TEST REPORT

Application No.:	SZCR2511005277AT
Applicant:	Razer Inc.
Address of Applicant:	9 Pasteur, Irvine, California 92618 United States
Manufacturer:	Razer (Asia-Pacific) Pte. Ltd.
Address of Manufacturer:	Razer SEA HQ, 1 one-north Crescent, #02-01, 138538, Singapore
Factory:	RAZER TECHNOLOGY AND DEVELOPMENT (SHENZHEN) CO. LTD.
Address of Factory:	East Wing, 3rd Floor, Block 2, Phase 1 of Vision Shenzhen Business Park Keji South Road, Hi-Tech Industrial Park, Shenzhen 518057, China
Equipment Under Test (EUT):	
EUT Name:	Wireless Earphones
Model No.:	562
Trade Mark:	RAZER
FCC ID:	RWO-562
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2025-11-28
Date of Test:	2025-12-21 to 2026-01-04
Date of Issue:	2026-01-04
Test Result:	**Pass***

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

Keny Xu
EMC Laboratory Manager

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2026-01-04		Original

Authorized for issue by:				
		Charlie Dai		
		Charlie Dai/Project Engineer		
		Eric Fu		
		Eric Fu/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**
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Peak Output Power		ANSI C63.10 (2020) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2020) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2020) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2020) Section 6.10.4	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2020) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass

3 Contents

4 General Information

4.1 Details of E.U.T.

Power supply:	Battery: Left earbud: Li-Ion Polymer Battery 3.85V 80mAh model: 1254W6 (Charged by wireless charging case) Right earbud: Li-Ion Polymer Battery 3.85V 80mAh model: 1254W6 (Charged by wireless charging case)
Cable(s):	N/A
For Earbuds:	
Technology Type:	BLE
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Data Rate:	1Mbps, 2Mbps
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PIFA Antenna
Antenna Gain:	Left earbud: -2.6dBi; Right earbud: -2.7dBi
Cable Loss (for RF conducted test):	0.7dB

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.
--	--	--	--
The EUT has been tested as an independent unit.			

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	± 0.4dB
Minimum 6dB Bandwidth	± 0.3%
Power Spectrum Density	± 0.4dB
Conducted Band Edges Measurement	± 2.7dB
Conducted Spurious Emissions	± 2.7dB

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.

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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

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

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	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-22	2027-07-21
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20

Radiated Spurious Emissions Below 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2025-03-21	2026-03-20
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2025-07-25	2026-07-24
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2025-08-29	2027-08-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2025-03-04	2026-03-03
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2025-07-05	2026-07-04

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	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-	N/A	N/A	N/A

		27			
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-22	2027-07-21
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20

RF Conducted Test					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02

General used equipment					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02

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 are Left earbud: -2.6dBi; Right earbud: -2.7dBi.

Antenna location: Refer to internal photos

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 (2020) Section 6.10.5
Measurement Distance: 3m
Test Engineer: Logic Wang

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.		

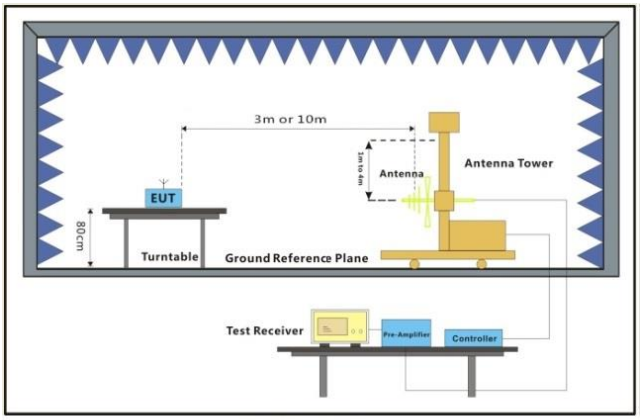
7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

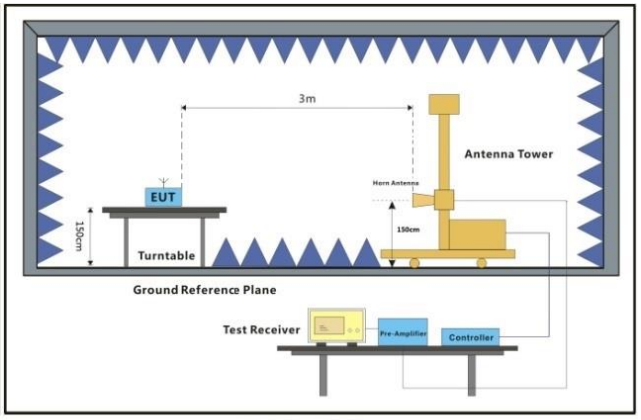
7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(Left earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(Right earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	08	TX mode(Left earbud 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	09	TX mode(Right earbud 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.1.3 Test Setup Diagram



30MHz-1GHz



Above 1GHz

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.

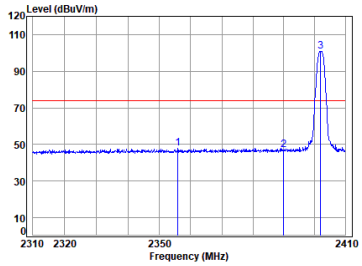
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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 $\geqslant$1/T (Duty cycle$<$98%) or 10Hz (Duty cycle$\geqslant$98%) for Average detection (AV) at frequency above 1GHz.

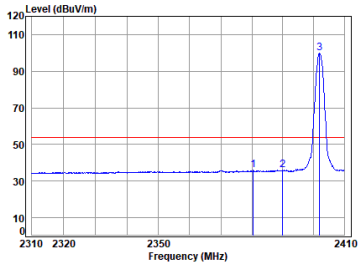
Left BLE_1M_TX_CH_00_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2355.973	16.08	29.10	32.80	35.52	47.90	74.00	-26.10	Peak
2	2390.000	16.13	29.10	32.78	34.51	46.96	74.00	-27.04	Peak
3 p	2402.000	16.15	29.09	32.77	88.32	100.79	74.00	26.79	Peak

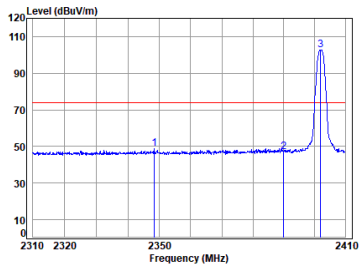
Left BLE_1M_TX_CH_00_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2380.461	16.12	29.10	32.79	23.54	35.97	54.00	-18.03	Average
2	2390.000	16.13	29.10	32.78	23.45	35.90	54.00	-18.10	Average
3 q	2402.000	16.15	29.09	32.77	87.54	100.01	54.00	46.01	Average

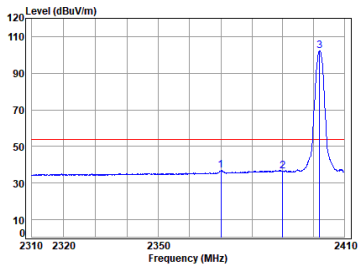
Left BLE_1M_TX_CH_00_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2348.397	16.07	29.08	32.80	36.58	48.93	74.00	-25.07	Peak
2	2390.000	16.13	29.10	32.78	34.36	46.81	74.00	-27.19	Peak
3 p	2402.000	16.15	29.09	32.77	90.28	102.75	74.00	28.75	Peak

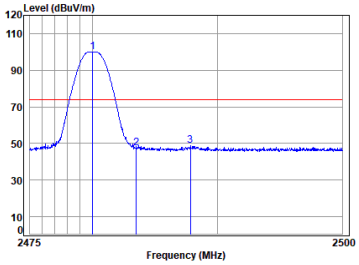
Left BLE_1M_TX_CH_00_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2370.093	16.10	29.10	32.79	24.77	37.18	54.00	-16.82	Average
2	2390.000	16.13	29.10	32.78	24.11	36.56	54.00	-17.44	Average
3 q	2402.000	16.15	29.09	32.77	89.82	102.29	54.00	48.29	Average

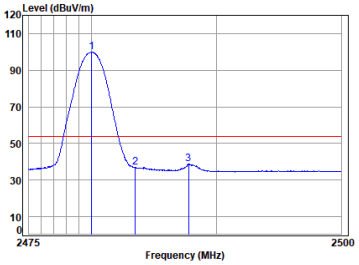
Left BLE_1M_TX_CH_39_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 Band edge
: 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	p 2480.000	16.27	28.90	32.73	87.65	100.09	74.00	26.09	Peak
2	2483.500	16.28	28.90	32.73	34.94	47.39	74.00	-26.61	Peak
3	2487.819	16.28	28.90	32.73	36.15	48.60	74.00	-25.40	Peak

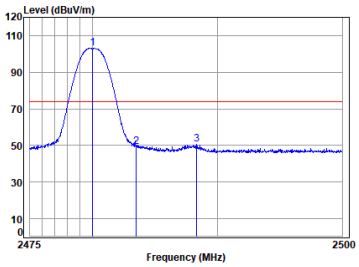
Left BLE_1M_TX_CH_39_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 Band edge
: 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	q 2480.000	16.27	28.90	32.73	87.38	99.82	54.00	45.82	Average
2	2483.500	16.28	28.90	32.73	24.56	37.01	54.00	-16.99	Average
3	2487.744	16.28	28.90	32.73	26.35	38.80	54.00	-15.20	Average

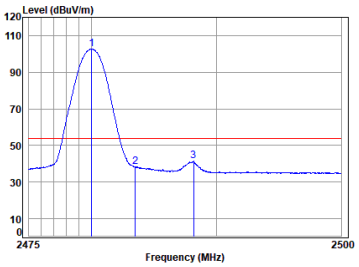
Left BLE_1M_TX_CH_39_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 Band edge
: 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	p 2480.000	16.27	28.90	32.73	90.51	102.95	74.00	28.95	Peak
2	2483.500	16.28	28.90	32.73	36.96	49.41	74.00	-24.59	Peak
3	2488.319	16.28	28.90	32.73	38.21	50.66	74.00	-23.34	Peak

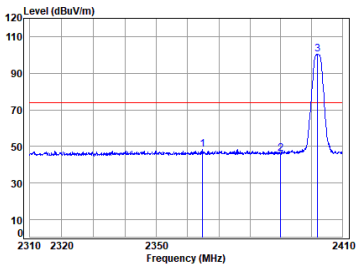
Left BLE_1M_TX_CH_39_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 Band edge
: 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	q 2480.000	16.27	28.90	32.73	90.14	102.58	54.00	48.58	Average
2	2483.500	16.28	28.90	32.73	25.94	38.39	54.00	-15.61	Average
3	2488.144	16.28	28.90	32.73	28.87	41.32	54.00	-12.68	Average

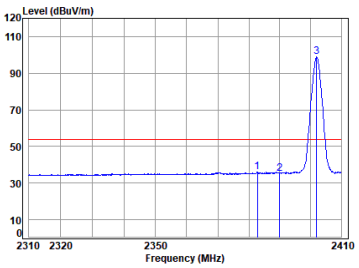
Left BLE_2M_TX_CH_00_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2364.776	16.10	29.10	32.79	36.16	48.57	74.00	-25.43	Peak
2	2390.000	16.13	29.10	32.78	33.47	45.92	74.00	-28.08	Peak
3 p	2402.000	16.15	29.09	32.77	87.95	100.42	74.00	26.42	Peak

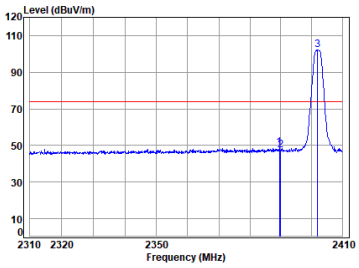
Left BLE_2M_TX_CH_00_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2382.783	16.12	29.10	32.78	23.58	36.02	54.00	-17.98	Average
2	2390.000	16.13	29.10	32.78	22.87	35.32	54.00	-18.68	Average
3 q	2402.000	16.15	29.09	32.77	86.35	98.82	54.00	44.82	Average

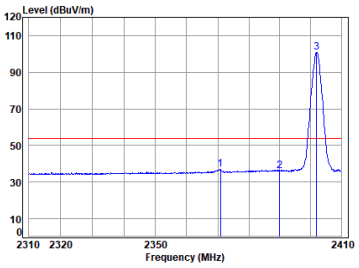
Left BLE_2M_TX_CH_00_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2389.558	16.13	29.10	32.78	36.42	48.87	74.00	-25.13	Peak
2	2390.000	16.13	29.10	32.78	35.01	47.46	74.00	-26.54	Peak
3 p	2402.000	16.15	29.09	32.77	89.83	102.30	74.00	28.30	Peak

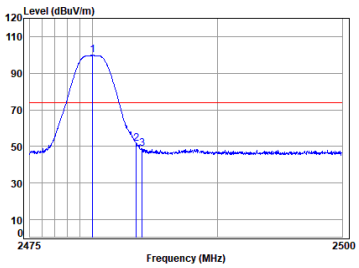
Left BLE_2M_TX_CH_00_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2370.797	16.10	29.10	32.79	24.66	37.07	54.00	-16.93	Average
2	2390.000	16.13	29.10	32.78	23.54	35.99	54.00	-18.01	Average
3 q	2402.000	16.15	29.09	32.77	88.57	101.04	54.00	47.04	Average

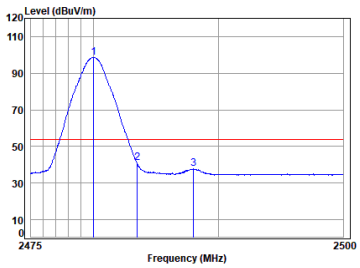
Left BLE_2M_TX_CH_39_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 Band edge
: 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 p	2480.000	16.27	28.90	32.73	87.28	99.72	74.00	25.72	Peak
2	2483.500	16.28	28.90	32.73	39.23	51.68	74.00	-22.32	Peak
3	2483.971	16.28	28.90	32.73	36.45	48.90	74.00	-25.10	Peak

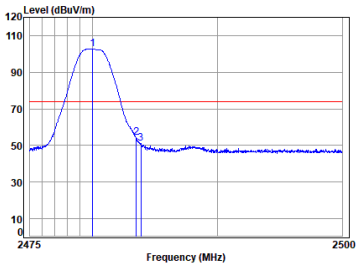
Left BLE_2M_TX_CH_39_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 Band edge
: 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 q	2480.000	16.27	28.90	32.73	86.22	98.66	54.00	44.66	Average
2	2483.500	16.28	28.90	32.73	28.41	40.86	54.00	-13.14	Average
3	2487.994	16.28	28.90	32.73	25.35	37.80	54.00	-16.20	Average

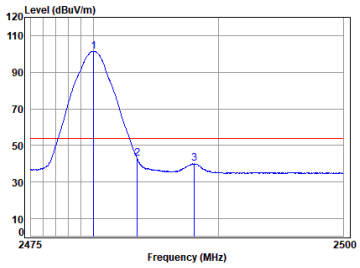
Left BLE_2M_TX_CH_39_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 Band edge
: 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 p	2480.000	16.27	28.90	32.73	90.27	102.71	74.00	28.71	Peak
2	2483.500	16.28	28.90	32.73	41.91	54.36	74.00	-19.64	Peak
3	2483.846	16.28	28.90	32.73	38.65	51.10	74.00	-22.90	Peak

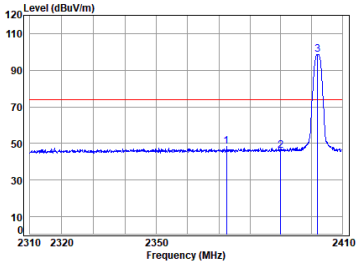
Left BLE_2M_TX_CH_39_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 Band edge
: 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 q	2480.000	16.27	28.90	32.73	89.07	101.51	54.00	47.51	Average
2	2483.500	16.28	28.90	32.73	30.50	42.95	54.00	-11.05	Average
3	2488.044	16.28	28.90	32.73	27.55	40.00	54.00	-14.00	Average

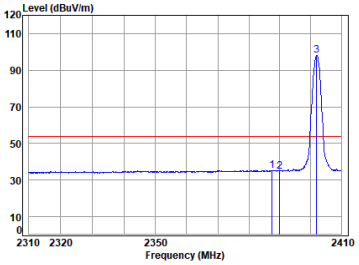
Right BLE_1M_TX_CH_00_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2372.505	16.11	29.10	32.79	35.88	48.30	74.00	-25.70	Peak
2	2390.000	16.13	29.10	32.78	33.63	46.08	74.00	-27.92	Peak
3 p	2402.000	16.15	29.09	32.77	86.27	98.74	74.00	24.74	Peak

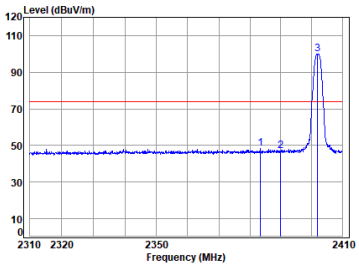
Right BLE_1M_TX_CH_00_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2387.534	16.13	29.10	32.78	22.86	35.31	54.00	-18.69	Average
2	2390.000	16.13	29.10	32.78	22.39	34.84	54.00	-19.16	Average
3 q	2402.000	16.15	29.09	32.77	85.50	97.97	54.00	43.97	Average

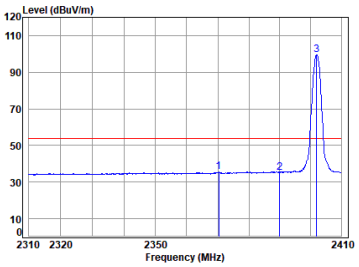
Right BLE_1M_TX_CH_00_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2383.389	16.12	29.10	32.78	35.85	48.29	74.00	-25.71	Peak
2	2390.000	16.13	29.10	32.78	34.42	46.87	74.00	-27.13	Peak
3 p	2402.000	16.15	29.09	32.77	87.58	100.05	74.00	26.05	Peak

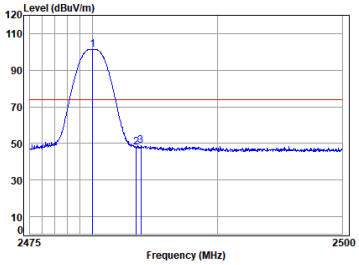
Right BLE_1M_TX_CH_00_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2370.294	16.10	29.10	32.79	23.37	35.78	54.00	-18.22	Average
2	2390.000	16.13	29.10	32.78	22.85	35.30	54.00	-18.70	Average
3 q	2402.000	16.15	29.09	32.77	87.00	99.47	54.00	45.47	Average

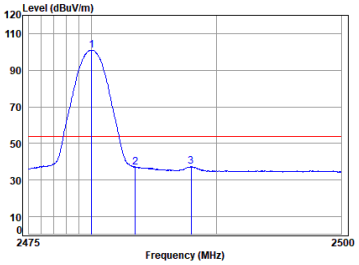
Right BLE_1M_TX_CH_39_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 Band edge
: BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	p 2480.000	16.27	28.90	32.73	88.95	101.39	74.00	27.39	Peak
2	2483.500	16.28	28.90	32.73	35.64	48.09	74.00	-25.91	Peak
3	2483.846	16.28	28.90	32.73	36.50	48.95	74.00	-25.05	Peak

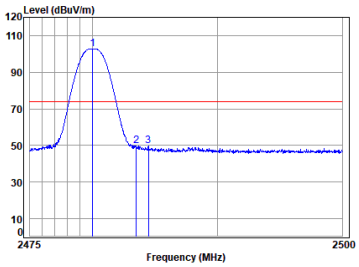
Right BLE_1M_TX_CH_39_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 Band edge
: BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q 2480.000	16.27	28.90	32.73	88.58	101.02	54.00	47.02	Average
2	2483.500	16.28	28.90	32.73	24.63	37.08	54.00	-16.92	Average
3	2487.944	16.28	28.90	32.73	24.85	37.30	54.00	-16.70	Average

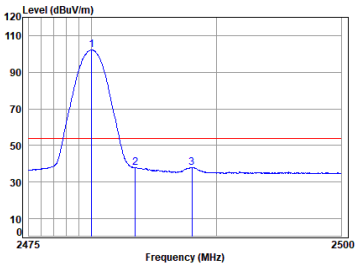
Right BLE_1M_TX_CH_39_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 Band edge
: BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	p 2480.000	16.27	28.90	32.73	90.27	102.71	74.00	28.71	Peak
2	2483.500	16.28	28.90	32.73	37.47	49.92	74.00	-24.08	Peak
3	2484.470	16.28	28.90	32.73	37.38	49.83	74.00	-24.17	Peak

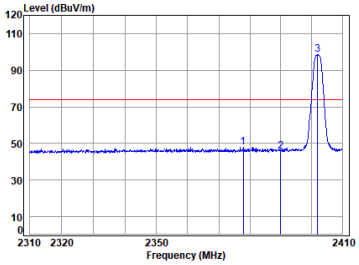
Right BLE_1M_TX_CH_39_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 Band edge
: BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q 2480.000	16.27	28.90	32.73	89.61	102.05	54.00	48.05	Average
2	2483.500	16.28	28.90	32.73	25.26	37.71	54.00	-16.29	Average
3	2488.019	16.28	28.90	32.73	25.60	38.05	54.00	-15.95	Average

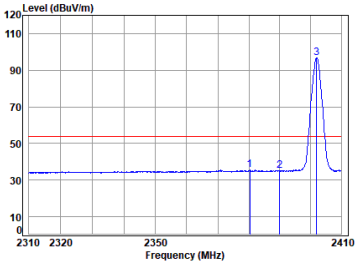
Right BLE_2M_TX_CH_00_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2377.941	16.12	29.10	32.79	35.69	48.12	74.00	-25.88	Peak
2	2390.000	16.13	29.10	32.78	33.23	45.68	74.00	-28.32	Peak
3 p	2402.000	16.15	29.09	32.77	85.88	98.35	74.00	24.35	Peak

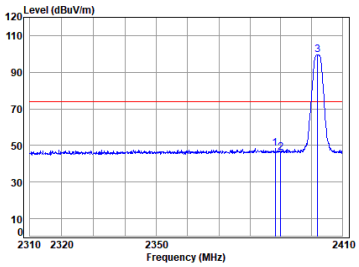
Right BLE_2M_TX_CH_00_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2380.260	16.12	29.10	32.79	23.21	35.64	54.00	-18.36	Average
2	2390.000	16.13	29.10	32.78	22.63	35.08	54.00	-18.92	Average
3 q	2402.000	16.15	29.09	32.77	84.31	96.78	54.00	42.78	Average

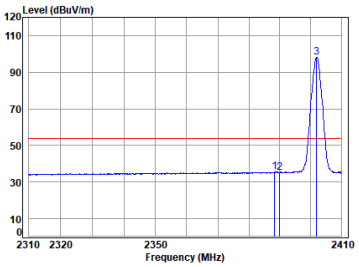
Right BLE_2M_TX_CH_00_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2388.242	16.13	29.10	32.78	35.96	48.41	74.00	-25.59	Peak
2	2390.000	16.13	29.10	32.78	33.63	46.08	74.00	-27.92	Peak
3 p	2402.000	16.15	29.09	32.77	87.16	99.63	74.00	25.63	Peak

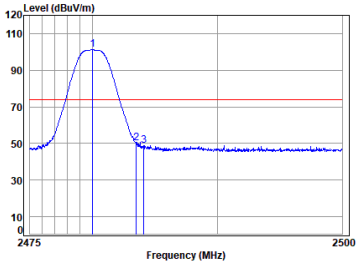
Right BLE_2M_TX_CH_00_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2402 Band edge
: 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	2388.343	16.13	29.10	32.78	23.11	35.56	54.00	-18.44	Average
2	2390.000	16.13	29.10	32.78	22.64	35.09	54.00	-18.91	Average
3 q	2402.000	16.15	29.09	32.77	85.72	98.19	54.00	44.19	Average

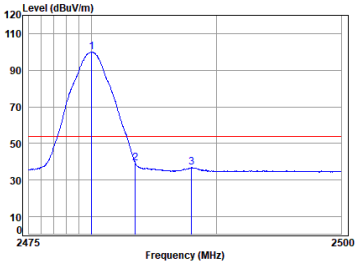
Right BLE_2M_TX_CH_39_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 Band edge
: 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 p	2480.000	16.27	28.90	32.73	88.73	101.17	74.00	27.17	Peak
2	2483.500	16.28	28.90	32.73	37.96	50.41	74.00	-23.59	Peak
3	2484.096	16.28	28.90	32.73	36.38	48.83	74.00	-25.17	Peak

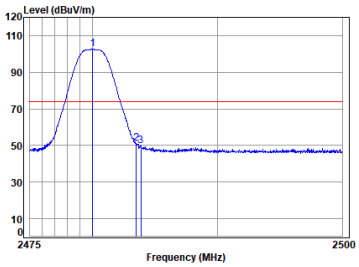
Right BLE_2M_TX_CH_39_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 Band edge
: 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 q	2480.000	16.27	28.90	32.73	87.42	99.86	54.00	45.86	Average
2	2483.500	16.28	28.90	32.73	26.88	39.33	54.00	-14.67	Average
3	2487.994	16.28	28.90	32.73	24.48	36.93	54.00	-17.07	Average

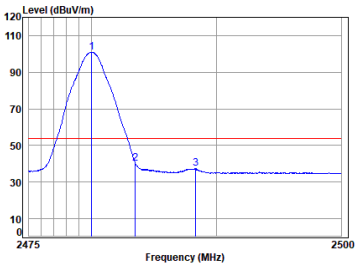
Right BLE_2M_TX_CH_39_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 Band edge
: 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 p	2480.000	16.27	28.90	32.73	90.06	102.50	74.00	28.50	Peak
2	2483.500	16.28	28.90	32.73	38.61	51.06	74.00	-22.94	Peak
3	2483.871	16.28	28.90	32.73	37.20	49.65	74.00	-24.35	Peak

Right BLE_2M_TX_CH_39_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 Band edge
: 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 q	2480.000	16.27	28.90	32.73	88.44	100.88	54.00	46.88	Average
2	2483.500	16.28	28.90	32.73	27.62	40.07	54.00	-13.93	Average
3	2488.319	16.28	28.90	32.73	25.03	37.48	54.00	-16.52	Average

7.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2020) Section 6.4,6.5
Measurement Distance: 10m
Test Engineer: Ted Wu

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

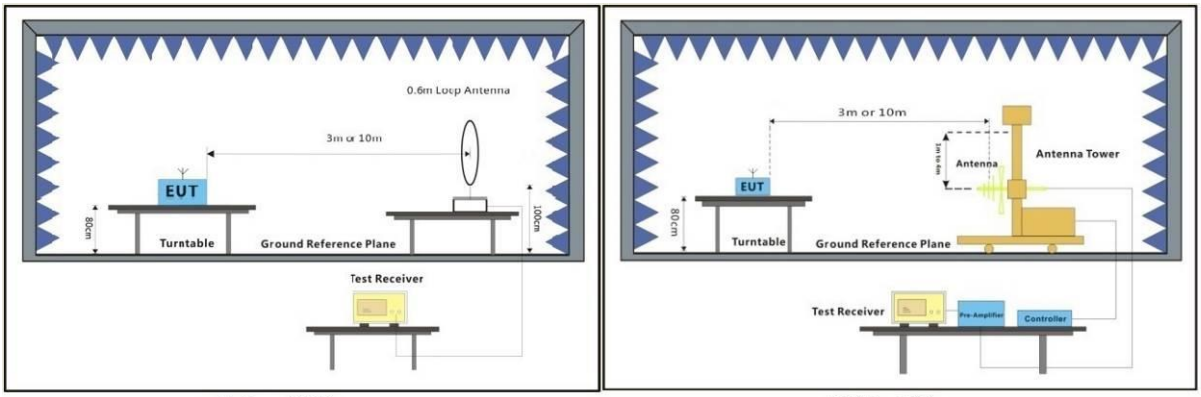
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 23.6 °C Humidity: 46.5 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(Left earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(Right earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	08	TX mode(Left earbud 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	09	TX mode(Right earbud 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



Below 30MHz　　30MHz-1GHz

7.2.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-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 quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

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

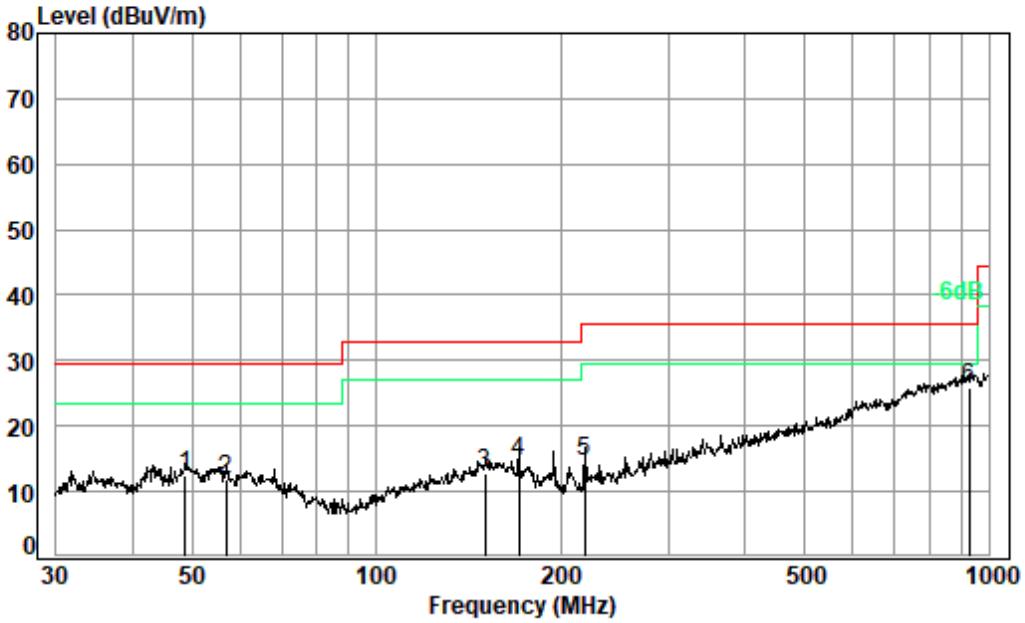
i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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

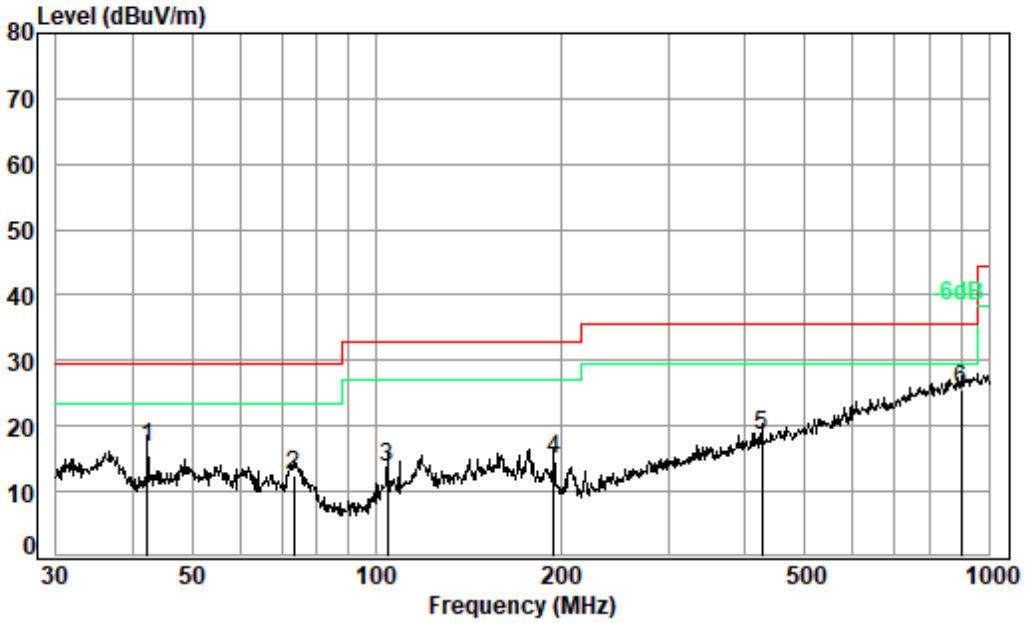
Test Mode: 06; Polarity: Horizontal



Condition: 10m HORIZONTAL
Job No. : 05277AT
Test Mode: 06

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	48.843	26.47	18.06	0.25	32.40	12.38	29.50	-17.12	QP
2	56.792	26.40	17.74	0.20	32.43	11.91	29.50	-17.59	QP
3	150.538	26.86	17.76	0.64	32.50	12.76	33.00	-20.24	QP
4	170.793	29.49	17.01	0.60	32.50	14.60	33.00	-18.40	QP
5	219.075	32.24	14.28	0.70	32.50	14.72	35.60	-20.88	QP
6 pp	929.008	27.16	27.89	2.71	31.85	25.91	35.60	-9.69	QP

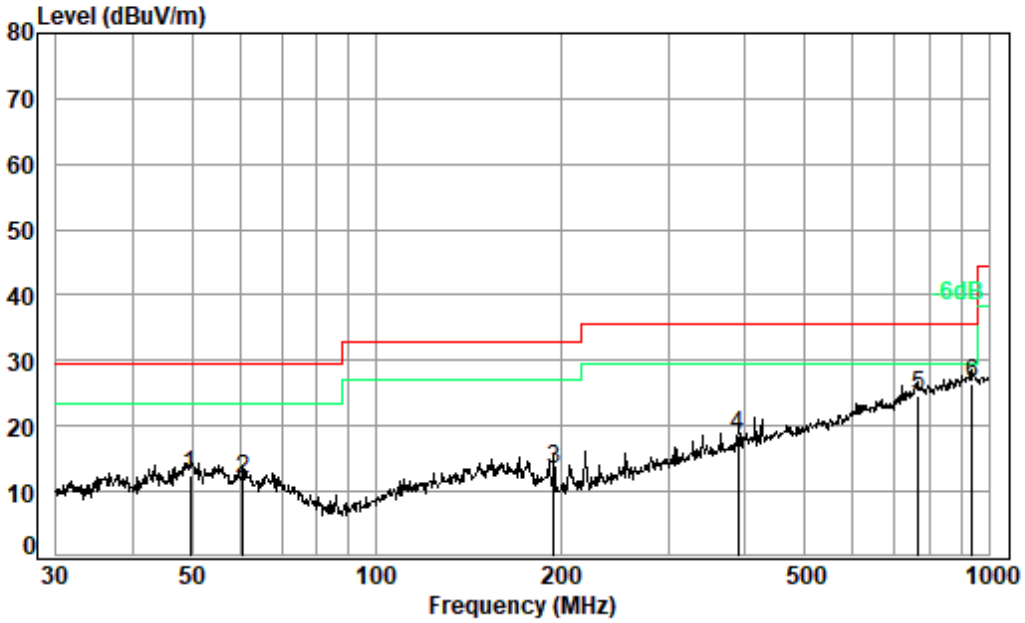
Test Mode: 06; Polarity: Vertical



Condition: 10m VERTICAL
Job No. : 05277AT
Test Mode: 06

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	42.302	31.77	17.11	0.16	32.40	16.64	29.50	-12.86	QP
2	73.359	29.59	15.01	0.38	32.48	12.50	29.50	-17.00	QP
3	104.170	31.71	13.78	0.74	32.50	13.73	33.00	-19.27	QP
4	195.137	32.42	14.35	0.57	32.50	14.84	33.00	-18.16	QP
5	426.521	28.87	20.47	1.56	32.46	18.44	35.60	-17.16	QP
6 pp	900.147	27.61	27.35	2.65	32.00	25.61	35.60	-9.99	QP

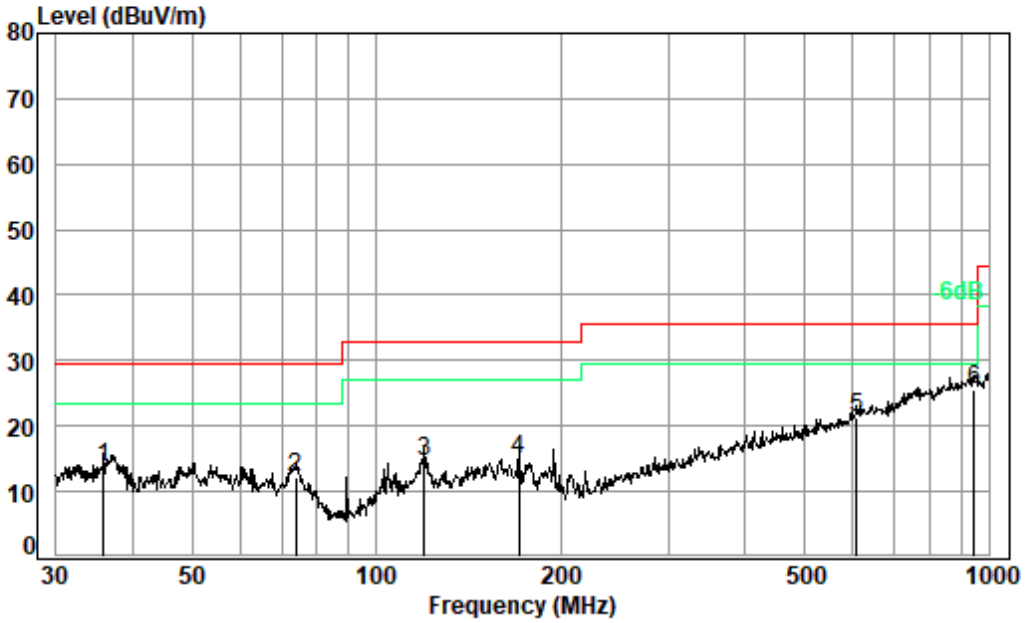
Test Mode: 07; Polarity: Horizontal



Condition: 10m HORIZONTAL
Job No. : 05277AT
Test Mode: 07

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	49.707	26.47	18.17	0.26	32.40	12.50	29.50	-17.00	QP
2	60.704	26.93	17.19	0.18	32.44	11.86	29.50	-17.64	QP
3	195.137	31.05	14.35	0.57	32.50	13.47	33.00	-19.53	QP
4	389.355	29.91	19.57	1.44	32.41	18.51	35.60	-17.09	QP
5	766.057	28.40	26.40	2.47	32.50	24.77	35.60	-10.83	QP
6 pp	938.833	27.66	27.94	2.73	31.80	26.53	35.60	-9.07	QP

Test Mode: 07; Polarity: Vertical



Condition: 10m VERTICAL
Job No. : 05277AT
Test Mode: 07

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	35.875	29.49	16.63	0.12	32.40	13.84	29.50	-15.66	QP
2	73.876	29.43	14.86	0.39	32.48	12.20	29.50	-17.30	QP
3	119.856	30.99	15.42	0.70	32.50	14.61	33.00	-18.39	QP
4	170.793	29.81	17.01	0.60	32.50	14.92	33.00	-18.08	QP
5	607.787	27.64	24.14	2.08	32.70	21.16	35.60	-14.44	QP
6 pp	945.440	26.73	27.92	2.75	31.77	25.63	35.60	-9.97	QP

7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2020) Section 6.6
Measurement Distance: 3m
Test Engineer: Logic Wang

Limit:

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

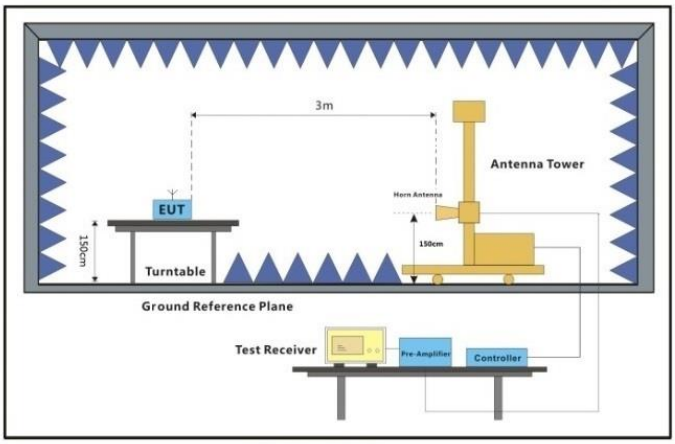
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(Left earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(Right earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	08	TX mode(Left earbud 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	09	TX mode(Right earbud 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



Above 1GHz

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 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

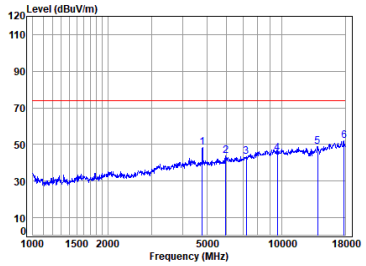
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit 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 ⩾1/T (Duty cycle＜98%) or 10Hz (Duty cycle⩾98%) for Average detection (AV) at frequency above 1GHz.

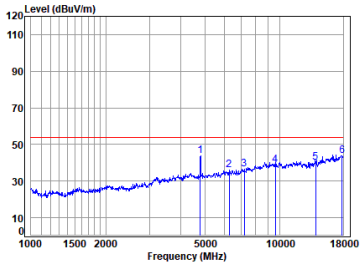
Left BLE_1M_TX_CH_00_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	60.75	48.26	74.00	-25.74	Peak
2	5949.811	8.86	34.70	53.15	53.42	43.83	74.00	-30.17	Peak
3	7206.000	8.50	35.70	53.18	52.13	43.15	74.00	-30.85	Peak
4	9608.000	10.74	37.42	53.35	50.24	45.05	74.00	-28.95	Peak
5	13957.530	10.97	39.62	52.91	51.06	48.74	74.00	-25.26	Peak
6	p17793.090	11.38	43.89	52.50	49.28	52.05	74.00	-21.95	Peak

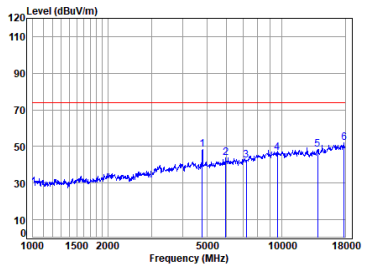
Left BLE_1M_TX_CH_00_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	56.18	43.69	54.00	-10.31	Average
2	6267.553	8.90	34.94	53.13	45.39	36.10	54.00	-17.90	Average
3	7206.000	8.50	35.70	53.18	45.34	36.36	54.00	-17.64	Average
4	9608.000	10.74	37.42	53.35	43.81	38.62	54.00	-15.38	Average
5	13957.530	10.97	39.62	52.91	42.52	40.20	54.00	-13.80	Average
6	q17844.590	11.41	43.90	52.48	41.20	44.03	54.00	-9.97	Average

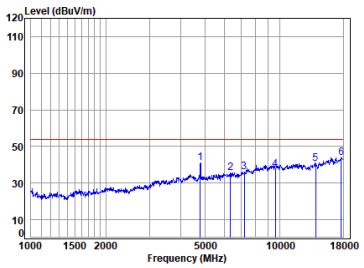
Left BLE_1M_TX_CH_00_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	61.08	48.59	74.00	-25.41	Peak
2	5949.811	8.86	34.70	53.15	53.59	44.00	74.00	-30.00	Peak
3	7206.000	8.50	35.70	53.18	51.61	42.63	74.00	-31.37	Peak
4	9608.000	10.74	37.42	53.35	51.88	46.69	74.00	-27.31	Peak
5	13957.530	10.97	39.62	52.91	50.73	48.41	74.00	-25.59	Peak
6	p17793.090	11.38	43.89	52.50	49.44	52.21	74.00	-21.79	Peak

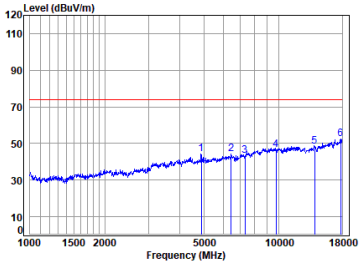
Left BLE_1M_TX_CH_00_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	53.76	41.27	54.00	-12.73	Average
2	6340.436	8.90	34.92	53.14	45.08	35.76	54.00	-18.24	Average
3	7206.000	8.50	35.70	53.18	44.89	35.91	54.00	-18.09	Average
4	9608.000	10.74	37.42	53.35	42.77	37.58	54.00	-16.42	Average
5	13957.530	10.97	39.62	52.91	42.84	40.52	54.00	-13.48	Average
6	q17690.530	11.32	43.78	52.55	41.38	43.93	54.00	-10.07	Average

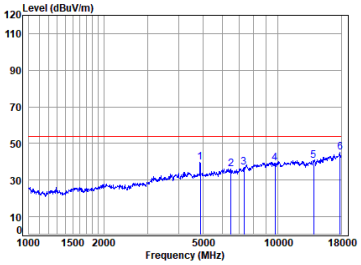
Left BLE_1M_TX_CH_19_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	56.26	44.14	74.00	-29.86	Peak
2	6451.353	8.88	35.50	53.15	53.03	44.26	74.00	-29.74	Peak
3	7320.000	8.46	35.70	53.17	52.33	43.32	74.00	-30.68	Peak
4	9760.000	10.69	37.38	53.29	51.97	46.75	74.00	-27.25	Peak
5	13957.530	10.97	39.62	52.91	50.69	48.37	74.00	-25.63	Peak
6	p17741.740	11.35	43.84	52.53	49.76	52.42	74.00	-21.58	Peak

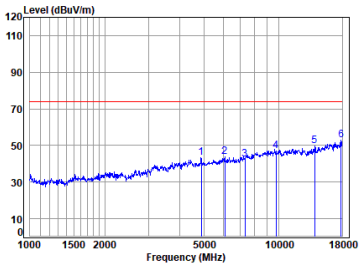
Left BLE_1M_TX_CH_19_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	51.89	39.77	54.00	-14.23	Average
2	6488.754	8.88	35.58	53.15	44.89	36.20	54.00	-17.80	Average
3	7320.000	8.46	35.70	53.17	45.90	36.89	54.00	-17.11	Average
4	9760.000	10.69	37.38	53.29	44.53	39.31	54.00	-14.69	Average
5	13957.530	10.97	39.62	52.91	42.94	40.62	54.00	-13.38	Average
6	q17793.090	11.38	43.89	52.50	42.18	44.95	54.00	-9.05	Average

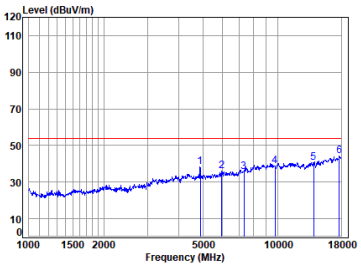
Left BLE_1M_TX_CH_19_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	55.68	43.56	74.00	-30.44	Peak
2	6071.417	8.92	35.04	53.11	52.91	43.76	74.00	-30.24	Peak
3	7320.000	8.46	35.70	53.17	51.67	42.66	74.00	-31.34	Peak
4	9760.000	10.69	37.38	53.29	52.10	46.88	74.00	-27.12	Peak
5	13957.530	10.97	39.62	52.91	52.24	49.92	74.00	-24.08	Peak
6	p17844.590	11.41	43.90	52.48	49.92	52.75	74.00	-21.25	Peak

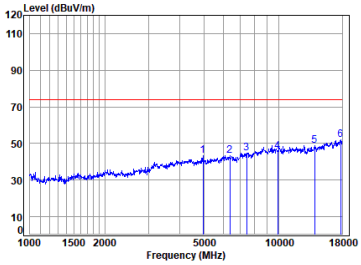
Left BLE_1M_TX_CH_19_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	50.59	38.47	54.00	-15.53	Average
2	5949.811	8.86	34.70	53.15	45.62	36.03	54.00	-17.97	Average
3	7320.000	8.46	35.70	53.17	44.60	35.59	54.00	-18.41	Average
4	9760.000	10.69	37.38	53.29	44.13	38.91	54.00	-15.09	Average
5	13957.530	10.97	39.62	52.91	42.90	40.58	54.00	-13.42	Average
6	q17690.530	11.32	43.78	52.55	41.88	44.43	54.00	-9.57	Average

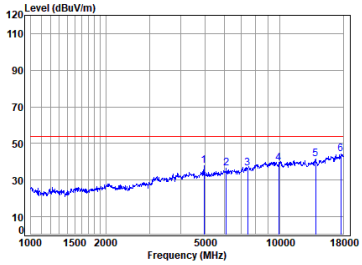
Left BLE_1M_TX_CH_39_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	55.52	43.41	74.00	-30.59	Peak
2	6358.789	8.89	34.95	53.14	52.65	43.35	74.00	-30.65	Peak
3	7440.000	8.43	35.96	53.15	53.67	44.91	74.00	-29.09	Peak
4	9920.000	10.64	37.30	53.23	51.04	45.75	74.00	-28.25	Peak
5	13957.530	10.97	39.62	52.91	51.03	48.71	74.00	-25.29	Peak
6	p17741.740	11.35	43.84	52.53	49.36	52.02	74.00	-21.98	Peak

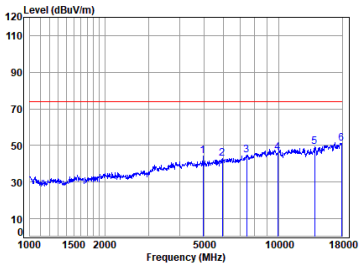
Left BLE_1M_TX_CH_39_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	49.96	37.85	54.00	-16.15	Average
2	6088.991	8.92	35.08	53.11	45.45	36.34	54.00	-17.66	Average
3	7440.000	8.43	35.96	53.15	45.33	36.57	54.00	-17.43	Average
4	9920.000	10.64	37.30	53.23	44.65	39.36	54.00	-14.64	Average
5	13957.530	10.97	39.62	52.91	43.74	41.42	54.00	-12.58	Average
6	q17639.470	11.28	43.68	52.58	41.98	44.36	54.00	-9.64	Average

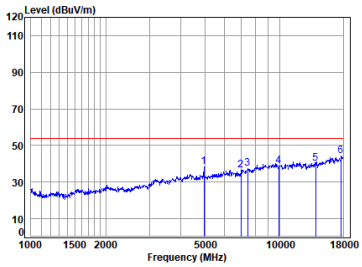
Left BLE_1M_TX_CH_39_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	56.21	44.10	74.00	-29.90	Peak
2	5932.638	8.83	34.67	53.17	52.70	43.03	74.00	-30.97	Peak
3	7440.000	8.43	35.96	53.15	53.54	44.78	74.00	-29.22	Peak
4	9920.000	10.64	37.30	53.23	51.36	46.07	74.00	-27.93	Peak
5	13957.530	10.97	39.62	52.91	51.48	49.16	74.00	-24.84	Peak
6	p17896.250	11.44	43.90	52.45	48.37	51.26	74.00	-22.74	Peak

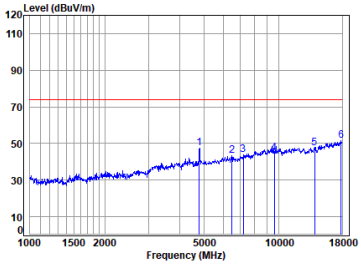
Left BLE_1M_TX_CH_39_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	50.47	38.36	54.00	-15.64	Average
2	6995.172	8.56	35.71	53.20	45.42	36.49	54.00	-17.51	Average
3	7440.000	8.43	35.96	53.15	46.38	37.62	54.00	-16.38	Average
4	9920.000	10.64	37.30	53.23	44.09	38.80	54.00	-15.20	Average
5	13957.530	10.97	39.62	52.91	42.57	40.25	54.00	-13.75	Average
6	q17639.470	11.28	43.68	52.58	41.98	44.36	54.00	-9.64	Average

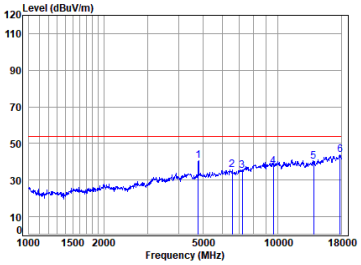
Left BLE_2M_TX_CH_00_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	60.05	47.56	74.00	-26.44	Peak
2	6488.754	8.88	35.58	53.15	51.95	43.26	74.00	-30.74	Peak
3	7206.000	8.50	35.70	53.18	52.70	43.72	74.00	-30.28	Peak
4	9608.000	10.74	37.42	53.35	50.08	44.89	74.00	-29.11	Peak
5	13957.530	10.97	39.62	52.91	49.90	47.58	74.00	-26.42	Peak
6	p17793.090	11.38	43.89	52.50	48.93	51.70	74.00	-22.30	Peak

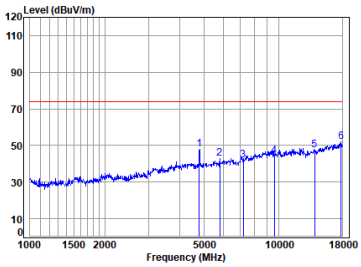
Left BLE_2M_TX_CH_00_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	53.18	40.69	54.00	-13.31	Average
2	6564.209	8.84	35.44	53.16	44.62	35.74	54.00	-18.26	Average
3	7206.000	8.50	35.70	53.18	44.14	35.16	54.00	-18.84	Average
4	9608.000	10.74	37.42	53.35	42.73	37.54	54.00	-16.46	Average
5	13957.530	10.97	39.62	52.91	42.56	40.24	54.00	-13.76	Average
6	q17793.090	11.38	43.89	52.50	40.96	43.73	54.00	-10.27	Average

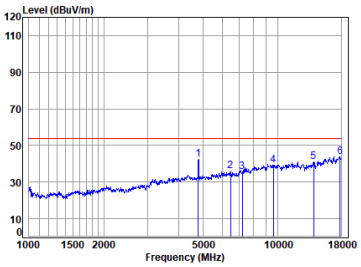
Left BLE_2M_TX_CH_00_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	60.60	48.11	74.00	-25.89	Peak
2	5797.032	8.63	34.29	53.31	53.34	42.95	74.00	-31.05	Peak
3	7206.000	8.50	35.70	53.18	50.99	42.01	74.00	-31.99	Peak
4	9608.000	10.74	37.42	53.35	49.46	44.27	74.00	-29.73	Peak
5	13957.530	10.97	39.62	52.91	49.55	47.23	74.00	-26.77	Peak
6	p17793.090	11.38	43.89	52.50	49.30	52.07	74.00	-21.93	Peak

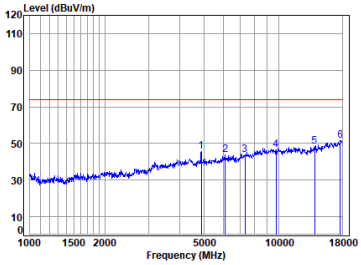
Left BLE_2M_TX_CH_00_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	55.01	42.52	54.00	-11.48	Average
2	6470.026	8.88	35.54	53.15	44.73	36.00	54.00	-18.00	Average
3	7206.000	8.50	35.70	53.18	44.59	35.61	54.00	-18.39	Average
4	9608.000	10.74	37.42	53.35	44.25	39.06	54.00	-14.94	Average
5	13957.530	10.97	39.62	52.91	43.31	40.99	54.00	-13.01	Average
6	q17793.090	11.38	43.89	52.50	41.13	43.90	54.00	-10.10	Average

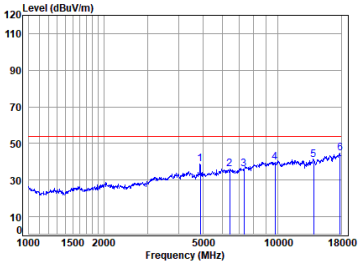
Left BLE_2M_TX_CH_19_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	57.82	45.70	74.00	-28.30	Peak
2	6088.991	8.92	35.08	53.11	52.75	43.64	74.00	-30.36	Peak
3	7320.000	8.46	35.70	53.17	52.59	43.58	74.00	-30.42	Peak
4	9760.000	10.69	37.38	53.29	51.58	46.36	74.00	-27.64	Peak
5	13957.530	10.97	39.62	52.91	50.76	48.44	74.00	-25.56	Peak
6	p17690.530	11.32	43.78	52.55	49.10	51.65	74.00	-22.35	Peak

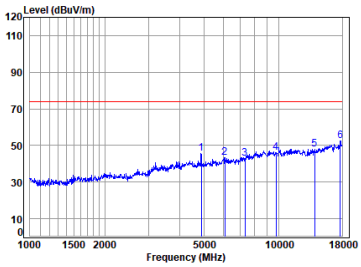
Left BLE_2M_TX_CH_19_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	50.97	38.85	54.00	-15.15	Average
2	6414.167	8.89	35.29	53.14	45.11	36.15	54.00	-17.85	Average
3	7320.000	8.46	35.70	53.17	45.02	36.01	54.00	-17.99	Average
4	9760.000	10.69	37.38	53.29	44.75	39.53	54.00	-14.47	Average
5	13957.530	10.97	39.62	52.91	43.40	41.08	54.00	-12.92	Average
6	q17793.090	11.38	43.89	52.50	41.78	44.55	54.00	-9.45	Average

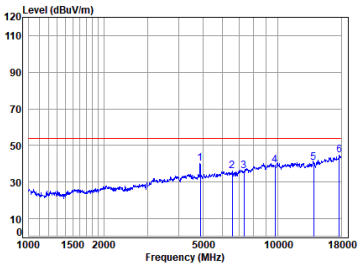
Left BLE_2M_TX_CH_19_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	57.93	45.81	74.00	-28.19	Peak
2	6071.417	8.92	35.04	53.11	52.68	43.53	74.00	-30.47	Peak
3	7320.000	8.46	35.70	53.17	52.02	43.01	74.00	-30.99	Peak
4	9760.000	10.69	37.38	53.29	51.33	46.11	74.00	-27.89	Peak
5	13957.530	10.97	39.62	52.91	50.44	48.12	74.00	-25.88	Peak
6	p17690.530	11.32	43.78	52.55	49.94	52.49	74.00	-21.51	Peak

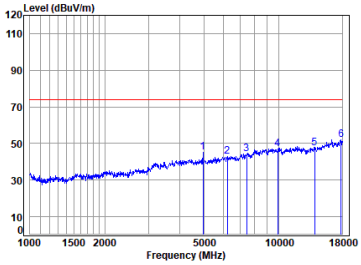
Left BLE_2M_TX_CH_19_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	52.48	40.36	54.00	-13.64	Average
2	6564.209	8.84	35.44	53.16	44.78	35.90	54.00	-18.10	Average
3	7320.000	8.46	35.70	53.17	45.01	36.00	54.00	-18.00	Average
4	9760.000	10.69	37.38	53.29	44.28	39.06	54.00	-14.94	Average
5	13957.530	10.97	39.62	52.91	42.94	40.62	54.00	-13.38	Average
6	q17690.530	11.32	43.78	52.55	42.21	44.76	54.00	-9.24	Average

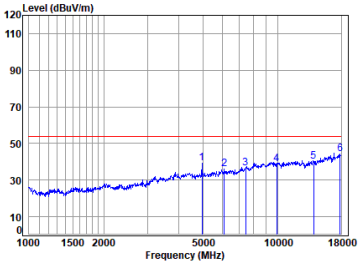
Left BLE_2M_TX_CH_39_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	57.06	44.95	74.00	-29.05	Peak
2	6213.441	8.91	34.75	53.12	52.55	43.09	74.00	-30.91	Peak
3	7440.000	8.43	35.96	53.15	53.23	44.47	74.00	-29.53	Peak
4	9920.000	10.64	37.30	53.23	52.24	46.95	74.00	-27.05	Peak
5	13957.530	10.97	39.62	52.91	49.79	47.47	74.00	-26.53	Peak
6	p17844.590	11.41	43.90	52.48	49.01	51.84	74.00	-22.16	Peak

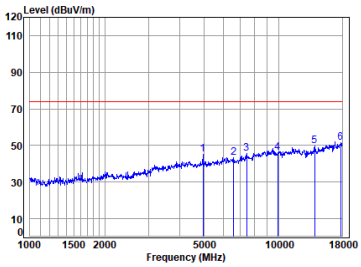
Left BLE_2M_TX_CH_39_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	51.46	39.35	54.00	-14.65	Average
2	6088.991	8.92	35.08	53.11	45.19	36.08	54.00	-17.92	Average
3	7440.000	8.43	35.96	53.15	45.39	36.63	54.00	-17.37	Average
4	9920.000	10.64	37.30	53.23	44.11	38.82	54.00	-15.18	Average
5	13957.530	10.97	39.62	52.91	42.62	40.30	54.00	-13.70	Average
6	q17793.090	11.38	43.89	52.50	41.65	44.42	54.00	-9.58	Average

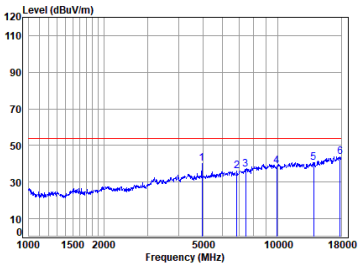
Left BLE_2M_TX_CH_39_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	57.34	45.23	74.00	-28.77	Peak
2	6583.209	8.83	35.37	53.16	52.17	43.21	74.00	-30.79	Peak
3	7440.000	8.43	35.96	53.15	54.29	45.53	74.00	-28.47	Peak
4	9920.000	10.64	37.30	53.23	51.40	46.11	74.00	-27.89	Peak
5	13957.530	10.97	39.62	52.91	51.89	49.57	74.00	-24.43	Peak
6	p17741.740	11.35	43.84	52.53	48.80	51.46	74.00	-22.54	Peak

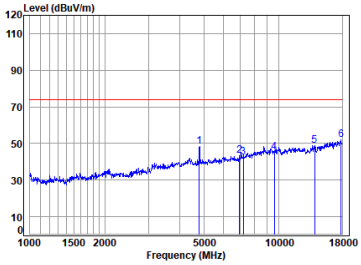
Left BLE_2M_TX_CH_39_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	52.19	40.08	54.00	-13.92	Average
2	6855.063	8.65	35.51	53.19	44.88	35.85	54.00	-18.15	Average
3	7440.000	8.43	35.96	53.15	45.61	36.85	54.00	-17.15	Average
4	9920.000	10.64	37.30	53.23	43.86	38.57	54.00	-15.43	Average
5	13957.530	10.97	39.62	52.91	43.08	40.76	54.00	-13.24	Average
6	q17793.090	11.38	43.89	52.50	41.15	43.92	54.00	-10.08	Average

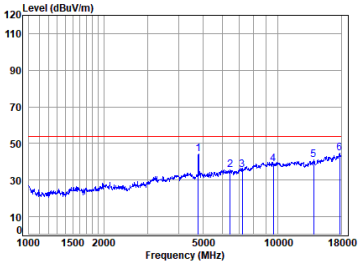
Right BLE_1M_TX_CH_00_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	61.08	48.59	74.00	-25.41	Peak
2	6954.852	8.59	35.79	53.20	52.17	43.35	74.00	-30.65	Peak
3	7206.000	8.50	35.70	53.18	51.34	42.36	74.00	-31.64	Peak
4	9608.000	10.74	37.42	53.35	50.34	45.15	74.00	-28.85	Peak
5	13957.530	10.97	39.62	52.91	51.09	48.77	74.00	-25.23	Peak
6	p17793.090	11.38	43.89	52.50	49.26	52.03	74.00	-21.97	Peak

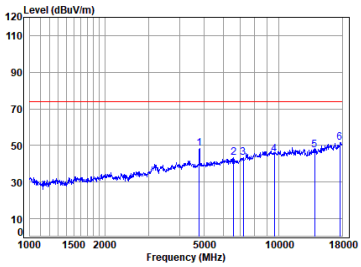
Right BLE_1M_TX_CH_00_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	56.72	44.23	54.00	-9.77	Average
2	6451.353	8.88	35.50	53.15	44.31	35.54	54.00	-18.46	Average
3	7206.000	8.50	35.70	53.18	44.65	35.67	54.00	-18.33	Average
4	9608.000	10.74	37.42	53.35	44.02	38.83	54.00	-15.17	Average
5	13957.530	10.97	39.62	52.91	43.25	40.93	54.00	-13.07	Average
6	q17741.740	11.35	43.84	52.53	41.97	44.63	54.00	-9.37	Average

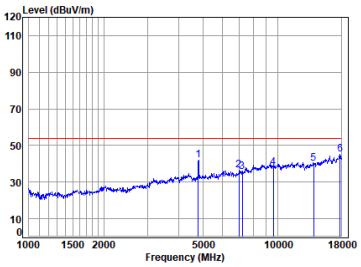
Right BLE_1M_TX_CH_00_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	60.91	48.42	74.00	-25.58	Peak
2	6602.265	8.81	35.30	53.16	52.48	43.43	74.00	-30.57	Peak
3	7206.000	8.50	35.70	53.18	52.45	43.47	74.00	-30.53	Peak
4	9608.000	10.74	37.42	53.35	50.40	45.21	74.00	-28.79	Peak
5	13957.530	10.97	39.62	52.91	49.94	47.62	74.00	-26.38	Peak
6	p17639.470	11.28	43.68	52.58	49.37	51.75	74.00	-22.25	Peak

Right BLE_1M_TX_CH_00_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	54.54	42.05	54.00	-11.95	Average
2	6995.172	8.56	35.71	53.20	45.28	36.35	54.00	-17.65	Average
3	7206.000	8.50	35.70	53.18	44.69	35.71	54.00	-18.29	Average
4	9608.000	10.74	37.42	53.35	43.17	37.98	54.00	-16.02	Average
5	13957.530	10.97	39.62	52.91	42.41	40.09	54.00	-13.91	Average
6	q17793.090	11.38	43.89	52.50	42.41	45.18	54.00	-8.82	Average

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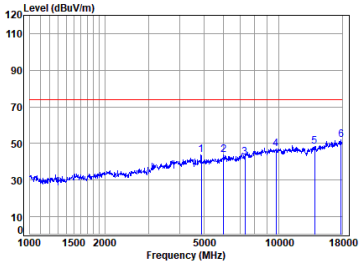
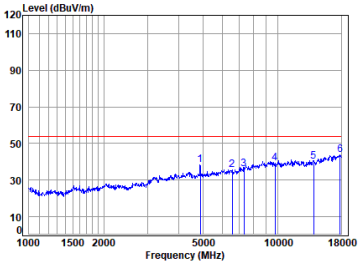
Right BLE_1M_TX_CH_19_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	55.82	43.70	74.00	-30.30	Peak
2	6001.626	8.93	34.90	53.10	53.01	43.74	74.00	-30.26	Peak
3	7320.000	8.46	35.70	53.17	51.60	42.59	74.00	-31.41	Peak
4	9760.000	10.69	37.38	53.29	52.15	46.93	74.00	-27.07	Peak
5	13957.530	10.97	39.62	52.91	50.60	48.28	74.00	-25.72	Peak
6	p17793.090	11.38	43.89	52.50	49.19	51.96	74.00	-22.04	Peak

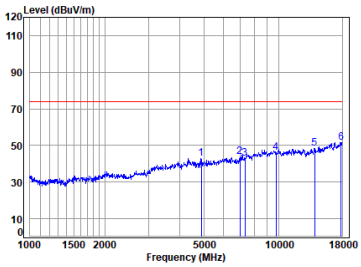
Right BLE_1M_TX_CH_19_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	50.31	38.19	54.00	-15.81	Average
2	6564.209	8.84	35.44	53.16	44.53	35.65	54.00	-18.35	Average
3	7320.000	8.46	35.70	53.17	44.89	35.88	54.00	-18.12	Average
4	9760.000	10.69	37.38	53.29	44.37	39.15	54.00	-14.85	Average
5	13957.530	10.97	39.62	52.91	42.67	40.35	54.00	-13.65	Average
6	q17793.090	11.38	43.89	52.50	41.22	43.99	54.00	-10.01	Average

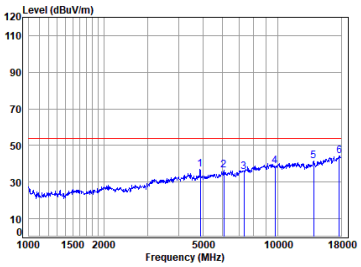
Right BLE_1M_TX_CH_19_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	55.00	42.88	74.00	-31.12	Peak
2	6995.172	8.56	35.71	53.20	52.61	43.68	74.00	-30.32	Peak
3	7320.000	8.46	35.70	53.17	52.01	43.00	74.00	-31.00	Peak
4	9760.000	10.69	37.38	53.29	51.26	46.04	74.00	-27.96	Peak
5	13957.530	10.97	39.62	52.91	50.71	48.39	74.00	-25.61	Peak
6	p17793.090	11.38	43.89	52.50	49.00	51.77	74.00	-22.23	Peak

Right BLE_1M_TX_CH_19_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	49.16	37.04	54.00	-16.96	Average
2	6071.417	8.92	35.04	53.11	45.64	36.49	54.00	-17.51	Average
3	7320.000	8.46	35.70	53.17	44.72	35.71	54.00	-18.29	Average
4	9760.000	10.69	37.38	53.29	44.15	38.93	54.00	-15.07	Average
5	13957.530	10.97	39.62	52.91	43.83	41.51	54.00	-12.49	Average
6	q17690.530	11.32	43.78	52.55	41.64	44.19	54.00	-9.81	Average

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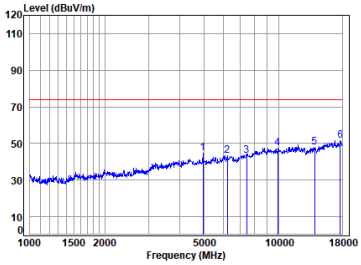
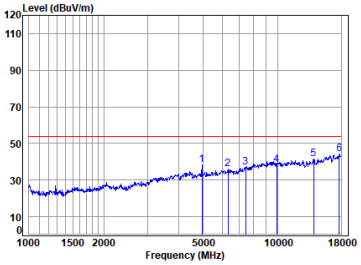
Right BLE_1M_TX_CH_39_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	56.73	44.62	74.00	-29.38	Peak
2	6213.441	8.91	34.75	53.12	52.71	43.25	74.00	-30.75	Peak
3	7440.000	8.43	35.96	53.15	52.09	43.33	74.00	-30.67	Peak
4	9920.000	10.64	37.30	53.23	52.63	47.34	74.00	-26.66	Peak
5	13957.530	10.97	39.62	52.91	50.28	47.96	74.00	-26.04	Peak
6	p17690.530	11.32	43.78	52.55	48.89	51.44	74.00	-22.56	Peak

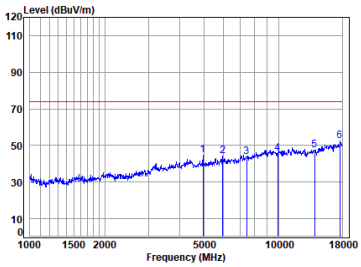
Right BLE_1M_TX_CH_39_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	50.37	38.26	54.00	-15.74	Average
2	6322.136	8.90	34.96	53.13	45.31	36.04	54.00	-17.96	Average
3	7440.000	8.43	35.96	53.15	45.71	36.95	54.00	-17.05	Average
4	9920.000	10.64	37.30	53.23	43.41	38.12	54.00	-15.88	Average
5	13957.530	10.97	39.62	52.91	43.62	41.30	54.00	-12.70	Average
6	q17690.530	11.32	43.78	52.55	41.92	44.47	54.00	-9.53	Average

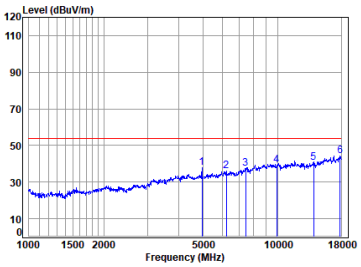
Right BLE_1M_TX_CH_39_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	56.67	44.56	74.00	-29.44	Peak
2	5949.811	8.86	34.70	53.15	53.85	44.26	74.00	-29.74	Peak
3	7440.000	8.43	35.96	53.15	52.52	43.76	74.00	-30.24	Peak
4	9920.000	10.64	37.30	53.23	50.85	45.56	74.00	-28.44	Peak
5	13957.530	10.97	39.62	52.91	49.80	47.48	74.00	-26.52	Peak
6	p17639.470	11.28	43.68	52.58	49.97	52.35	74.00	-21.65	Peak

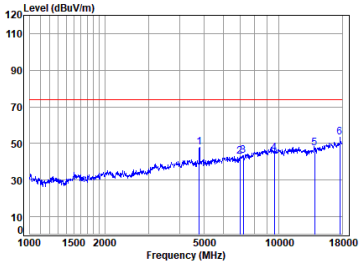
Right BLE_1M_TX_CH_39_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	50.20	38.09	54.00	-15.91	Average
2	6213.441	8.91	34.75	53.12	45.31	35.85	54.00	-18.15	Average
3	7440.000	8.43	35.96	53.15	46.16	37.40	54.00	-16.60	Average
4	9920.000	10.64	37.30	53.23	44.31	39.02	54.00	-14.98	Average
5	13957.530	10.97	39.62	52.91	43.14	40.82	54.00	-13.18	Average
6	q17793.090	11.38	43.89	52.50	41.33	44.10	54.00	-9.90	Average

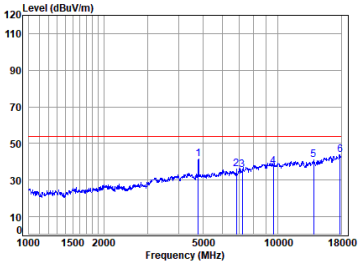
Right BLE_2M_TX_CH_00_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	60.56	48.07	74.00	-25.93	Peak
2	6995.172	8.56	35.71	53.20	51.95	43.02	74.00	-30.98	Peak
3	7206.000	8.50	35.70	53.18	52.19	43.21	74.00	-30.79	Peak
4	9608.000	10.74	37.42	53.35	49.96	44.77	74.00	-29.23	Peak
5	13957.530	10.97	39.62	52.91	49.94	47.62	74.00	-26.38	Peak
6	p17639.470	11.28	43.68	52.58	51.11	53.49	74.00	-20.51	Peak

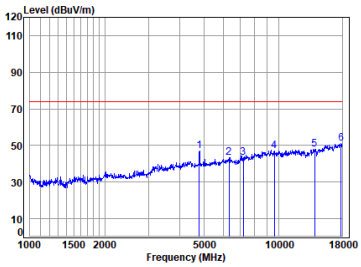
Right BLE_2M_TX_CH_00_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	53.94	41.45	54.00	-12.55	Average
2	6835.278	8.66	35.44	53.18	45.35	36.27	54.00	-17.73	Average
3	7206.000	8.50	35.70	53.18	44.59	35.61	54.00	-18.39	Average
4	9608.000	10.74	37.42	53.35	42.47	37.28	54.00	-16.72	Average
5	13957.530	10.97	39.62	52.91	43.29	40.97	54.00	-13.03	Average
6	q17793.090	11.38	43.89	52.50	41.11	43.88	54.00	-10.12	Average

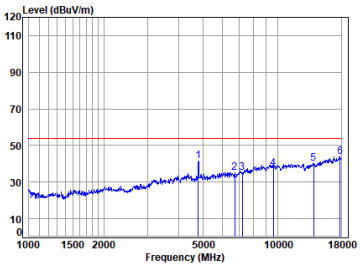
Right BLE_2M_TX_CH_00_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	59.58	47.09	74.00	-26.91	Peak
2	6322.136	8.90	34.96	53.13	52.67	43.40	74.00	-30.60	Peak
3	7206.000	8.50	35.70	53.18	52.13	43.15	74.00	-30.85	Peak
4	9608.000	10.74	37.42	53.35	52.21	47.02	74.00	-26.98	Peak
5	13957.530	10.97	39.62	52.91	50.25	47.93	74.00	-26.07	Peak
6	p17844.590	11.41	43.90	52.48	48.45	51.28	74.00	-22.72	Peak

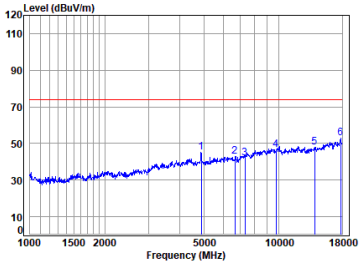
Right BLE_2M_TX_CH_00_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
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	4804.000	7.41	34.32	54.22	54.08	41.59	54.00	-12.41	Average
2	6717.762	8.74	35.20	53.17	44.46	35.23	54.00	-18.77	Average
3	7206.000	8.50	35.70	53.18	44.05	35.07	54.00	-18.93	Average
4	9608.000	10.74	37.42	53.35	42.80	37.61	54.00	-16.39	Average
5	13957.530	10.97	39.62	52.91	42.55	40.23	54.00	-13.77	Average
6	q17793.090	11.38	43.89	52.50	41.19	43.96	54.00	-10.04	Average

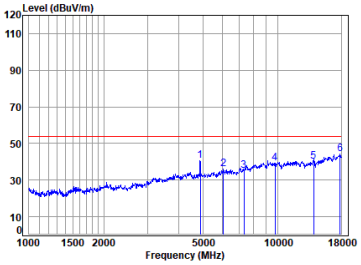
Right BLE_2M_TX_CH_19_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	57.28	45.16	74.00	-28.84	Peak
2	6679.040	8.76	35.20	53.17	52.08	42.87	74.00	-31.13	Peak
3	7320.000	8.46	35.70	53.17	51.17	42.16	74.00	-31.84	Peak
4	9760.000	10.69	37.38	53.29	51.54	46.32	74.00	-27.68	Peak
5	13957.530	10.97	39.62	52.91	50.01	47.69	74.00	-26.31	Peak
6	p17741.740	11.35	43.84	52.53	50.08	52.74	74.00	-21.26	Peak

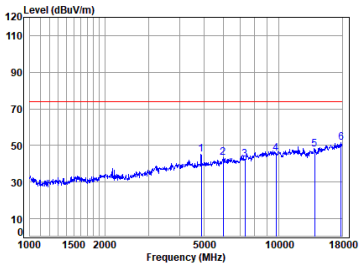
Right BLE_2M_TX_CH_19_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	52.60	40.48	54.00	-13.52	Average
2	6053.894	8.92	35.01	53.11	45.01	35.83	54.00	-18.17	Average
3	7320.000	8.46	35.70	53.17	44.28	35.27	54.00	-18.73	Average
4	9760.000	10.69	37.38	53.29	44.51	39.29	54.00	-14.71	Average
5	13957.530	10.97	39.62	52.91	42.27	39.95	54.00	-14.05	Average
6	q17793.090	11.38	43.89	52.50	41.53	44.30	54.00	-9.70	Average

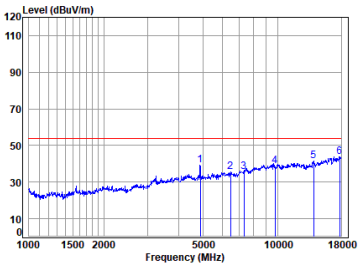
Right BLE_2M_TX_CH_19_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	57.46	45.34	74.00	-28.66	Peak
2	5984.305	8.91	34.84	53.12	52.94	43.57	74.00	-30.43	Peak
3	7320.000	8.46	35.70	53.17	51.59	42.58	74.00	-31.42	Peak
4	9760.000	10.69	37.38	53.29	50.99	45.77	74.00	-28.23	Peak
5	13957.530	10.97	39.62	52.91	50.24	47.92	74.00	-26.08	Peak
6	p17793.090	11.38	43.89	52.50	48.72	51.49	74.00	-22.51	Peak

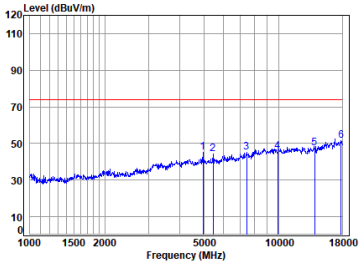
Right BLE_2M_TX_CH_19_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2440 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	4880.000	7.47	34.62	54.21	51.47	39.35	54.00	-14.65	Average
2	6470.026	8.88	35.54	53.15	44.37	35.64	54.00	-18.36	Average
3	7320.000	8.46	35.70	53.17	44.37	35.36	54.00	-18.64	Average
4	9760.000	10.69	37.38	53.29	43.85	38.63	54.00	-15.37	Average
5	13957.530	10.97	39.62	52.91	43.76	41.44	54.00	-12.56	Average
6	q17741.740	11.35	43.84	52.53	41.27	43.93	54.00	-10.07	Average

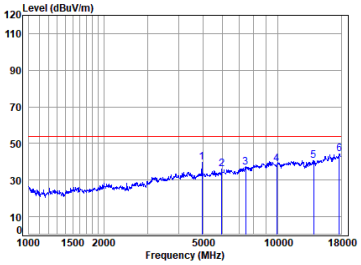
Right BLE_2M_TX_CH_39_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	57.25	45.14	74.00	-28.86	Peak
2	5439.885	8.09	34.68	53.69	55.17	44.25	74.00	-29.75	Peak
3	7440.000	8.43	35.96	53.15	53.80	45.04	74.00	-28.96	Peak
4	9920.000	10.64	37.30	53.23	51.09	45.80	74.00	-28.20	Peak
5	13957.530	10.97	39.62	52.91	49.90	47.58	74.00	-26.42	Peak
6	p17793.090	11.38	43.89	52.50	48.91	51.68	74.00	-22.32	Peak

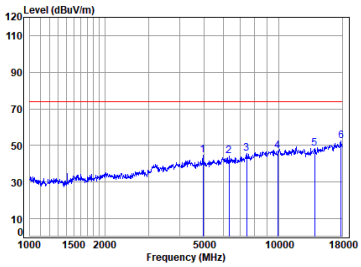
Right BLE_2M_TX_CH_39_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	51.86	39.75	54.00	-14.25	Average
2	5949.811	8.86	34.70	53.15	45.43	35.84	54.00	-18.16	Average
3	7440.000	8.43	35.96	53.15	45.90	37.14	54.00	-16.86	Average
4	9920.000	10.64	37.30	53.23	44.11	38.82	54.00	-15.18	Average
5	13957.530	10.97	39.62	52.91	42.87	40.55	54.00	-13.45	Average
6	q17690.530	11.32	43.78	52.55	41.58	44.13	54.00	-9.87	Average

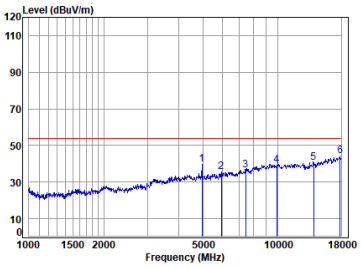
Right BLE_2M_TX_CH_39_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	56.92	44.81	74.00	-29.19	Peak
2	6322.136	8.90	34.96	53.13	53.66	44.39	74.00	-29.61	Peak
3	7440.000	8.43	35.96	53.15	54.16	45.40	74.00	-28.60	Peak
4	9920.000	10.64	37.30	53.23	52.18	46.89	74.00	-27.11	Peak
5	13957.530	10.97	39.62	52.91	50.49	48.17	74.00	-25.83	Peak
6	p17793.090	11.38	43.89	52.50	49.70	52.47	74.00	-21.53	Peak

Right BLE_2M_TX_CH_39_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 05277AT
Mode : 2480 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	4960.000	7.53	34.56	54.20	51.80	39.69	54.00	-14.31	Average
2	5932.638	8.83	34.67	53.17	45.21	35.54	54.00	-18.46	Average
3	7440.000	8.43	35.96	53.15	45.41	36.65	54.00	-17.35	Average
4	9920.000	10.64	37.30	53.23	44.37	39.08	54.00	-14.92	Average
5	13957.530	10.97	39.62	52.91	42.72	40.40	54.00	-13.60	Average
6	q17793.090	11.38	43.89	52.50	41.47	44.24	54.00	-9.76	Average

7.4 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2020) Section 11.9.1
Test Engineer: Linvo Ding

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ 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

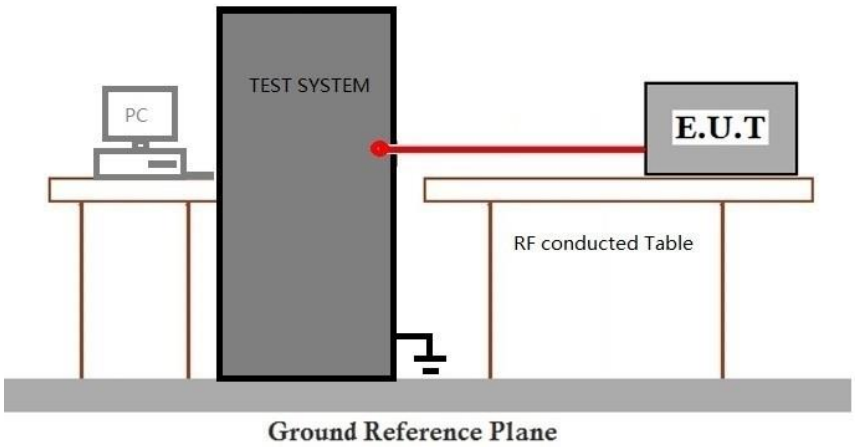
7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 27.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(Left earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(Right earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	08	TX mode(Left earbud 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	09	TX mode(Right earbud 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details

7.5 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2020) Section 11.8.1
Test Engineer: Linvo Ding

Limit:
≥500 kHz

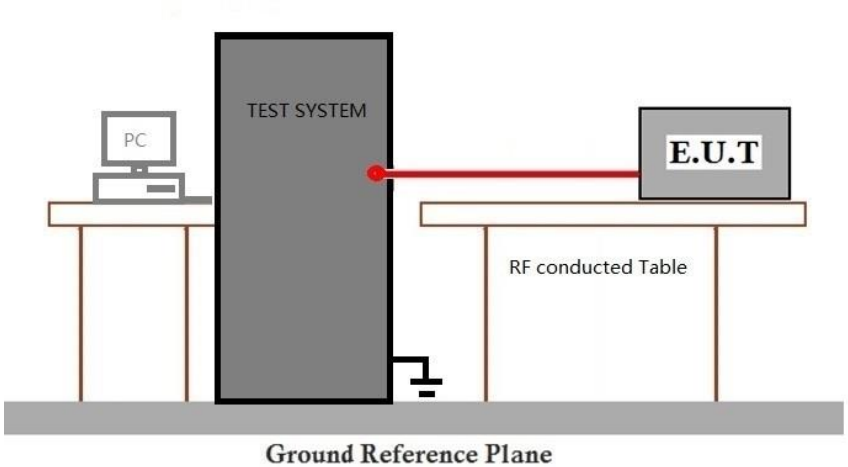
7.5.1 E.U.T. Operation

Operating Environment:
Temperature: 27.4 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(Left earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(Right earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	08	TX mode(Left earbud 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	09	TX mode(Right earbud 2Mbps)_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

7.6 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2020) Section 11.10.2
Test Engineer: Linvo Ding

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

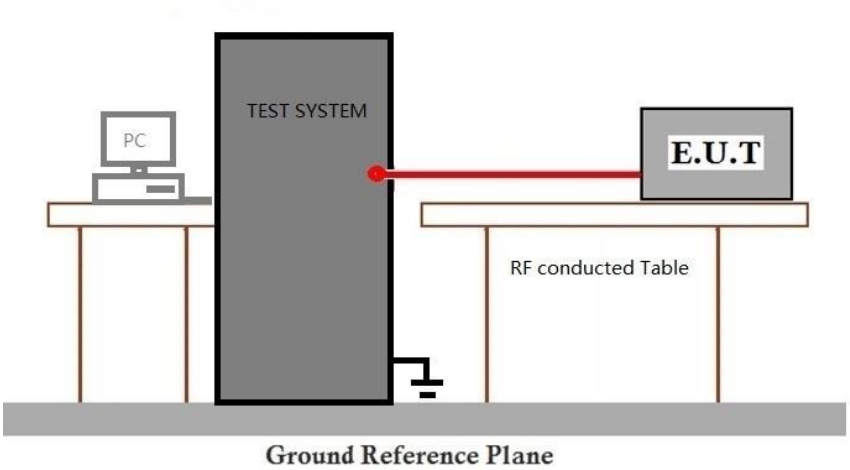
7.6.1 E.U.T. Operation

Operating Environment:
Temperature: 27.4 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(Left earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(Right earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	08	TX mode(Left earbud 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	09	TX mode(Right earbud 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2020) Section 6.10.4
Test Engineer: Linvo Ding

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).

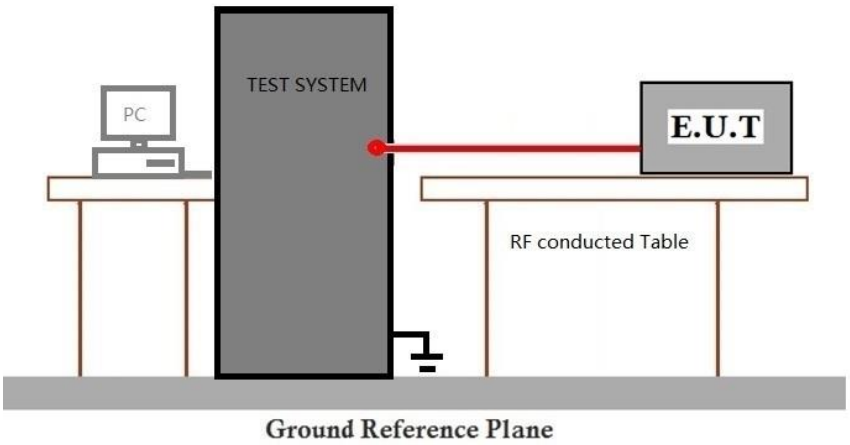
7.7.1 E.U.T. Operation

Operating Environment:
Temperature: 27.4 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(Left earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(Right earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	08	TX mode(Left earbud 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	09	TX mode(Right earbud 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2020) Section 11.11
Test Engineer: Linvo Ding

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

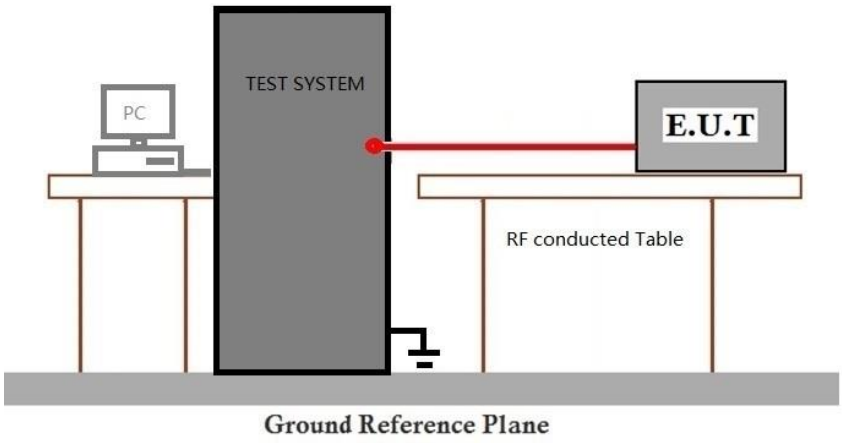
Operating Environment:

Temperature: 27.4 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(Left earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(Right earbud 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	08	TX mode(Left earbud 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	09	TX mode(Right earbud 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2511005277AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2511005277AT

10 Appendix

For right earbud:

1. Duty Cycle

1.1 Test Result

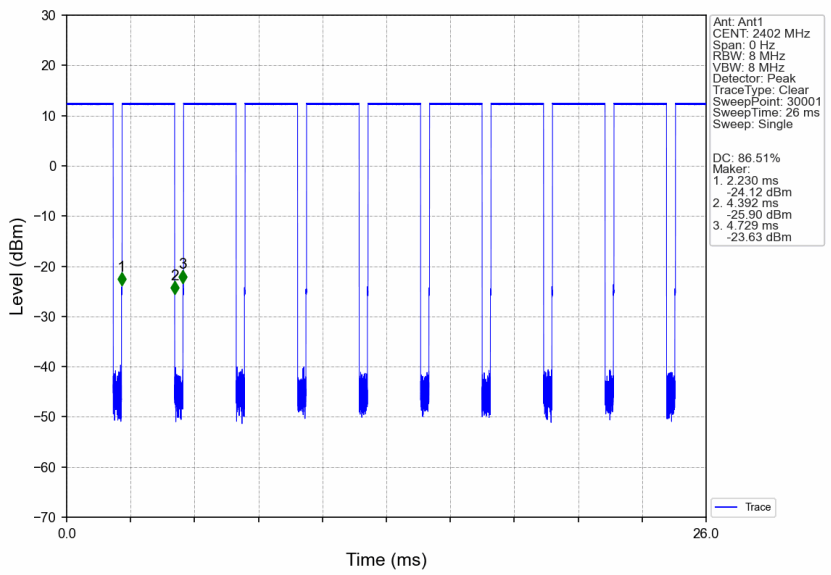
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	2.162	2.499	86.51	0.63	0.00
		2440	2.162	2.499	86.51	0.63	0.00
		2480	2.162	2.499	86.51	0.63	0.00
2M	SISO	2402	1.107	1.250	88.56	0.53	0.03
		2440	1.107	1.250	88.56	0.53	0.03
		2480	1.107	1.250	88.56	0.53	0.03

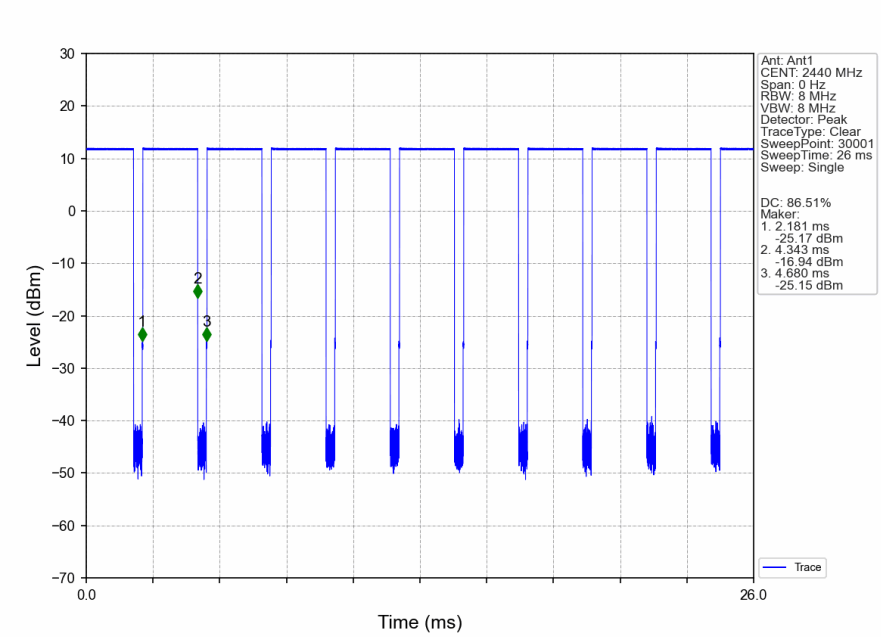
1.2 Test Graph

1.2.1 Ant1

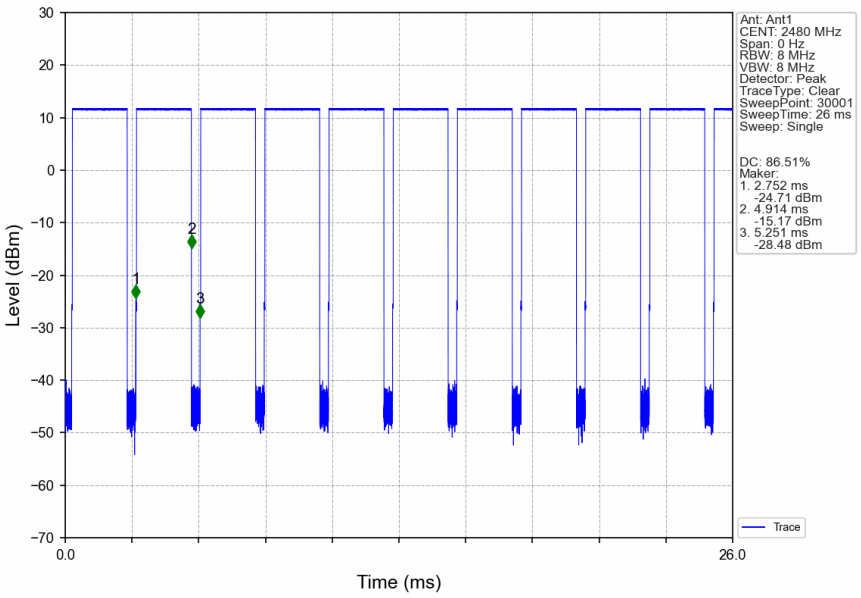
1M_LCH_2402MHz_Ant1_NTNV



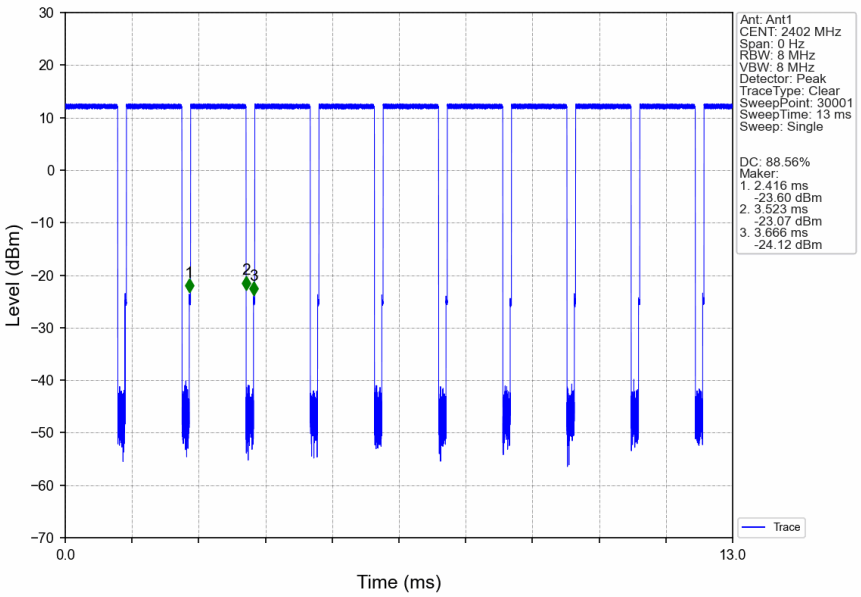
1M_MCH_2440MHz_Ant1_NTNV



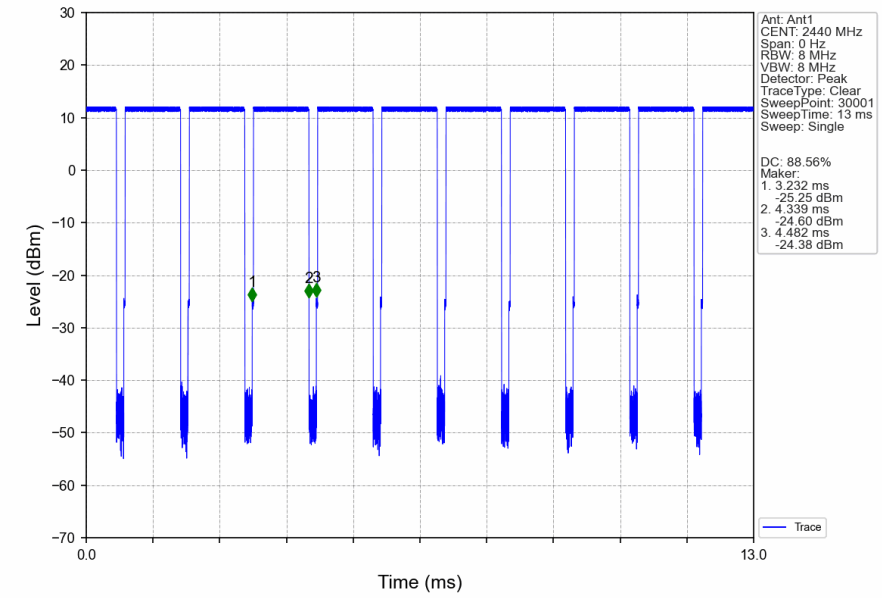
1M_HCH_2480MHz_Ant1_NTNV



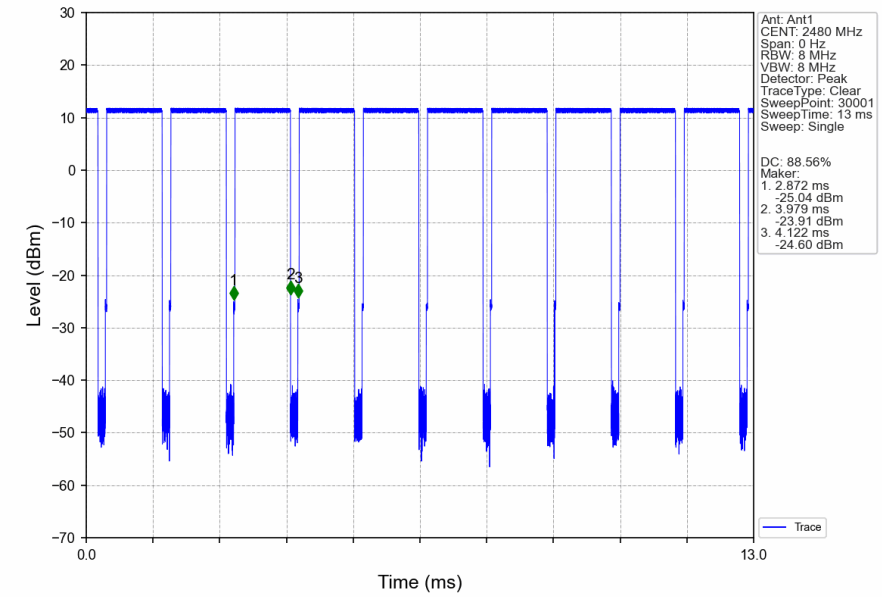
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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	1.043	/	Pass
		2440	1	1.040	/	Pass
		2480	1	1.042	/	Pass
2M	SISO	2402	1	1.893	/	Pass
		2440	1	1.896	/	Pass
		2480	1	1.916	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.682	>=0.5	Pass
		2440	1	0.683	>=0.5	Pass
		2480	1	0.674	>=0.5	Pass
2M	SISO	2402	1	1.139	>=0.5	Pass
		2440	1	1.141	>=0.5	Pass
		2480	1	1.139	>=0.5	Pass

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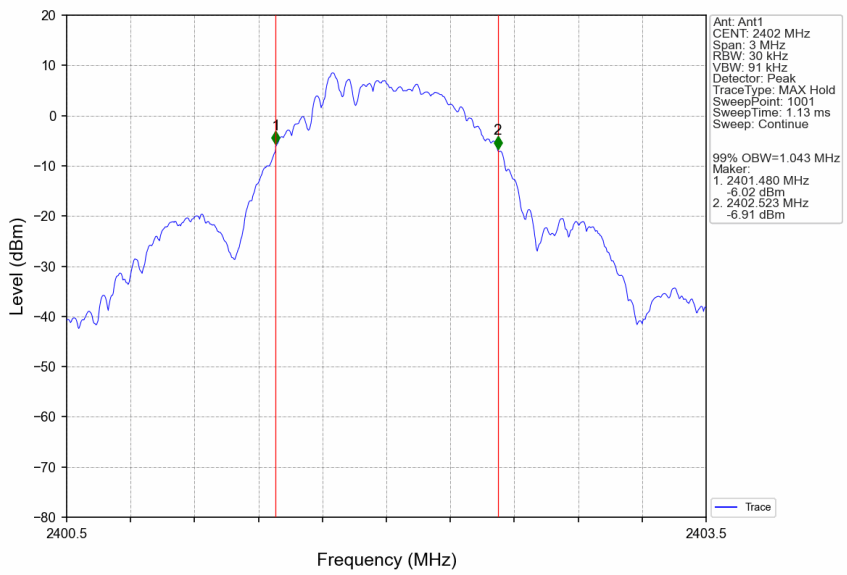
中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

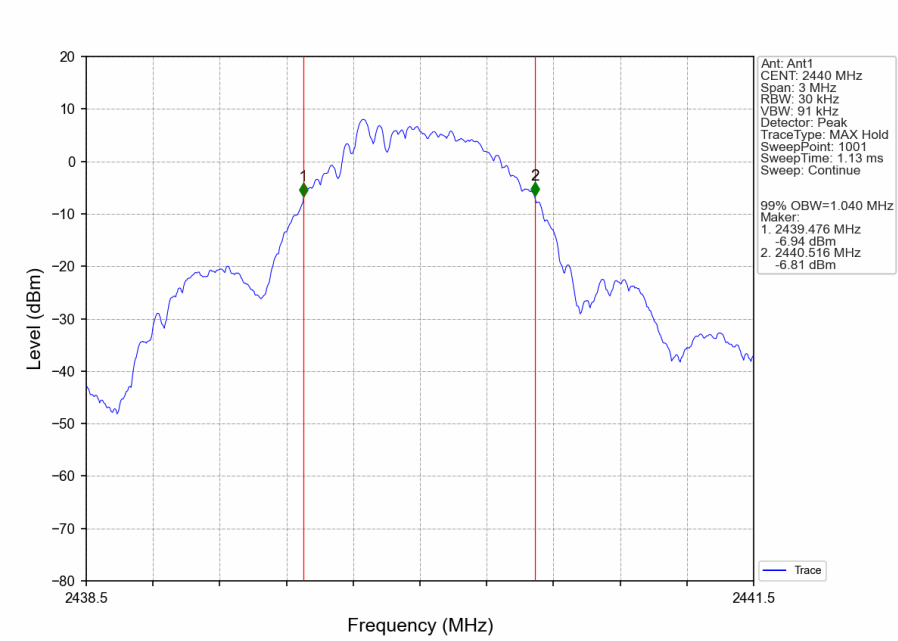
2.2 Test Graph

2.2.1 OBW

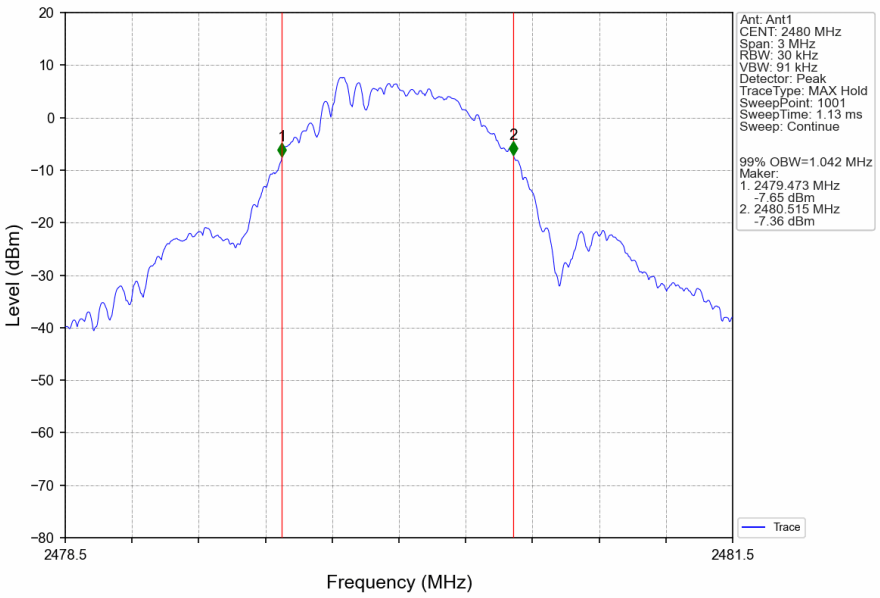
1M_LCH_2402MHz_Ant1_NTNV



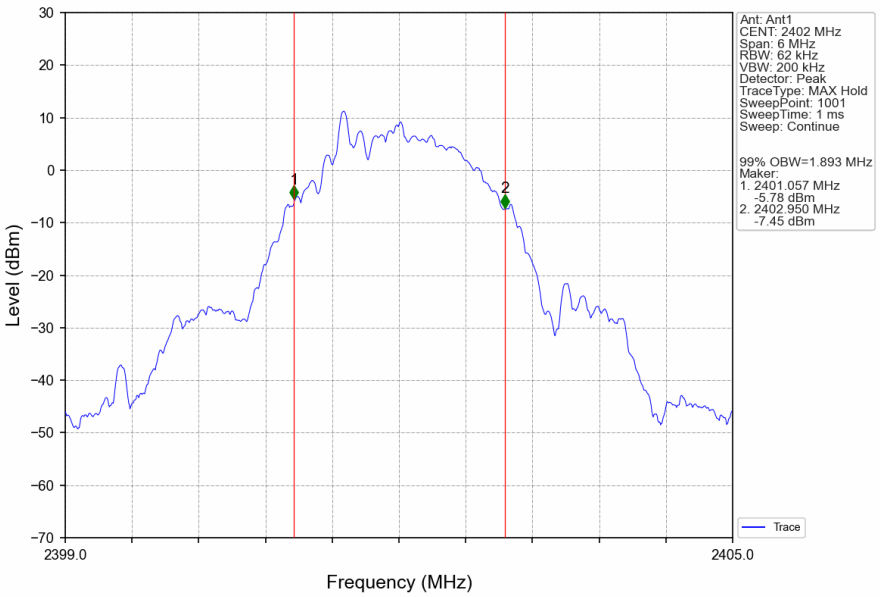
1M_MCH_2440MHz_Ant1_NTNV



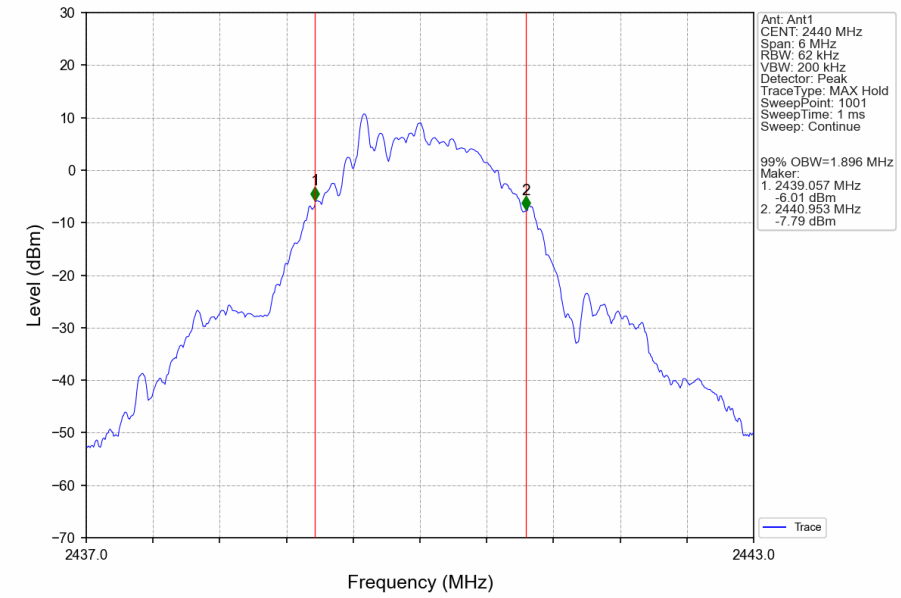
1M_HCH_2480MHz_Ant1_NTNV



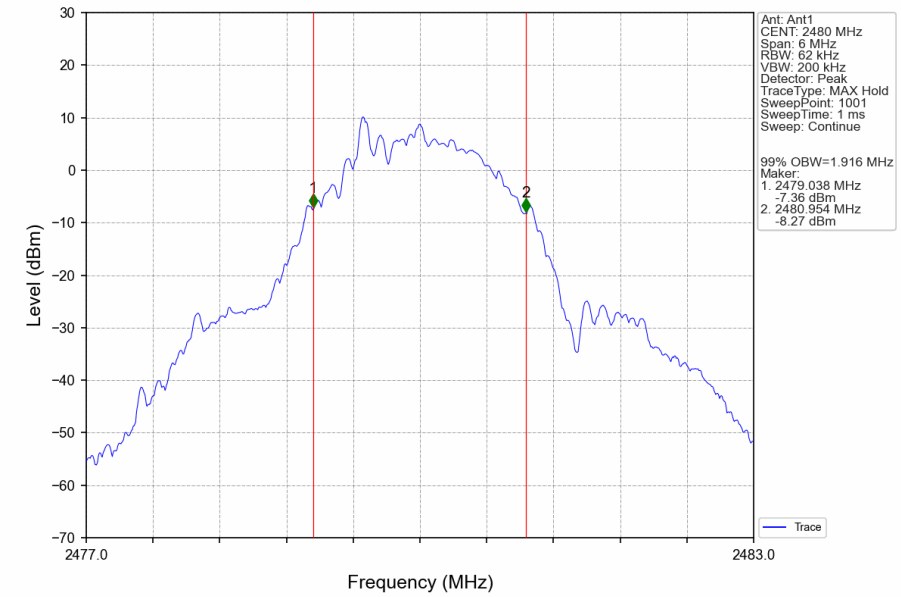
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV

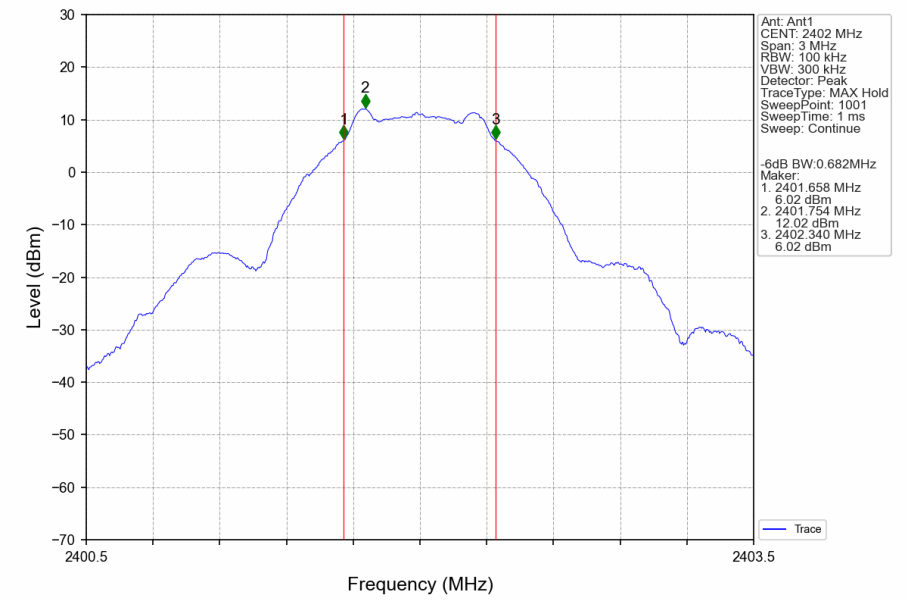


2M_HCH_2480MHz_Ant1_NTNV

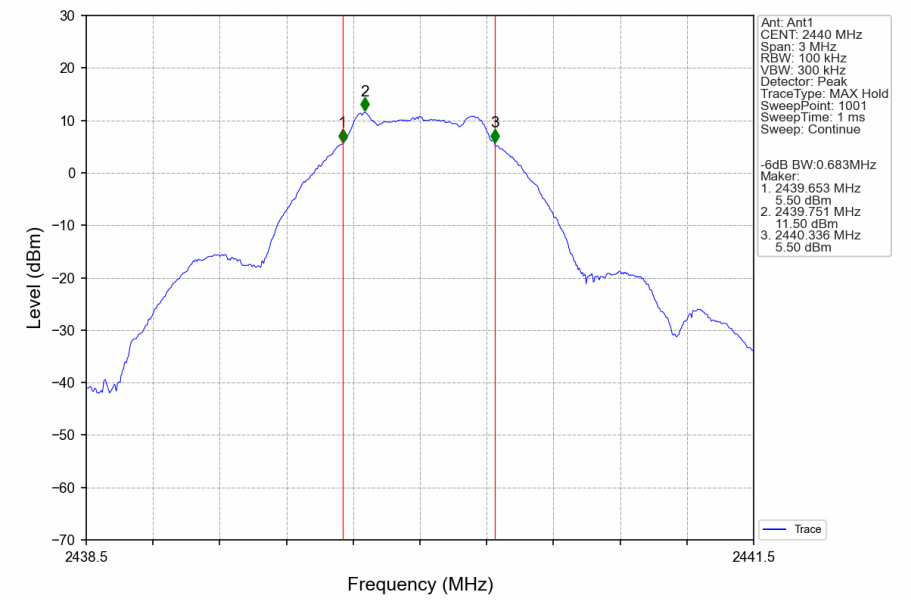


2.2.2 6dB BW

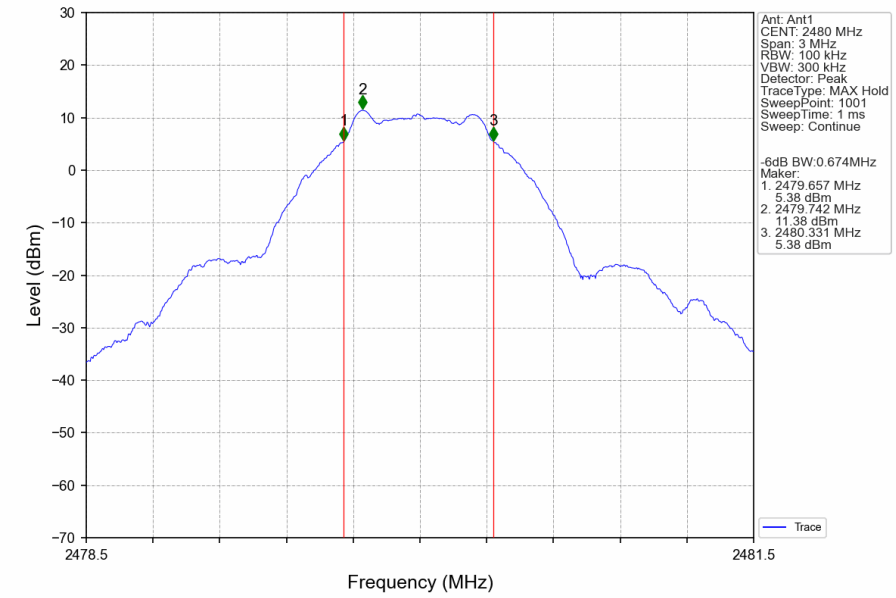
1M_LCH_2402MHz_Ant1_NTNV



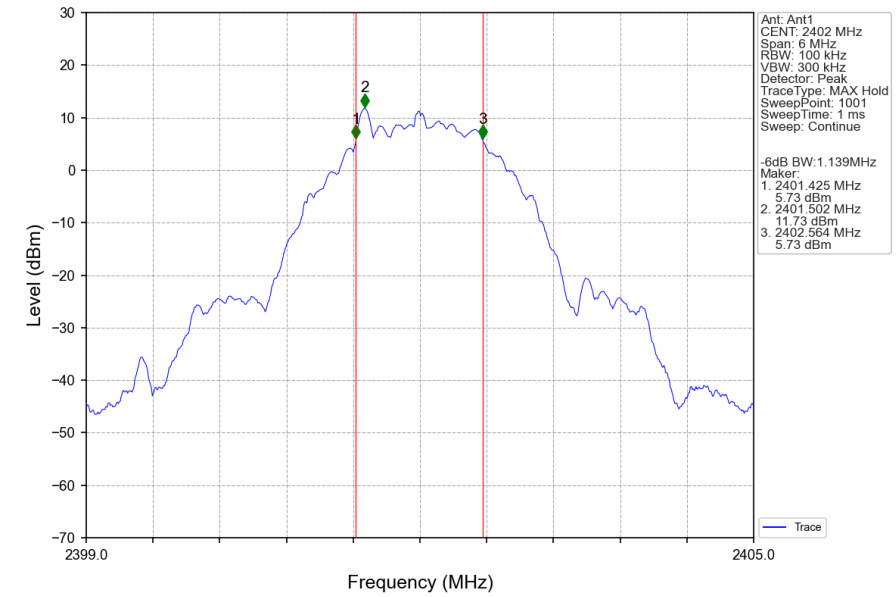
1M_MCH_2440MHz_Ant1_NTNV



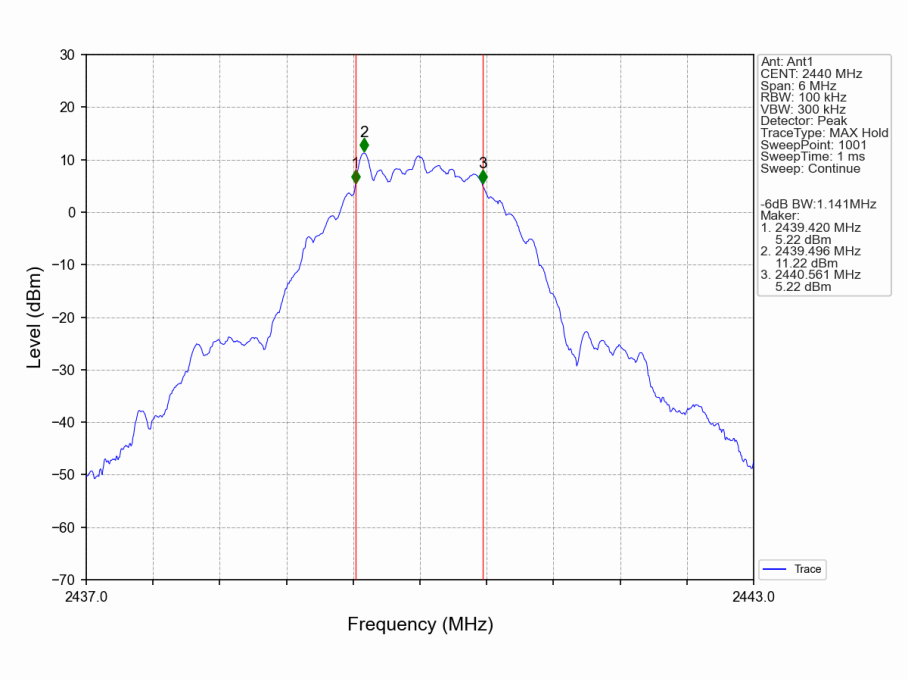
1M_HCH_2480MHz_Ant1_NTNV



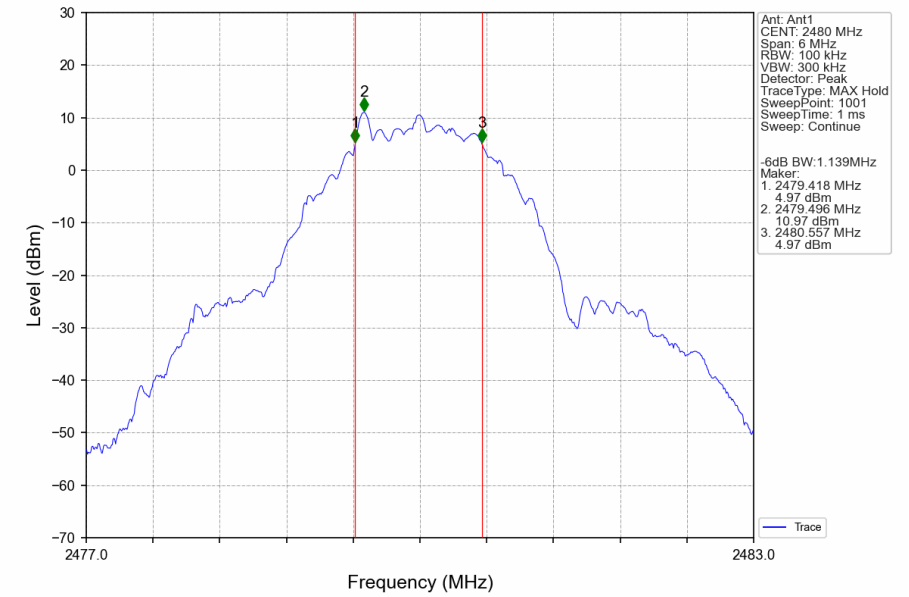
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	9.59	<=30	Pass
		2440	9.20	<=30	Pass
		2480	9.11	<=30	Pass
2M	SISO	2402	9.52	<=30	Pass
		2440	9.17	<=30	Pass
		2480	9.07	<=30	Pass
Note1: Antenna Gain: Ant1: -2.70dBi;					

4. Maximum Power Spectral Density

4.1 Test Result

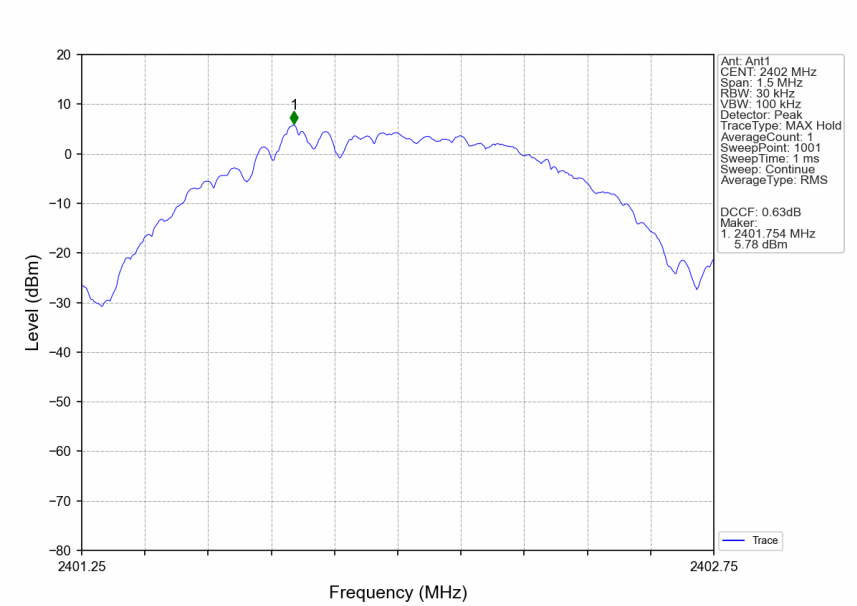
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	5.78	<=8	Pass
		2440	5.36	<=8	Pass
		2480	5.28	<=8	Pass
2M	SISO	2402	4.84	<=8	Pass
		2440	4.42	<=8	Pass
		2480	4.32	<=8	Pass
Note1: Antenna Gain: Ant1: -2.70dBi;					

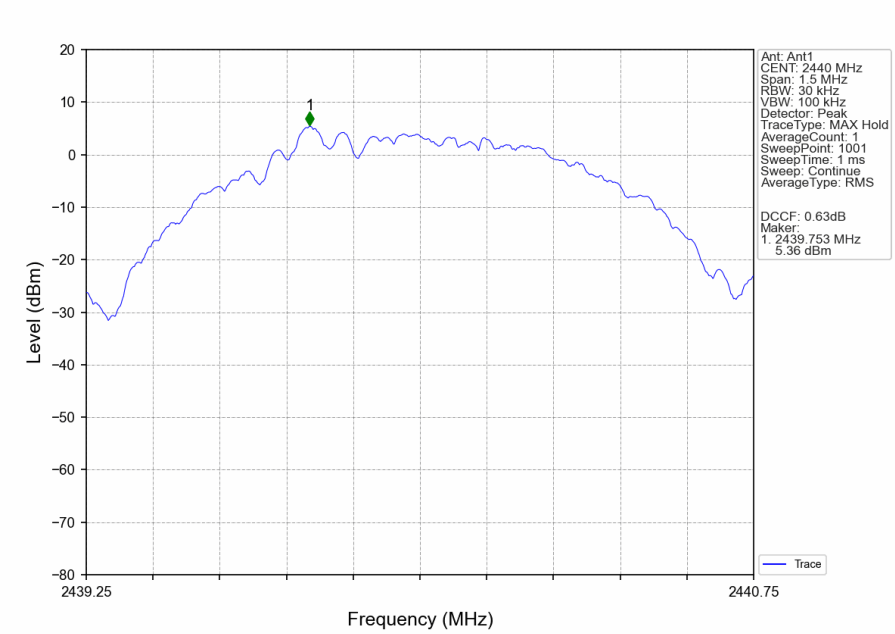
4.2 Test Graph

4.2.1 PSD

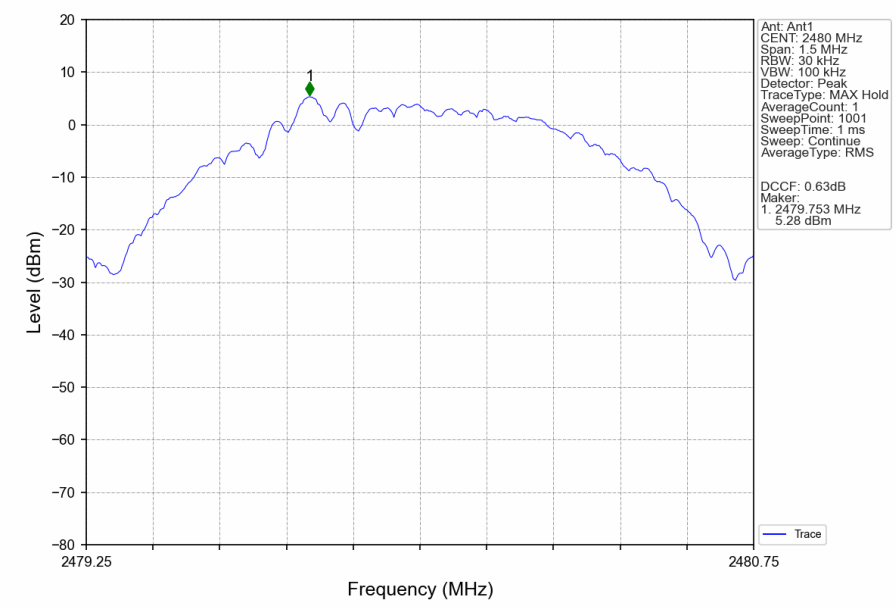
1M_LCH_2402MHz_Ant1_NTNV



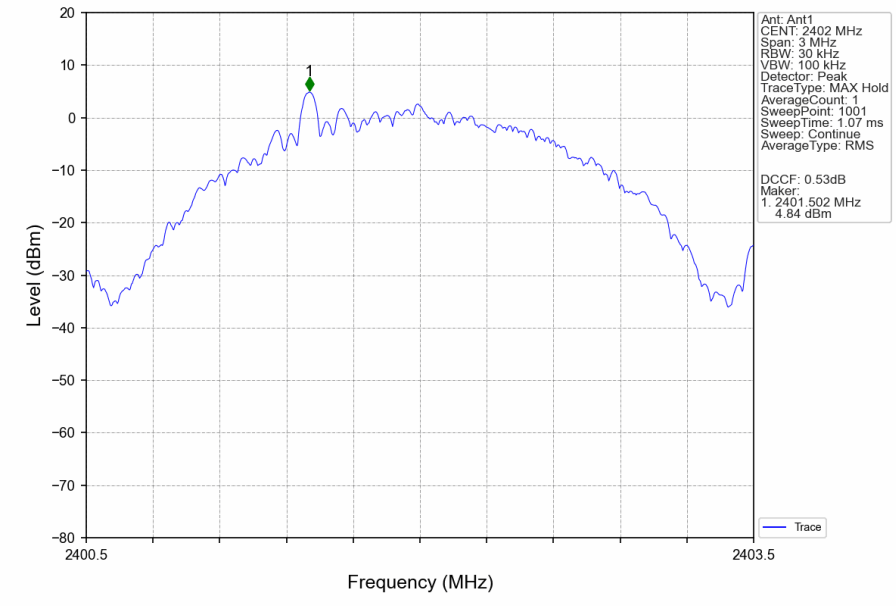
1M_MCH_2440MHz_Ant1_NTNV



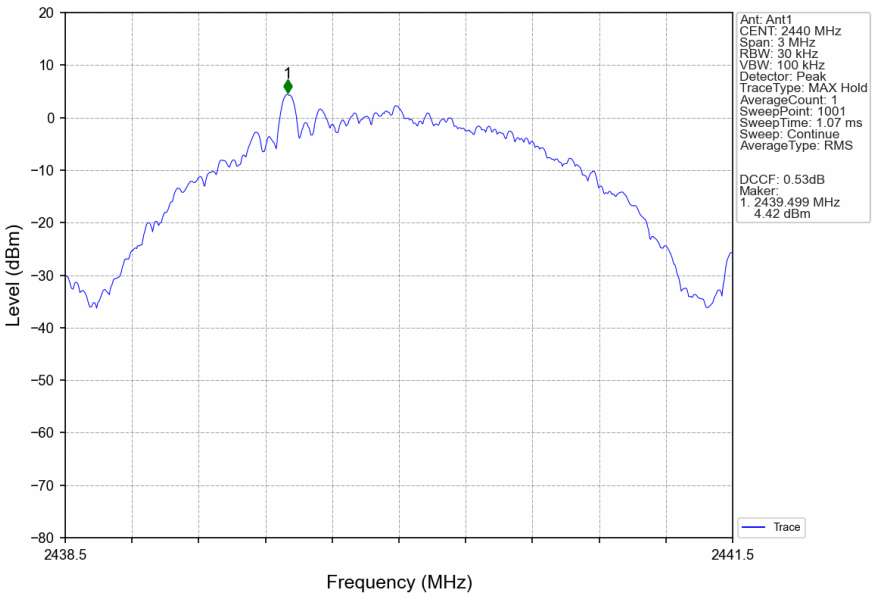
1M_HCH_2480MHz_Ant1_NTNV



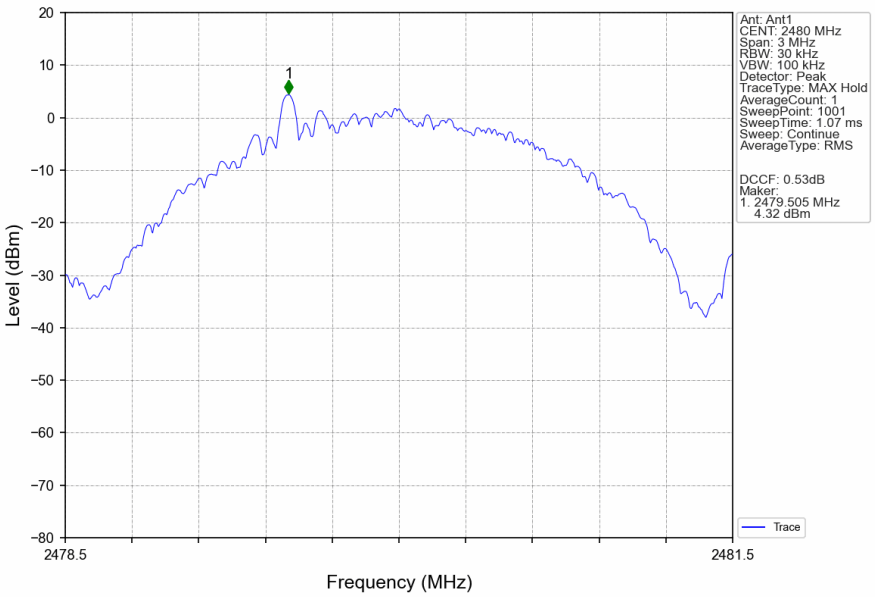
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	12.03
		2440	1	11.58
		2480	1	11.36
2M	SISO	2402	1	11.68
		2440	1	11.20
		2480	1	10.97
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.				

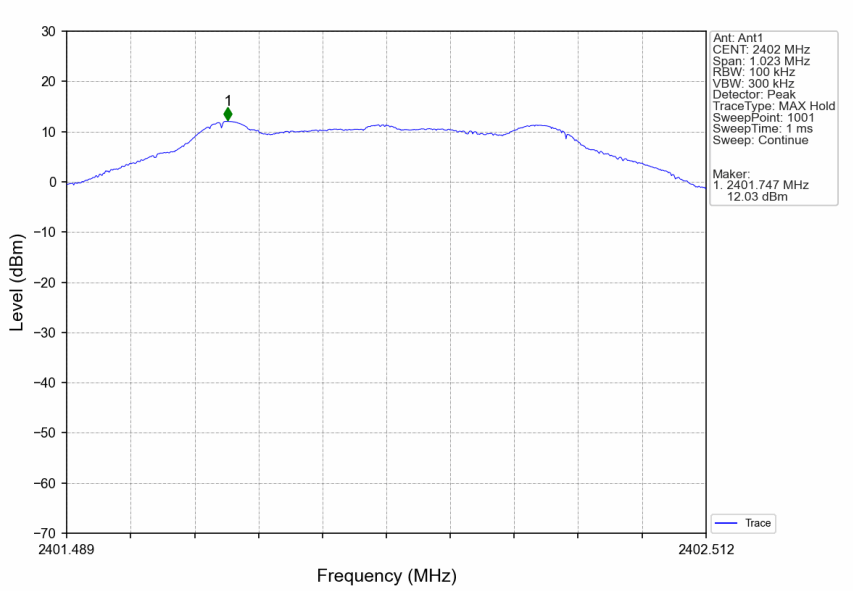
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	12.03	-7.97	Pass
		2440	1	12.03	-7.97	Pass
		2480	1	12.03	-7.97	Pass
2M	SISO	2402	1	11.68	-8.32	Pass
		2440	1	11.68	-8.32	Pass
		2480	1	11.68	-8.32	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.						

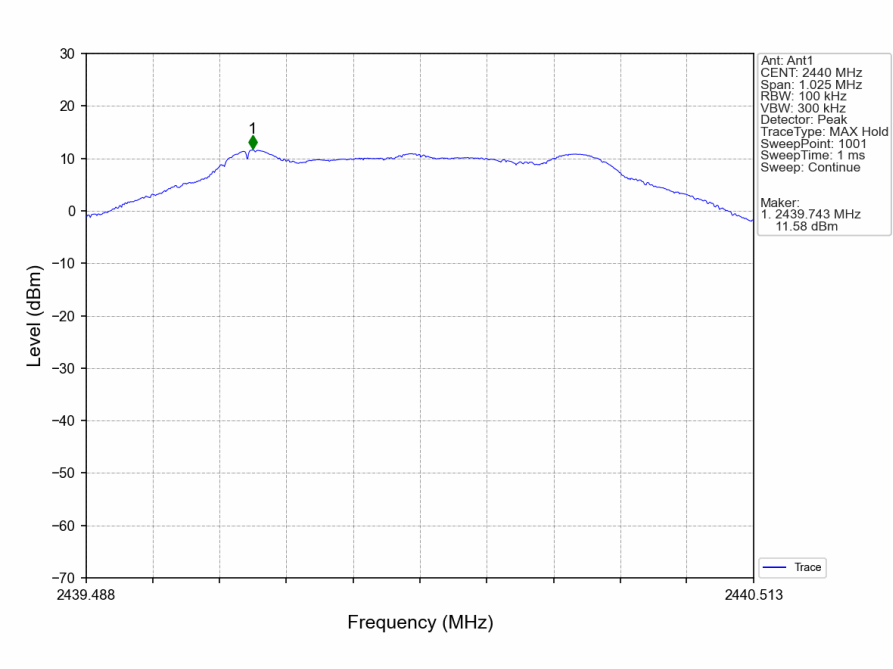
5.2 Test Graph

5.2.1 Ref

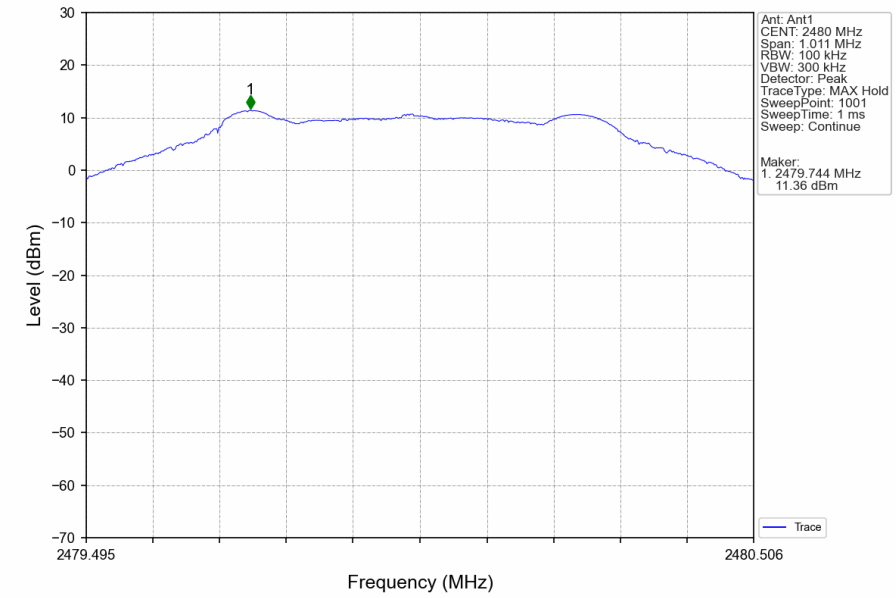
1M_LCH_2402MHz_Ant1_NTNV



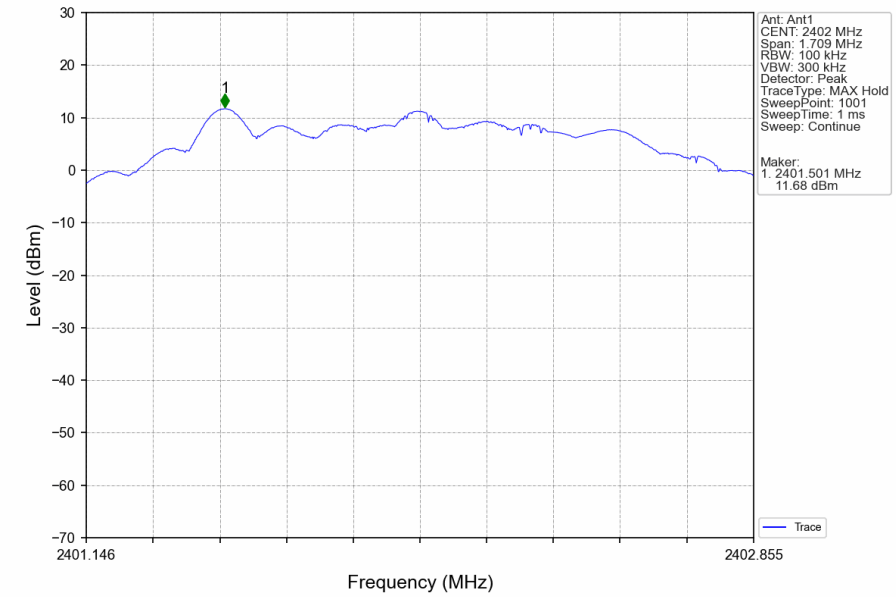
1M_MCH_2440MHz_Ant1_NTNV



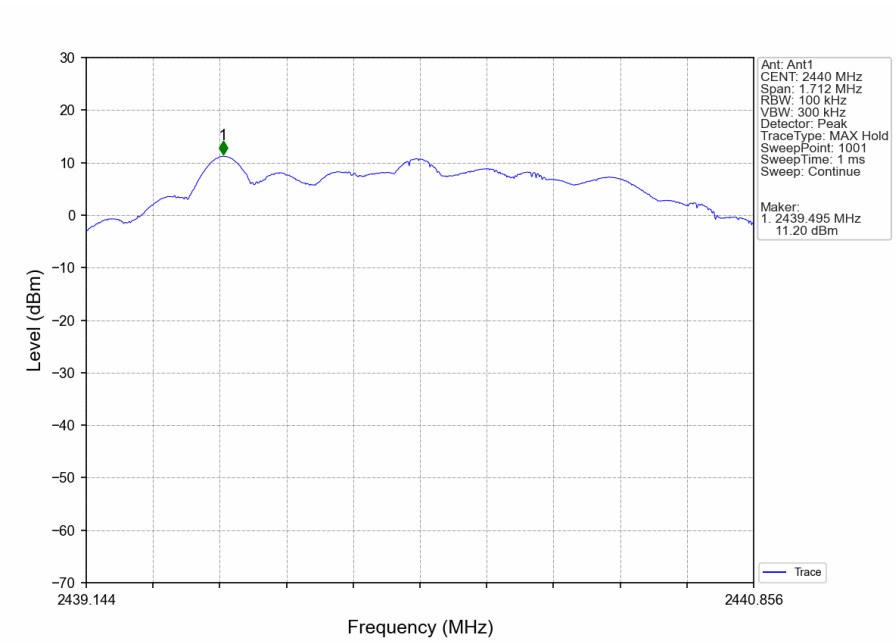
1M_HCH_2480MHz_Ant1_NTNV



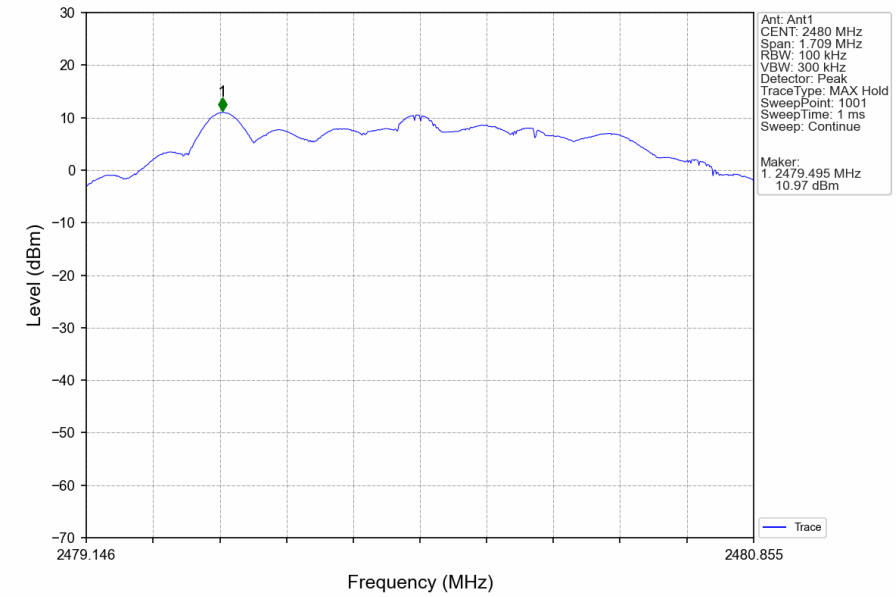
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV

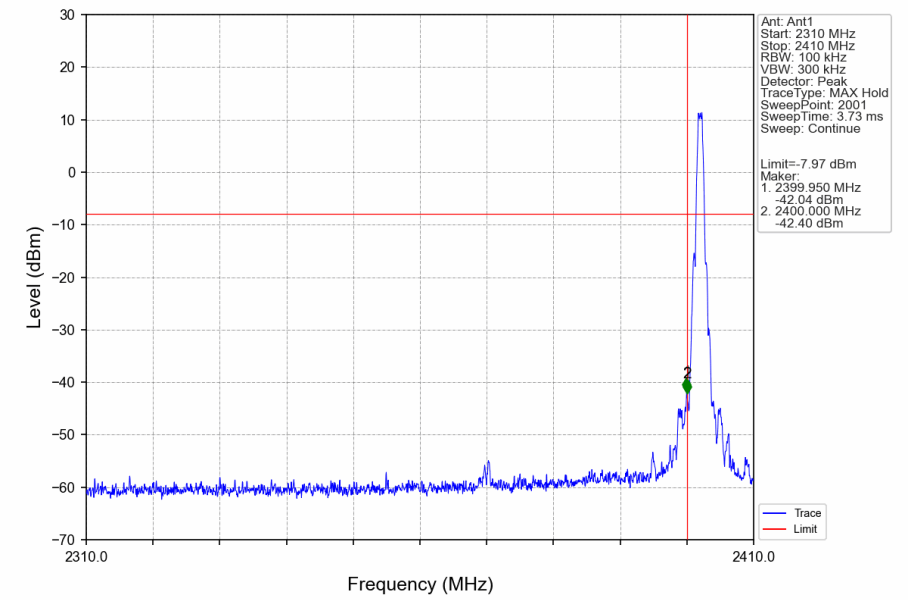


2M_HCH_2480MHz_Ant1_NTNV

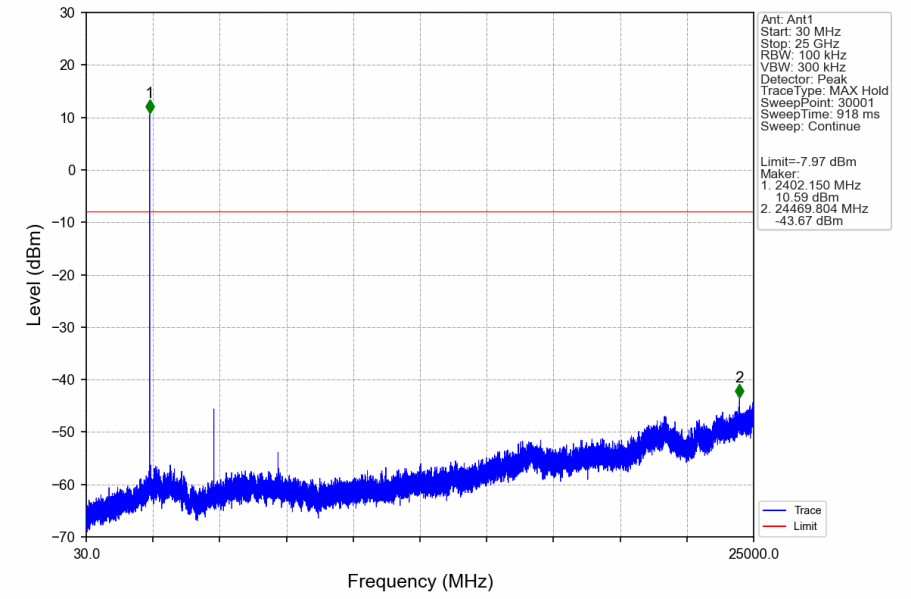


5.2.2 CSE

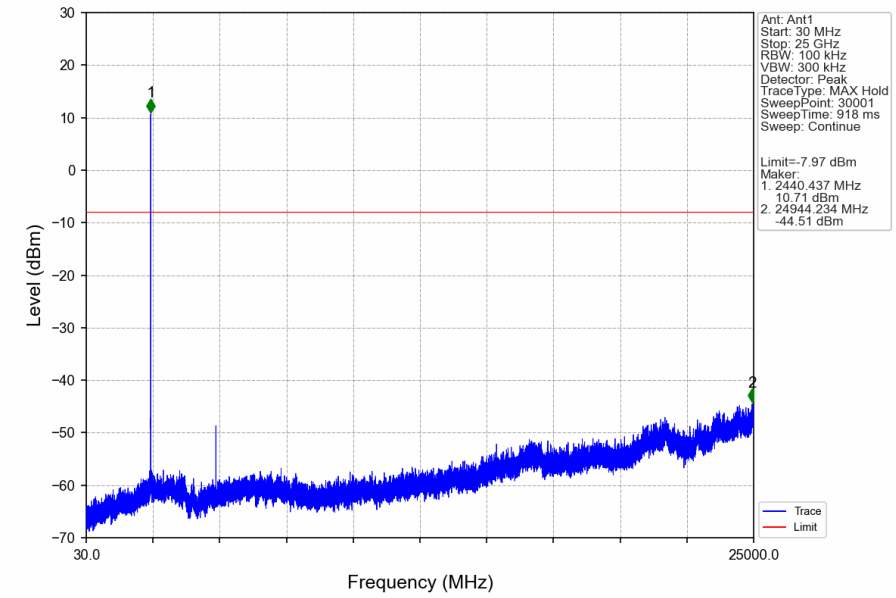
1M_LCH_2402MHz_Ant1_NTNV



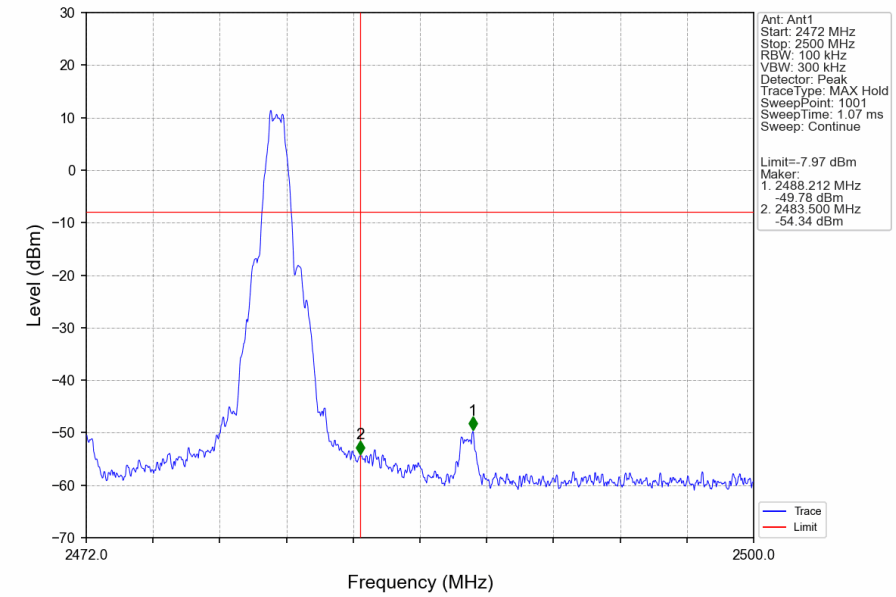
1M_LCH_2402MHz_Ant1_NTNV



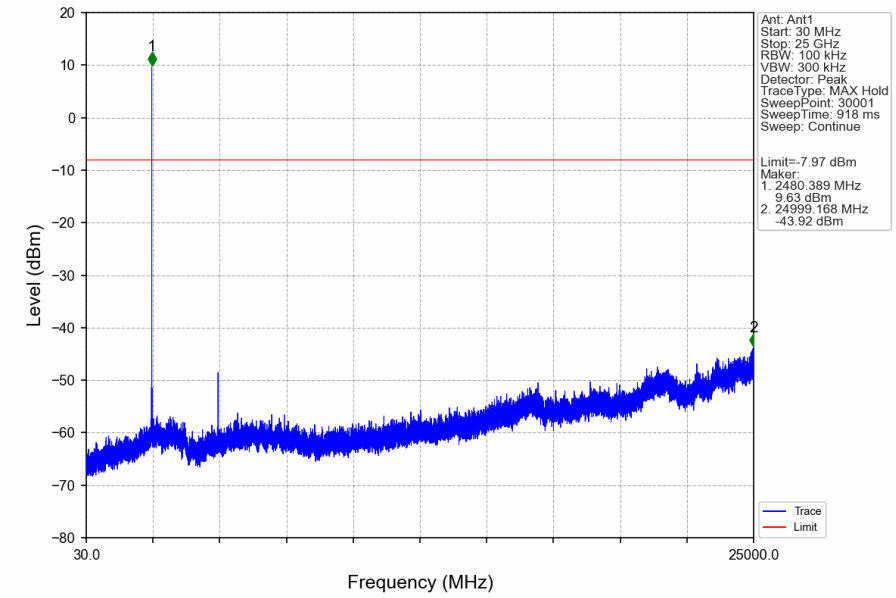
1M_MCH_2440MHz_Ant1_NTNV



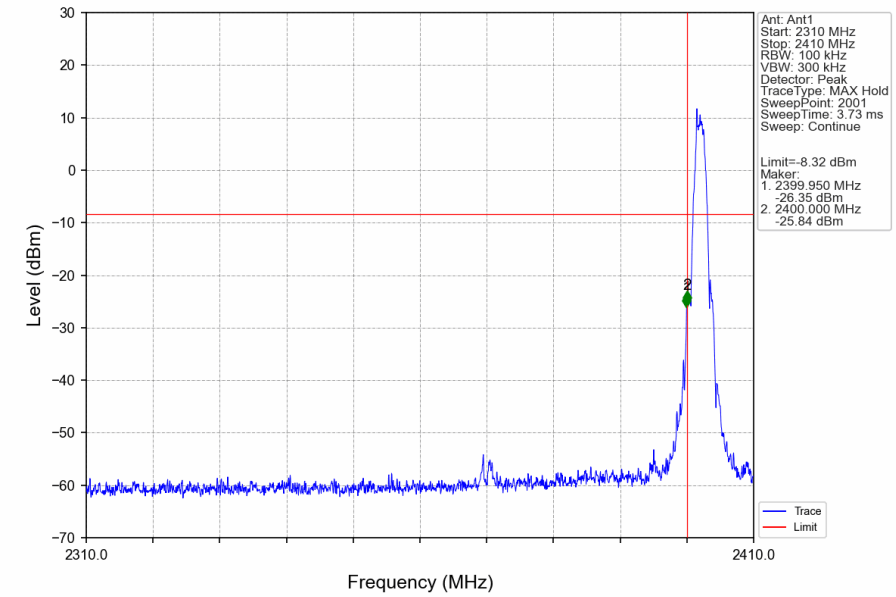
1M_HCH_2480MHz_Ant1_NTNV



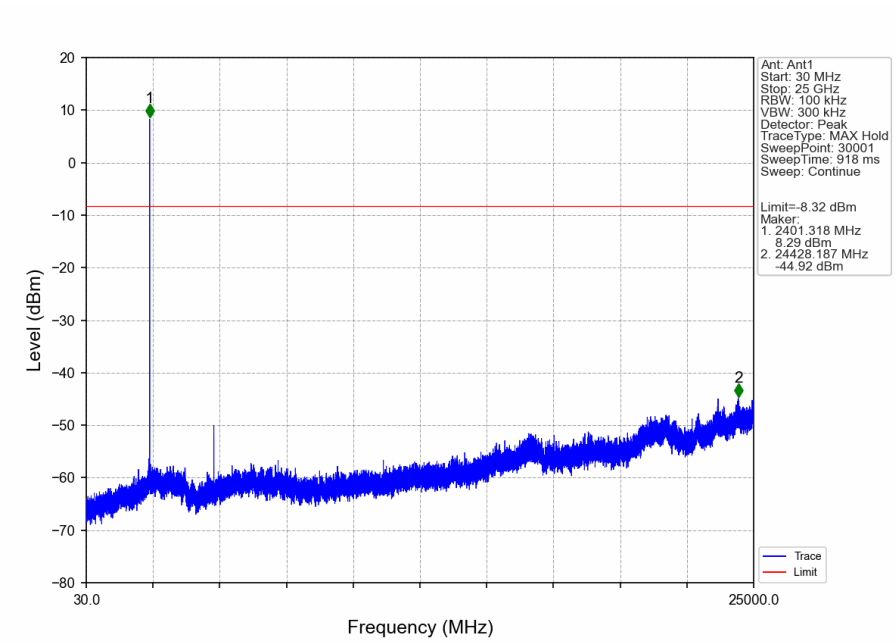
1M_HCH_2480MHz_Ant1_NTNV



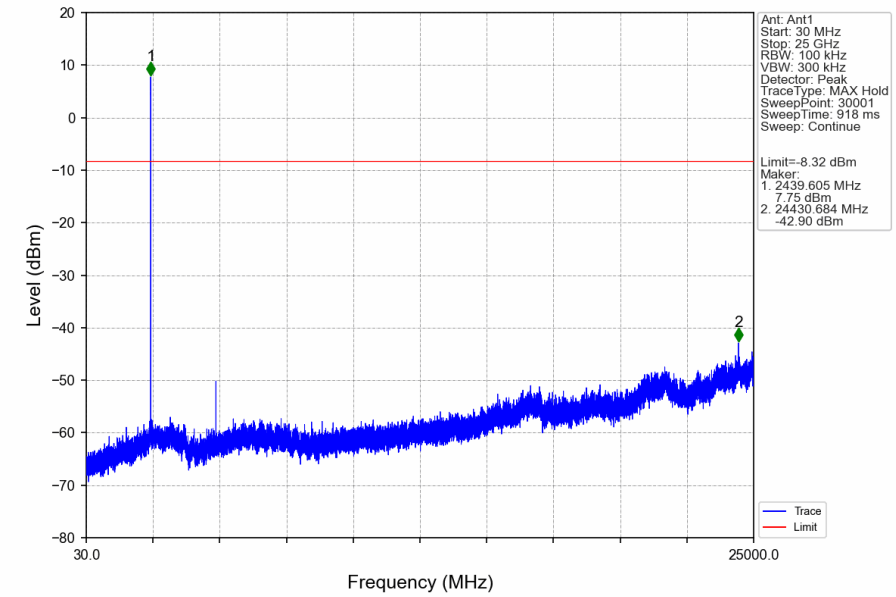
2M_LCH_2402MHz_Ant1_NTNV



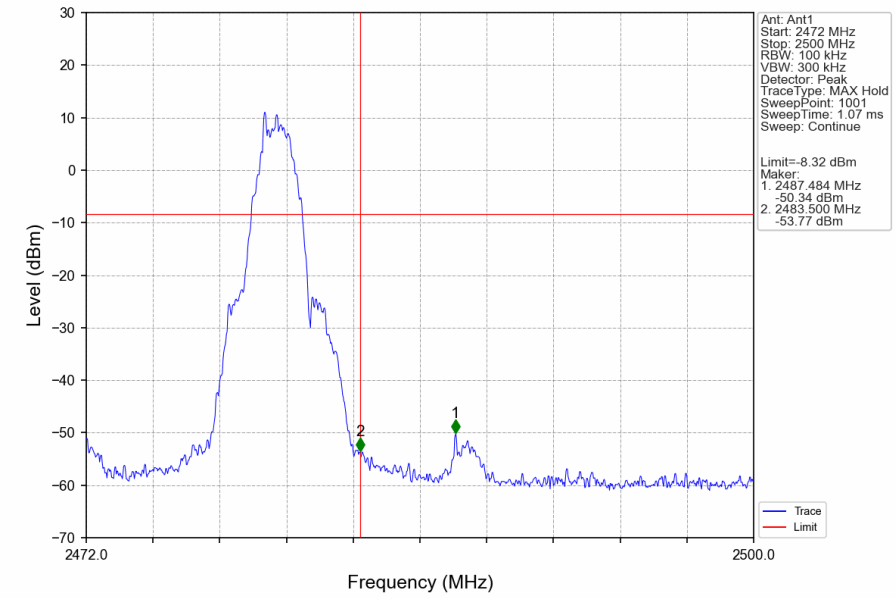
2M_LCH_2402MHz_Ant1_NTNV



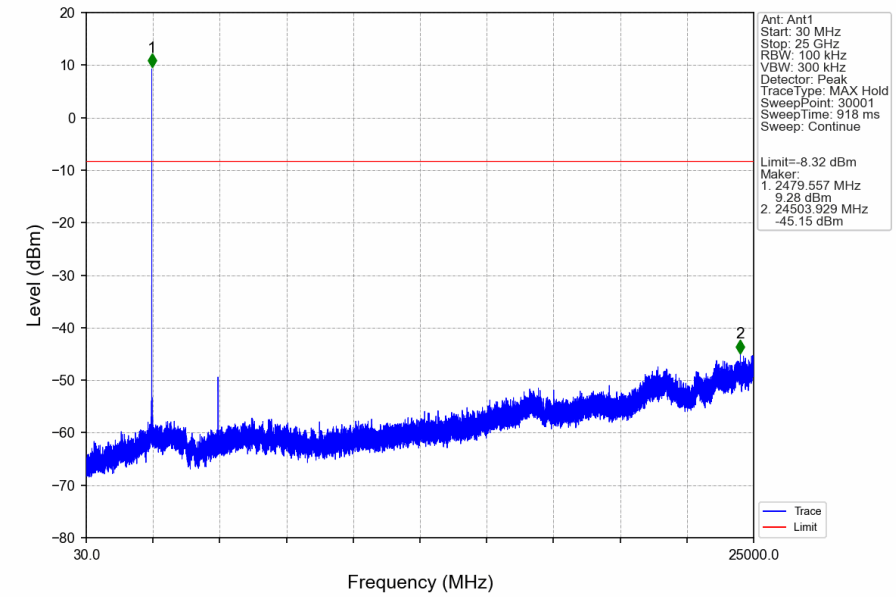
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



For left earbud:

1. Duty Cycle

1.1 Test Result

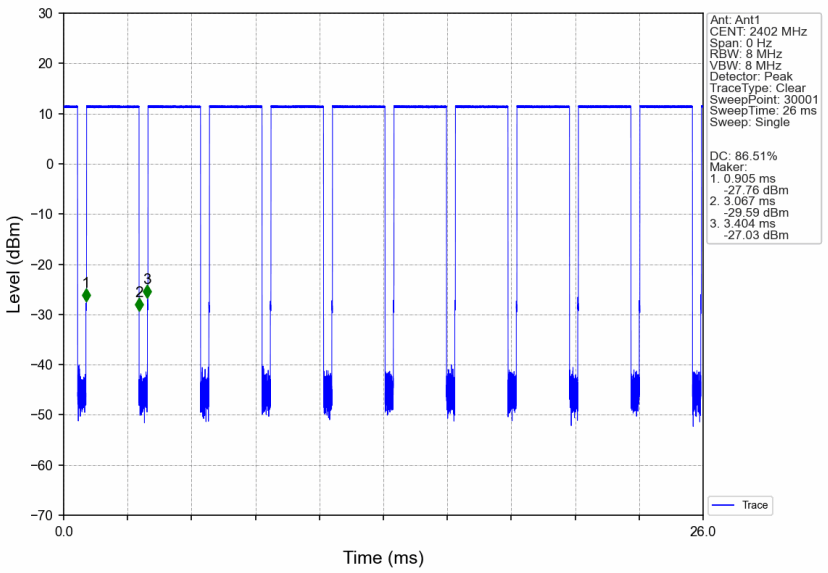
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	2.162	2.499	86.51	0.63	0.00
		2440	2.162	2.500	86.48	0.63	0.03
		2480	2.162	2.499	86.51	0.63	0.00
2M	SISO	2402	1.107	1.250	88.56	0.53	0.03
		2440	1.107	1.250	88.56	0.53	0.03
		2480	1.107	1.250	88.56	0.53	0.03

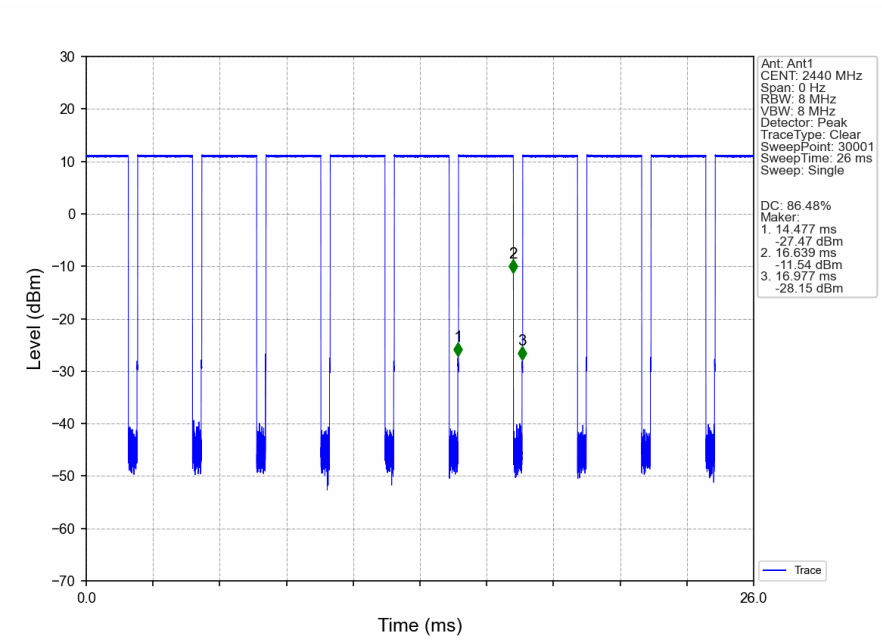
1.2 Test Graph

1.2.1 Ant1

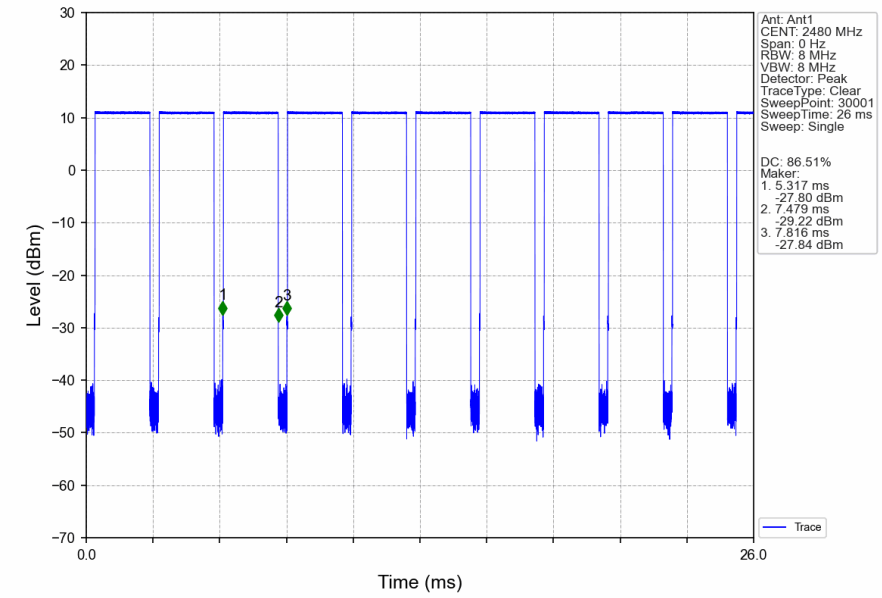
1M_LCH_2402MHz_Ant1_NTNV



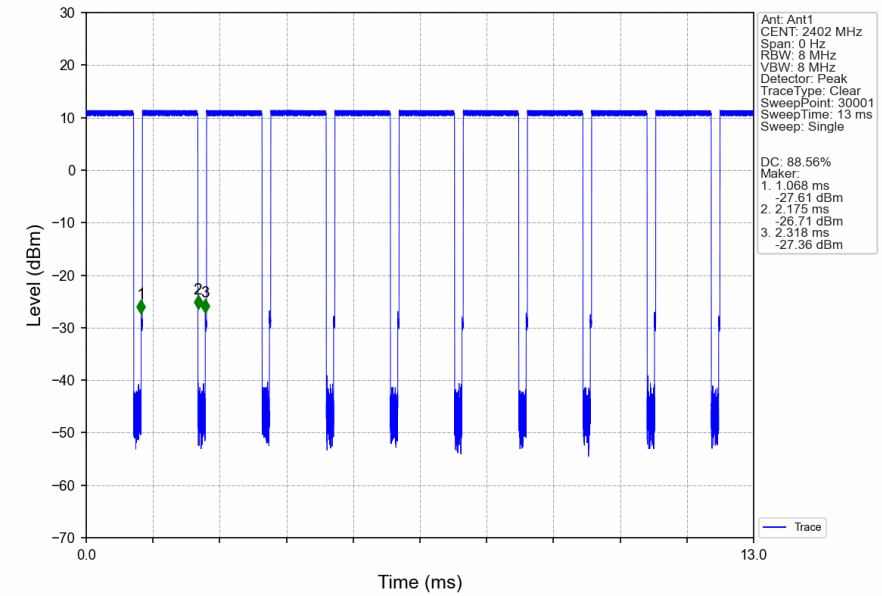
1M_MCH_2440MHz_Ant1_NTNV



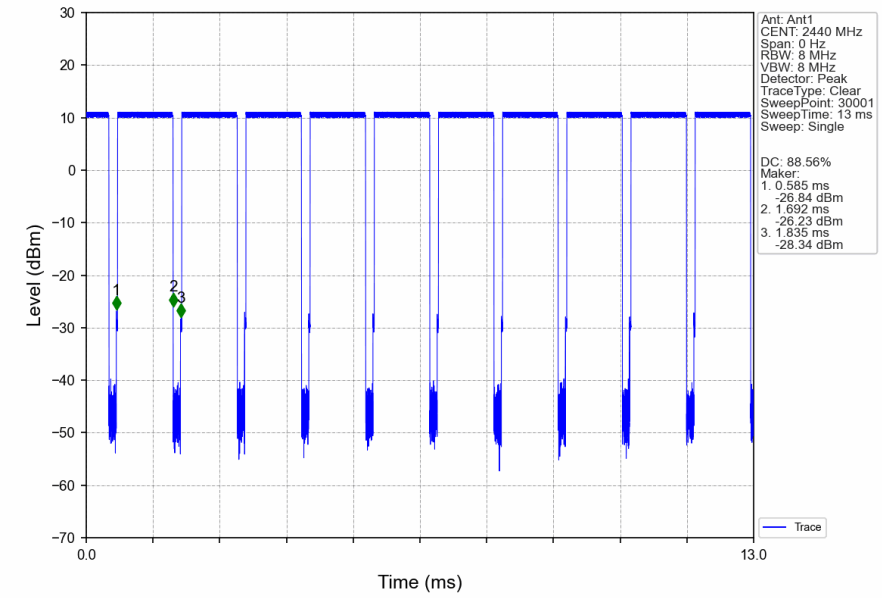
1M_HCH_2480MHz_Ant1_NTNV



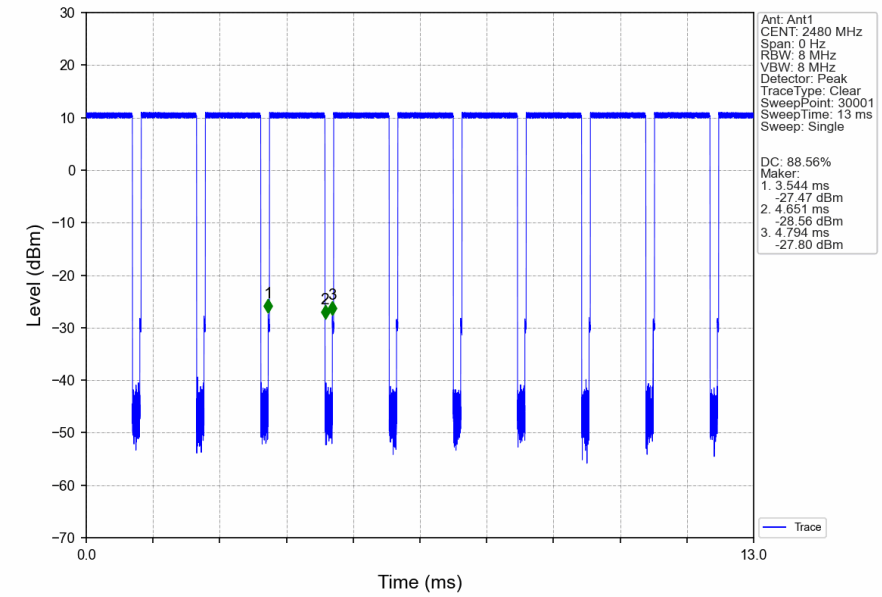
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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	1.054	/	Pass
		2440	1	1.048	/	Pass
		2480	1	1.050	/	Pass
2M	SISO	2402	1	1.924	/	Pass
		2440	1	1.931	/	Pass
		2480	1	1.940	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.696	>=0.5	Pass
		2440	1	0.689	>=0.5	Pass
		2480	1	0.672	>=0.5	Pass
2M	SISO	2402	1	1.141	>=0.5	Pass
		2440	1	1.141	>=0.5	Pass
		2480	1	1.139	>=0.5	Pass

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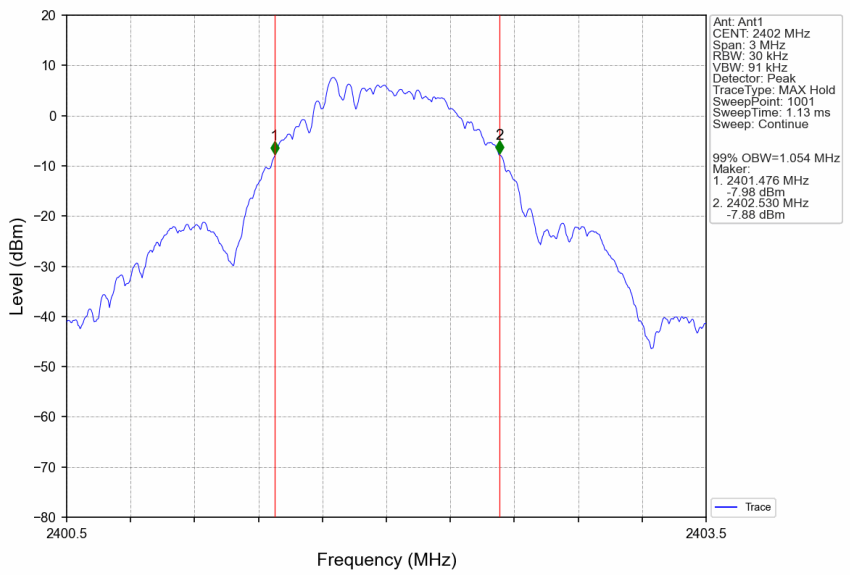
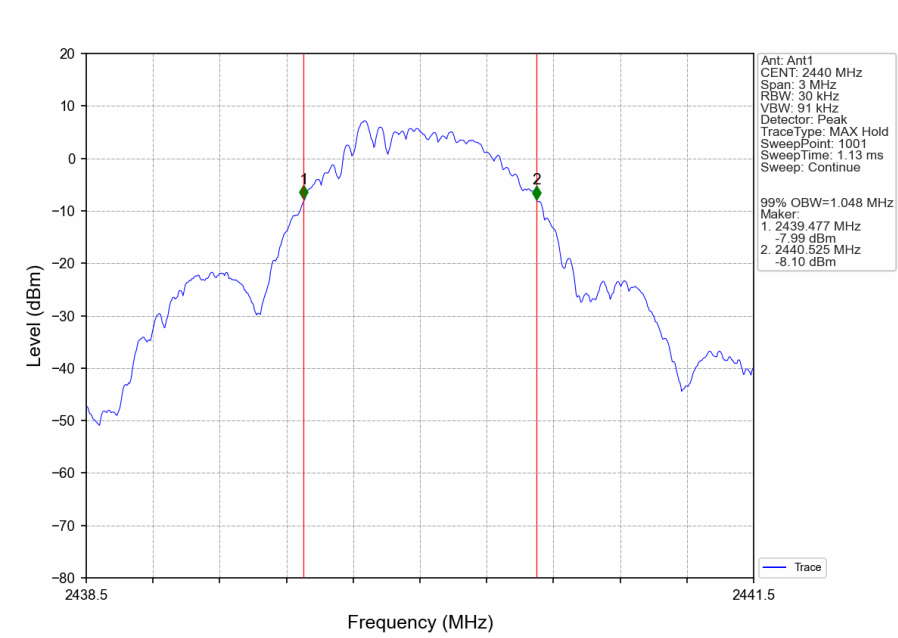
2.2 Test Graph

2.2.1 OBW

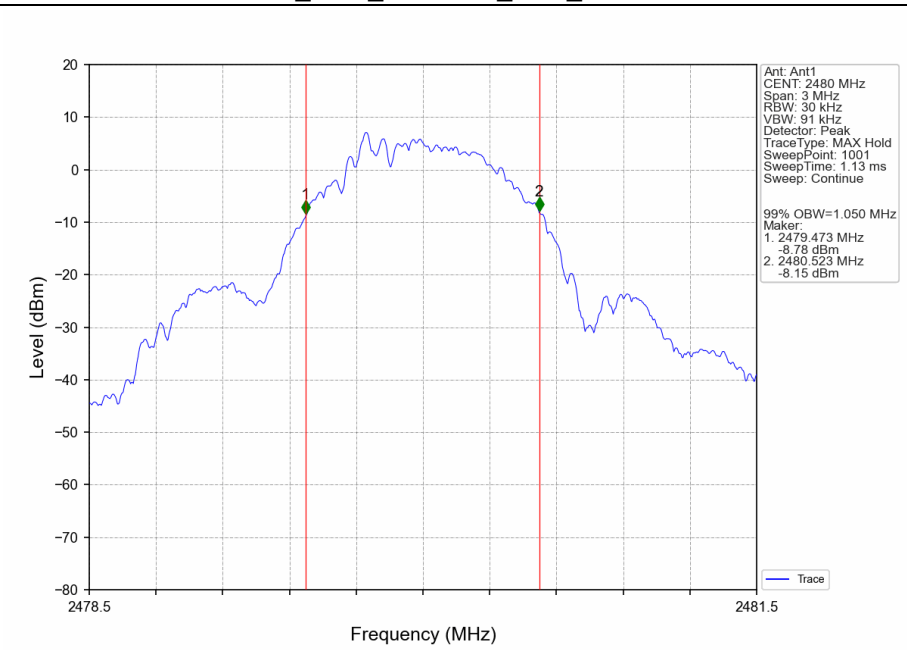
1M_LCH_2402MHz_Ant1_NTNV



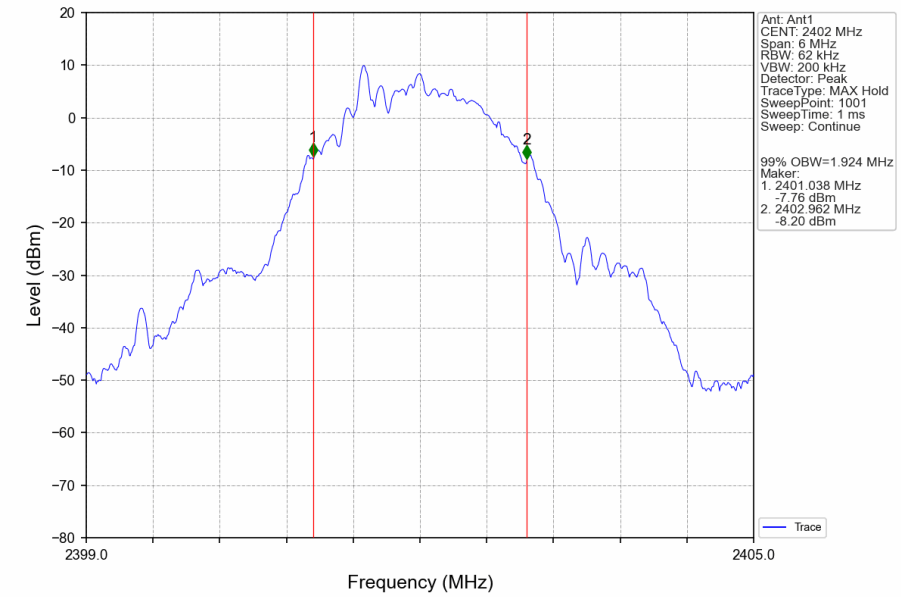
1M_MCH_2440MHz_Ant1_NTNV



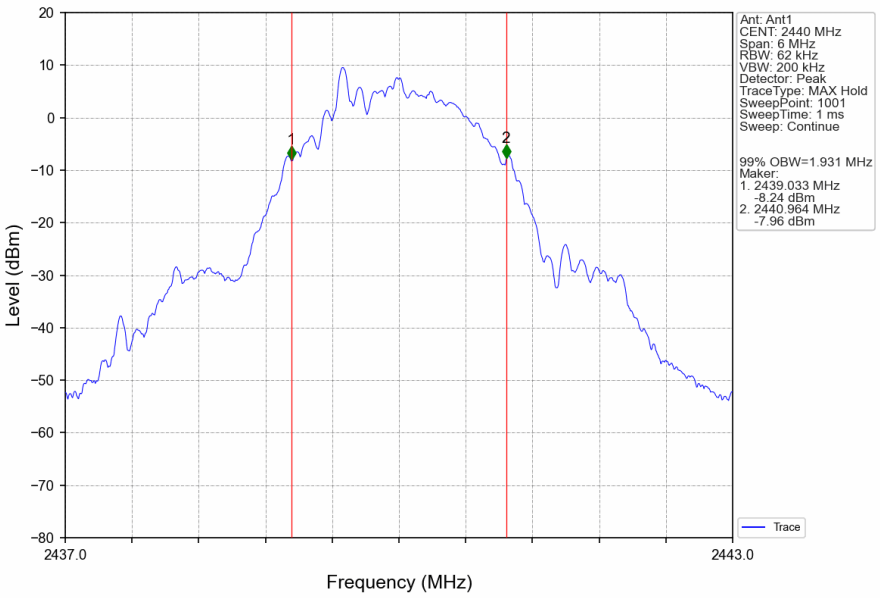
1M_HCH_2480MHz_Ant1_NTNV



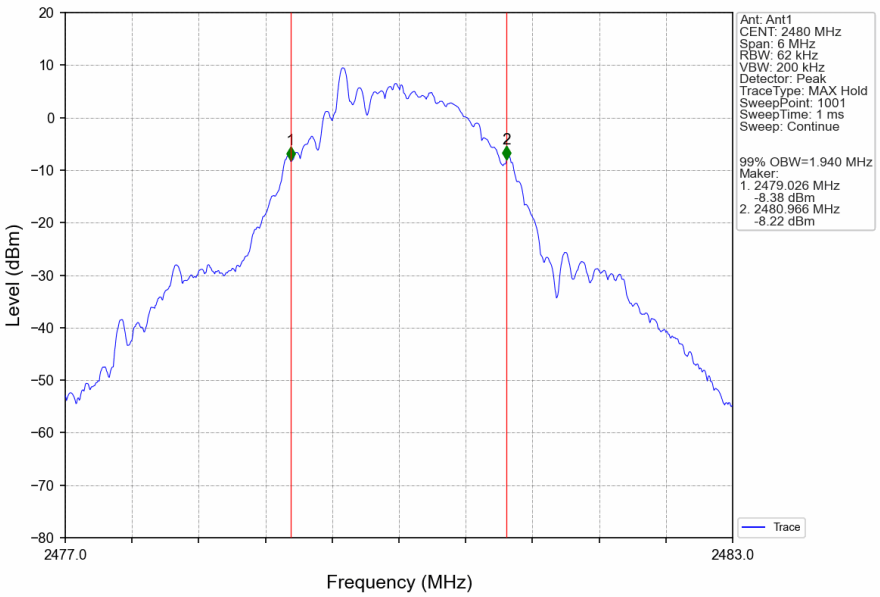
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV

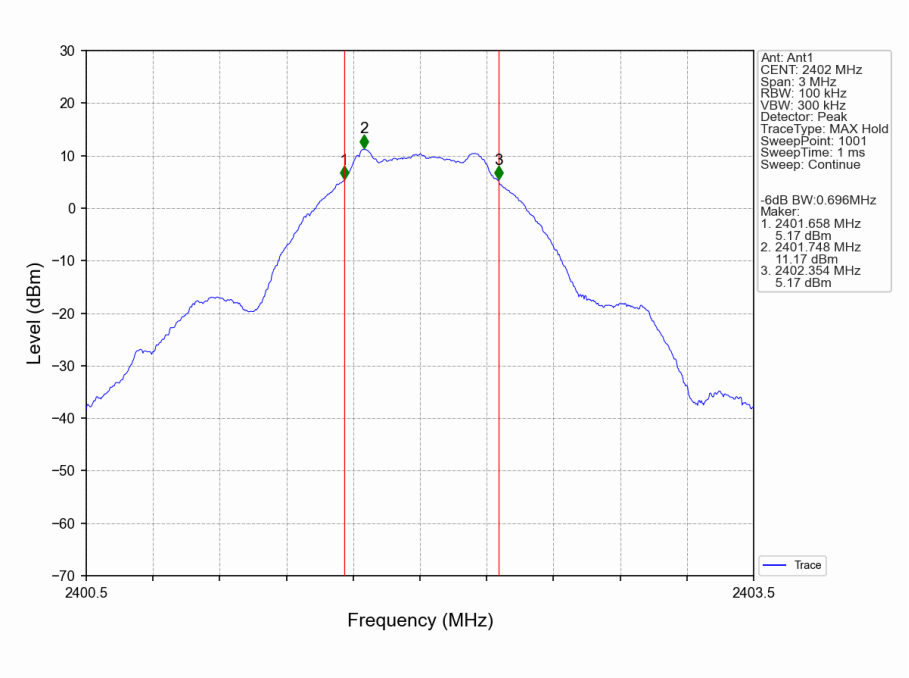


2M_HCH_2480MHz_Ant1_NTNV

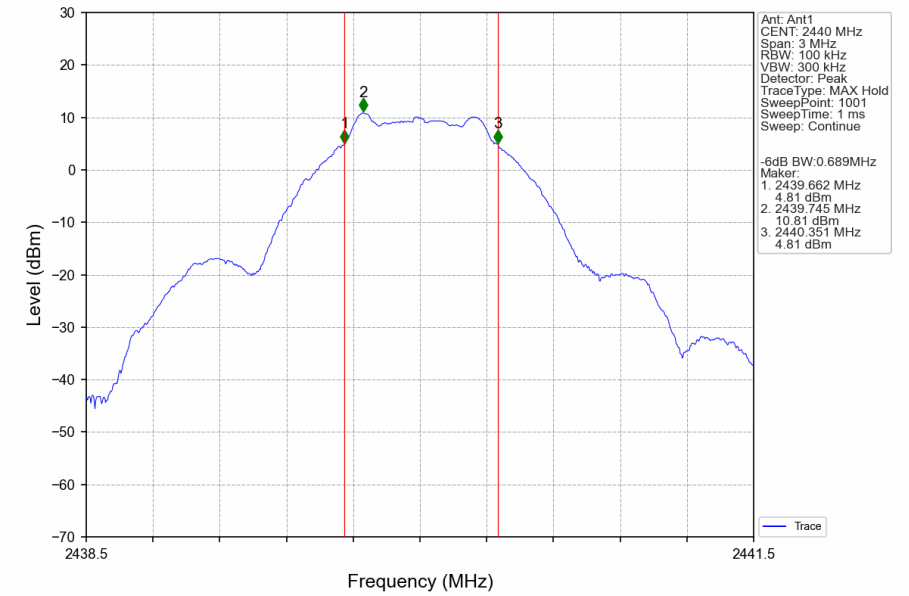


2.2.2 6dB BW

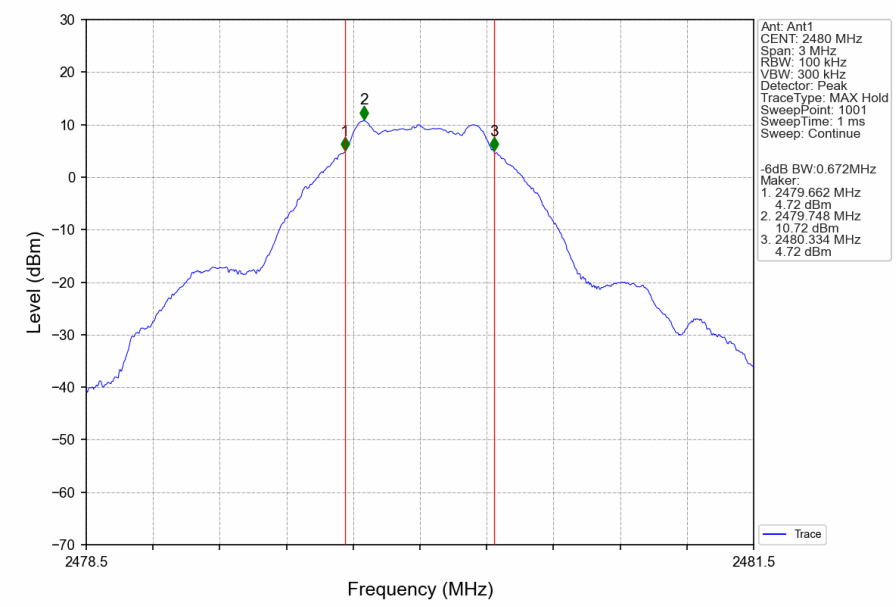
1M_LCH_2402MHz_Ant1_NTNV



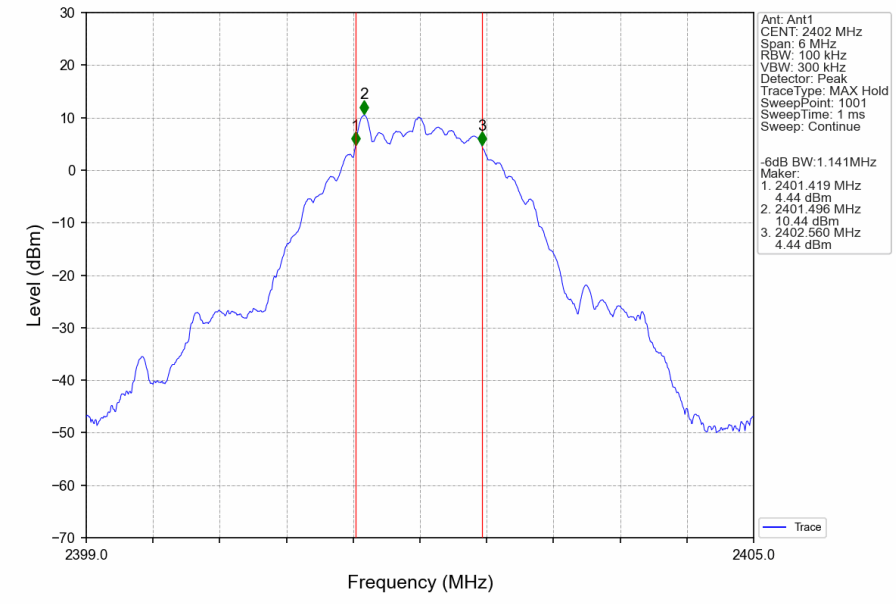
1M_MCH_2440MHz_Ant1_NTNV



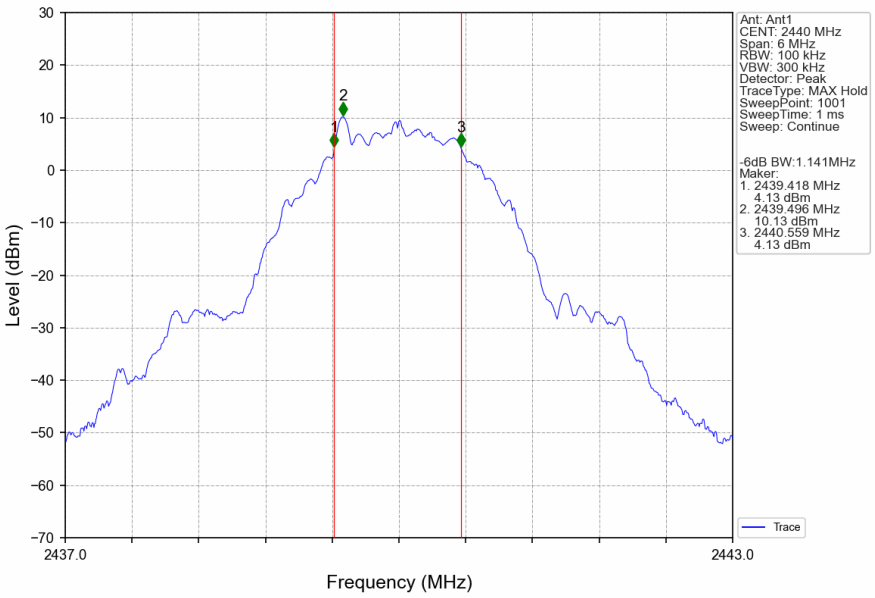
1M_HCH_2480MHz_Ant1_NTNV



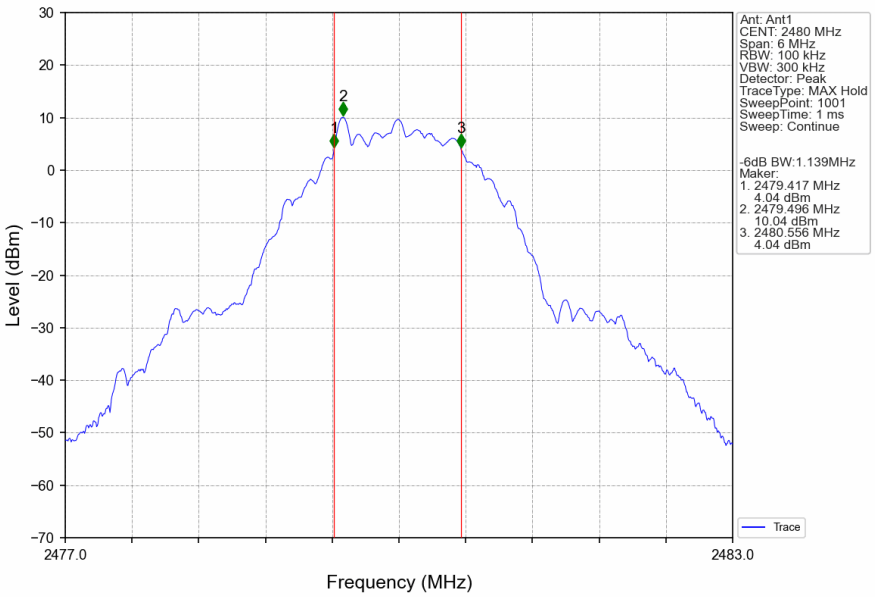
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	10.22	<=30	Pass
		2440	9.83	<=30	Pass
		2480	9.65	<=30	Pass
2M	SISO	2402	10.08	<=30	Pass
		2440	9.69	<=30	Pass
		2480	9.50	<=30	Pass
Note1: Antenna Gain: Ant1: -2.60dBi;					

4. Maximum Power Spectral Density

4.1 Test Result

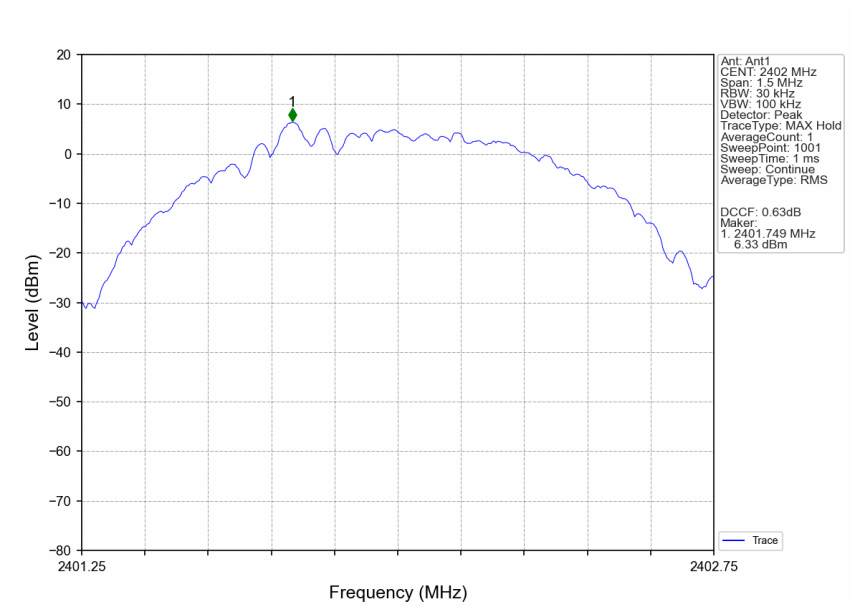
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	6.33	<=8	Pass
		2440	5.92	<=8	Pass
		2480	5.78	<=8	Pass
2M	SISO	2402	5.10	<=8	Pass
		2440	4.72	<=8	Pass
		2480	4.50	<=8	Pass
Note1: Antenna Gain: Ant1: -2.60dBi;					

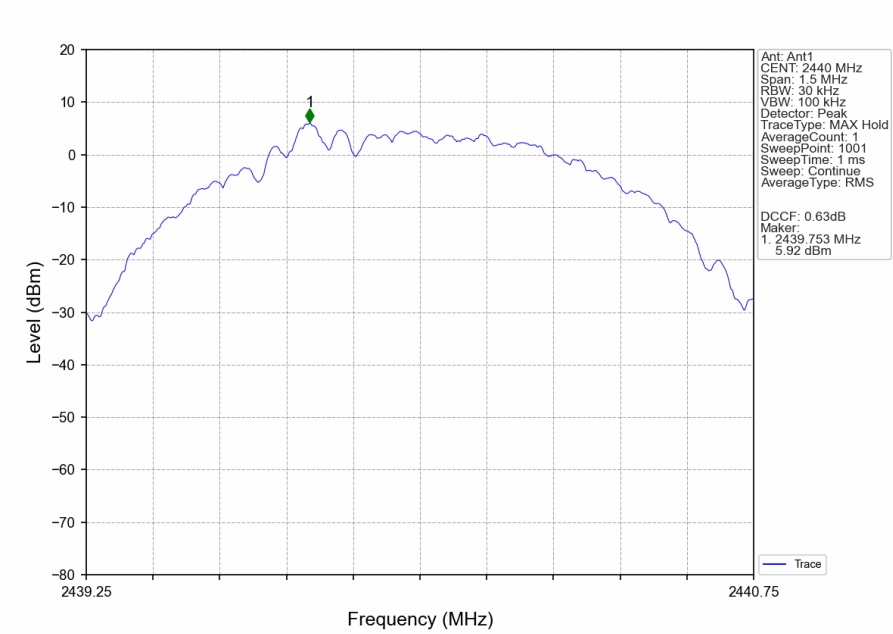
4.2 Test Graph

4.2.1 PSD

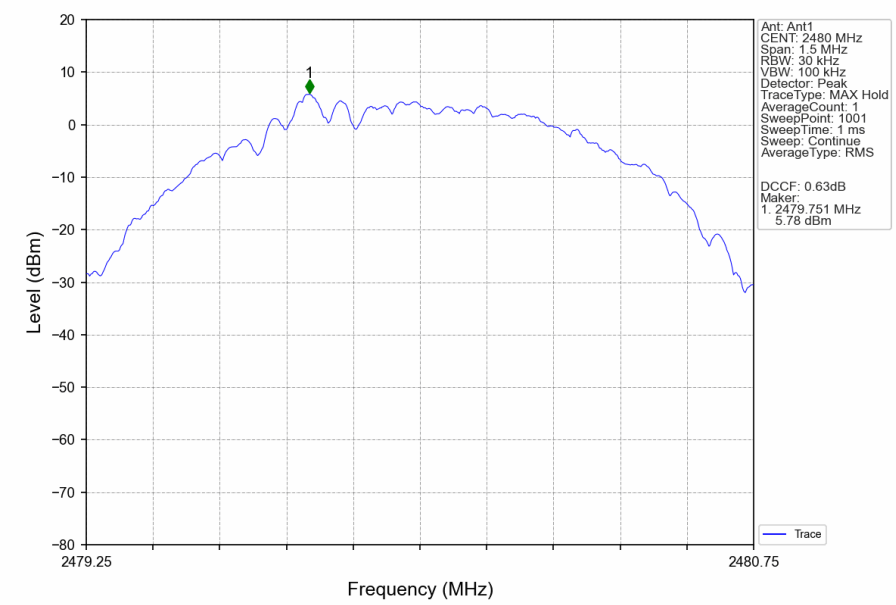
1M_LCH_2402MHz_Ant1_NTNV



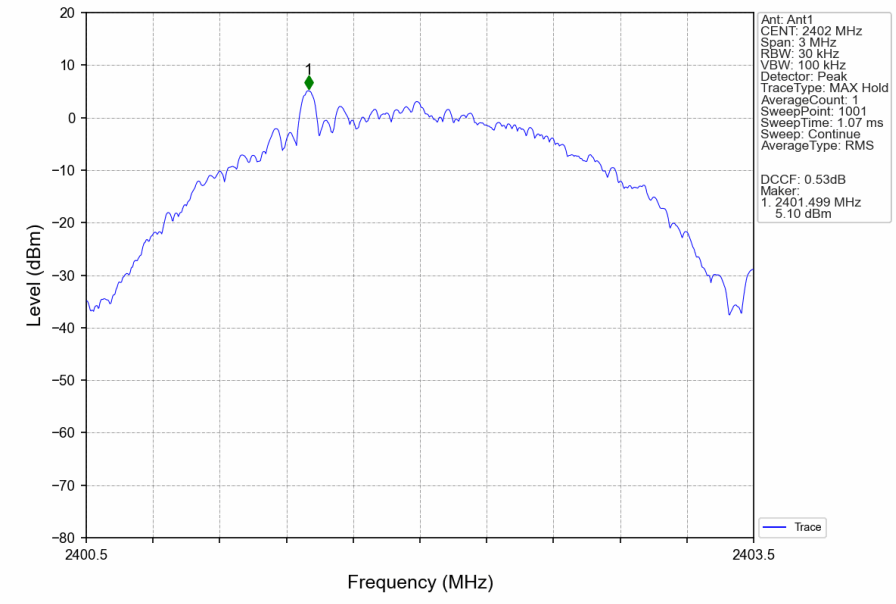
1M_MCH_2440MHz_Ant1_NTNV



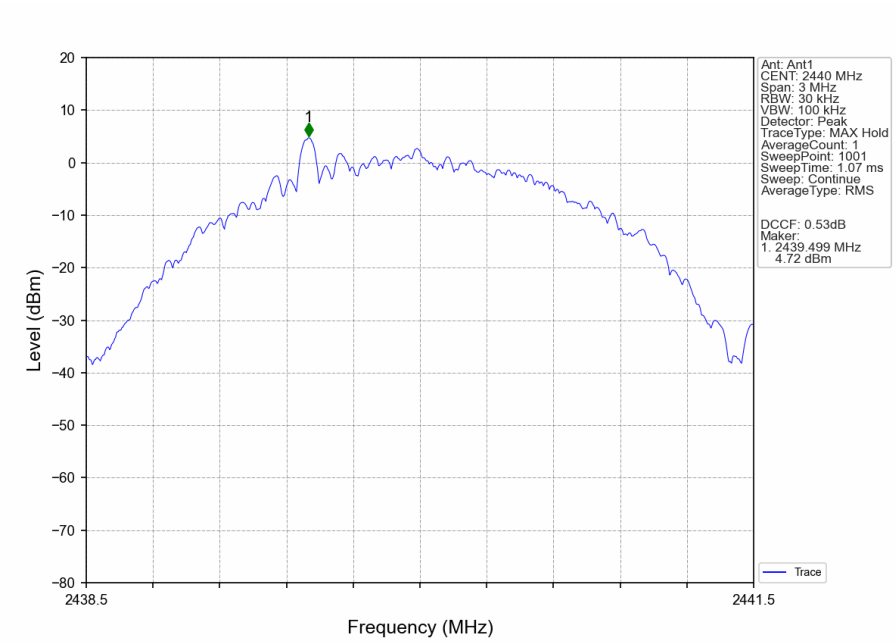
1M_HCH_2480MHz_Ant1_NTNV



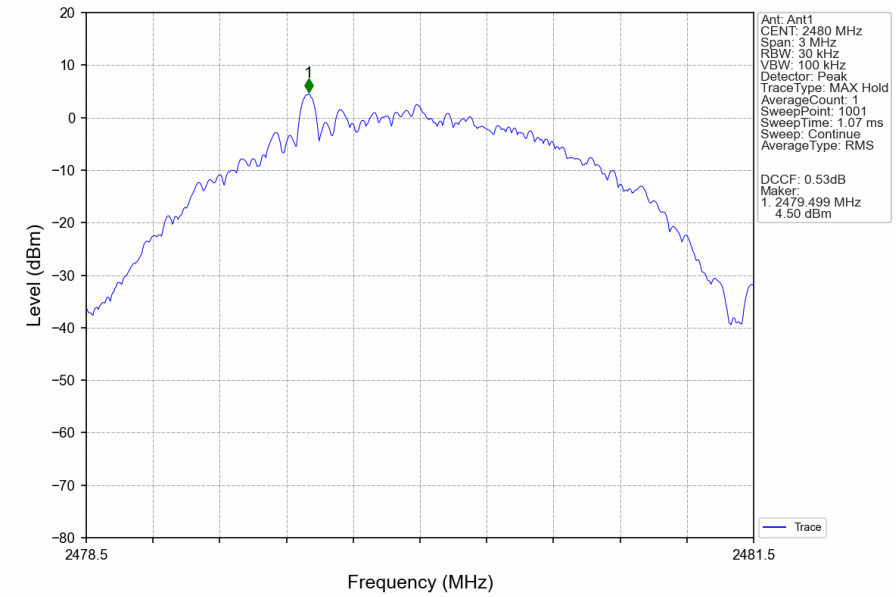
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	11.14
		2440	1	10.82
		2480	1	10.68
2M	SISO	2402	1	10.44
		2440	1	10.13
		2480	1	10.04
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.				

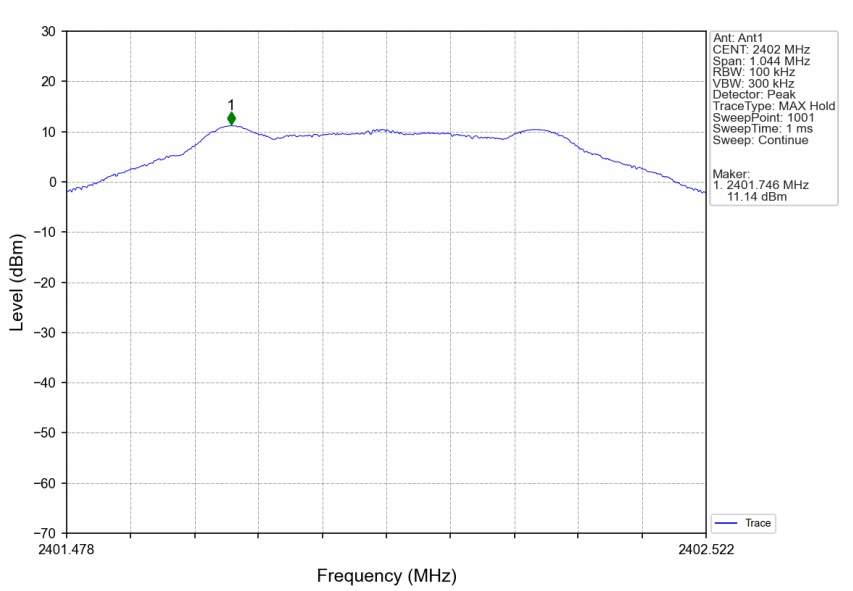
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	11.14	-8.86	Pass
		2440	1	11.14	-8.86	Pass
		2480	1	11.14	-8.86	Pass
2M	SISO	2402	1	10.44	-9.56	Pass
		2440	1	10.44	-9.56	Pass
		2480	1	10.44	-9.56	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.						

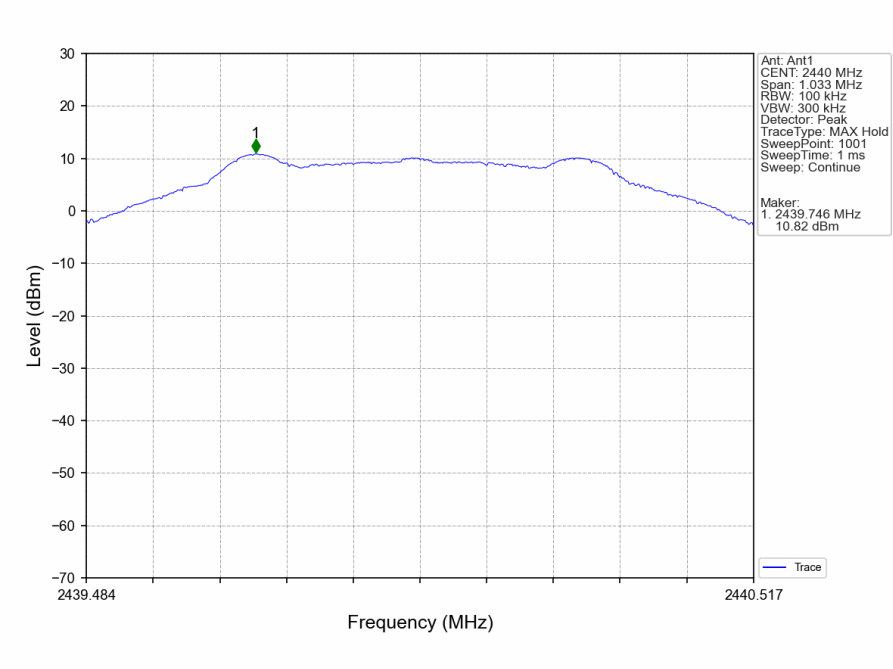
5.2 Test Graph

5.2.1 Ref

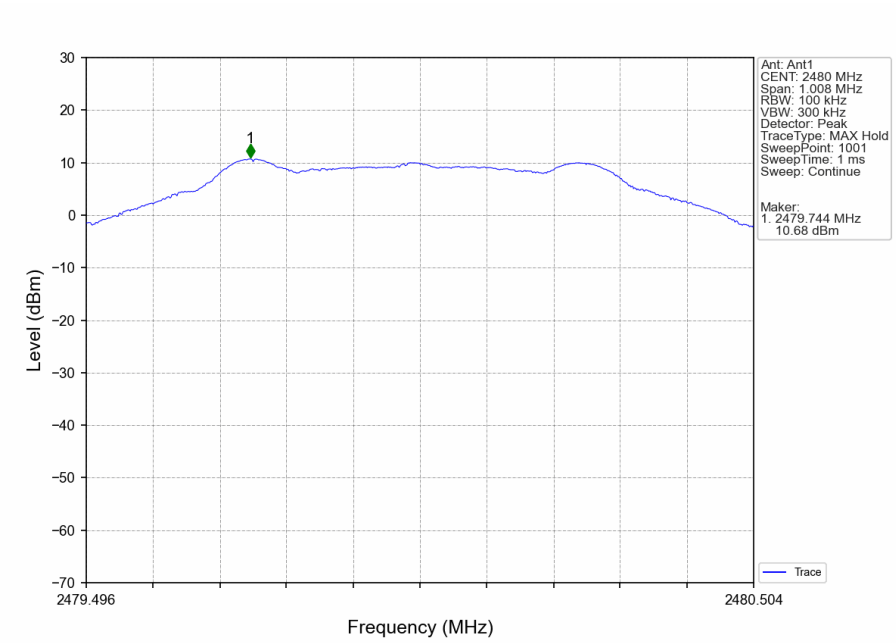
1M_LCH_2402MHz_Ant1_NTNV



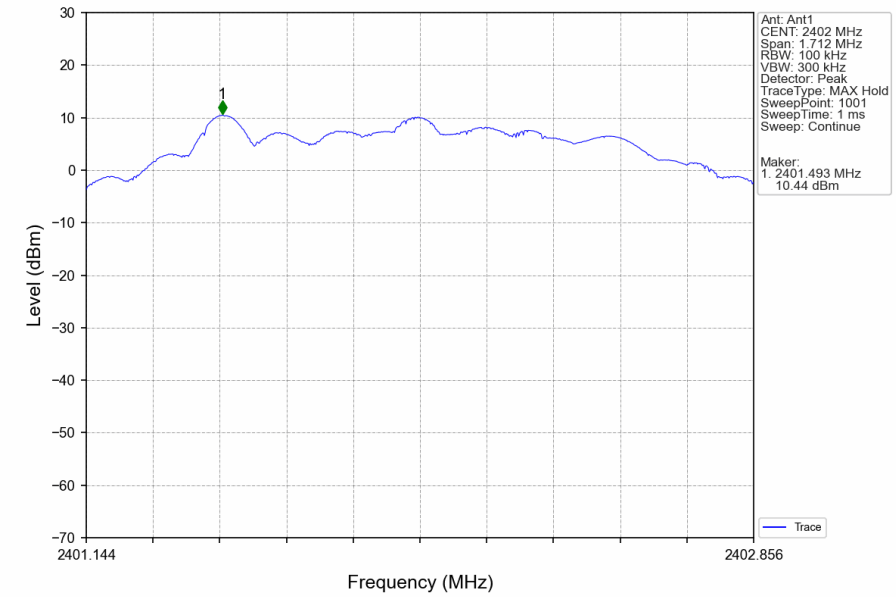
1M_MCH_2440MHz_Ant1_NTNV



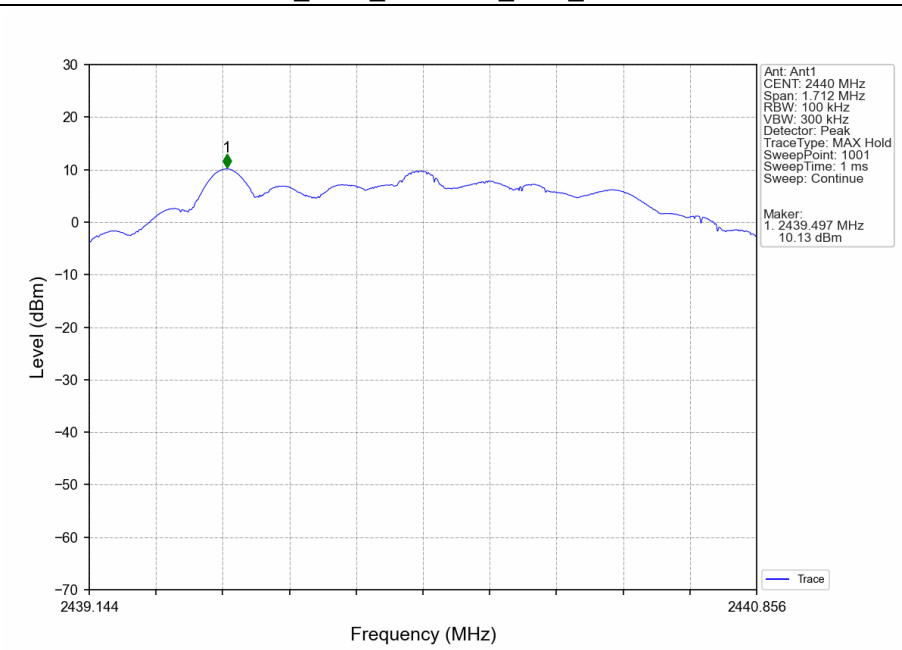
1M_HCH_2480MHz_Ant1_NTNV



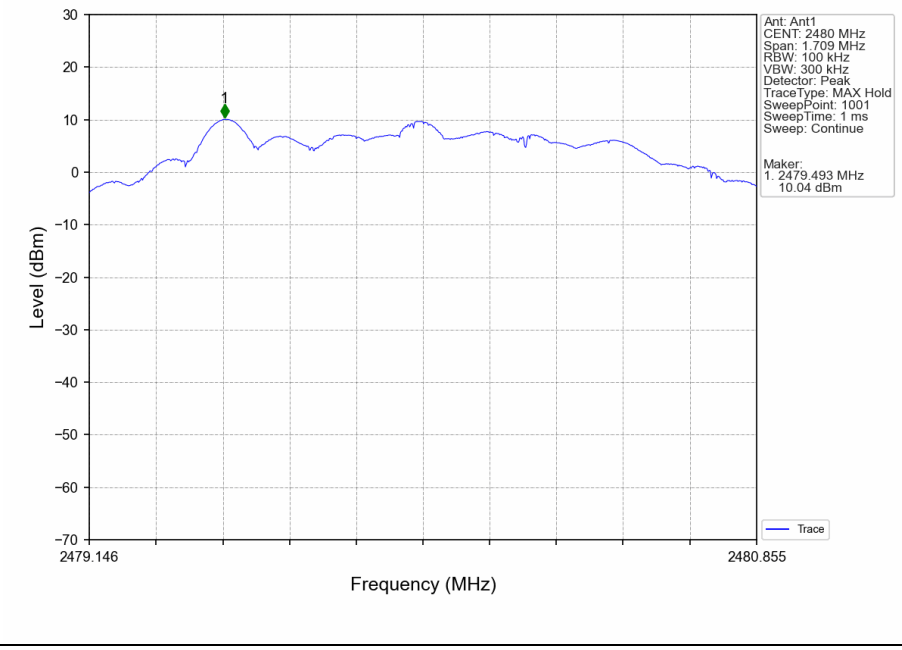
2M_LCH_2402MHz_Ant1_NTNV



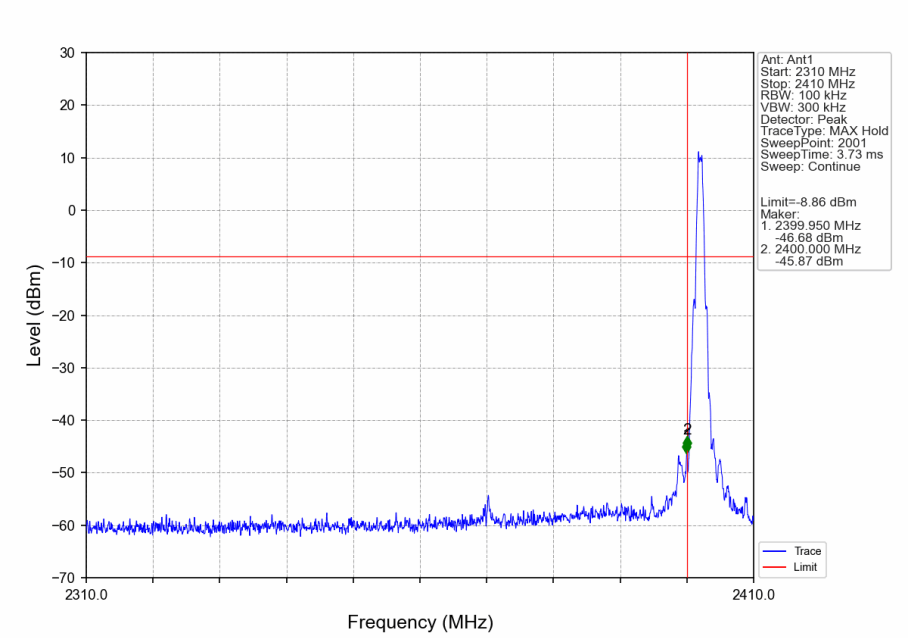
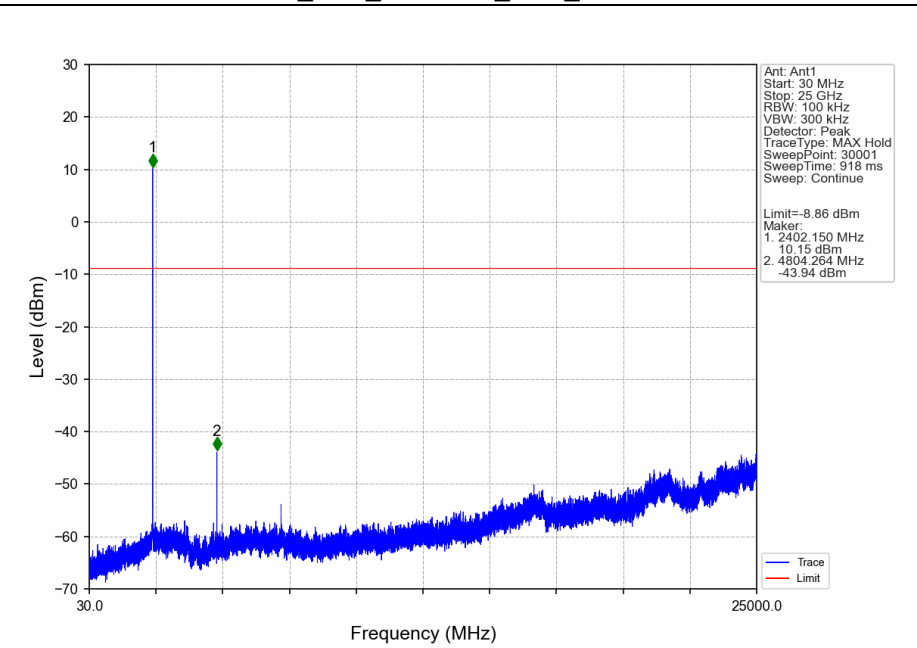
2M_MCH_2440MHz_Ant1_NTNV



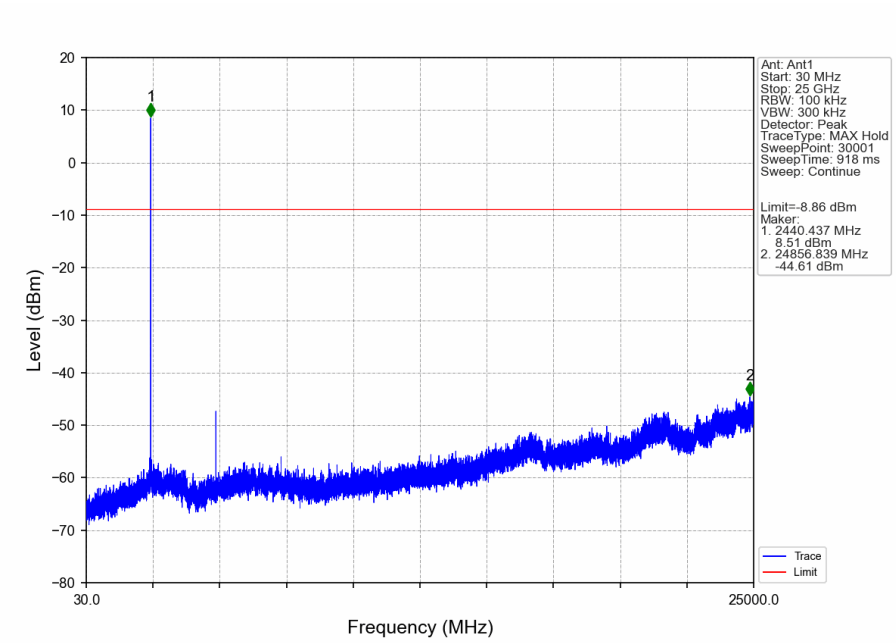
2M_HCH_2480MHz_Ant1_NTNV



5.2.2 CSE

1M_LCH_2402MHz_Ant1_NTNV

1M_LCH_2402MHz_Ant1_NTNV


1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV