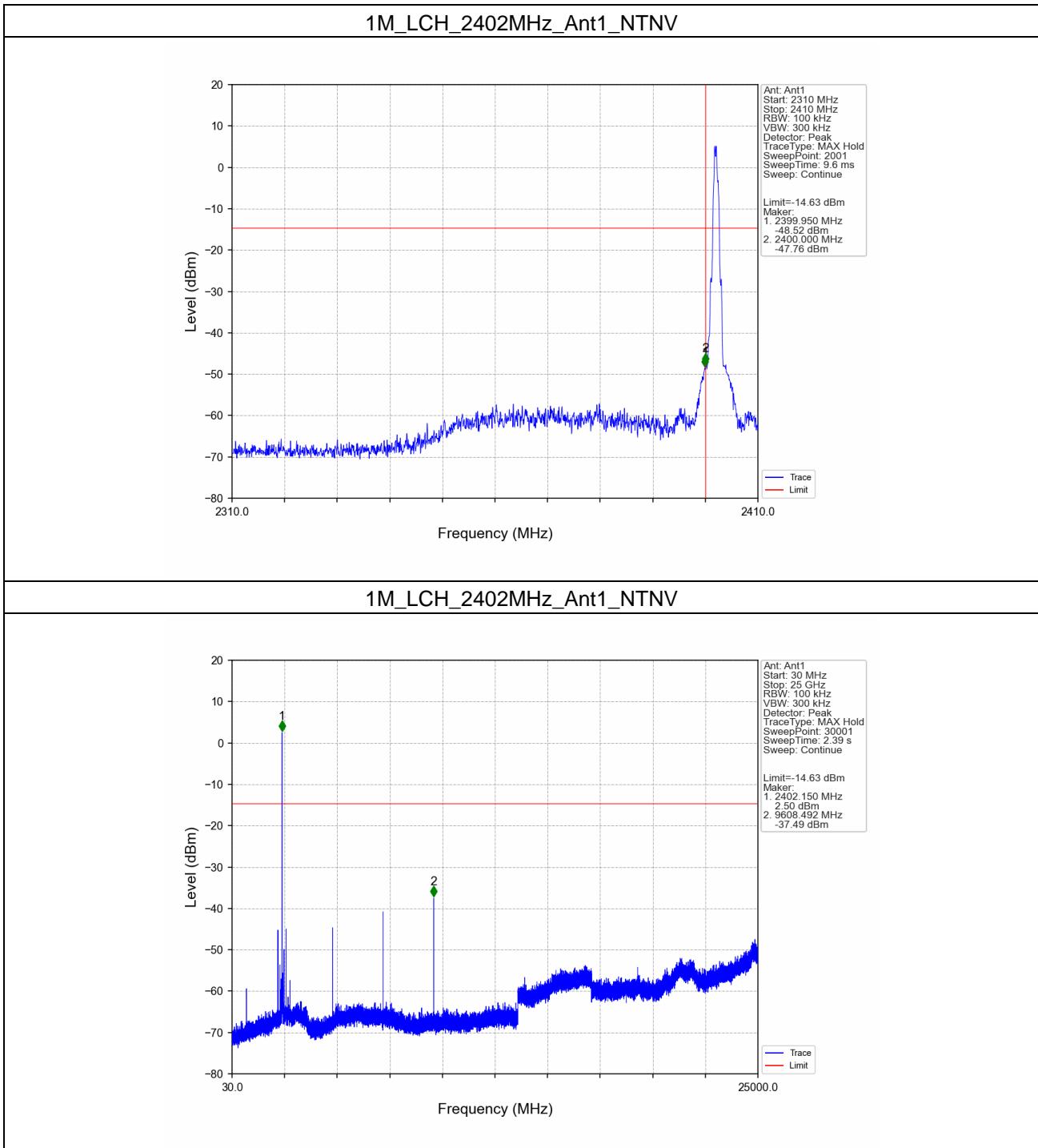


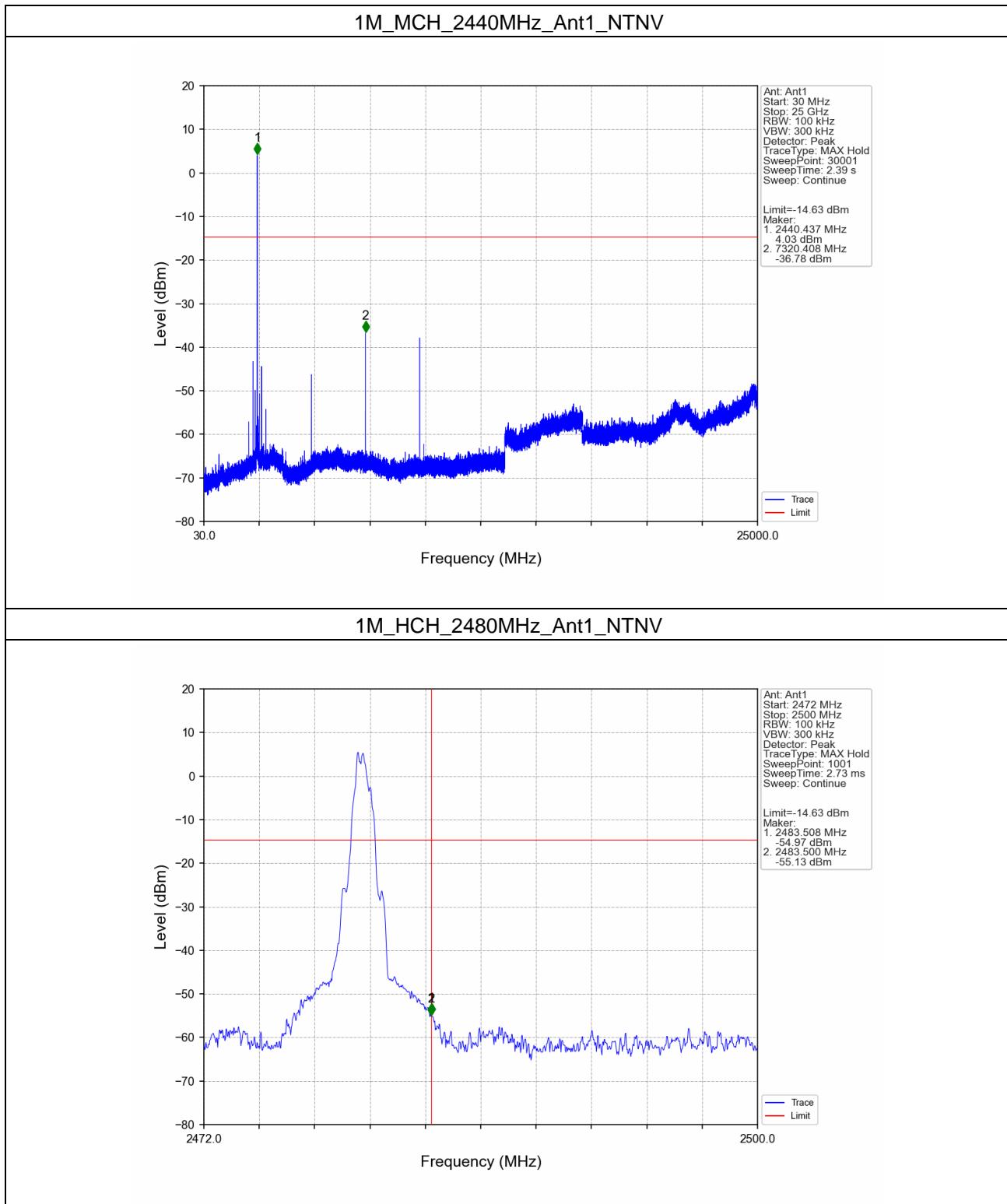


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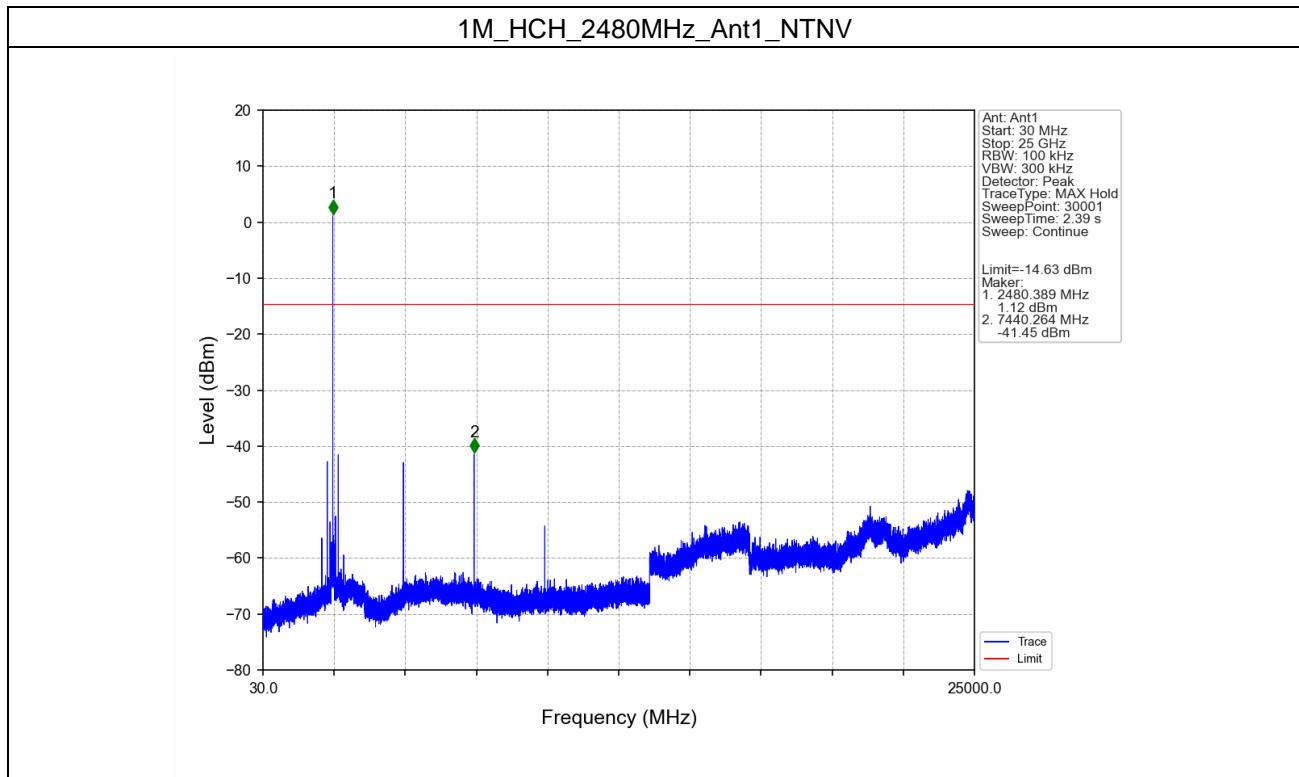
5.2.2 CSE



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- End of the Report -



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