

TEST REPORT

Application No.: SZCR2602000519AT

Applicant: Cosonic Intelligent Technologies Co.,Ltd.

Address of Applicant: NO.3 Keyuan Road, Songshan Lake District, Dongguan, Guangdong 523808 China

Manufacturer: Cosonic Intelligent Technologies Co., Ltd.

Address of Manufacturer: NO.3 Keyuan Road, Songshan Lake District, Dongguan City, Guangdong Province

Factory: COSONIC VIETNAM COMPANY LIMITED

Address of Factory: Lot C51, Ba Thien II Industrial Park, Thien Ke Ward, Binh Xuyen District, Vinh Phuc Province, Vietnam

Equipment Under Test (EUT):

EUT Name: ONN PRO TWS ANC

Model No.: AABLK36020845, AASLV36020845 ♣

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

Trade Mark: ONN

FCC ID: 2ALVK-ONN36020845

Standard(s) : 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2026-02-02

Date of Test: 2026-02-03 to 2026-03-18

Date of Issue: 2026-03-20

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

Keny Xu

Ken Xu
EMC Laboratory Manager



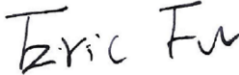
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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260200051903

Page: 2 of 95

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-03-20		Original

Authorized for issue by:				
				
		Bill Chen/Project Engineer		
				
		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 & 11.12	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 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Maximum Conducted 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 Spectral Density		ANSI C63.10 (2020) Section 11.10.3	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

Declaration of EUT Family Grouping:

Model No.: AABLK36020845, AASLV36020845

Only the model AABLK36020845 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference being of color.



3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	4
4 General Information	6
4.1 Details of E.U.T.	6
4.2 Description of Support Units	6
4.3 Measurement Uncertainty	6
4.4 Test Location	7
4.5 Test Facility	7
4.6 Deviation from Standards	7
4.7 Abnormalities from Standard Conditions	7
5 Equipment List	8
6 Radio Spectrum Technical Requirement	10
6.1 Antenna Requirement	10
6.1.1 Test Requirement:	10
6.1.2 Conclusion	10
7 Radio Spectrum Matter Test Results	11
7.1 Radiated Emissions which fall in the restricted bands	11
7.1.1 E.U.T. Operation	11
7.1.2 Test Mode Description	11
7.1.3 Test Setup Diagram	12
7.1.4 Measurement Procedure and Data	12
7.2 Radiated Spurious Emissions Below 1GHz	21
7.2.1 E.U.T. Operation	21
7.2.2 Test Mode Description	22
7.2.3 Test Setup Diagram	22
7.2.4 Measurement Procedure and Data	23
7.3 Radiated Spurious Emissions Above 1GHz	28
7.3.1 E.U.T. Operation	28
7.3.2 Test Mode Description	28
7.3.3 Test Setup Diagram	29
7.3.4 Measurement Procedure and Data	30
7.4 Maximum Conducted Output Power	39
7.4.1 E.U.T. Operation	39
7.4.2 Test Mode Description	39
7.4.3 Test Setup Diagram	40
7.4.4 Measurement Procedure and Data	40
7.5 Minimum 6dB Bandwidth	41
7.5.1 E.U.T. Operation	41



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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260200051903

Page: 5 of 95

7.5.2	Test Mode Description	41
7.5.3	Test Setup Diagram	41
7.5.4	Measurement Procedure and Data.....	41
7.6	Power Spectral Density	42
7.6.1	E.U.T. Operation	42
7.6.2	Test Mode Description	42
7.6.3	Test Setup Diagram	42
7.6.4	Measurement Procedure and Data.....	42
7.7	Conducted Band Edges Measurement	43
7.7.1	E.U.T. Operation	43
7.7.2	Test Mode Description	43
7.7.3	Test Setup Diagram	44
7.7.4	Measurement Procedure and Data.....	44
7.8	Conducted Spurious Emissions	45
7.8.1	E.U.T. Operation	45
7.8.2	Test Mode Description	45
7.8.3	Test Setup Diagram	46
7.8.4	Measurement Procedure and Data.....	46
8	Test Setup Photo	47
9	EUT Constructional Details (EUT Photos)	47
10	Appendix.....	48



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4 General Information

4.1 Details of E.U.T.

Power supply:	Lithium Ion Battery: DC 3.85V 60mAh rechargeable battery which charged by charging case for left earbud and right earbud Lithium Ion Battery: DC 3.7V 500mAh rechargeable battery which charged by USB port for charging case
Cable(s):	Type C cable: 23cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Rate data:	1Mbps and 2Mbps
Antenna Type:	PIFA
Antenna Gain:	Left earbud:-3.2dBi Right earbud:-2.4dBi

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	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Spurious Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Maximum Conducted Output Power	$\pm 0.4\text{dB}$
Minimum 6dB Bandwidth	$\pm 0.3\%$
Power Spectral Density	$\pm 0.4\text{dB}$
Conducted Band Edges Measurement	$\pm 2.7\text{dB}$
Conducted Spurious Emissions	$\pm 2.7\text{dB}$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260200051903

Page: 7 of 95

4.4 Test Location

All tests were performed at:

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

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No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

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

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2026-02-02	2027-02-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-12-16	2026-12-15
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260200051903

Page: 9 of 95

Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22

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	TST PASS	TSPS2023R	SEM009-26	2026-02-04	2027-02-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2026-02-04	2027-02-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2026-02-03	2027-02-02
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	2026-02-02	2027-02-01

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
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2026-02-14	2027-02-13



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Left earbud:-3.2dBi Right earbud:-2.4dBi.

Antenna location: Refer to internal photo.



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 & 11.12

Measurement Distance: 3m

Test Engineer: Mihawk Li

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: 22.5 °C

Humidity: 56.9 % RH

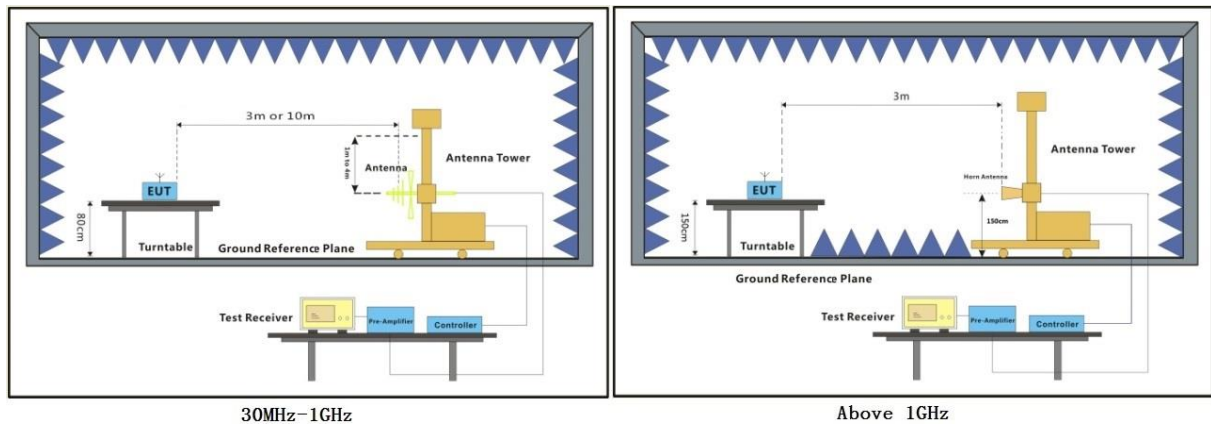
Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.



7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

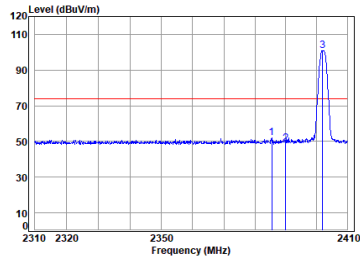
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters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

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

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.



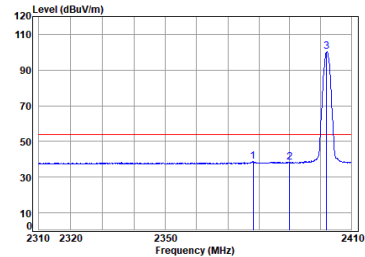
BLE_1M_TX_CH_00_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2402 Band edge
BLE 1M L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2385.418	6.82	27.67	30.60	47.94	51.83	74.00	-22.17	Peak	0.00
2	2390.000	6.83	27.68	30.60	44.98	48.89	74.00	-25.11	Peak	0.00
3 pp	2402.000	6.84	27.70	30.60	97.08	101.92	74.00	27.92	Peak	0.00

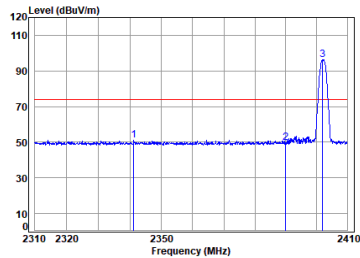
BLE_1M_TX_CH_00_Horizontal-AVG



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2402 Band edge
BLE 1M L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2378.142	6.82	27.66	30.60	34.99	38.87	54.00	-15.13	Average	0.00
2	2390.000	6.83	27.68	30.60	34.35	38.26	54.00	-15.74	Average	0.00
3 pp	2402.000	6.84	27.70	30.60	96.28	100.22	54.00	46.22	Average	0.00

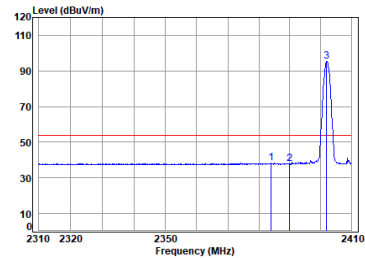
BLE_1M_TX_CH_00_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2402 Band edge
BLE 1M L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2341.242	6.00	27.60	30.60	47.18	50.98	74.00	-23.02	Peak	0.00
2	2390.000	6.83	27.68	30.60	45.62	49.53	74.00	-24.47	Peak	0.00
3 pp	2402.000	6.84	27.70	30.60	92.15	96.09	74.00	22.09	Peak	0.00

BLE_1M_TX_CH_00_Vertical-AVG

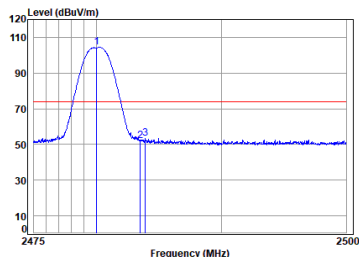


Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2402 Band edge
BLE 1M L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2383.995	6.82	27.67	30.60	34.24	38.13	54.00	-15.87	Average	0.00
2	2390.000	6.83	27.68	30.60	33.76	37.67	54.00	-16.33	Average	0.00
3 pp	2402.000	6.84	27.70	30.60	91.62	95.56	54.00	41.56	Average	0.00



BLE_1M_TX_CH_39_Horizontal-Peak



Condition: 3m HORIZONTAL

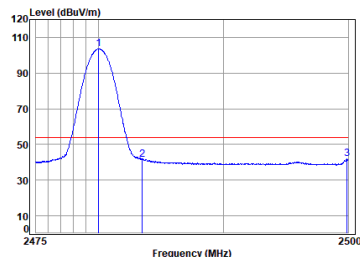
Job No : 00519AT

Mode : 2480 Band edge

: BLE 1M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	pp 2480.000	7.38	27.92	30.60	99.69	104.39	74.00	30.39	Peak	0.00	
2	2483.500	7.40	27.93	30.60	47.48	52.21	74.00	-21.79	Peak	0.00	
3	2483.896	7.40	27.94	30.60	48.82	53.56	74.00	-20.44	Peak	0.00	

BLE_1M_TX_CH_39_Horizontal-AVG



Condition: 3m HORIZONTAL

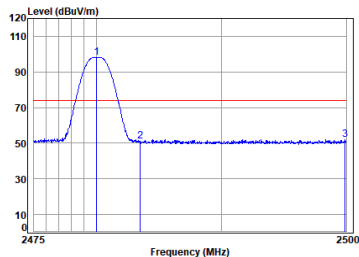
Job No : 00519AT

Mode : 2480 Band edge

: BLE 1M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	pp 2480.000	7.38	27.92	30.60	98.87	103.57	54.00	49.57	Average	0.00	
2	2483.500	7.40	27.93	30.60	36.87	41.60	54.00	-12.40	Average	0.00	
3	2499.925	7.51	28.00	30.60	37.08	41.99	54.00	-12.01	Average	0.00	

BLE_1M_TX_CH_39_Vertical-Peak



Condition: 3m VERTICAL

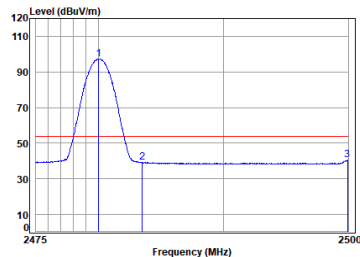
Job No : 00519AT

Mode : 2480 Band edge

: BLE 1M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	pp 2480.000	7.38	27.92	30.60	93.40	98.10	74.00	24.10	Peak	0.00	
2	2483.500	7.40	27.93	30.60	46.31	51.04	74.00	-22.96	Peak	0.00	
3	2499.899	7.51	28.00	30.60	47.19	52.10	74.00	-21.90	Peak	0.00	

BLE_1M_TX_CH_39_Vertical-AVG



Condition: 3m VERTICAL

Job No : 00519AT

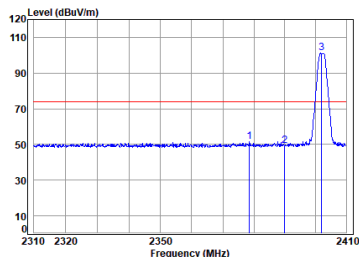
Mode : 2480 Band edge

: BLE 1M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	pp 2480.000	7.38	27.92	30.60	92.65	97.35	54.00	43.35	Average	0.00	
2	2483.500	7.40	27.93	30.60	34.60	39.33	54.00	-14.67	Average	0.00	
3	2499.950	7.51	28.00	30.60	35.55	40.46	54.00	-13.54	Average	0.00	



BLE_2M_TX_CH_00_Horizontal-Peak



Condition: 3m HORIZONTAL

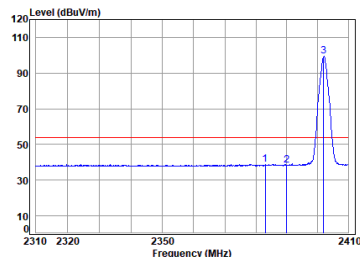
Job No : 00519AT

Mode : 2402 Band edge

: BLE 2M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	2378.546	6.82	27.66	30.60	47.66	51.54	74.00	-22.46	Peak		0.00
2	2390.000	6.83	27.68	30.60	45.35	49.26	74.00	-24.74	Peak		0.00
3 pp	2402.000	6.84	27.70	30.60	97.13	101.07	74.00	27.07	Peak		0.00

BLE_2M_TX_CH_00_Horizontal-AVG



Condition: 3m HORIZONTAL

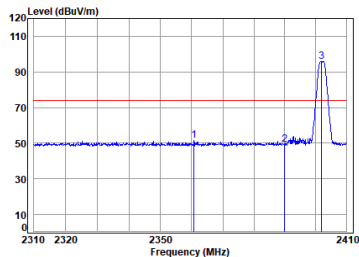
Job No : 00519AT

Mode : 2402 Band edge

: BLE 2M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	2378.546	6.82	27.66	30.60	47.66	51.54	74.00	-22.46	Average		0.00
2	2390.000	6.83	27.68	30.60	45.35	49.26	74.00	-24.74	Average		0.00
3 pp	2402.000	6.84	27.70	30.60	95.35	99.29	74.00	25.29	Average		0.00

BLE_2M_TX_CH_00_Vertical-Peak



Condition: 3m VERTICAL

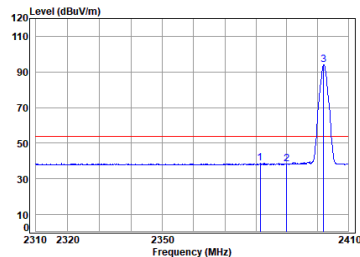
Job No : 00519AT

Mode : 2402 Band edge

: BLE 2M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	2360.771	6.81	27.62	30.60	47.62	51.45	74.00	-22.55	Peak		0.00
2	2390.000	6.83	27.68	30.60	45.36	49.27	74.00	-24.73	Peak		0.00
3 pp	2402.000	6.84	27.70	30.60	91.95	95.89	74.00	21.89	Peak		0.00

BLE_2M_TX_CH_00_Vertical-AVG



Condition: 3m VERTICAL

Job No : 00519AT

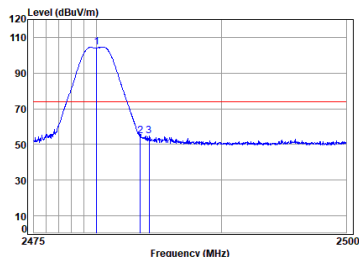
Mode : 2402 Band edge

: BLE 2M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	2360.771	6.82	27.66	30.60	47.66	51.54	74.00	-22.46	Average		0.00
2	2390.000	6.83	27.68	30.60	45.35	49.26	74.00	-24.74	Average		0.00
3 pp	2402.000	6.84	27.70	30.60	90.26	94.20	74.00	20.20	Average		0.00



BLE_2M_TX_CH_39_Horizontal-Peak



Condition: 3m HORIZONTAL

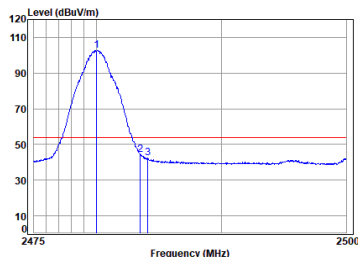
Job No : 00519AT

Mode : 2480 Band edge

: BLE 2M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	Factor
1	pp 2480.000	7.38	27.92	30.60		99.94	104.64	74.00	30.64	Peak 0.00
2	2483.500	7.40	27.93	30.60		49.81	54.54	74.00	-19.46	Peak 0.00
3	2484.196	7.40	27.94	30.60		49.89	54.63	74.00	-19.37	Peak 0.00

BLE_2M_TX_CH_39_Horizontal-AVG



Condition: 3m HORIZONTAL

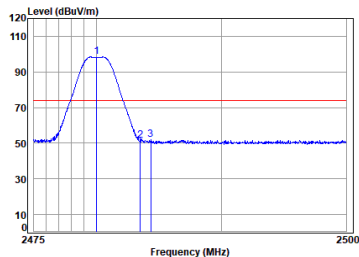
Job No : 00519AT

Mode : 2480 Band edge

: BLE 2M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	Factor
1	pp 2480.000	7.38	27.92	30.60		97.93	102.63	54.00	48.63	Average 0.00
2	2483.500	7.40	27.93	30.60		39.69	44.42	54.00	-9.58	Average 0.00
3	2484.096	7.40	27.94	30.60		37.73	42.47	54.00	-11.53	Average 0.00

BLE_2M_TX_CH_39_Vertical-Peak



Condition: 3m VERTICAL

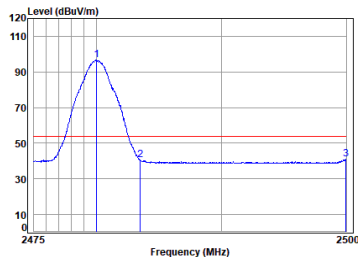
Job No : 00519AT

Mode : 2480 Band edge

: BLE 2M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	Factor
1	pp 2480.000	7.38	27.92	30.60		93.68	98.38	74.00	24.38	Peak 0.00
2	2483.500	7.40	27.93	30.60		46.91	51.64	74.00	-22.36	Peak 0.00
3	2484.345	7.41	27.94	30.60		47.04	51.79	74.00	-22.21	Peak 0.00

BLE_2M_TX_CH_39_Vertical-AVG



Condition: 3m VERTICAL

Job No : 00519AT

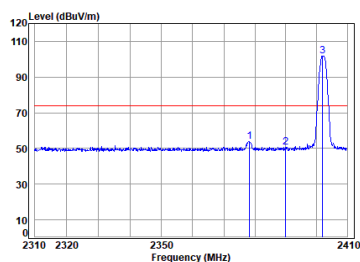
Mode : 2480 Band edge

: BLE 2M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	Factor
1	pp 2480.000	7.38	27.92	30.60		91.88	96.58	54.00	42.58	Average 0.00
2	2483.500	7.40	27.93	30.60		35.68	40.41	54.00	-13.59	Average 0.00
3	2499.975	7.51	28.00	30.60		36.01	40.92	54.00	-13.08	Average 0.00



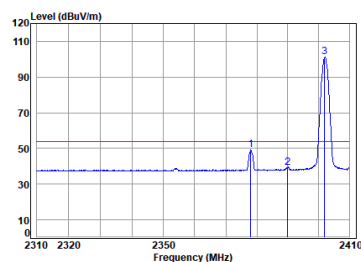
BLE_1M_TX_CH_00_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2402 Band edge
BLE 1M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2378.243	6.82	27.66	30.60	50.16	54.04	74.00	-19.96	Peak	0.00
2	2390.000	6.83	27.68	30.60	46.95	50.86	74.00	-23.14	Peak	0.00
3 pp	2402.000	6.84	27.70	30.60	97.78	101.72	74.00	27.72	Peak	0.00

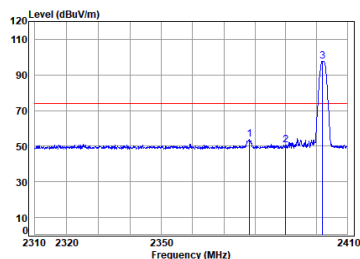
BLE_1M_TX_CH_00_Horizontal-AVG



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2402 Band edge
BLE 1M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2378.042	6.82	27.66	30.60	45.30	49.18	54.00	-4.82	Average	0.00
2	2390.000	6.83	27.68	30.60	35.45	39.36	54.00	-14.64	Average	0.00
3 pp	2402.000	6.84	27.70	30.60	97.14	101.08	54.00	47.08	Average	0.00

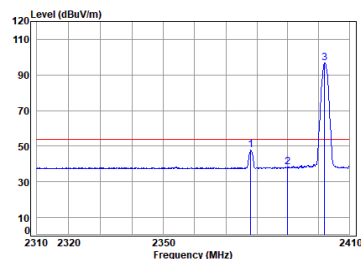
BLE_1M_TX_CH_00_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2402 Band edge
BLE 1M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2378.243	6.82	27.66	30.60	49.79	53.67	74.00	-20.33	Peak	0.00
2	2390.000	6.83	27.68	30.60	46.59	50.50	74.00	-23.50	Peak	0.00
3 pp	2402.000	6.84	27.70	30.60	93.77	97.71	74.00	23.71	Peak	0.00

BLE_1M_TX_CH_00_Vertical-AVG

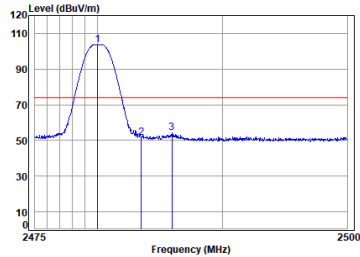


Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2402 Band edge
BLE 1M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2378.042	6.82	27.66	30.60	43.82	47.70	54.00	-6.30	Average	0.00
2	2390.000	6.83	27.68	30.60	34.43	38.34	54.00	-15.66	Average	0.00
3 pp	2402.000	6.84	27.70	30.60	92.99	96.93	54.00	42.93	Average	0.00



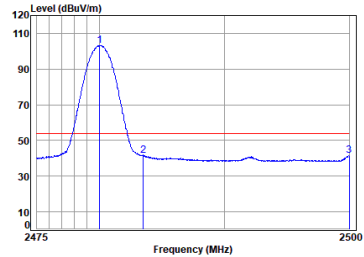
BLE_1M_TX_CH_39_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2480 Band edge
BLE 1M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	pp 2480.000	7.38	27.92	30.60	99.09	103.79	74.00	29.79	Peak	0.00	
2	2483.500	7.40	27.93	30.60	46.94	51.67	74.00	-22.33	Peak	0.00	
3	2485.944	7.42	27.94	30.60	49.31	54.07	74.00	-19.93	Peak	0.00	

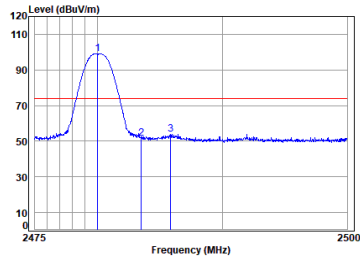
BLE_1M_TX_CH_39_Horizontal-AVG



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2480 Band edge
BLE 1M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	pp 2480.000	7.38	27.92	30.60	98.61	103.31	54.00	49.31	Average	0.00	
2	2483.500	7.40	27.93	30.60	36.63	41.36	54.00	-12.64	Average	0.00	
3	2500.000	7.51	28.00	30.60	36.49	41.40	54.00	-12.60	Average	0.00	

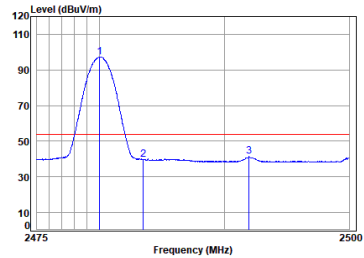
BLE_1M_TX_CH_39_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2480 Band edge
BLE 1M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	pp 2480.000	7.38	27.92	30.60	94.22	98.92	74.00	24.92	Peak	0.00	
2	2483.500	7.40	27.93	30.60	46.74	51.47	74.00	-22.53	Peak	0.00	
3	2485.844	7.42	27.94	30.60	49.24	54.00	74.00	-20.00	Peak	0.00	

BLE_1M_TX_CH_39_Vertical-AVG

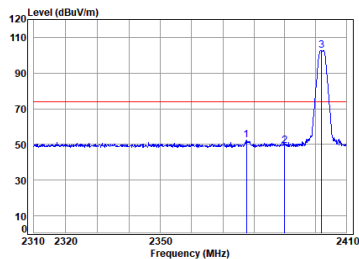


Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2480 Band edge
BLE 1M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	pp 2480.000	7.38	27.92	30.60	92.67	97.37	54.00	43.37	Average	0.00	
2	2483.500	7.40	27.93	30.60	34.96	39.69	54.00	-14.31	Average	0.00	
3	2491.948	7.46	27.97	30.60	36.51	41.34	54.00	-12.66	Average	0.00	



BLE_2M_TX_CH_00_Horizontal-Peak



Condition: 3m HORIZONTAL

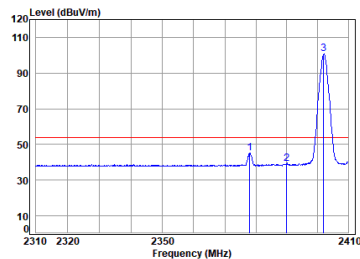
Job No : 00519AT

Mode : 2402 Band edge

: BLE 2M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	2377.638	6.82	27.66	30.60	48.39	52.27	74.00	-21.73	Peak	0.00
2	2390.000	6.83	27.68	30.60	45.42	49.33	74.00	-24.67	Peak	0.00
3 pp	2402.000	6.84	27.70	30.60	98.63	102.57	74.00	28.57	Peak	0.00

BLE_2M_TX_CH_00_Horizontal-AVG



Condition: 3m HORIZONTAL

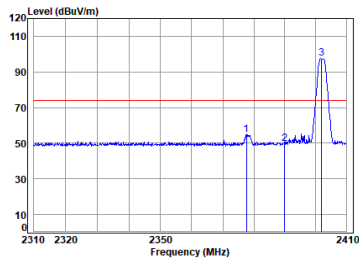
Job No : 00519AT

Mode : 2402 Band edge

: BLE 2M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	2378.042	6.82	27.66	30.60	41.49	45.37	54.00	-8.63	Average	0.00
2	2390.000	6.83	27.68	30.60	35.47	39.38	54.00	-14.62	Average	0.00
3 pp	2402.000	6.84	27.70	30.60	96.87	100.81	54.00	46.81	Average	0.00

BLE_2M_TX_CH_00_Vertical-Peak



Condition: 3m VERTICAL

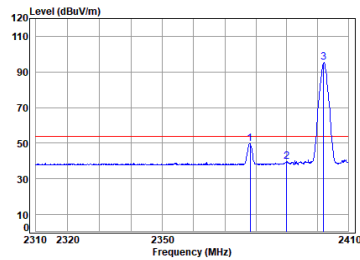
Job No : 00519AT

Mode : 2402 Band edge

: BLE 2M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	2377.638	6.82	27.66	30.60	50.82	54.70	74.00	-19.30	Peak	0.00
2	2390.000	6.83	27.68	30.60	45.97	49.88	74.00	-24.12	Peak	0.00
3 pp	2402.000	6.84	27.70	30.60	93.54	97.48	74.00	23.48	Peak	0.00

BLE_2M_TX_CH_00_Vertical-AVG



Condition: 3m VERTICAL

Job No : 00519AT

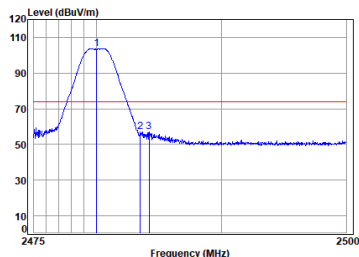
Mode : 2402 Band edge

: BLE 2M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	2378.142	6.82	27.66	30.60	46.02	49.90	54.00	-4.10	Average	0.00
2	2390.000	6.83	27.68	30.60	35.64	39.55	54.00	-14.45	Average	0.00
3 pp	2402.000	6.84	27.70	30.60	91.34	95.28	54.00	41.28	Average	0.00



BLE_2M_TX_CH_39_Horizontal-Peak



Condition: 3m HORIZONTAL

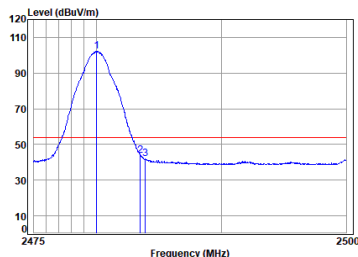
Job No : 00519AT

Mode : 2480 Band edge

: BLE 2M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2480.000	7.38	27.92	30.60		99.04	103.74	74.00	29.74	Peak	0.00
2	2483.500	7.40	27.93	30.60		52.49	57.22	74.00	-16.78	Peak	0.00
3	2484.196	7.40	27.94	30.60		52.15	56.89	74.00	-17.11	Peak	0.00

BLE_2M_TX_CH_39_Horizontal-AVG



Condition: 3m HORIZONTAL

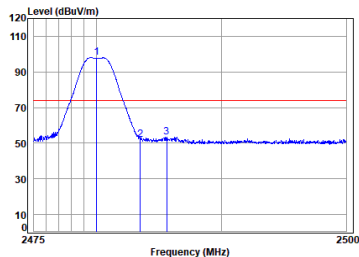
Job No : 00519AT

Mode : 2480 Band edge

: BLE 2M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2480.000	7.38	27.92	30.60		97.38	102.08	54.00	48.08	Average	0.00
2	2483.500	7.40	27.93	30.60		39.11	43.84	54.00	-10.16	Average	0.00
3	2483.896	7.40	27.94	30.60		37.04	41.78	54.00	-12.22	Average	0.00

BLE_2M_TX_CH_39_Vertical-Peak



Condition: 3m VERTICAL

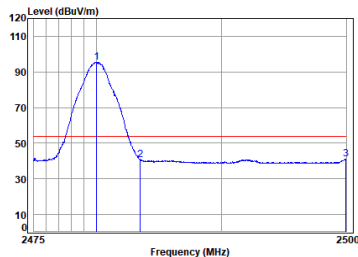
Job No : 00519AT

Mode : 2480 Band edge

: BLE 2M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2480.000	7.38	27.92	30.60		93.35	98.05	74.00	24.05	Peak	0.00
2	2483.500	7.40	27.93	30.60		47.33	52.06	74.00	-21.94	Peak	0.00
3	2485.619	7.41	27.94	30.60		48.84	53.59	74.00	-20.41	Peak	0.00

BLE_2M_TX_CH_39_Vertical-AVG



Condition: 3m VERTICAL

Job No : 00519AT

Mode : 2480 Band edge

: BLE 2M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2480.000	7.38	27.92	30.60		90.86	95.56	54.00	41.56	Average	0.00
2	2483.500	7.40	27.93	30.60		36.09	40.82	54.00	-13.18	Average	0.00
3	2499.975	7.51	28.00	30.60		36.03	40.94	54.00	-13.06	Average	0.00



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: 3m
 Test Engineer: Kaito Zeng

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

Note

1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.2.1 E.U.T. Operation

Operating Environment:

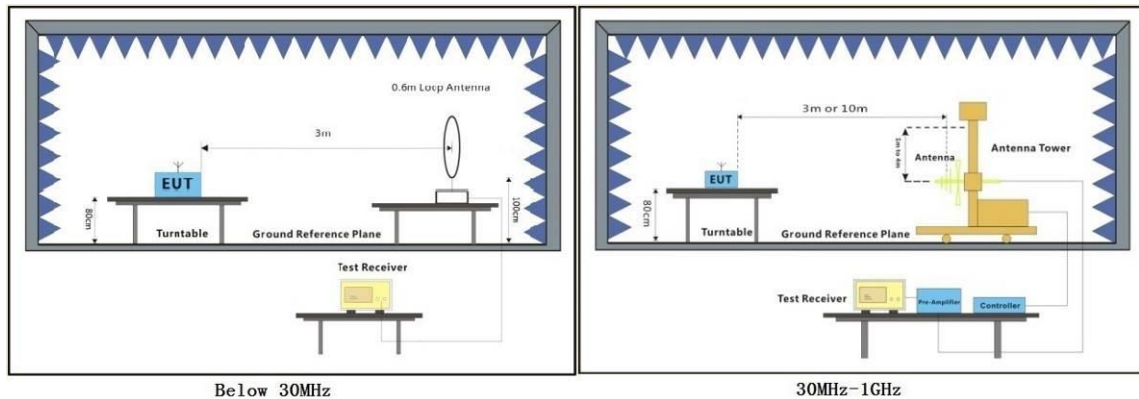
Temperature: 23.5 °C Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar



7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	07	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



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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

7.2.4 Measurement Procedure and Data

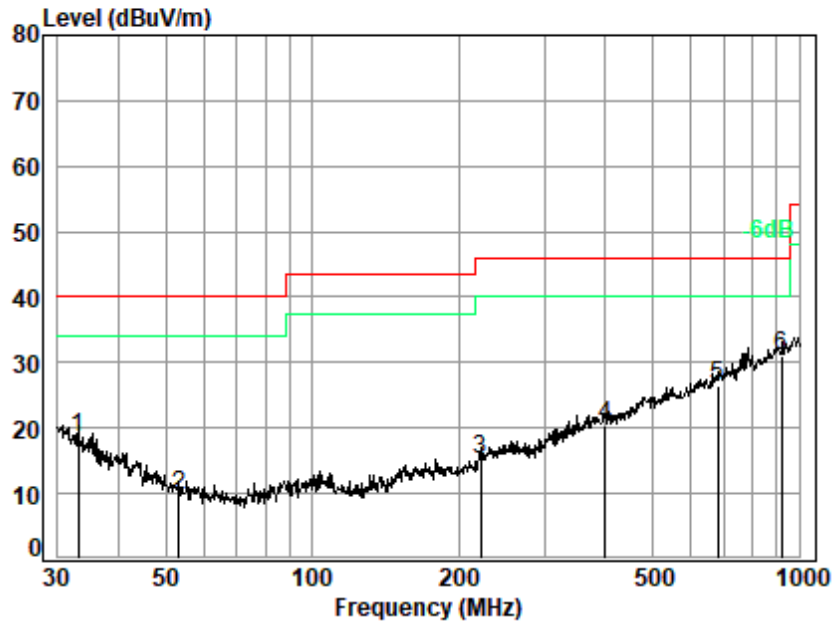
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- c. The antenna height is varied from 1m to 4m 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 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) 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. 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 below 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.
2. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.



Test Mode: 04; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00519AT
Test Mode: 04

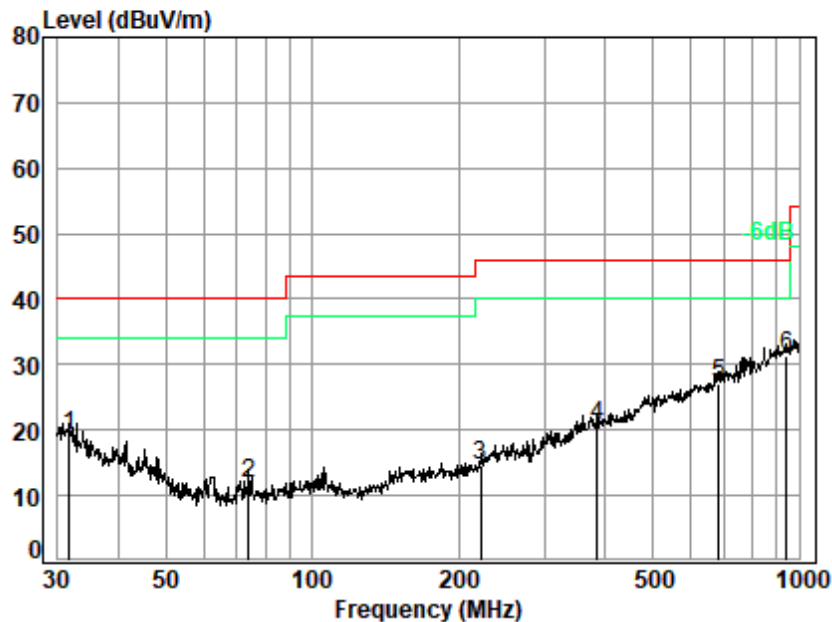
	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	33.095	19.77	0.77	27.65	25.59	18.48	40.00	-21.52 QP
2	53.318	12.38	0.91	27.63	24.21	9.87	40.00	-30.13 QP
3	221.392	15.49	1.80	27.72	25.61	15.18	46.00	-30.82 QP
4	400.432	20.48	2.49	27.75	25.02	20.24	46.00	-25.76 QP
5	682.348	25.64	3.36	27.88	25.38	26.50	46.00	-19.50 QP
6 q	922.516	28.82	4.02	26.83	25.07	31.08	46.00	-14.92 QP



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Test Mode: 04; Polarity: Vertical

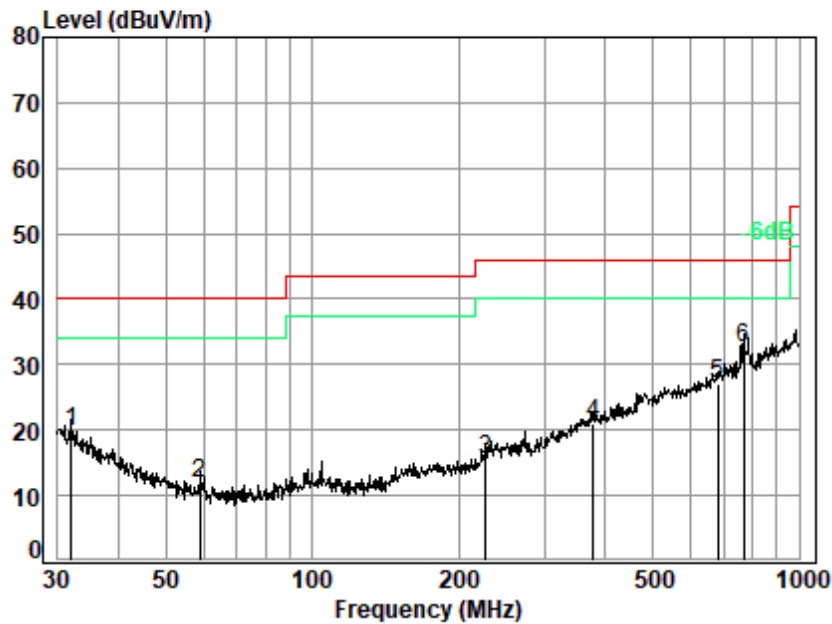


Site : chamber
Condition: 3m VERTICAL
Job No. : 00519AT
Test Mode: 04

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.731	20.56	0.76	27.65	25.37	19.04	40.00	-20.96 QP
2	74.135	10.52	1.03	27.61	28.01	11.95	40.00	-28.05 QP
3	221.392	15.49	1.80	27.72	24.92	14.49	46.00	-31.51 QP
4	385.281	20.36	2.44	27.72	25.55	20.63	46.00	-25.37 QP
5	684.745	25.66	3.37	27.87	25.80	26.96	46.00	-19.04 QP
6 q	942.131	29.01	4.06	26.72	24.90	31.25	46.00	-14.75 QP



Test Mode: 06; Polarity: Horizontal

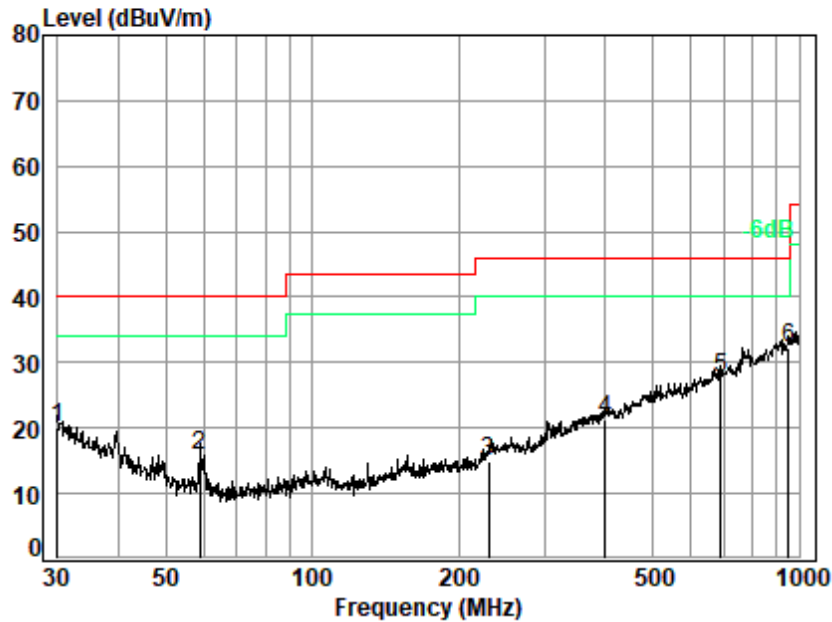


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00519AT
Test Mode: 06

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.955	20.44	0.76	27.65	26.15	19.70	40.00	-20.30 QP
2	58.819	11.48	0.92	27.62	26.94	11.72	40.00	-28.28 QP
3	226.894	16.21	1.83	27.71	25.18	15.51	46.00	-30.49 QP
4	377.259	20.46	2.41	27.70	25.70	20.87	46.00	-25.13 QP
5	682.348	25.64	3.36	27.88	25.81	26.93	46.00	-19.07 QP
6 q	768.748	27.46	3.61	27.67	29.24	32.64	46.00	-13.36 QP



Test Mode: 06; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00519AT
Test Mode: 06

	Ant Freq	Cable Factor	Preamp Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.000	21.45	0.74	27.65	25.47	20.01	40.00	-19.99	QP
2	58.819	11.48	0.92	27.62	30.91	15.69	40.00	-24.31	QP
3	230.099	16.73	1.84	27.70	24.15	15.02	46.00	-30.98	QP
4	400.432	20.48	2.49	27.75	25.94	21.16	46.00	-24.84	QP
5	691.987	25.72	3.39	27.85	26.29	27.55	46.00	-18.45	QP
6 q	952.094	29.21	4.08	26.66	25.56	32.19	46.00	-13.81	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 & 11.12
 Measurement Distance: 3m
 Test Engineer: Mihawk Li

Limit:

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

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

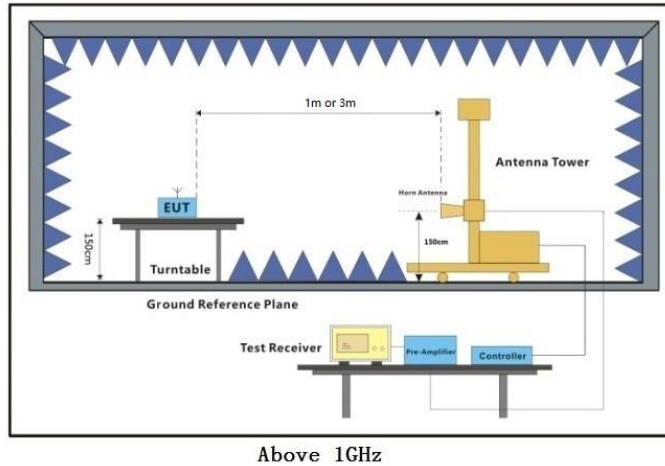
Temperature: 21.2 °C Humidity: 50.6 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.



7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

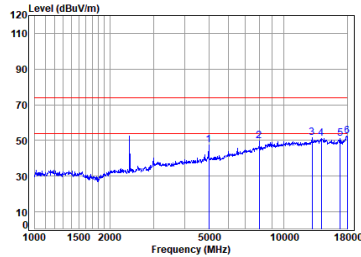
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- c. The antenna height is varied from 1m to 4m 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 1m to 4m 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. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- g. 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.
- h. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
2. 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.
3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst-case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



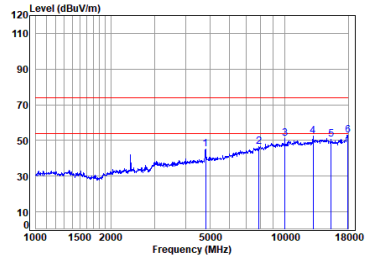
BLE_1M_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2402 TX RSE
BLE 1M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit Remark	Factor
1	5002.497	9.11	33.20	56.10	61.27	47.48	74.00	-26.52	Peak	0.00
2	7989.893	11.46	37.22	55.91	57.00	49.77	74.00	-24.23	Peak	0.00
3	12984.540	15.26	40.10	53.79	50.00	51.65	74.00	-22.35	Peak	0.00
4	14100.710	16.53	40.46	54.10	48.25	51.14	74.00	-22.86	Peak	0.00
5	16891.040	19.64	38.60	53.88	46.68	51.04	74.00	-22.96	Peak	0.00
6	pp18000.000	18.64	42.60	54.30	45.46	52.40	74.00	-21.60	Peak	0.00

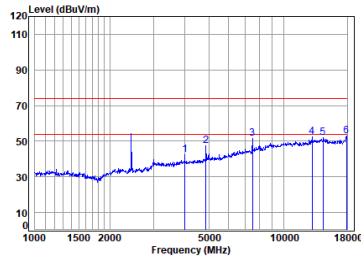
BLE_1M_TX_CH_00_Vertical



Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2402 TX RSE
BLE 1M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit Remark	Factor
1	4804.110	8.90	32.62	55.92	59.51	45.11	74.00	-28.89	Peak	0.00
2	7875.254	11.42	37.20	55.97	53.95	46.60	74.00	-27.40	Peak	0.00
3	10010.420	12.90	38.90	53.60	52.98	51.18	74.00	-22.82	Peak	0.00
4	12984.540	15.26	40.10	53.79	50.69	52.26	74.00	-21.74	Peak	0.00
5	15398.830	17.01	39.00	53.94	48.73	50.80	74.00	-23.20	Peak	0.00
6	pp17948.050	18.75	42.29	54.28	46.38	53.14	74.00	-20.86	Peak	0.00

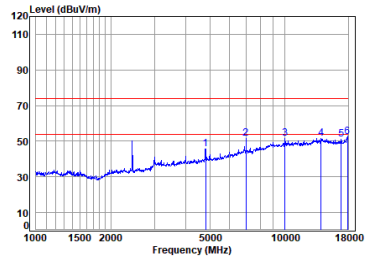
BLE_1M_TX_CH_19_Horizontal



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2440 TX RSE
BLE 1M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit Remark	Factor
1	4004.339	8.13	31.10	55.10	58.17	42.30	74.00	-31.70	Peak	0.00
2	4874.043	8.97	32.85	55.99	61.56	47.39	74.00	-26.61	Peak	0.00
3	7497.646	10.90	36.80	56.19	59.97	51.48	74.00	-22.52	Peak	0.00
4	12984.540	15.26	40.10	53.79	51.00	52.57	74.00	-21.43	Peak	0.00
5	14408.430	16.90	40.38	54.10	48.83	52.01	74.00	-21.99	Peak	0.00
6	pp17896.250	18.87	41.97	54.26	46.36	52.94	74.00	-21.06	Peak	0.00

BLE_1M_TX_CH_19_Vertical



Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2440 TX RSE
BLE 1M L

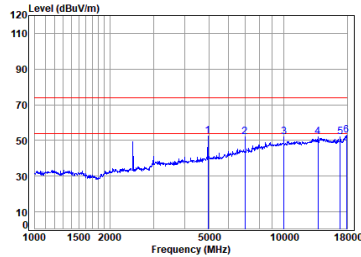
	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit Remark	Factor
1	4804.110	8.90	32.62	55.92	60.06	45.66	74.00	-28.34	Peak	0.00
2	6995.172	10.96	36.29	56.50	60.68	51.43	74.00	-22.57	Peak	0.00
3	10010.420	12.90	38.90	53.60	53.24	51.44	74.00	-22.56	Peak	0.00
4	13997.930	16.53	40.59	54.10	48.57	51.59	74.00	-22.41	Peak	0.00
5	16891.040	19.64	38.60	53.88	46.53	50.89	74.00	-23.11	Peak	0.00
6	pp17896.250	18.87	41.97	54.26	46.01	52.59	74.00	-21.41	Peak	0.00



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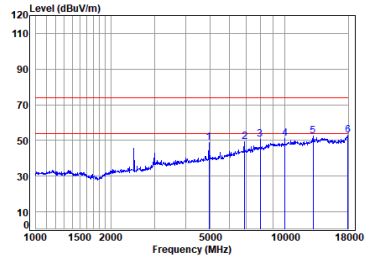
BLE_1M_TX_CH_39_Horizontal



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2400 TX RSE
BLE 1M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4959.307	9.07	33.12	56.06	66.19	52.32	74.00	-21.68	Peak		0.00
2	6995.172	10.96	36.29	56.50	61.08	51.83	74.00	-22.17	Peak		0.00
3	10010.420	12.90	38.90	53.60	53.99	52.19	74.00	-21.81	Peak		0.00
4	13717.560	16.02	40.30	54.02	49.74	52.04	74.00	-21.96	Peak		0.00
5	16891.040	19.64	38.60	53.88	47.55	51.91	74.00	-22.09	Peak		0.00
6	pp17896.258	18.87	41.97	54.26	46.36	52.94	74.00	-21.06	Peak		0.00

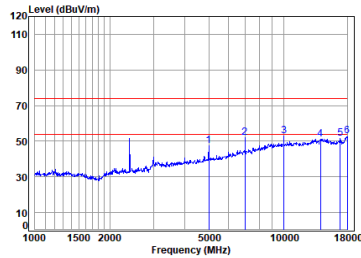
BLE_1M_TX_CH_39_Vertical



Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2400 TX RSE
BLE 1M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4959.307	9.07	33.12	56.06	62.81	48.94	74.00	-25.06	Peak		0.00
2	6894.806	10.94	36.28	56.51	58.79	49.50	74.00	-24.50	Peak		0.00
3	7909.093	11.46	37.22	55.91	57.70	50.47	74.00	-23.53	Peak		0.00
4	10010.420	12.90	38.90	53.60	52.99	51.19	74.00	-22.81	Peak		0.00
5	12984.540	15.26	40.10	53.79	50.86	52.43	74.00	-21.57	Peak		0.00
6	pp17948.050	18.75	42.29	54.28	46.27	53.03	74.00	-20.97	Peak		0.00

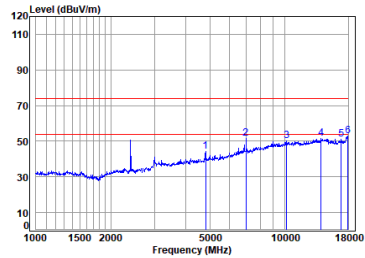
BLE_2M_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2402 TX RSE
BLE 2M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5002.497	9.11	33.20	56.10	61.46	47.67	74.00	-26.33	Peak		0.00
2	6995.172	10.96	36.29	56.50	61.08	51.83	74.00	-22.17	Peak		0.00
3	10010.420	12.90	38.90	53.60	54.53	52.73	74.00	-21.27	Peak		0.00
4	14079.000	16.38	40.44	54.10	48.50	51.22	74.00	-22.78	Peak		0.00
5	16891.040	19.64	38.60	53.88	47.10	51.46	74.00	-22.54	Peak		0.00
6	pp18000.000	18.64	42.60	54.30	46.16	53.10	74.00	-20.90	Peak		0.00

BLE_2M_TX_CH_00_Vertical



Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2402 TX RSE
BLE 2M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4804.110	8.90	32.62	55.92	58.85	44.45	74.00	-29.55	Peak		0.00
2	6995.172	10.96	36.29	56.50	60.04	51.59	74.00	-22.41	Peak		0.00
3	10185.530	12.82	39.07	53.58	51.66	49.97	74.00	-24.03	Peak		0.00
4	13997.930	16.53	40.59	54.10	48.58	51.60	74.00	-22.40	Peak		0.00
5	16891.040	19.64	38.60	53.88	46.70	51.06	74.00	-22.94	Peak		0.00
6	pp17948.050	18.75	42.29	54.28	45.96	52.72	74.00	-21.28	Peak		0.00



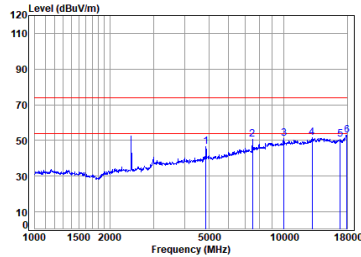
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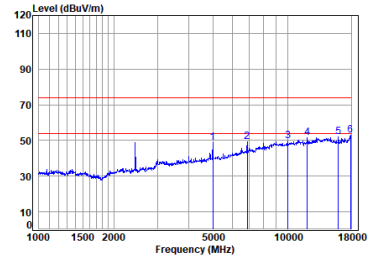
BLE_2M_TX_CH_19_Horizontal



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2440 TX RSE
BLE 2M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	4874.043	8.97	32.85	55.99	60.78	46.61	74.00	-27.39	Peak	0.00	
2	7497.646	10.90	36.80	56.19	58.92	50.43	74.00	-23.57	Peak	0.00	
3	10010.420	12.90	38.90	53.60	52.73	50.93	74.00	-23.07	Peak	0.00	
4	12984.540	15.26	40.10	53.79	49.88	51.45	74.00	-22.55	Peak	0.00	
5	16891.040	19.64	38.60	53.88	46.33	50.69	74.00	-23.31	Peak	0.00	
6	pp17948.050	18.75	42.29	54.28	46.17	52.93	74.00	-21.07	Peak	0.00	

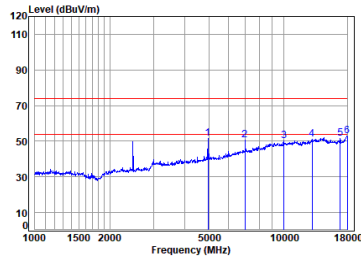
BLE_2M_TX_CH_19_Vertical



Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2440 TX RSE
BLE 2M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	5002.497	9.11	33.20	56.10	62.81	49.02	74.00	-24.98	Peak	0.00	
2	6874.906	10.95	36.20	56.51	58.43	49.07	74.00	-24.93	Peak	0.00	
3	10010.420	12.90	38.90	53.60	51.49	49.69	74.00	-24.31	Peak	0.00	
4	12989.760	14.35	39.29	53.21	51.27	51.70	74.00	-22.30	Peak	0.00	
5	15988.450	17.16	38.22	53.70	50.50	52.18	74.00	-21.82	Peak	0.00	
6	pp17896.250	18.87	41.97	54.26	46.19	52.77	74.00	-21.23	Peak	0.00	

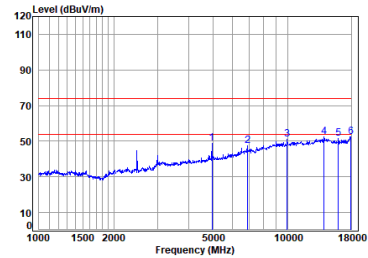
BLE_2M_TX_CH_39_Horizontal



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2480 TX RSE
BLE 2M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	4959.307	9.07	33.12	56.06	65.56	51.69	74.00	-22.31	Peak	0.00	
2	6995.172	10.96	36.29	56.50	59.87	50.62	74.00	-23.38	Peak	0.00	
3	10010.420	12.90	38.90	53.60	52.14	50.34	74.00	-23.66	Peak	0.00	
4	12984.540	15.26	40.10	53.79	49.69	51.26	74.00	-22.74	Peak	0.00	
5	16891.040	19.64	38.60	53.88	47.05	51.41	74.00	-22.59	Peak	0.00	
6	pp18000.000	18.64	42.60	54.30	45.86	52.00	74.00	-21.00	Peak	0.00	

BLE_2M_TX_CH_39_Vertical

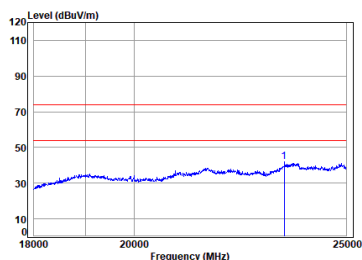


Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2480 TX RSE
BLE 2M L

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	4959.307	9.07	33.12	56.06	62.54	48.67	74.00	-25.33	Peak	0.00	
2	6894.006	10.94	36.28	56.51	56.58	47.29	74.00	-26.71	Peak	0.00	
3	9952.717	12.00	38.71	53.65	53.42	51.28	74.00	-22.72	Peak	0.00	
4	pp13997.930	16.53	40.59	54.10	49.65	52.67	74.00	-21.33	Peak	0.00	
5	15988.450	17.16	38.22	53.70	50.03	51.71	74.00	-22.29	Peak	0.00	
6	17948.050	18.75	42.29	54.28	45.85	52.61	74.00	-21.39	Peak	0.00	



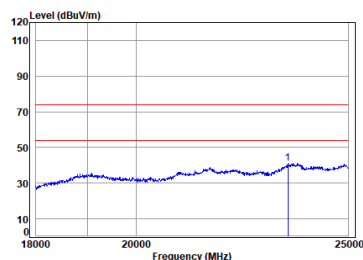
BLE_2M_TX_CH_39_Horizontal



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2400 TX RSE

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	pp23425.660	6.76	38.21	50.98	57.58	42.03	74.00	-31.97	Peak	-9.54

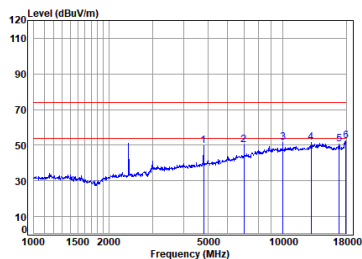
BLE_2M_TX_CH_39_Vertical



Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2400 TX RSE

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	pp23464.170	6.76	38.26	50.63	56.34	41.19	74.00	-32.81	Peak	-9.54

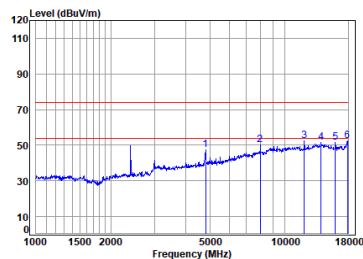
BLE_1M_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2400 TX RSE

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	4804.110	8.90	32.62	55.92	63.91	49.51	74.00	-24.49	Peak	0.00
2	6995.172	10.96	36.29	56.50	59.65	50.40	74.00	-23.60	Peak	0.00
3	10010.420	12.90	38.90	53.60	53.21	51.41	74.00	-22.59	Peak	0.00
4	12984.540	15.26	40.10	53.79	49.78	51.35	74.00	-22.65	Peak	0.00
5	16891.040	19.64	38.60	53.88	46.31	50.67	74.00	-23.33	Peak	0.00
6	pp17948.050	18.75	42.29	54.28	45.75	52.51	74.00	-21.49	Peak	0.00

BLE_1M_TX_CH_00_Vertical

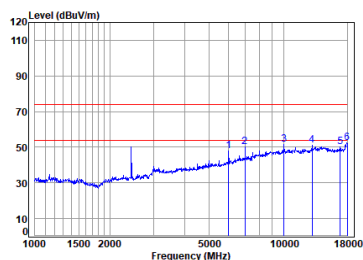


Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2400 TX RSE

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	4804.110	8.90	32.62	55.92	62.01	47.61	74.00	-26.39	Peak	0.00
2	7989.893	11.46	37.22	55.91	57.54	50.31	74.00	-23.69	Peak	0.00
3	pp12809.760	14.35	39.29	53.21	52.11	52.54	74.00	-21.46	Peak	0.00
4	13997.930	16.53	40.59	54.10	48.52	51.54	74.00	-22.46	Peak	0.00
5	15988.450	17.16	38.22	53.70	49.65	51.33	74.00	-22.67	Peak	0.00
6	17896.250	18.87	41.97	54.26	45.85	52.43	74.00	-21.57	Peak	0.00



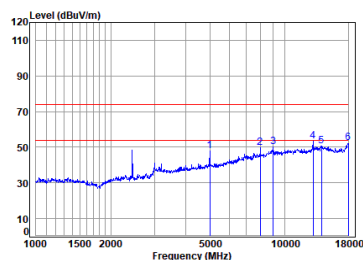
BLE_1M_TX_CH_19_Horizontal



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2440 TX RSE
BLE 1M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	6001.626	10.05	34.40	56.60	59.88	47.73	74.00	-26.27	Peak	0.00
2	6995.172	10.96	36.29	56.50	59.28	50.03	74.00	-23.97	Peak	0.00
3	10010.420	12.90	38.90	53.60	53.28	51.48	74.00	-22.52	Peak	0.00
4	12984.540	15.26	40.10	53.79	49.48	51.05	74.00	-22.95	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.71	50.07	74.00	-23.93	Peak	0.00
6	pp18000.000	18.64	42.60	54.30	45.55	52.49	74.00	-21.51	Peak	0.00

BLE_1M_TX_CH_19_Vertical

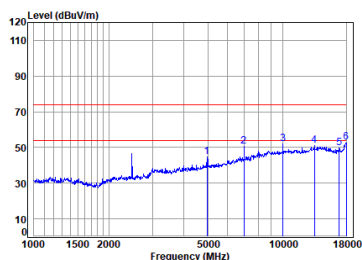


Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2440 TX RSE
BLE 1M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5002.497	9.11	33.20	56.10	61.57	47.78	74.00	-26.22	Peak	0.00
2	7909.093	11.46	37.22	55.91	56.82	49.59	74.00	-24.41	Peak	0.00
3	8995.123	12.10	38.41	54.71	54.37	50.17	74.00	-23.83	Peak	0.00
4	pp12984.540	15.26	40.10	53.79	51.81	53.38	74.00	-20.62	Peak	0.00
5	14079.000	16.38	40.44	54.10	48.10	50.82	74.00	-23.18	Peak	0.00
6	18000.000	18.64	42.60	54.30	45.45	52.39	74.00	-21.61	Peak	0.00



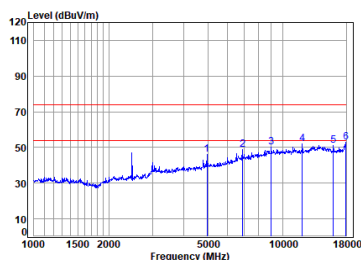
BLE_1M_TX_CH_39_Horizontal



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2400 TX RSE
BLE 1M R

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	4959.307	9.07	33.12	56.06	58.58	44.71	74.00	-29.29	Peak	0.00	
2	6995.172	10.96	36.29	56.50	59.72	50.47	74.00	-23.53	Peak	0.00	
3	10010.420	12.90	38.90	53.60	54.03	52.23	74.00	-21.77	Peak	0.00	
4	13404.010	15.67	40.50	53.92	48.63	50.88	74.00	-23.12	Peak	0.00	
5	16891.040	19.64	38.60	53.88	45.32	49.68	74.00	-24.32	Peak	0.00	
6	pp18000.000	18.64	42.60	54.30	46.11	53.05	74.00	-20.95	Peak	0.00	

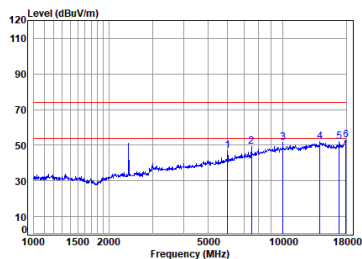
BLE_1M_TX_CH_39_Vertical



Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2400 TX RSE
BLE 1M R

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	4959.307	9.07	33.12	56.06	59.93	46.06	74.00	-27.94	Peak	0.00	
2	6894.806	10.94	36.28	56.51	58.25	48.96	74.00	-25.04	Peak	0.00	
3	8995.123	12.10	38.41	54.71	54.51	50.31	74.00	-23.69	Peak	0.00	
4	12009.760	14.35	39.29	53.21	51.44	51.87	74.00	-22.13	Peak	0.00	
5	15988.450	17.16	38.22	53.70	49.22	50.90	74.00	-23.10	Peak	0.00	
6	pp17948.050	18.75	42.29	54.28	46.05	52.81	74.00	-21.19	Peak	0.00	

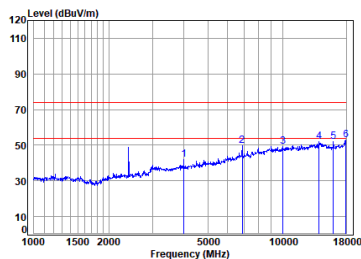
BLE_2M_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2402 TX RSE
BLE 2M R

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	6001.626	10.05	34.40	56.60	59.05	46.90	74.00	-27.10	Peak	0.00	
2	7497.646	10.90	36.80	56.19	57.63	49.14	74.00	-24.86	Peak	0.00	
3	10010.420	12.90	38.90	53.60	53.40	51.60	74.00	-22.40	Peak	0.00	
4	14119.830	16.40	40.42	54.10	49.51	52.23	74.00	-21.77	Peak	0.00	
5	16891.040	19.64	38.60	53.88	47.47	51.83	74.00	-22.17	Peak	0.00	
6	pp17948.050	18.75	42.29	54.28	46.29	53.05	74.00	-20.95	Peak	0.00	

BLE_2M_TX_CH_00_Vertical

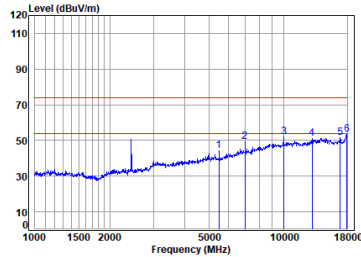


Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2402 TX RSE
BLE 2M R

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	4004.339	8.13	31.10	55.10	57.99	42.12	74.00	-31.88	Peak	0.00	
2	6874.906	10.95	36.20	56.51	59.21	49.85	74.00	-24.15	Peak	0.00	
3	10010.420	12.90	38.90	53.60	51.17	49.37	74.00	-24.63	Peak	0.00	
4	13997.930	16.53	40.59	54.10	49.08	52.10	74.00	-21.90	Peak	0.00	
5	15988.450	17.16	38.22	53.70	50.32	52.00	74.00	-22.00	Peak	0.00	
6	pp17948.050	18.75	42.29	54.28	46.11	52.87	74.00	-21.13	Peak	0.00	



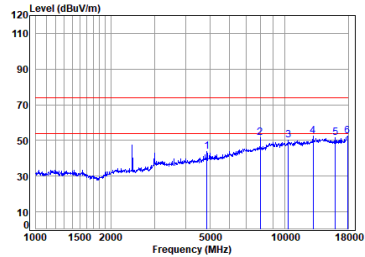
BLE_2M_TX_CH_19_Horizontal



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2440 TX RSE
BLE 2M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	5503.143	9.64	33.10	56.36	57.67	44.05	74.00	-29.95	Peak		0.00
2	6995.172	10.96	36.29	56.50	58.37	49.12	74.00	-24.88	Peak		0.00
3	10010.420	12.90	38.90	53.60	53.99	52.19	74.00	-21.81	Peak		0.00
4	12984.540	15.26	40.10	53.79	49.61	51.18	74.00	-22.82	Peak		0.00
5	16891.040	19.64	38.60	53.88	47.03	51.39	74.00	-22.61	Peak		0.00
6	pp17948.050	18.75	42.29	54.28	46.43	53.19	74.00	-20.81	Peak		0.00

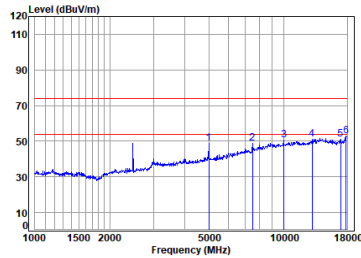
BLE_2M_TX_CH_19_Vertical



Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2440 TX RSE
BLE 2M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	4874.043	8.97	32.85	55.99	57.93	43.76	74.00	-30.24	Peak		0.00
2	7989.893	11.46	37.22	55.91	58.71	51.48	74.00	-22.52	Peak		0.00
3	10363.710	13.51	39.20	53.56	51.15	50.30	74.00	-23.70	Peak		0.00
4	12984.540	15.26	40.10	53.79	51.05	52.62	74.00	-21.38	Peak		0.00
5	15988.450	17.16	38.22	53.70	50.01	51.69	74.00	-22.31	Peak		0.00
6	pp17896.250	18.87	41.97	54.26	46.04	52.62	74.00	-21.38	Peak		0.00

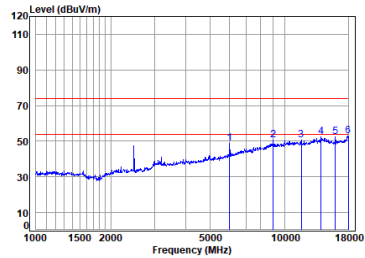
BLE_2M_TX_CH_39_Horizontal



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2480 TX RSE
BLE 2M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	5002.497	9.11	33.20	56.10	62.43	48.64	74.00	-25.36	Peak		0.00
2	7497.646	10.90	36.80	56.19	57.33	48.84	74.00	-25.16	Peak		0.00
3	10010.420	12.90	38.90	53.60	52.64	50.84	74.00	-23.16	Peak		0.00
4	12984.540	15.26	40.10	53.79	49.68	51.25	74.00	-22.75	Peak		0.00
5	16939.940	19.22	38.68	53.89	47.28	51.29	74.00	-22.71	Peak		0.00
6	pp17844.590	19.02	41.56	54.24	46.58	52.92	74.00	-21.08	Peak		0.00

BLE_2M_TX_CH_39_Vertical

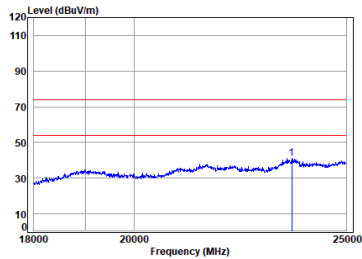


Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2480 TX RSE
BLE 2M R

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	6001.626	10.05	34.40	56.60	60.90	48.75	74.00	-25.25	Peak		0.00
2	8995.123	12.10	38.41	54.71	54.78	50.58	74.00	-23.42	Peak		0.00
3	11667.600	14.42	39.07	53.30	50.55	50.74	74.00	-23.26	Peak		0.00
4	13997.930	16.53	40.59	54.10	49.61	52.63	74.00	-21.37	Peak		0.00
5	15988.450	17.16	38.22	53.70	50.76	52.44	74.00	-21.56	Peak		0.00
6	pp18000.000	18.64	42.60	54.30	46.06	53.00	74.00	-21.00	Peak		0.00



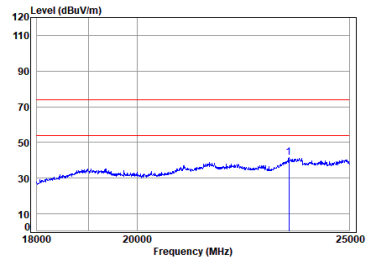
BLE_2M_TX_CH_39_Horizontal



Condition: 3m HORIZONTAL
Job No : 00519AT
Mode : 2400 TX RSE
BLE 2M R

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23611.080	6.76	38.52	50.32	55.52	40.94	74.00	-33.06	Peak		-9.54

BLE_2M_TX_CH_39_Vertical



Condition: 3m VERTICAL
Job No : 00519AT
Mode : 2400 TX RSE
BLE 2M R

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23464.170	6.76	38.26	50.63	56.83	41.68	74.00	-32.32	Peak		-9.54



7.4 Maximum Conducted 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: Mingli Hu

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

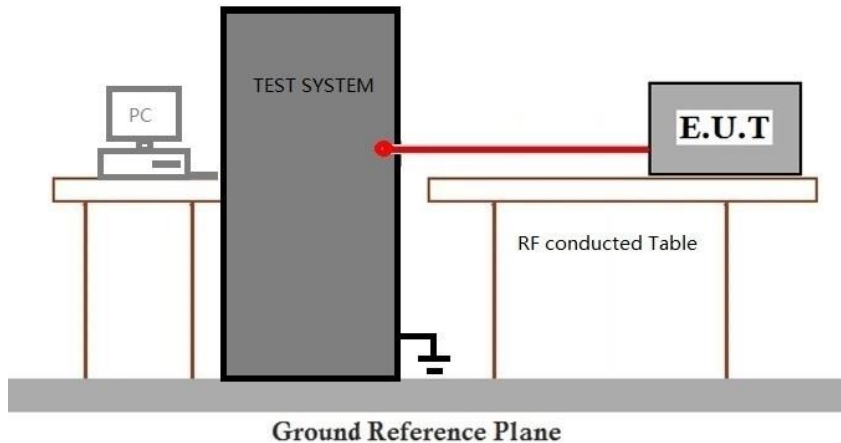
Temperature: 24.5 °C Humidity: 54.7 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(1Mbps)(Right earbud)_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: Mingli Hu

Limit:
 ≥500 kHz

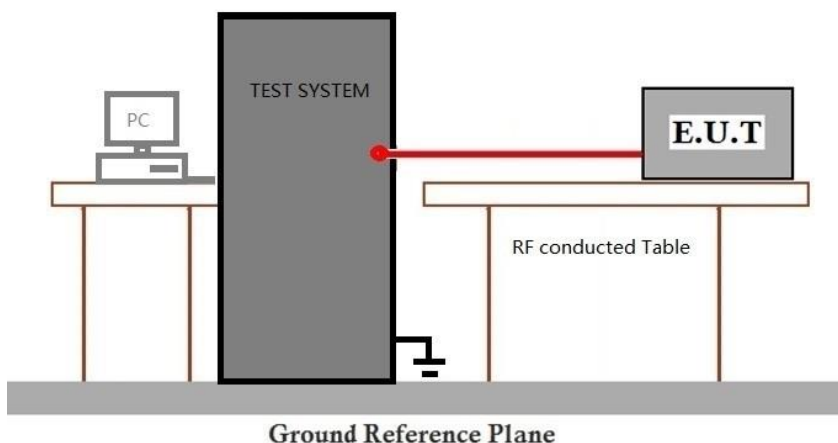
7.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.5 °C Humidity: 54.7 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
 Test Method: ANSI C63.10 (2020) Section 11.10.3
 Test Engineer: Mingli Hu

Limit:

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

7.6.1 E.U.T. Operation

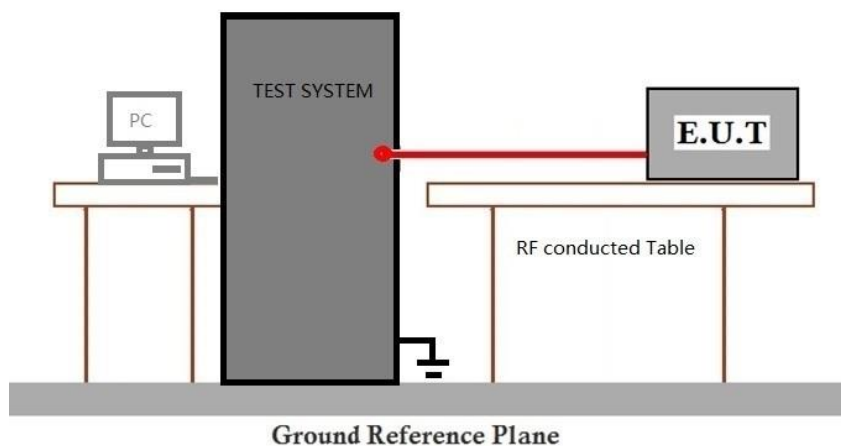
Operating Environment:

Temperature: 24.5 °C Humidity: 54.7 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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 Shenzhen Branch Inspection & Testing Services

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7.7 Conducted Band Edges Measurement

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

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

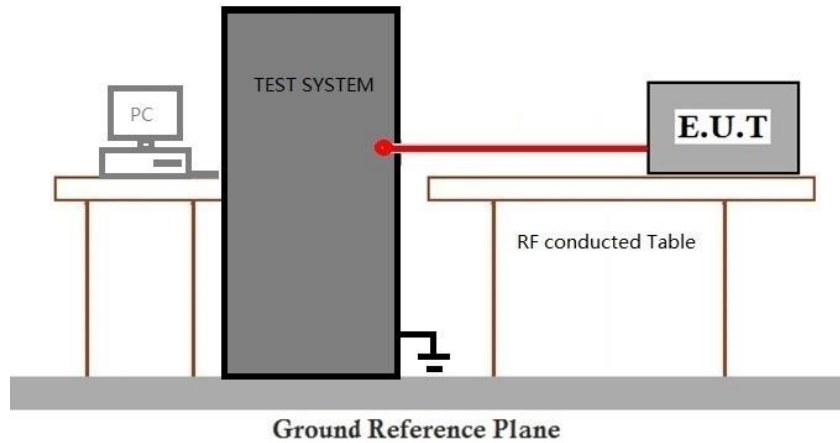
Temperature: 24.5 °C Humidity: 54.7 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(1Mbps)(Right earbud)_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: Mingli Hu

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

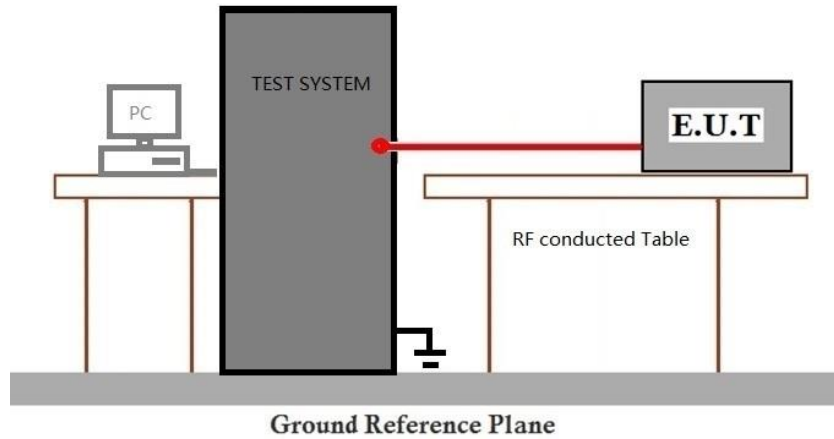
Temperature: 24.5 °C Humidity: 54.7 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(1Mbps)(Right earbud)_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 SZCR2602000519AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photographs of EUT Constructional Details for SZCR2602000519AT



10 Appendix

For right earbud:

1. Duty Cycle

1.1 Test Result

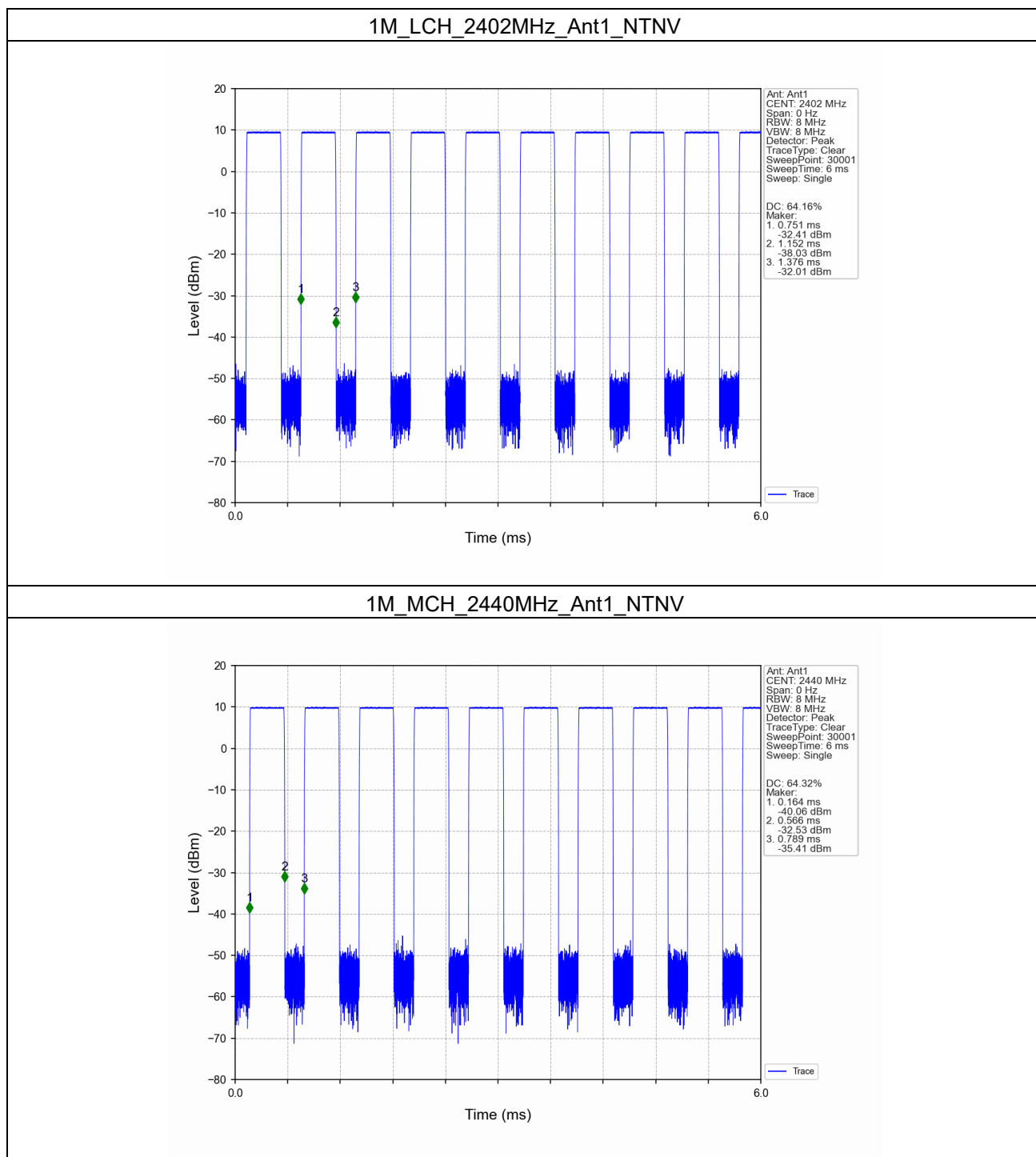
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.401	0.625	64.16	1.93	0.03
		2440	0.402	0.625	64.32	1.92	0.03
		2480	0.401	0.625	64.16	1.93	0.03
2M	SISO	2402	0.215	0.625	34.40	4.63	0.03
		2440	0.215	0.625	34.40	4.63	0.00
		2480	0.214	0.625	34.24	4.65	0.00

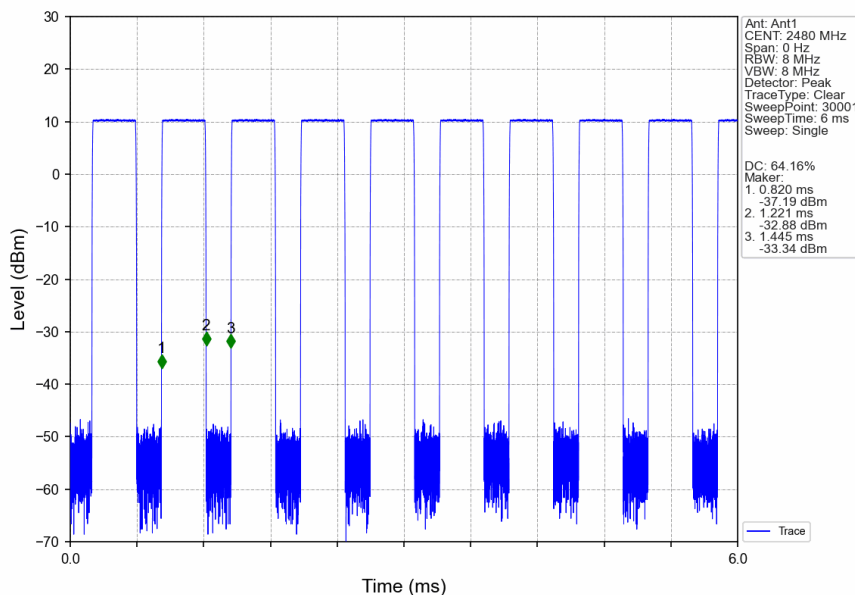


1.2 Test Graph

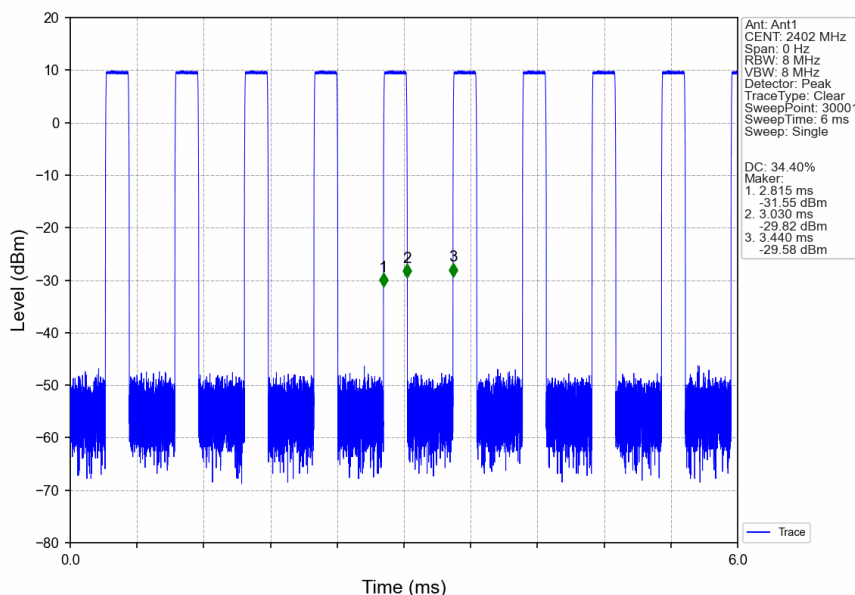
1.2.1 Ant1



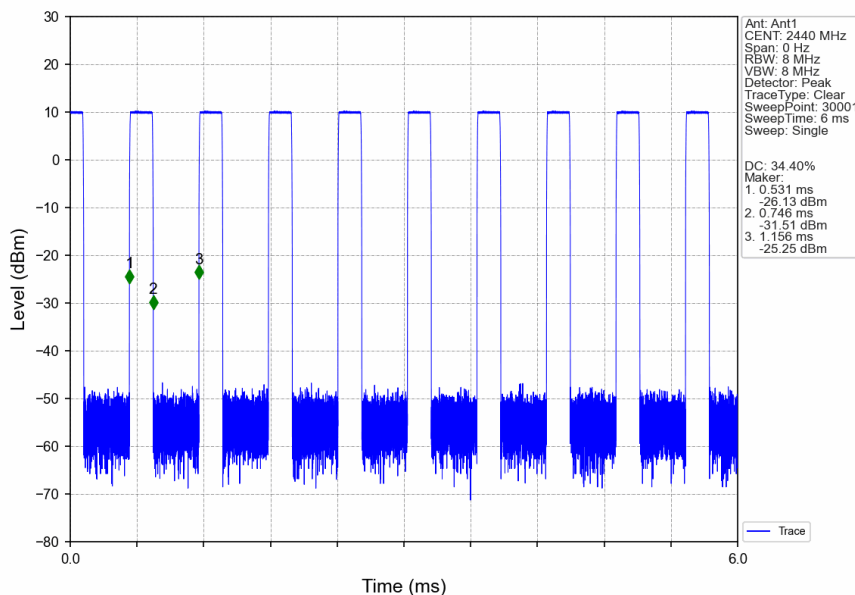
1M_HCH_2480MHz_Ant1_NTNV



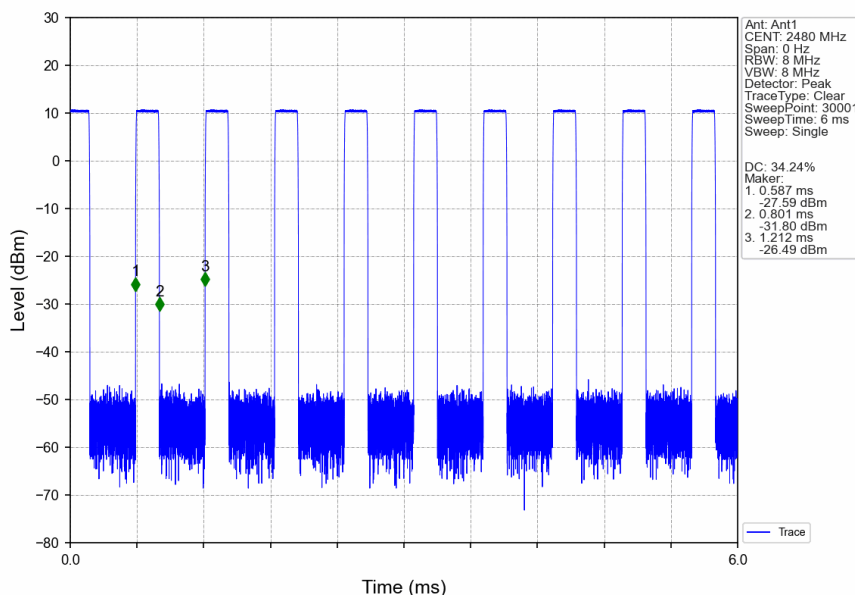
2M_LCH_2402MHz_Ant1_NTNV



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	1.026	/	Pass
		2440	1	1.026	/	Pass
		2480	1	1.027	/	Pass
2M	SISO	2402	1	2.048	/	Pass
		2440	1	2.047	/	Pass
		2480	1	2.047	/	Pass

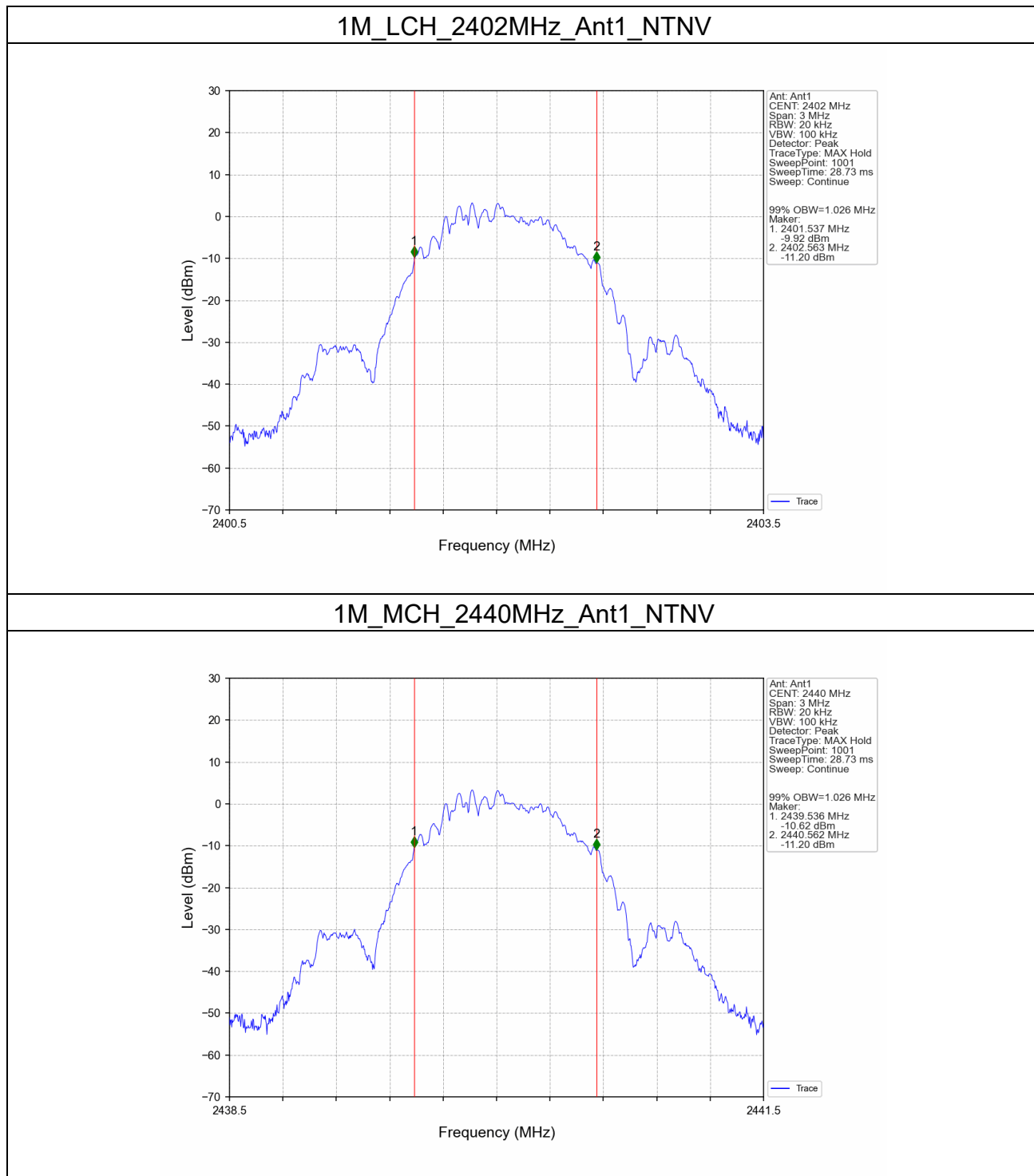
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.709	≥ 0.5	Pass
		2440	1	0.705	≥ 0.5	Pass
		2480	1	0.706	≥ 0.5	Pass
2M	SISO	2402	1	0.854	≥ 0.5	Pass
		2440	1	0.861	≥ 0.5	Pass
		2480	1	0.864	≥ 0.5	Pass



2.2 Test Graph

2.2.1 OBW



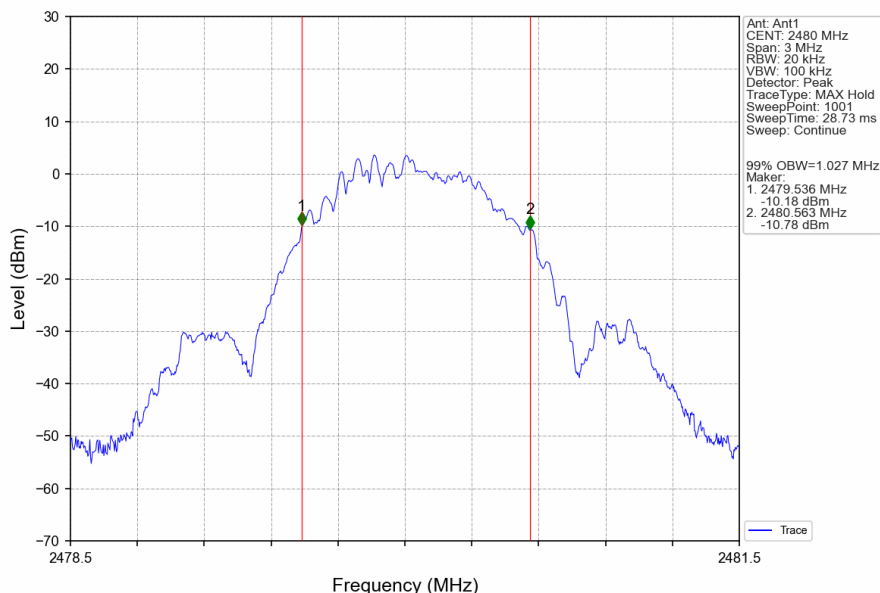
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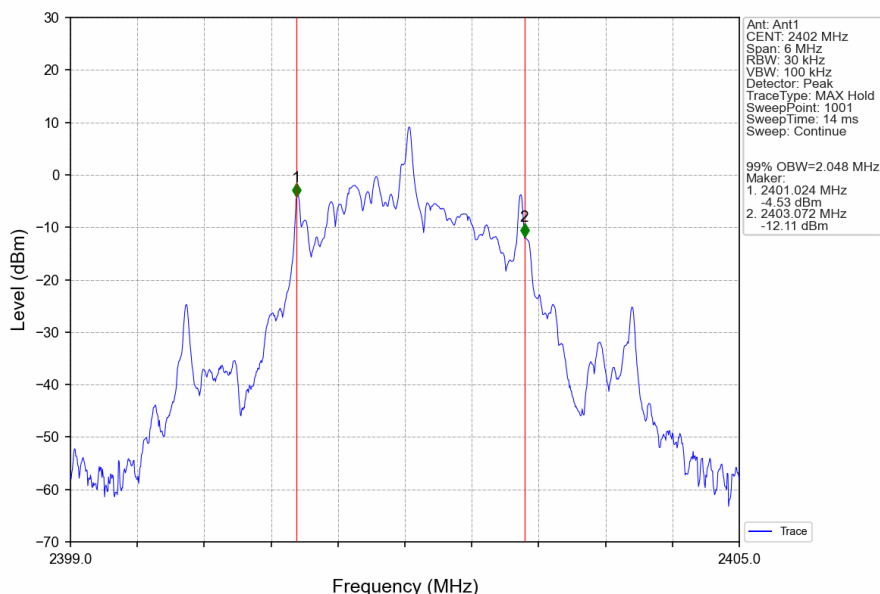
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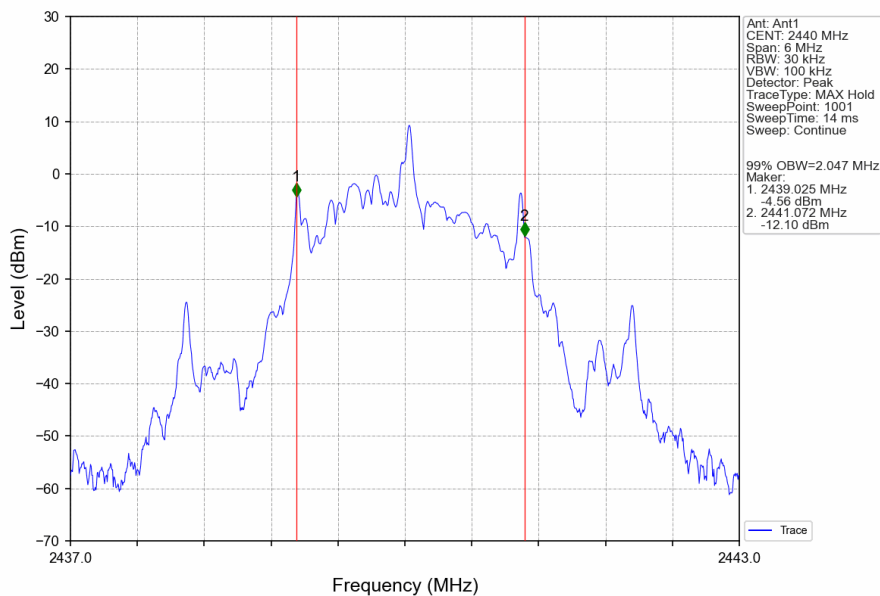
1M_HCH_2480MHz_Ant1_NTNV



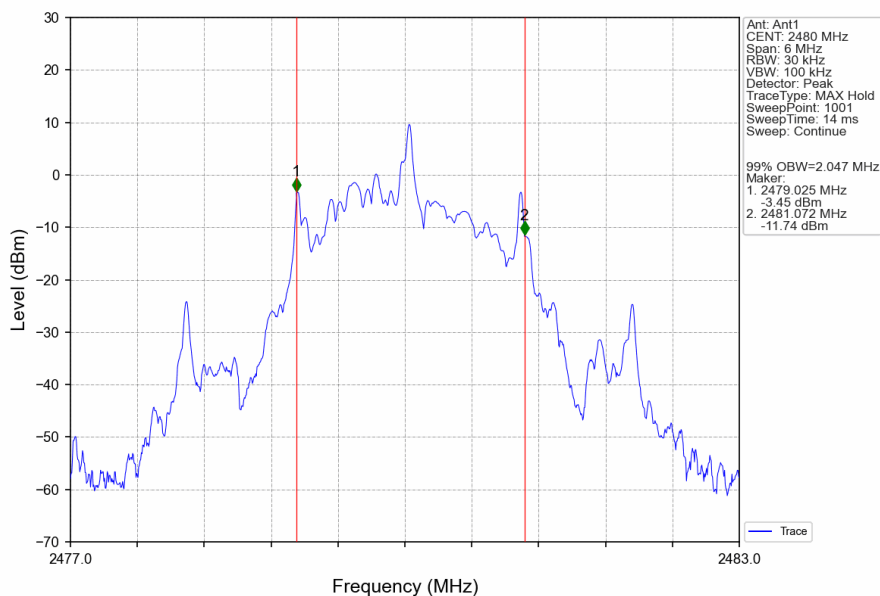
2M_LCH_2402MHz_Ant1_NTNV



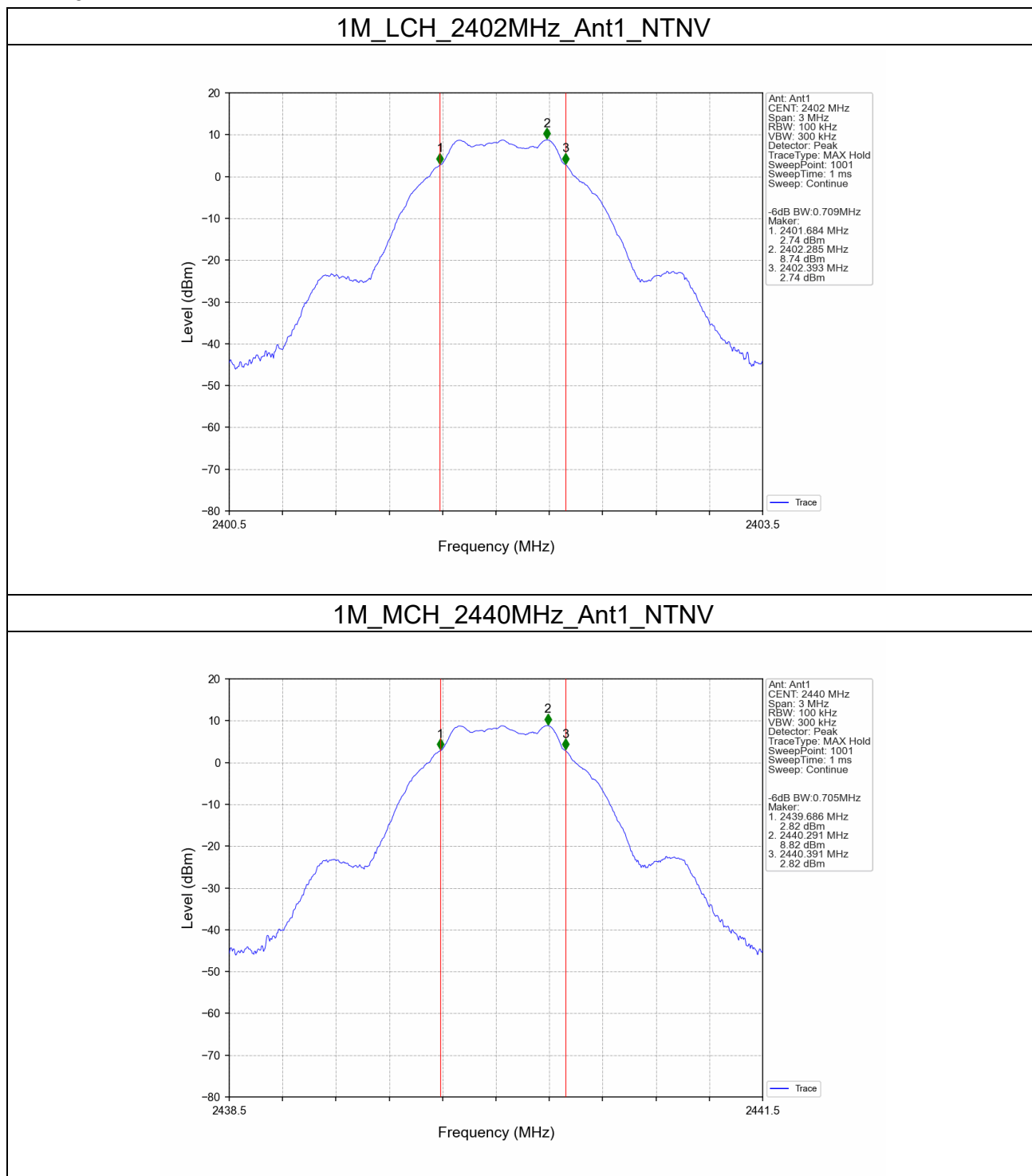
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2.2.2 6dB BW



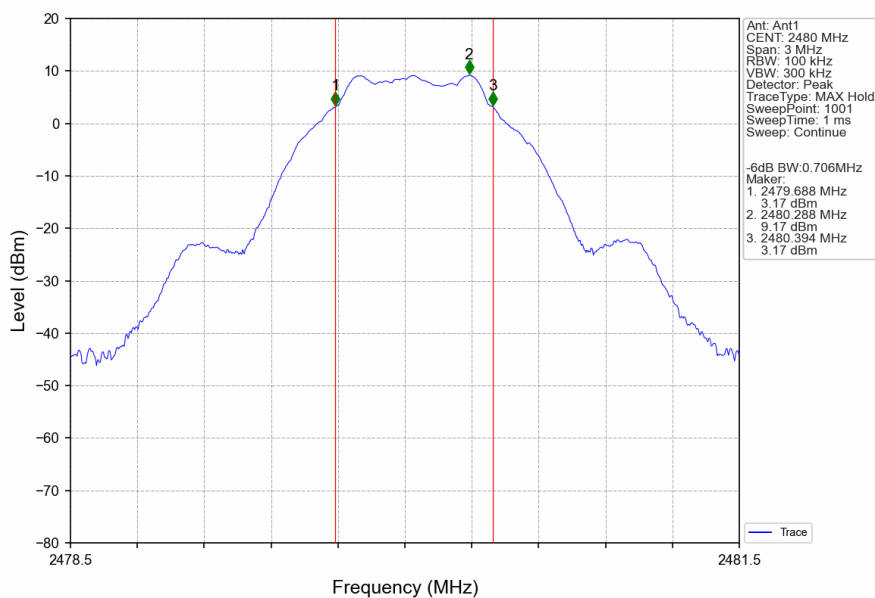
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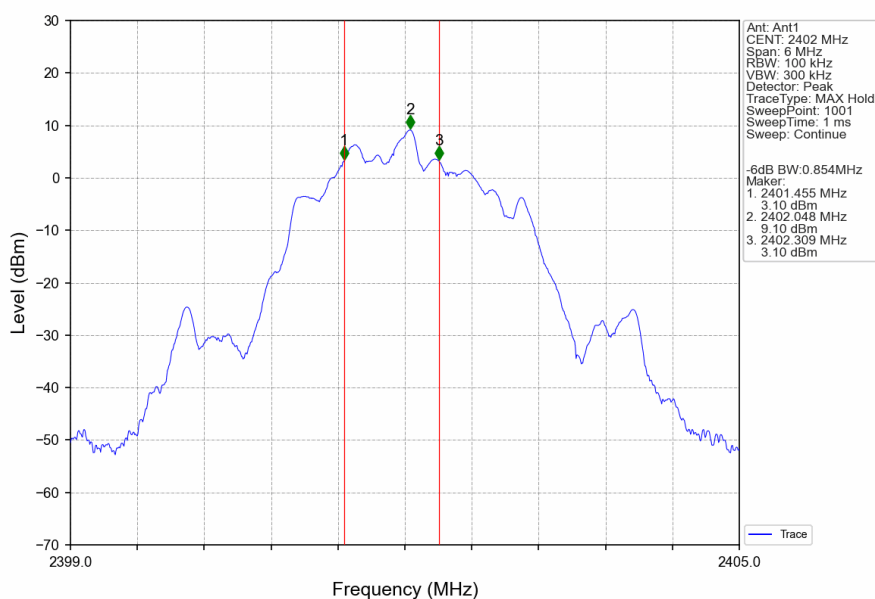
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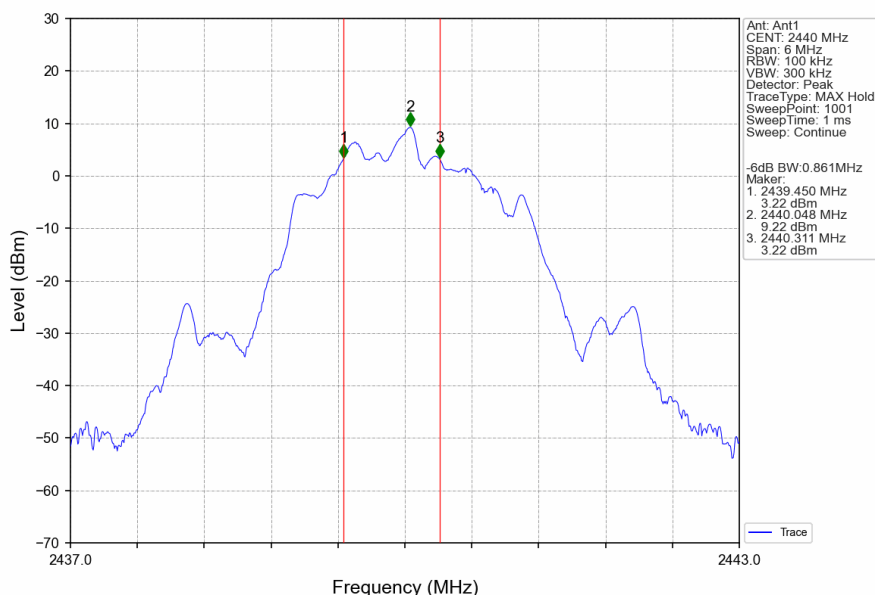
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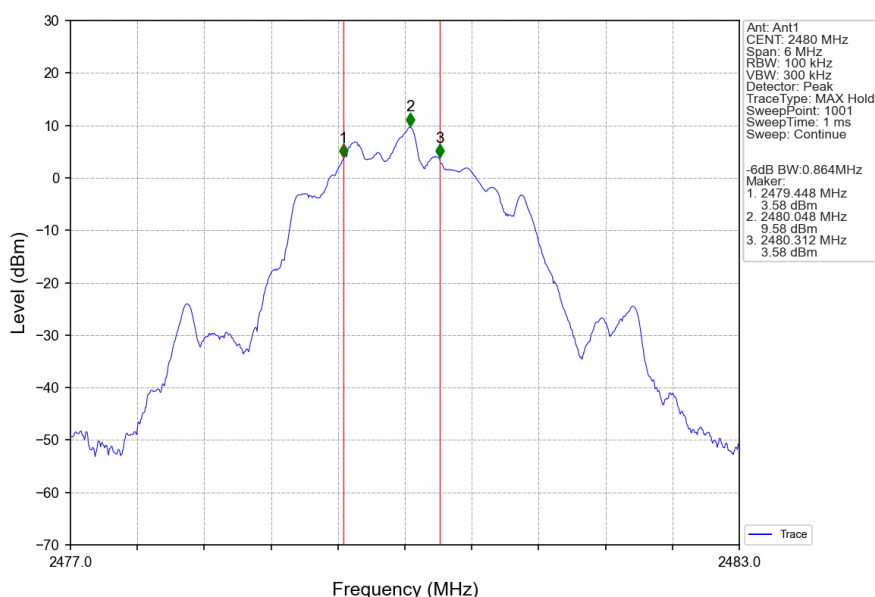
2M_LCH_2402MHz_Ant1_NTNV



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	9.49	<=30	Pass
		2440	9.87	<=30	Pass
		2480	10.29	<=30	Pass
2M	SISO	2402	9.66	<=30	Pass
		2440	10.03	<=30	Pass
		2480	10.49	<=30	Pass

Note1: Antenna Gain: Ant1: -2.40dBi;

4. Maximum Power Spectral Density

4.1 Test Result

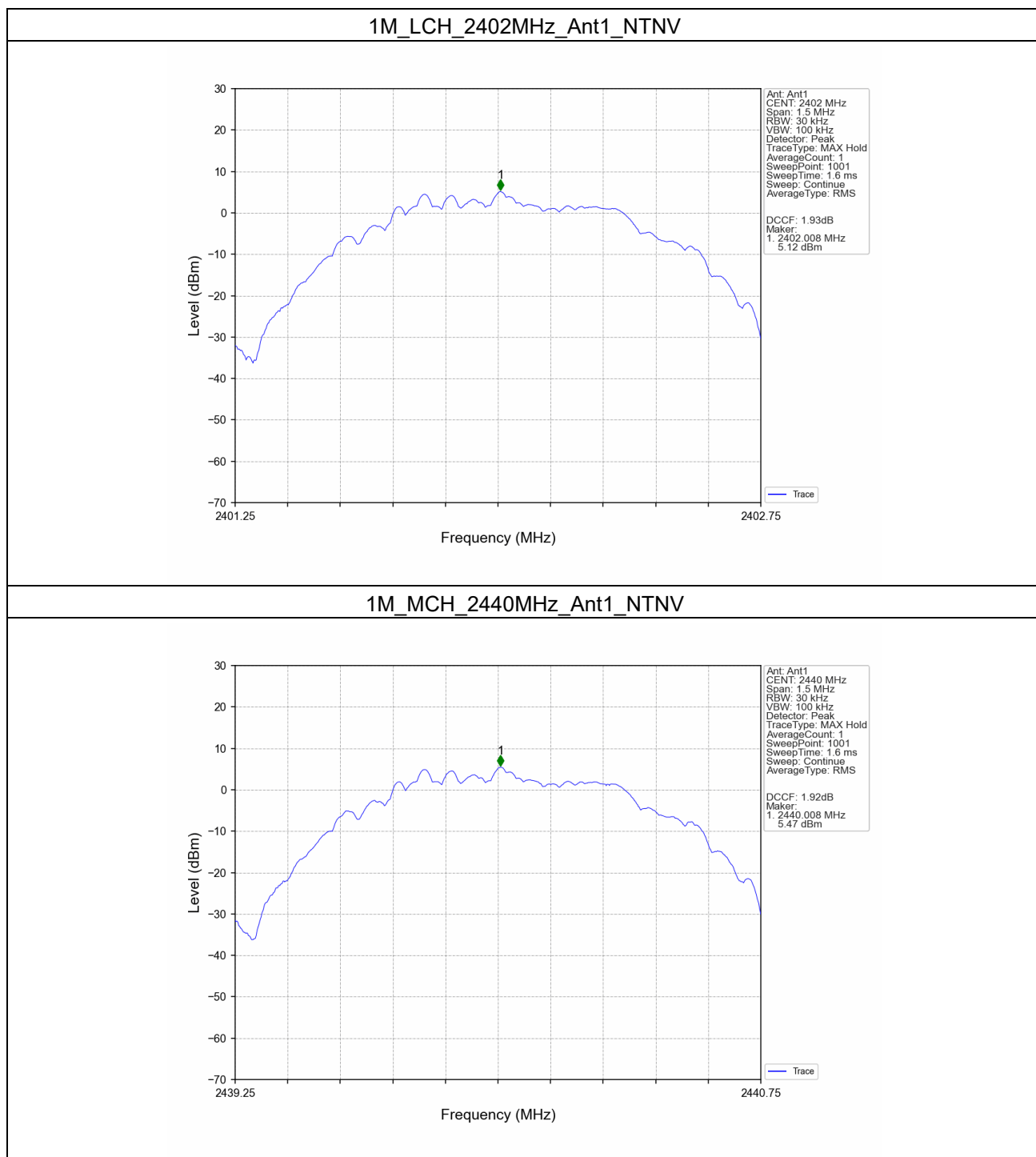
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	5.12	<=8	Pass
		2440	5.47	<=8	Pass
		2480	5.93	<=8	Pass
2M	SISO	2402	2.51	<=8	Pass
		2440	2.94	<=8	Pass
		2480	3.39	<=8	Pass

Note1: Antenna Gain: Ant1: -2.40dBi;

4.2 Test Graph

4.2.1 PSD



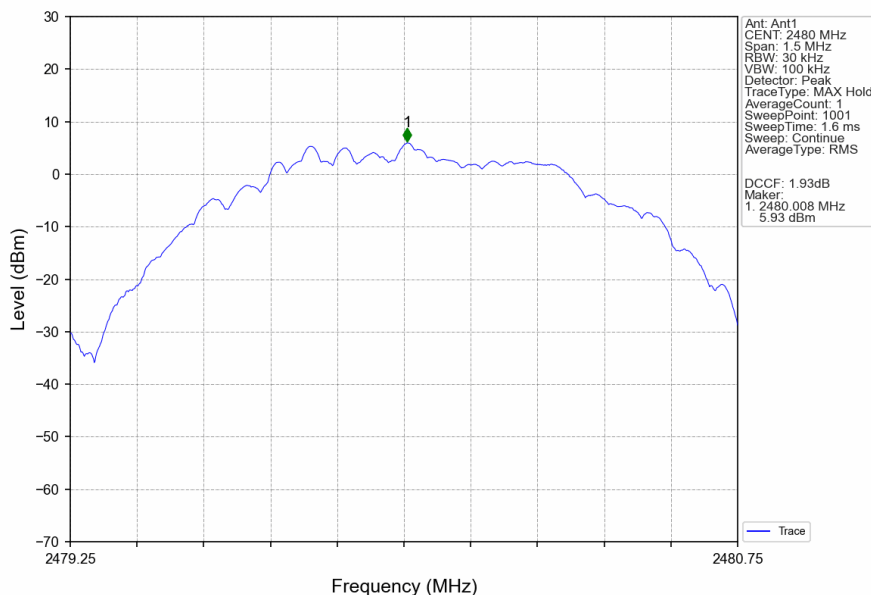
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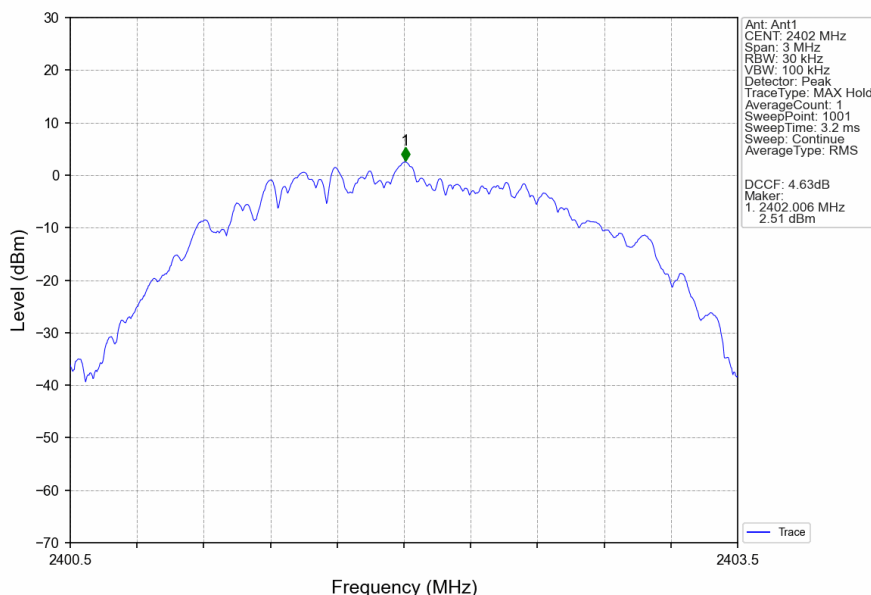
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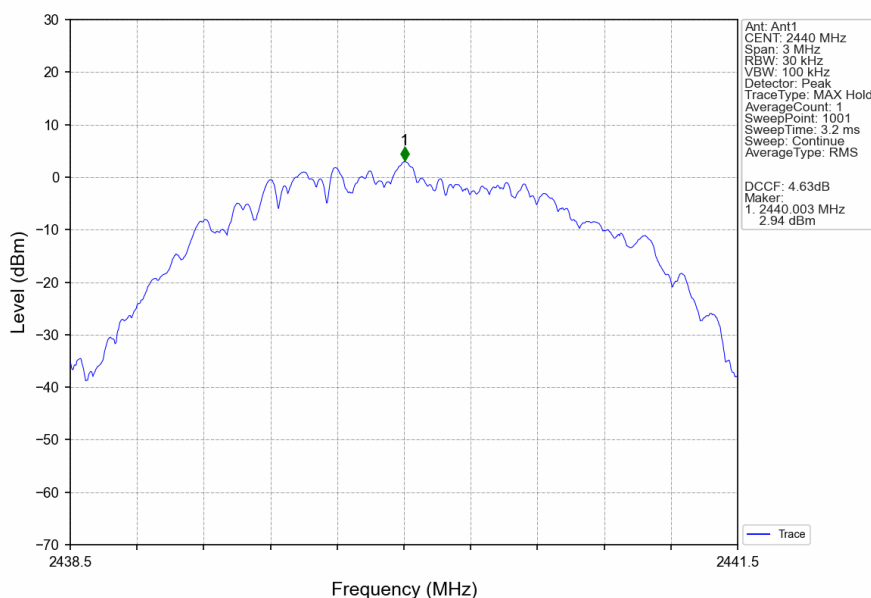
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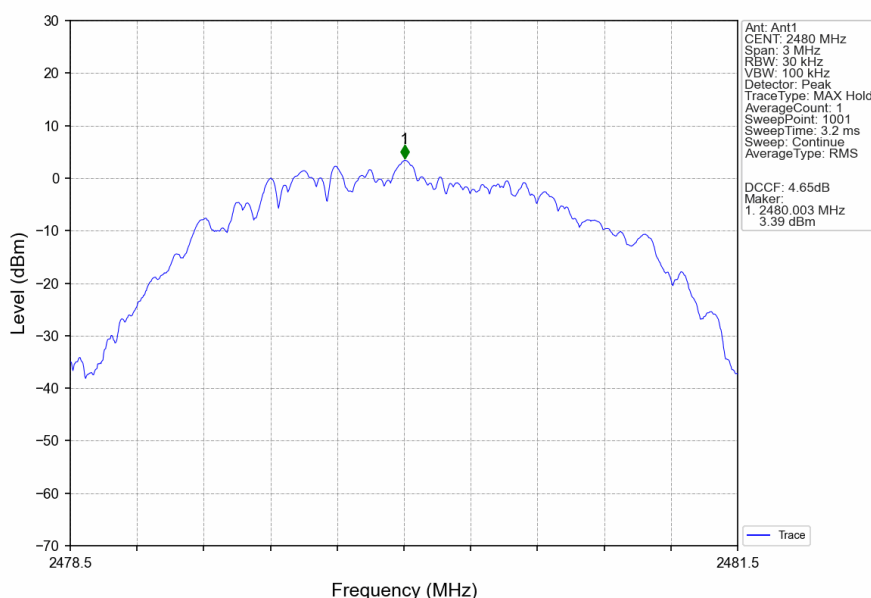
2M_LCH_2402MHz_Ant1_NTNV



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	8.54
		2440	1	8.90
		2480	1	9.34
2M	SISO	2402	1	8.26
		2440	1	8.68
		2480	1	9.11

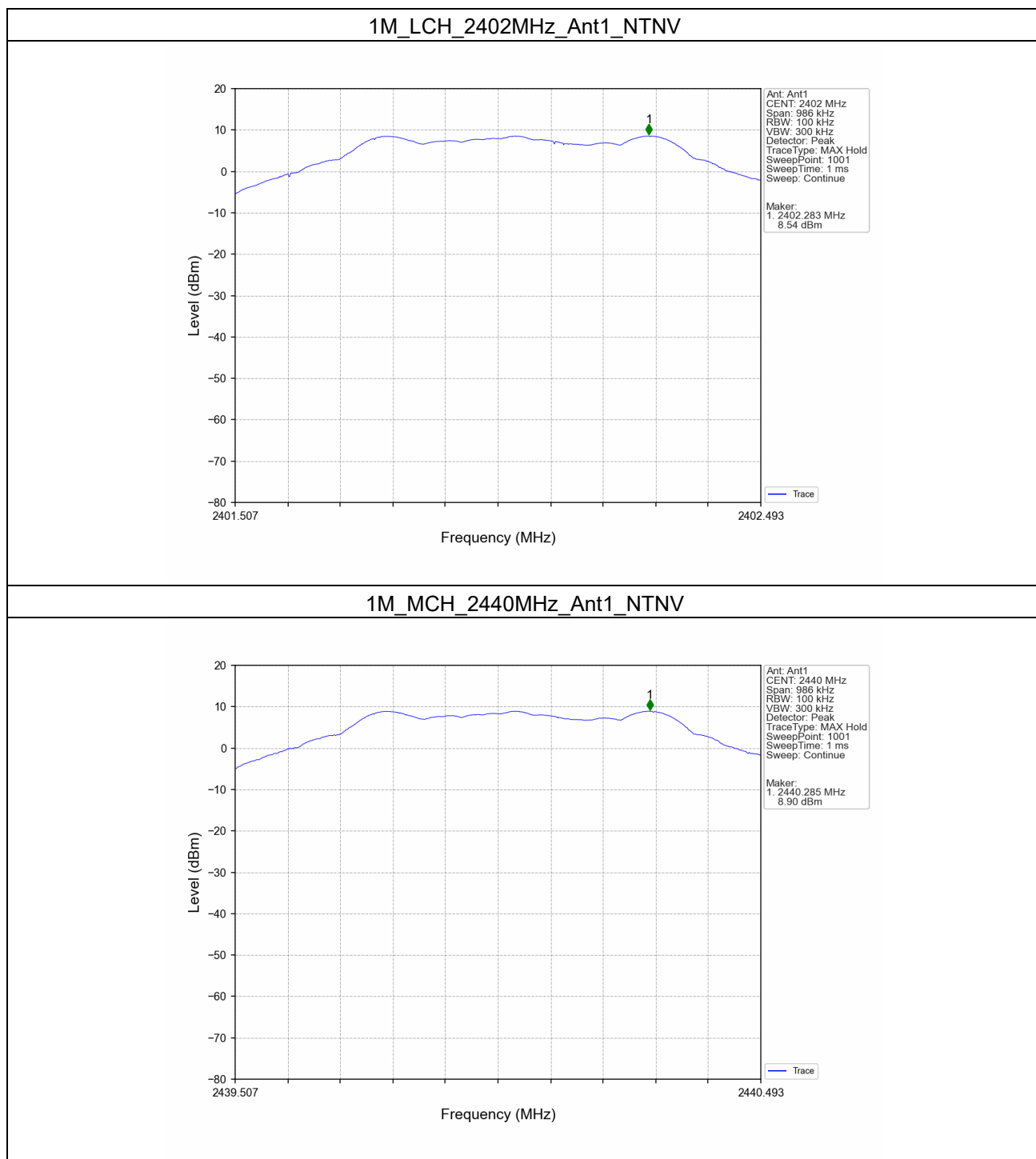
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	9.34	-10.66	Pass
		2440	1	9.34	-10.66	Pass
		2480	1	9.34	-10.66	Pass
2M	SISO	2402	1	9.11	-10.89	Pass
		2440	1	9.11	-10.89	Pass
		2480	1	9.11	-10.89	Pass



5.2 Test Graph

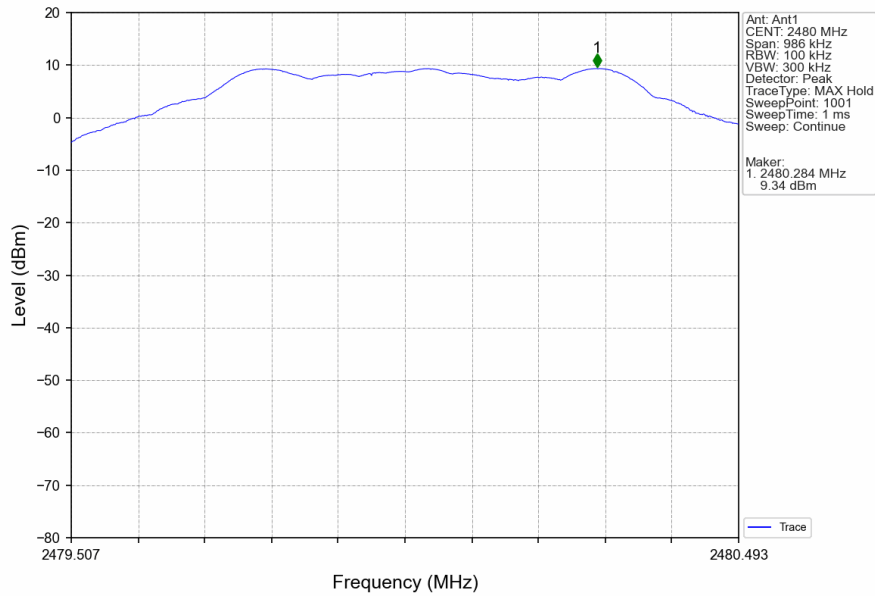
5.2.1 Ref



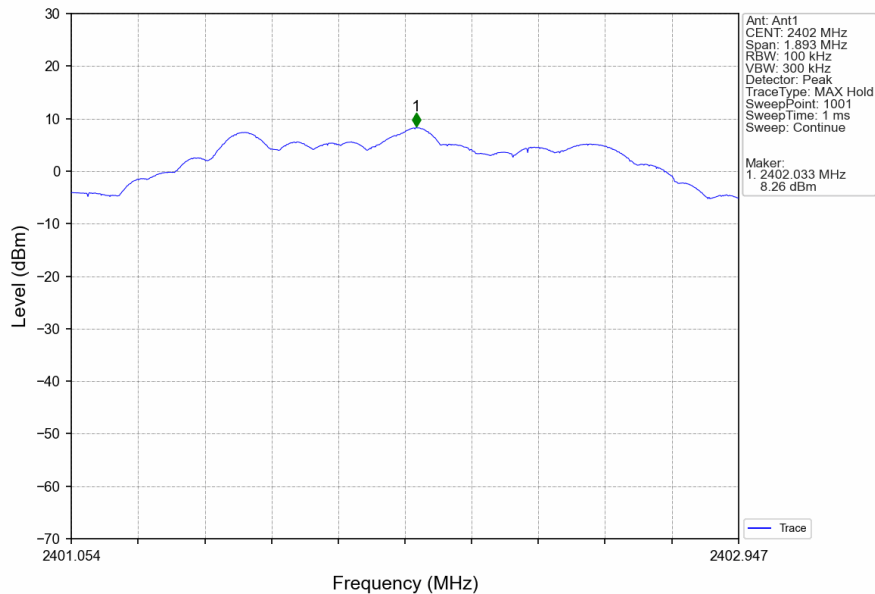
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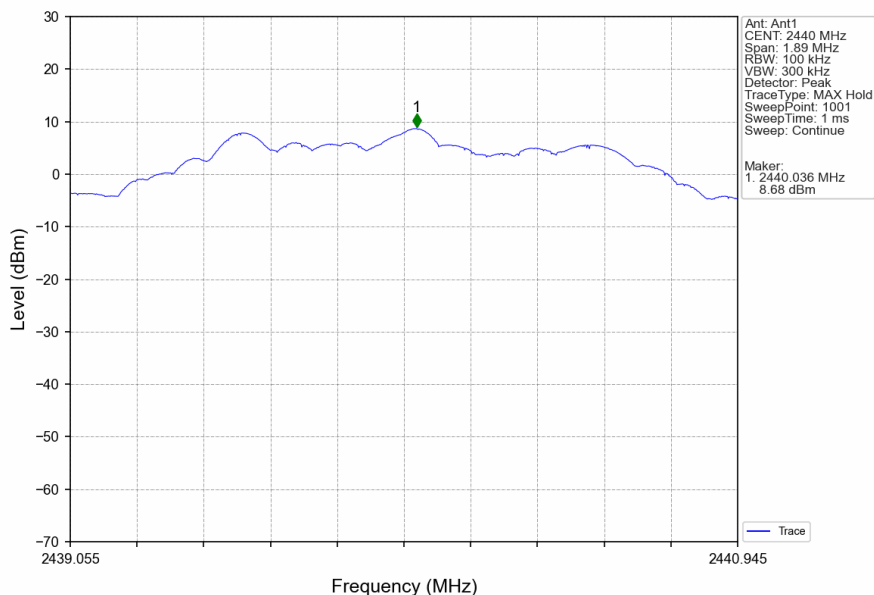
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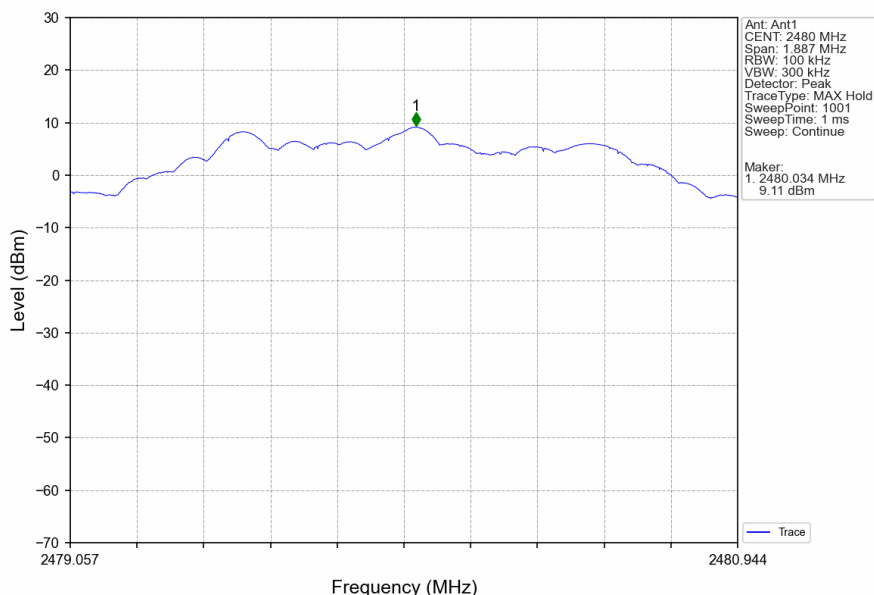
2M_LCH_2402MHz_Ant1_NTNV



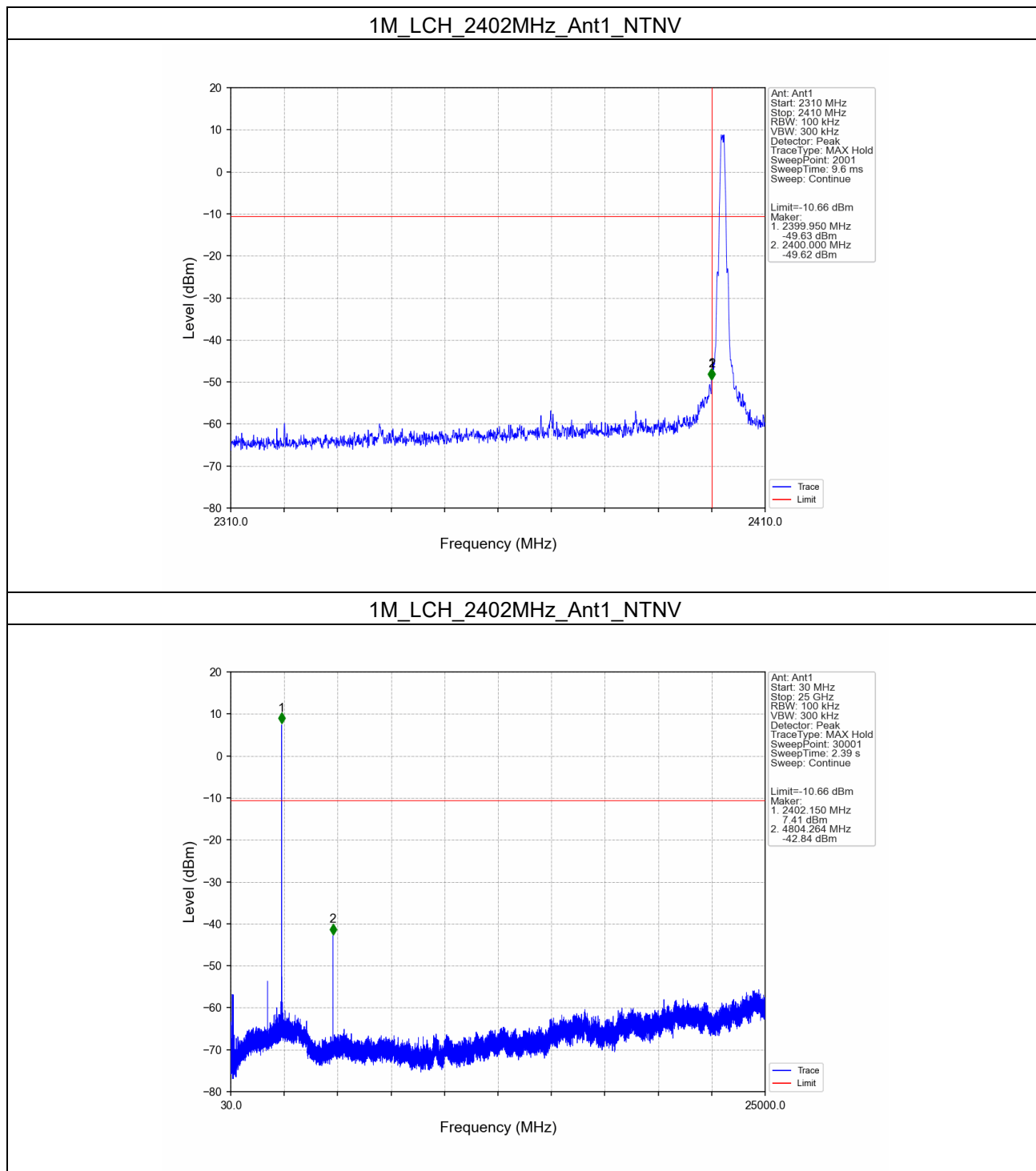
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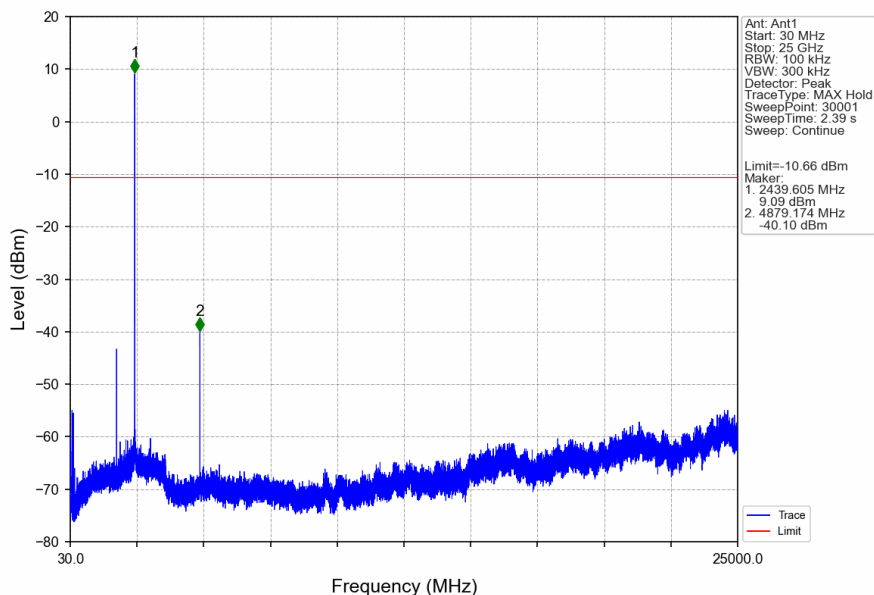
2M_HCH_2480MHz_Ant1_NTNV



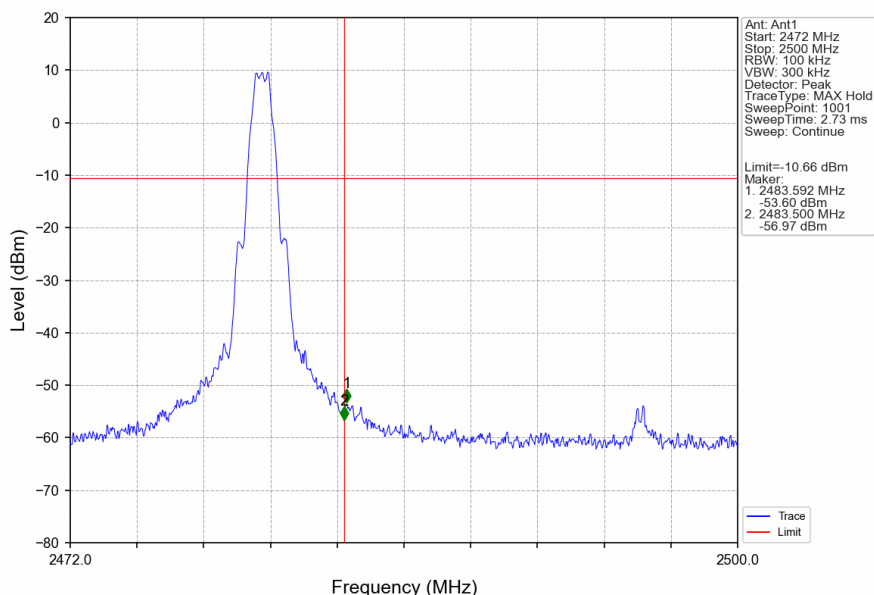
5.2.2 CSE



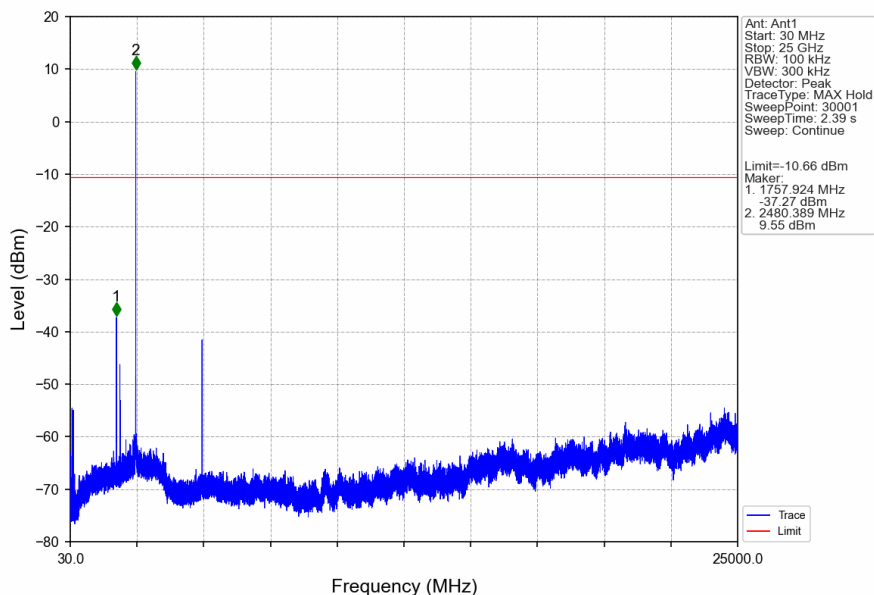
1M_MCH_2440MHz_Ant1_NTNV



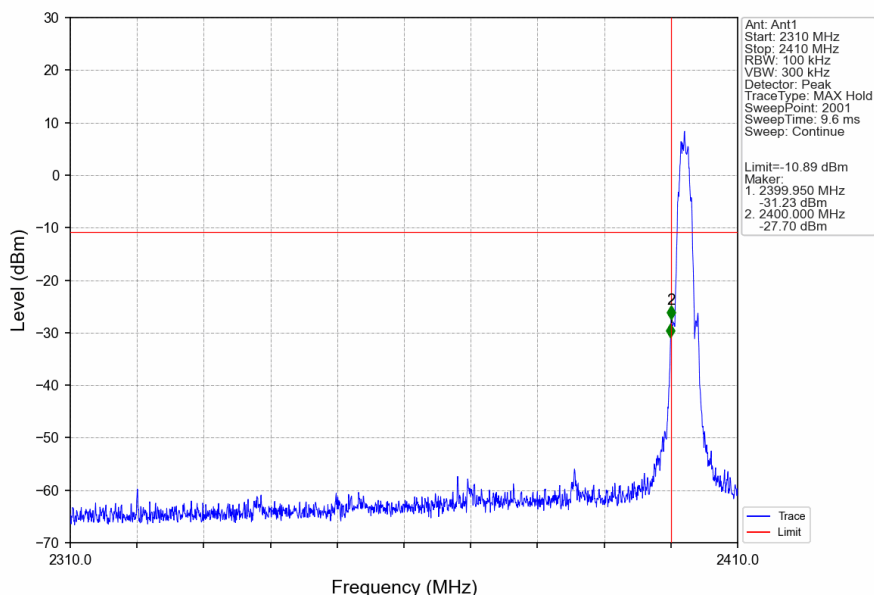
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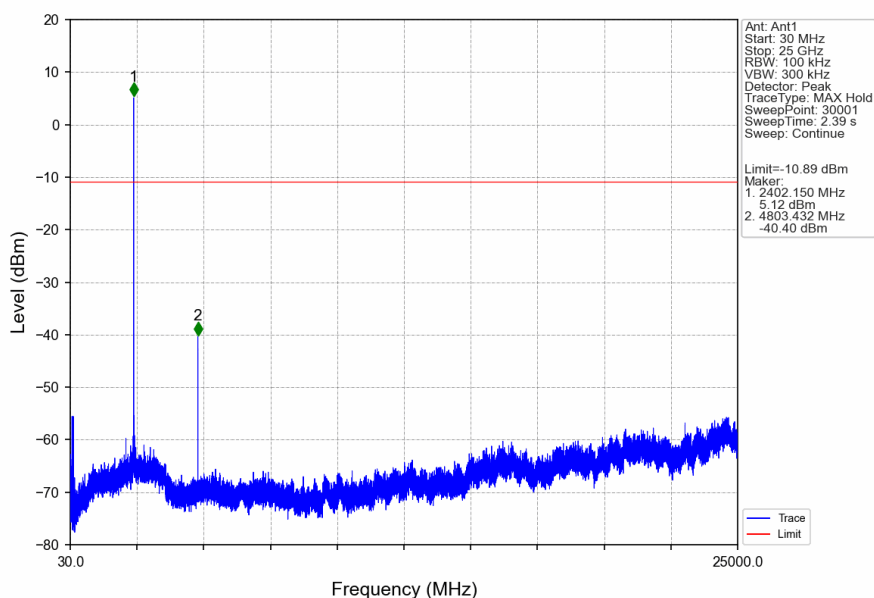
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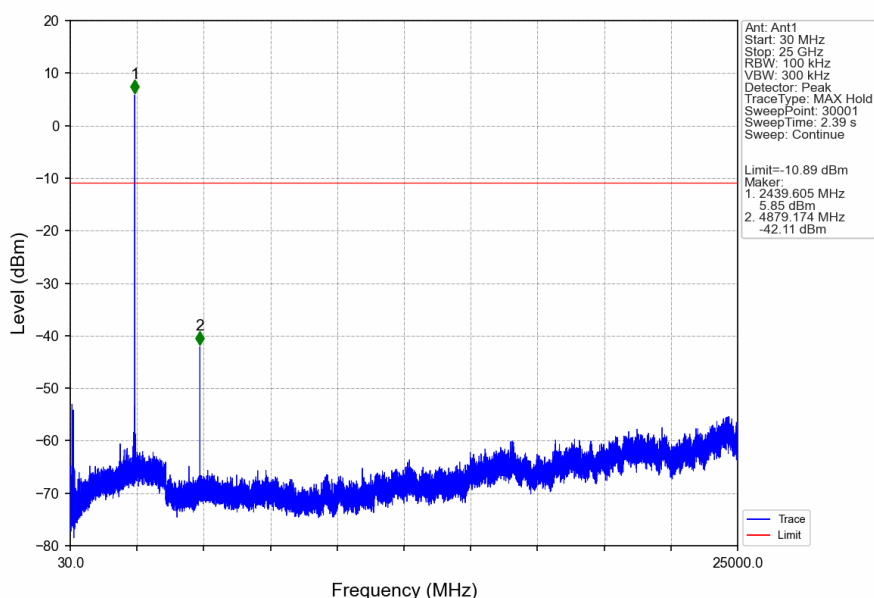
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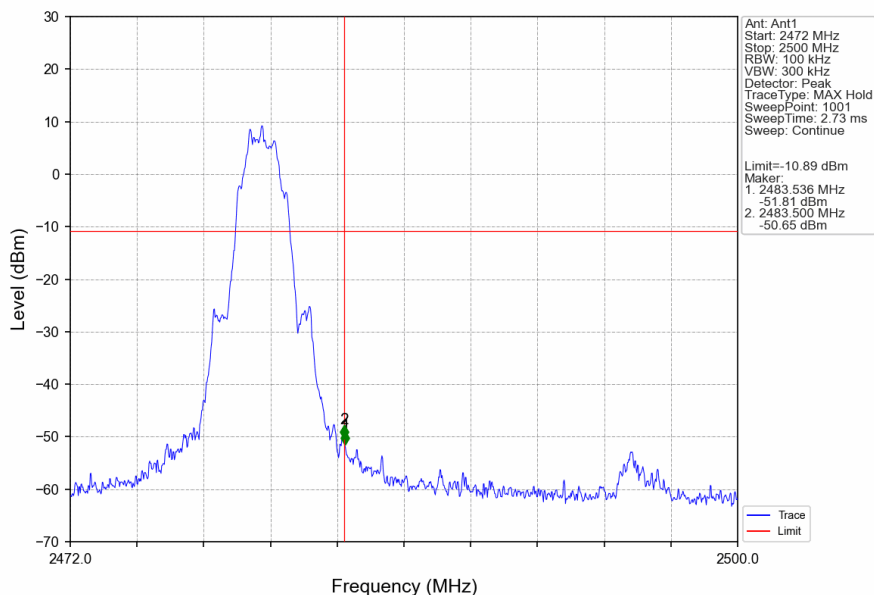
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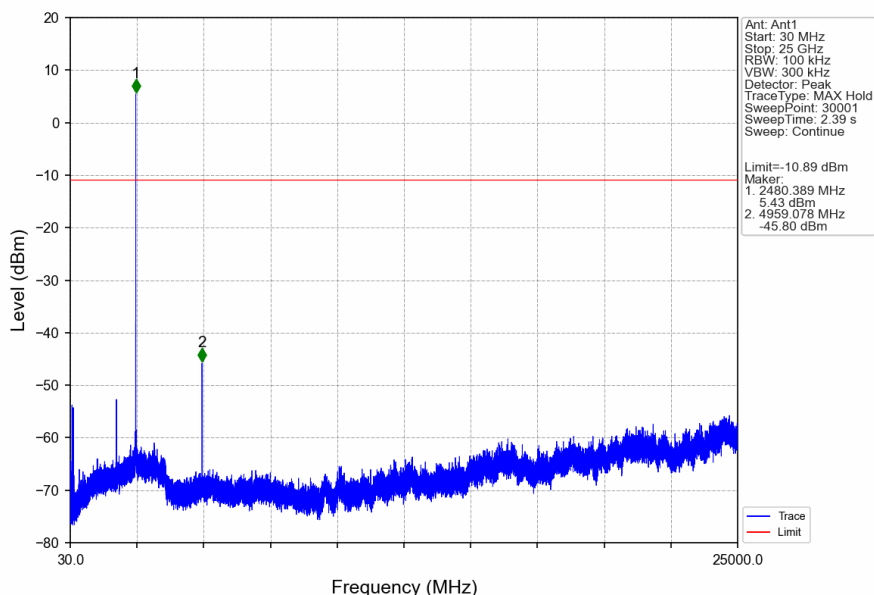
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



For left earbud:

1. Duty Cycle

1.1 Test Result

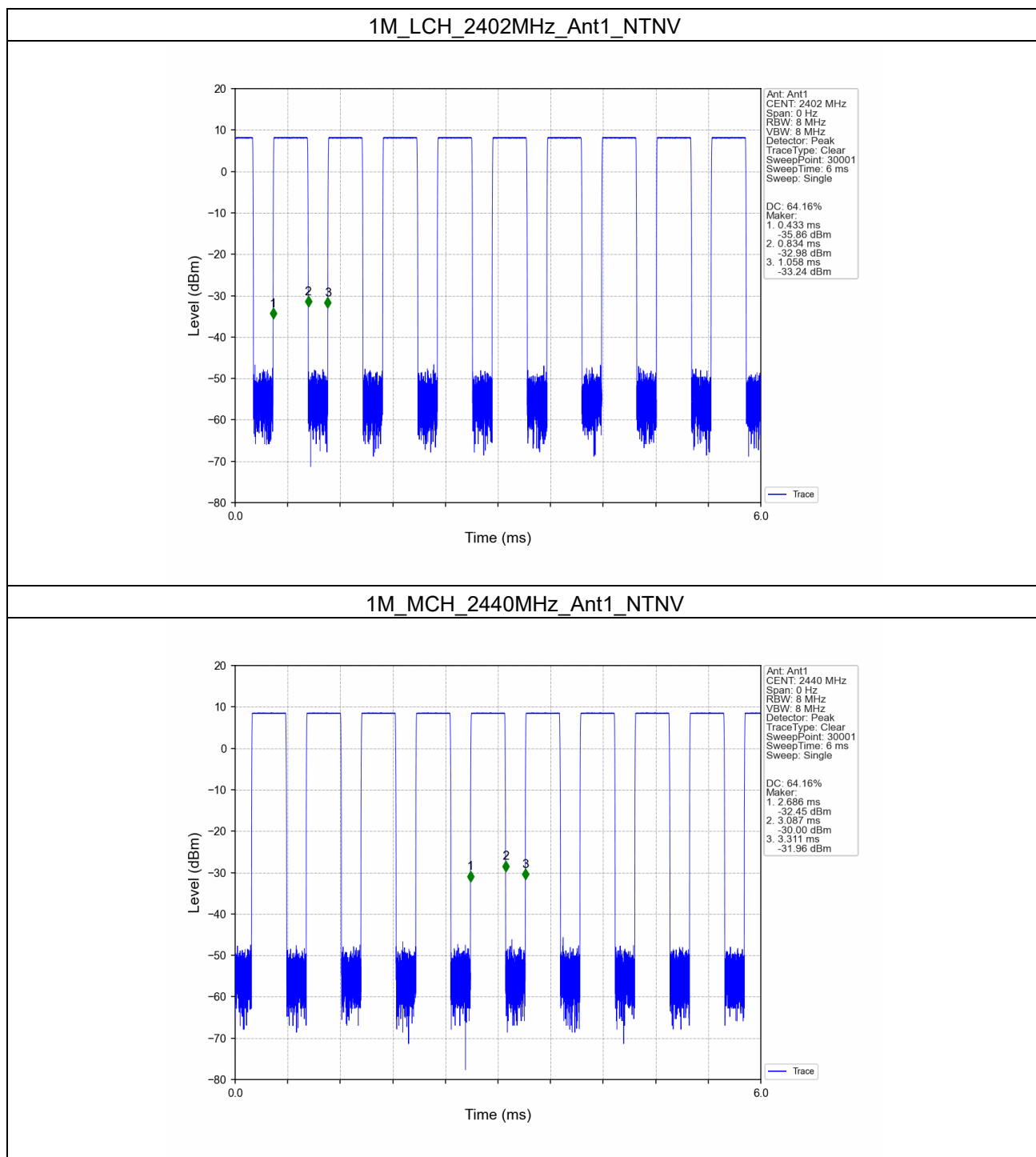
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.401	0.625	64.16	1.93	0.06
		2440	0.401	0.625	64.16	1.93	0.03
		2480	0.401	0.625	64.16	1.93	0.00
2M	SISO	2402	0.215	0.625	34.40	4.63	0.00
		2440	0.214	0.625	34.24	4.65	0.03
		2480	0.215	0.625	34.40	4.63	0.00



1.2 Test Graph

1.2.1 Ant1



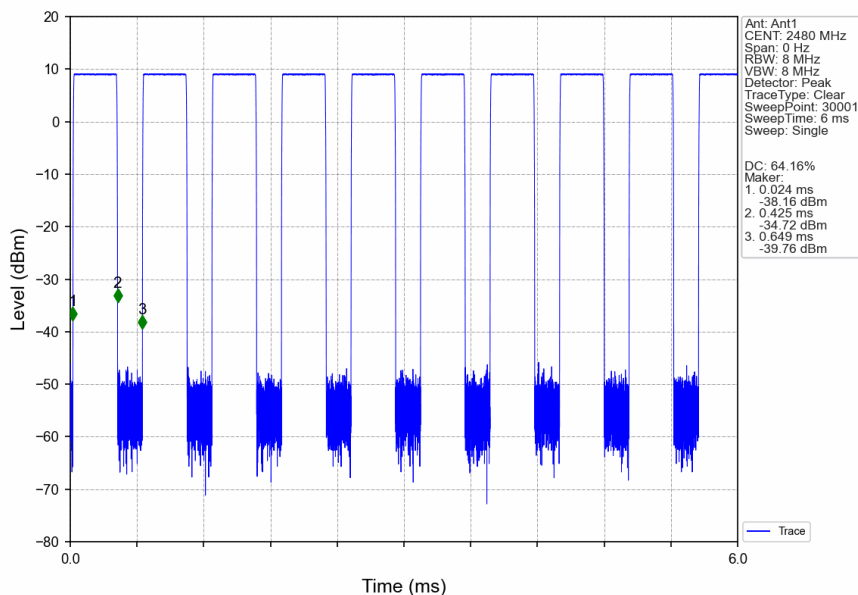
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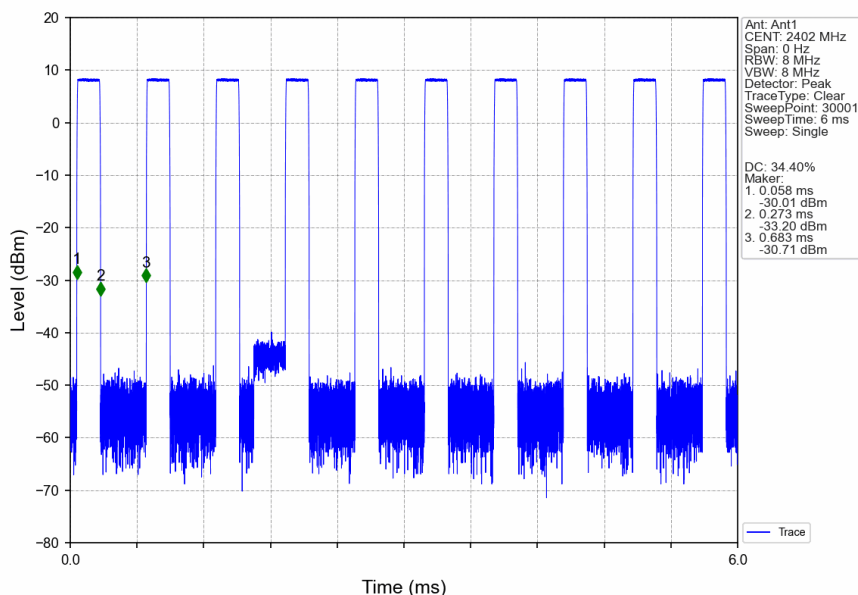
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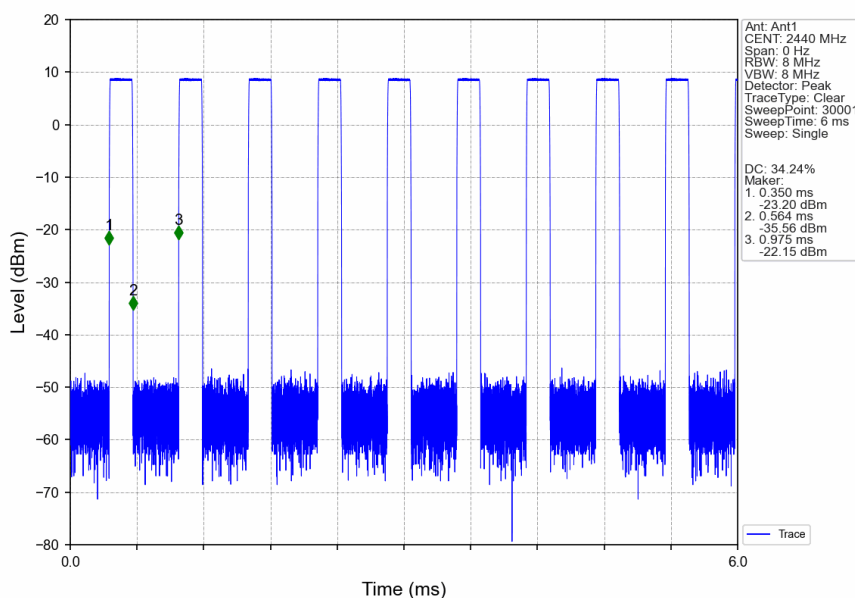
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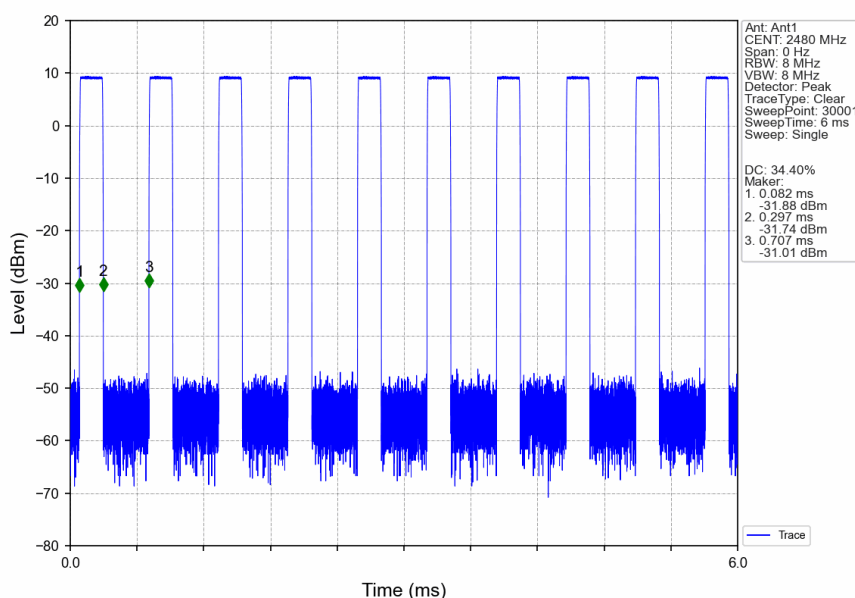
2M_LCH_2402MHz_Ant1_NTNV



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	1.025	/	Pass
		2440	1	1.026	/	Pass
		2480	1	1.026	/	Pass
2M	SISO	2402	1	2.049	/	Pass
		2440	1	2.048	/	Pass
		2480	1	2.048	/	Pass

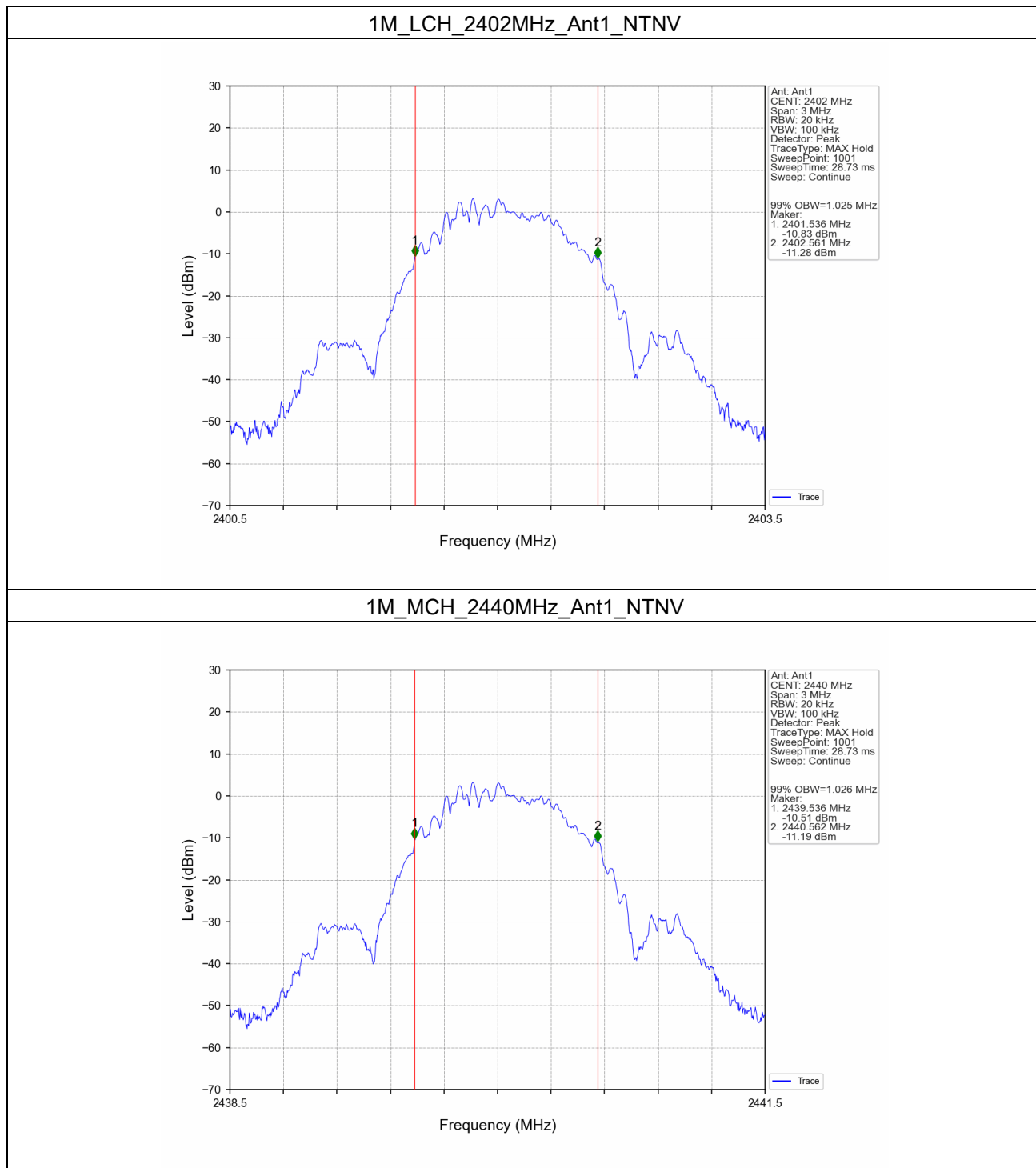
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.709	≥ 0.5	Pass
		2440	1	0.707	≥ 0.5	Pass
		2480	1	0.703	≥ 0.5	Pass
2M	SISO	2402	1	0.863	≥ 0.5	Pass
		2440	1	0.865	≥ 0.5	Pass
		2480	1	0.850	≥ 0.5	Pass

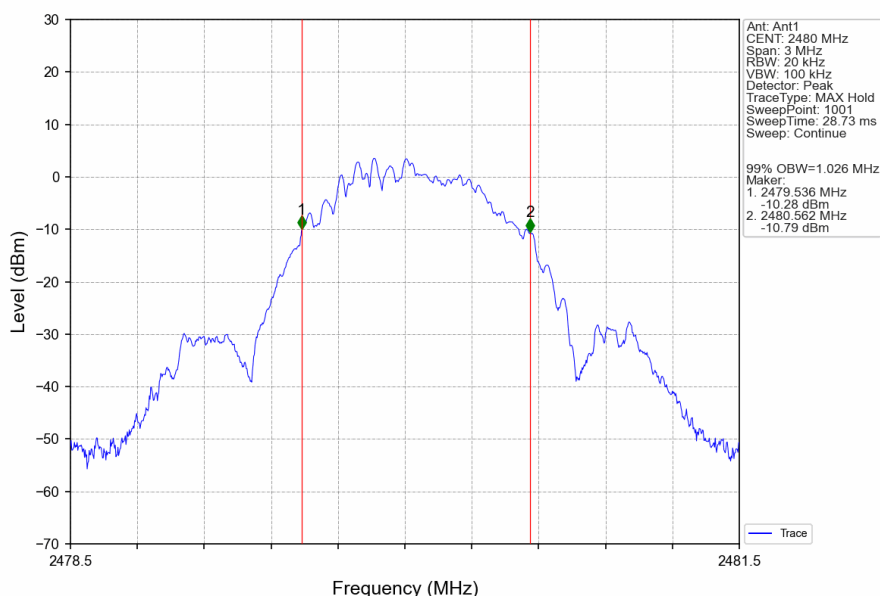


2.2 Test Graph

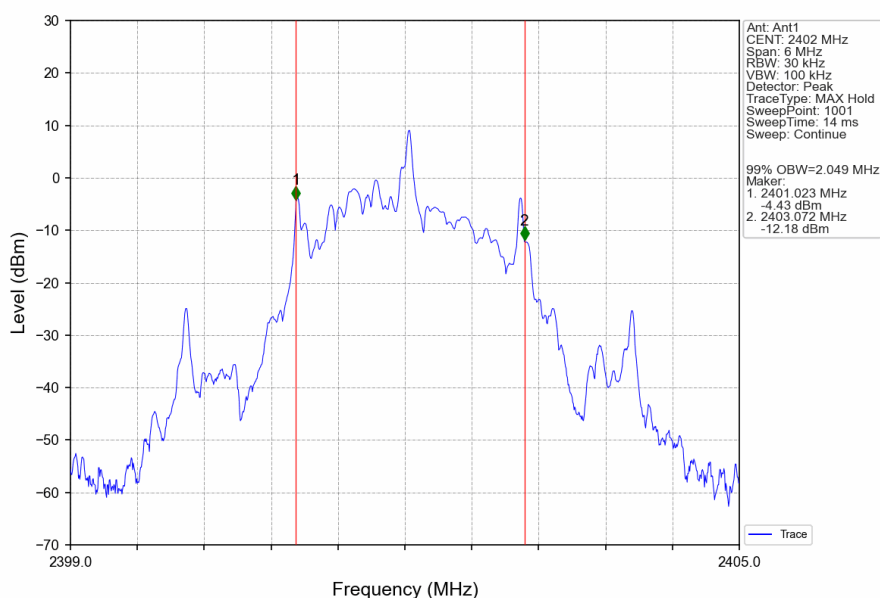
2.2.1 OBW



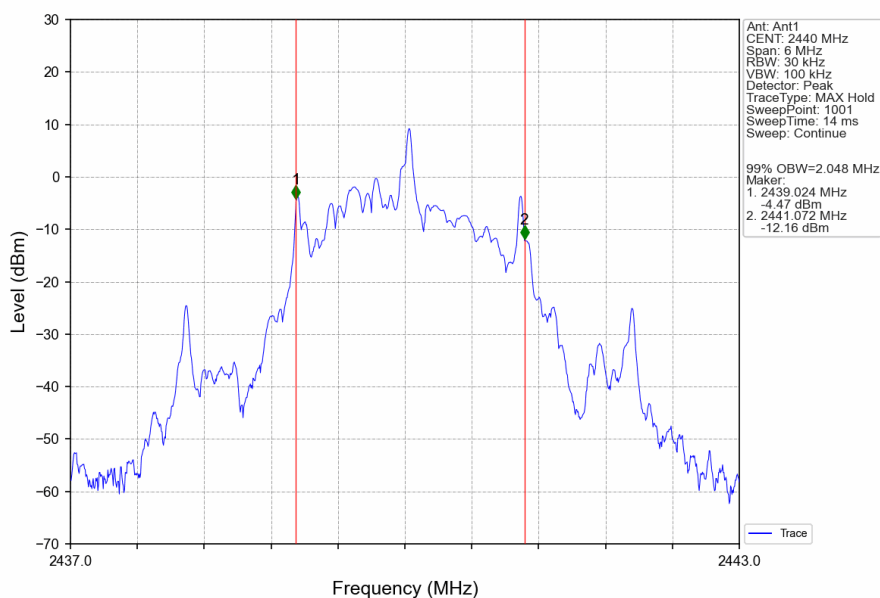
1M_HCH_2480MHz_Ant1_NTNV



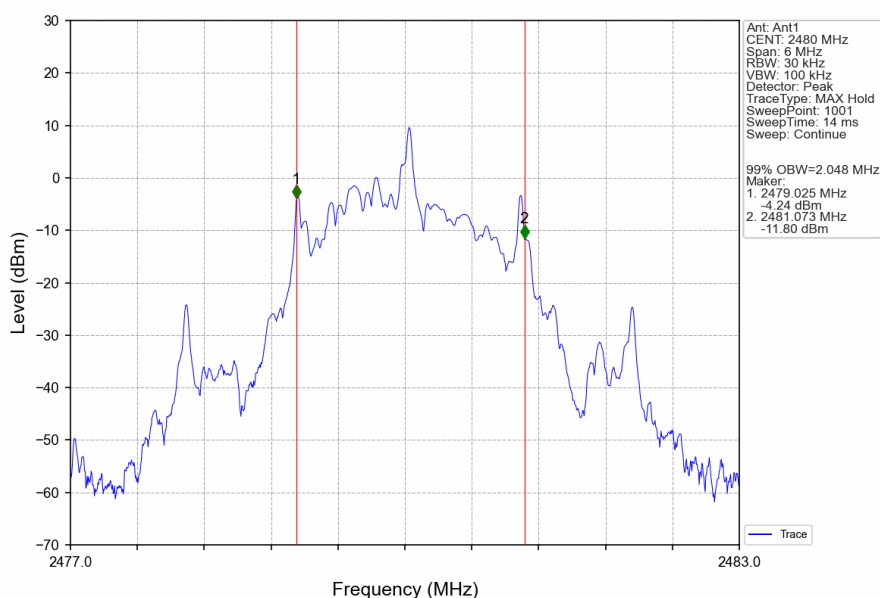
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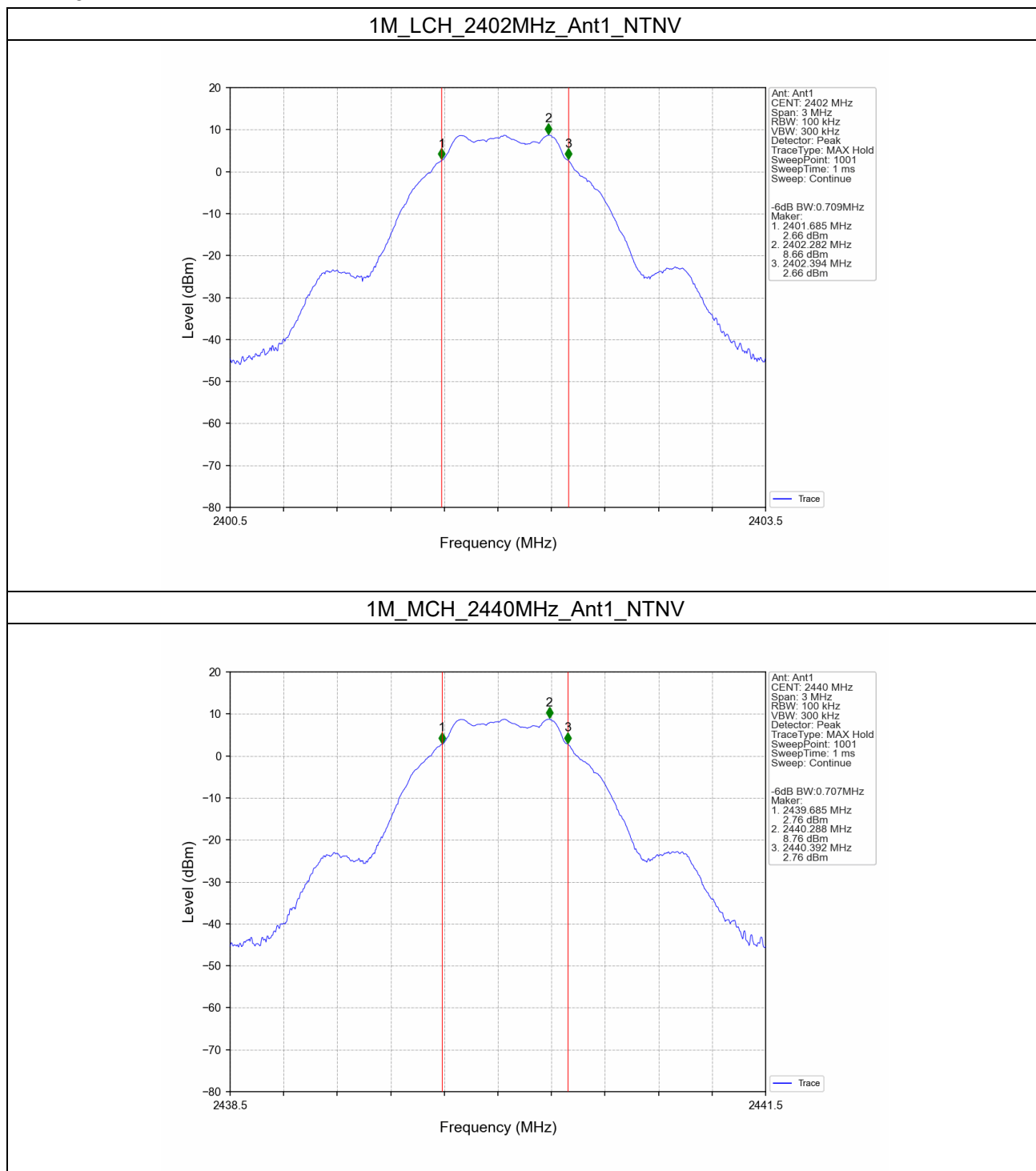
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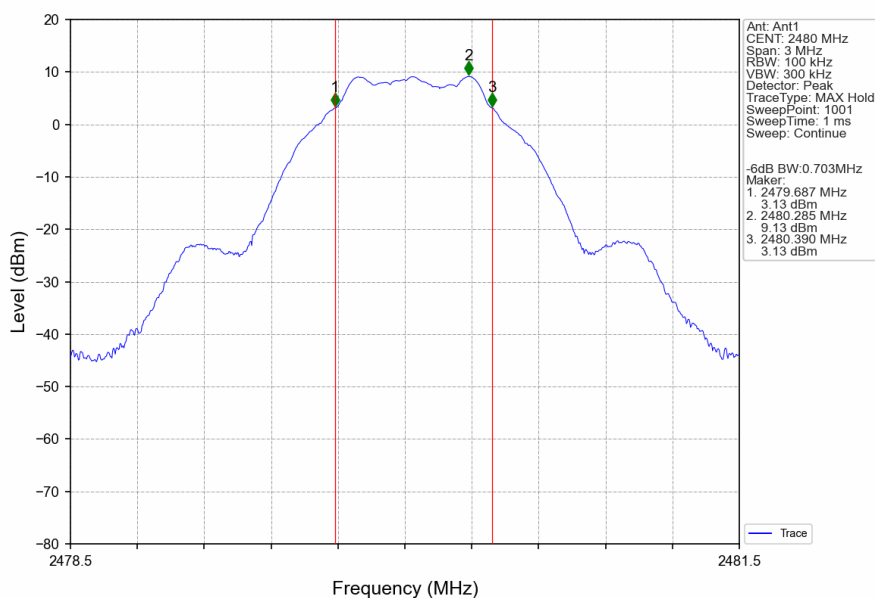
2M_HCH_2480MHz_Ant1_NTNV



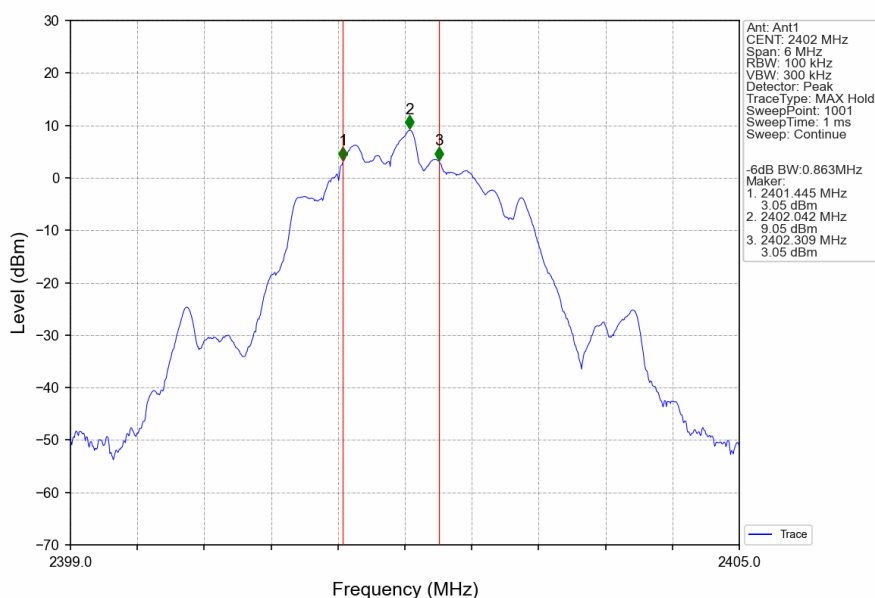
2.2.2 6dB BW



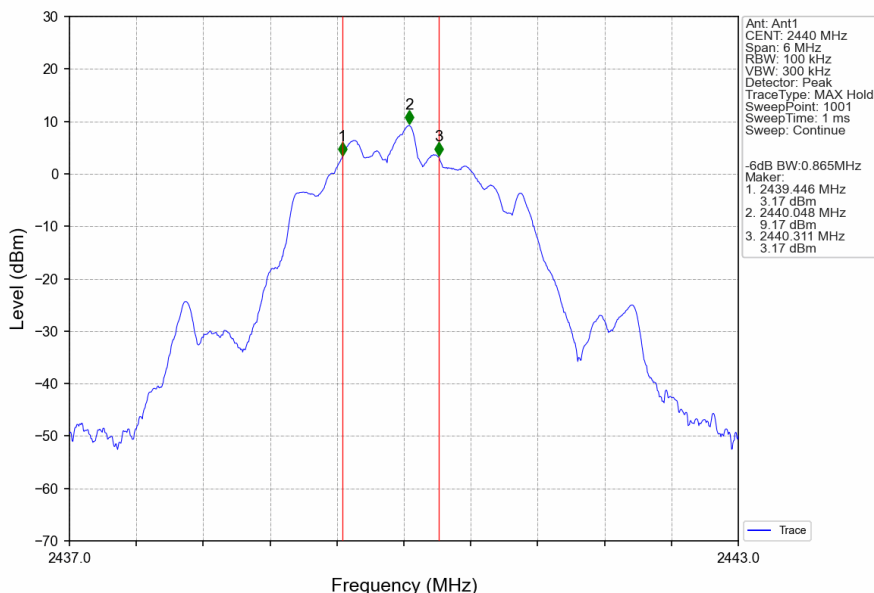
1M_HCH_2480MHz_Ant1_NTNV



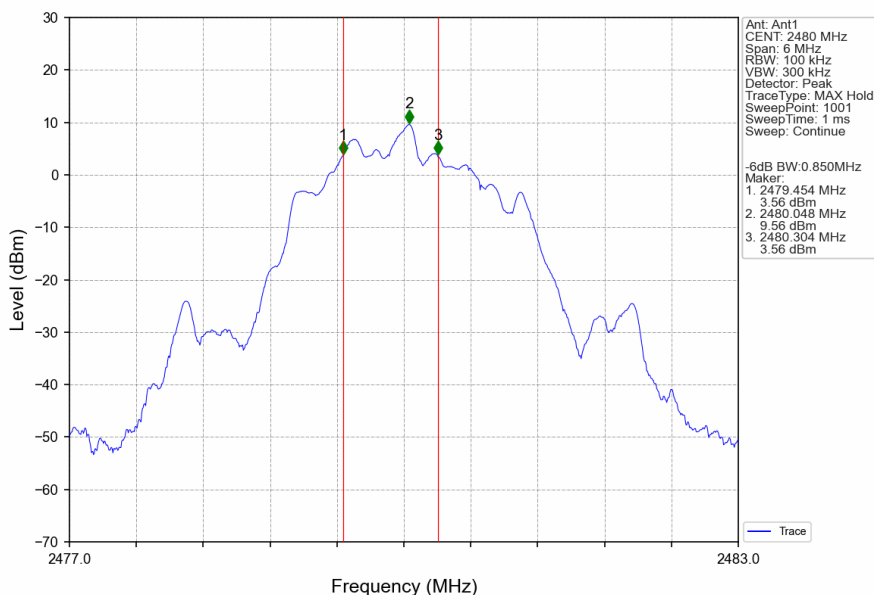
2M_LCH_2402MHz_Ant1_NTNV



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	8.18	<=30	Pass
		2440	8.51	<=30	Pass
		2480	9.06	<=30	Pass
2M	SISO	2402	8.26	<=30	Pass
		2440	8.61	<=30	Pass
		2480	9.19	<=30	Pass

Note1: Antenna Gain: Ant1: -3.20dBi;

4. Maximum Power Spectral Density

4.1 Test Result

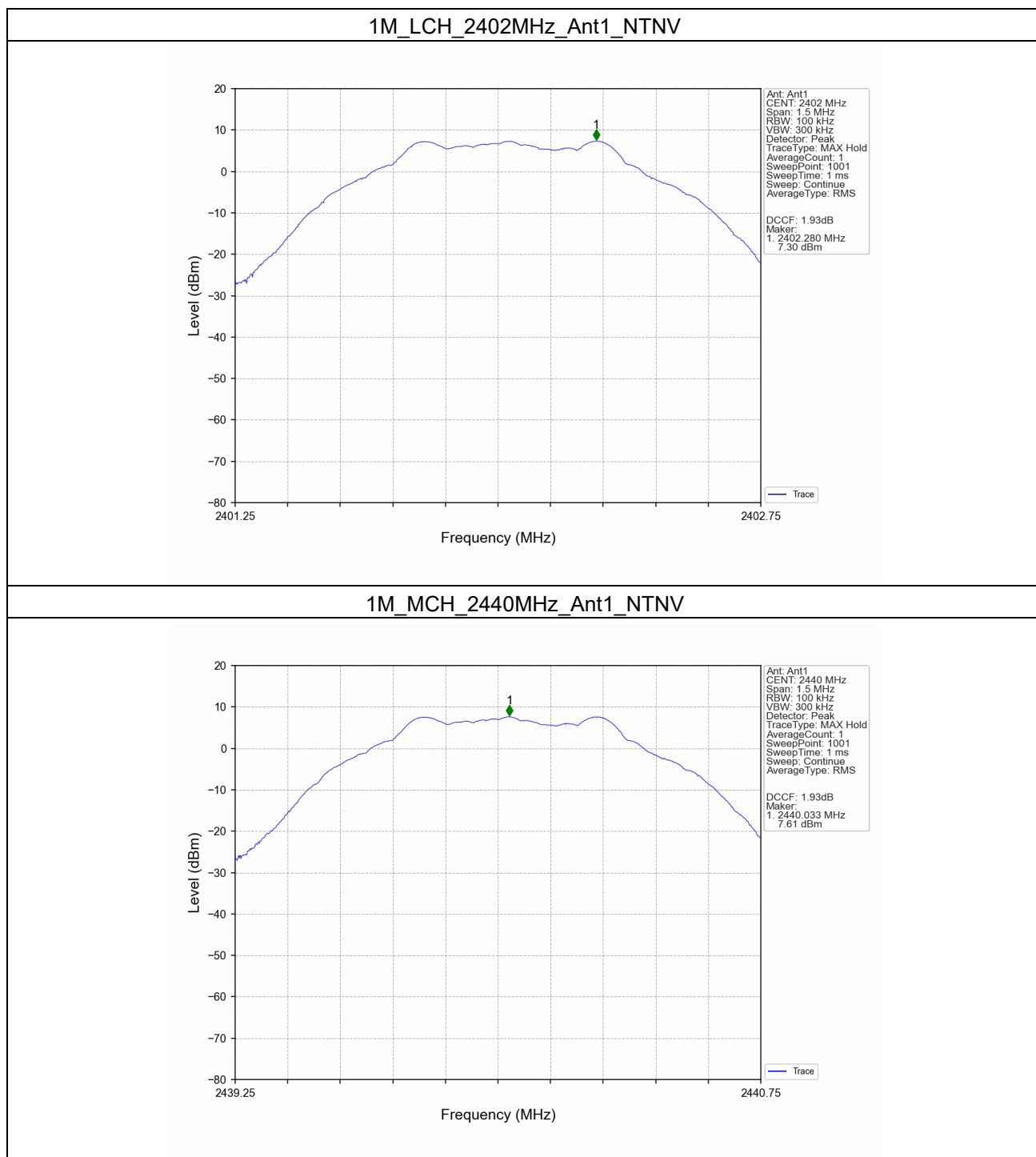
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	7.30	<=8	Pass
		2440	7.61	<=8	Pass
		2480	4.73	<=8	Pass
2M	SISO	2402	6.86	<=8	Pass
		2440	7.33	<=8	Pass
		2480	7.89	<=8	Pass

Note1: Antenna Gain: Ant1: -3.20dBi;

4.2 Test Graph

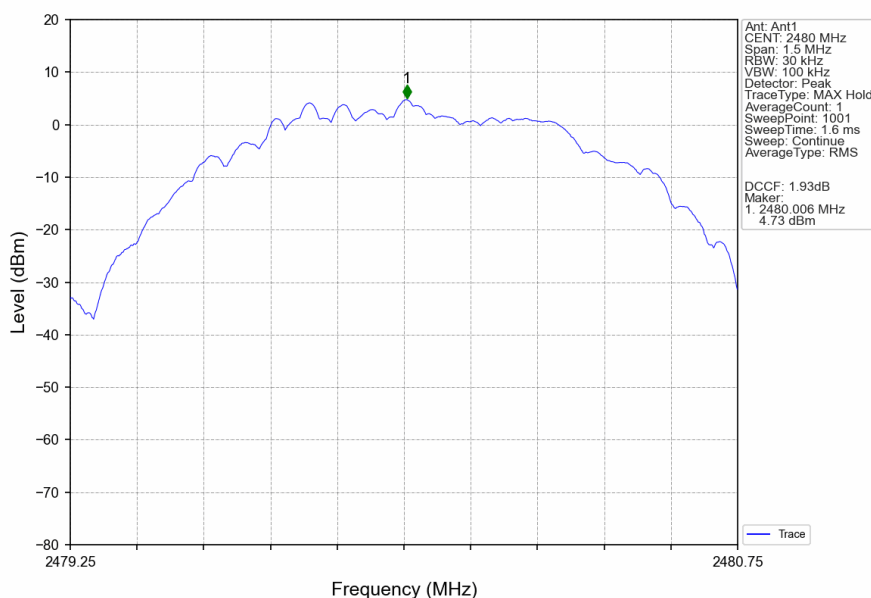
4.2.1 PSD



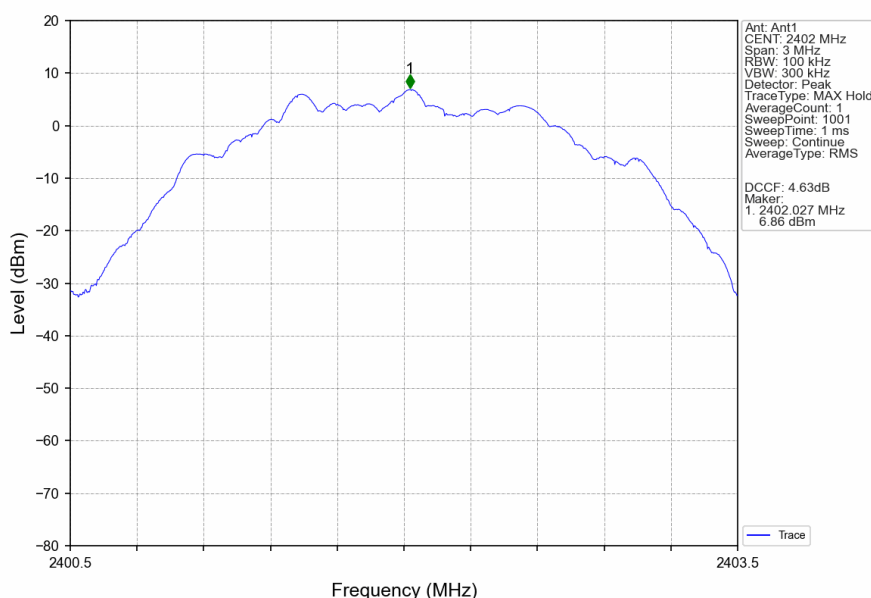
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



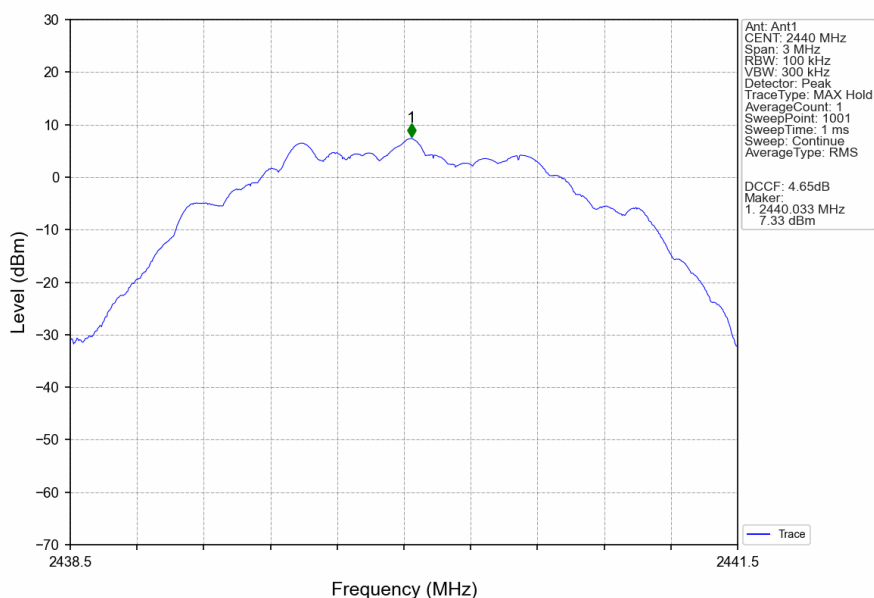
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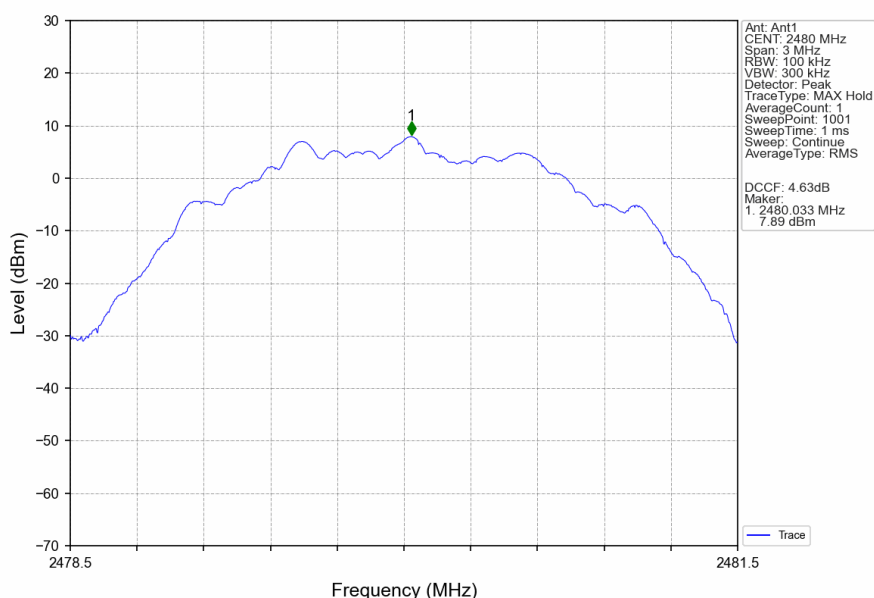
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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

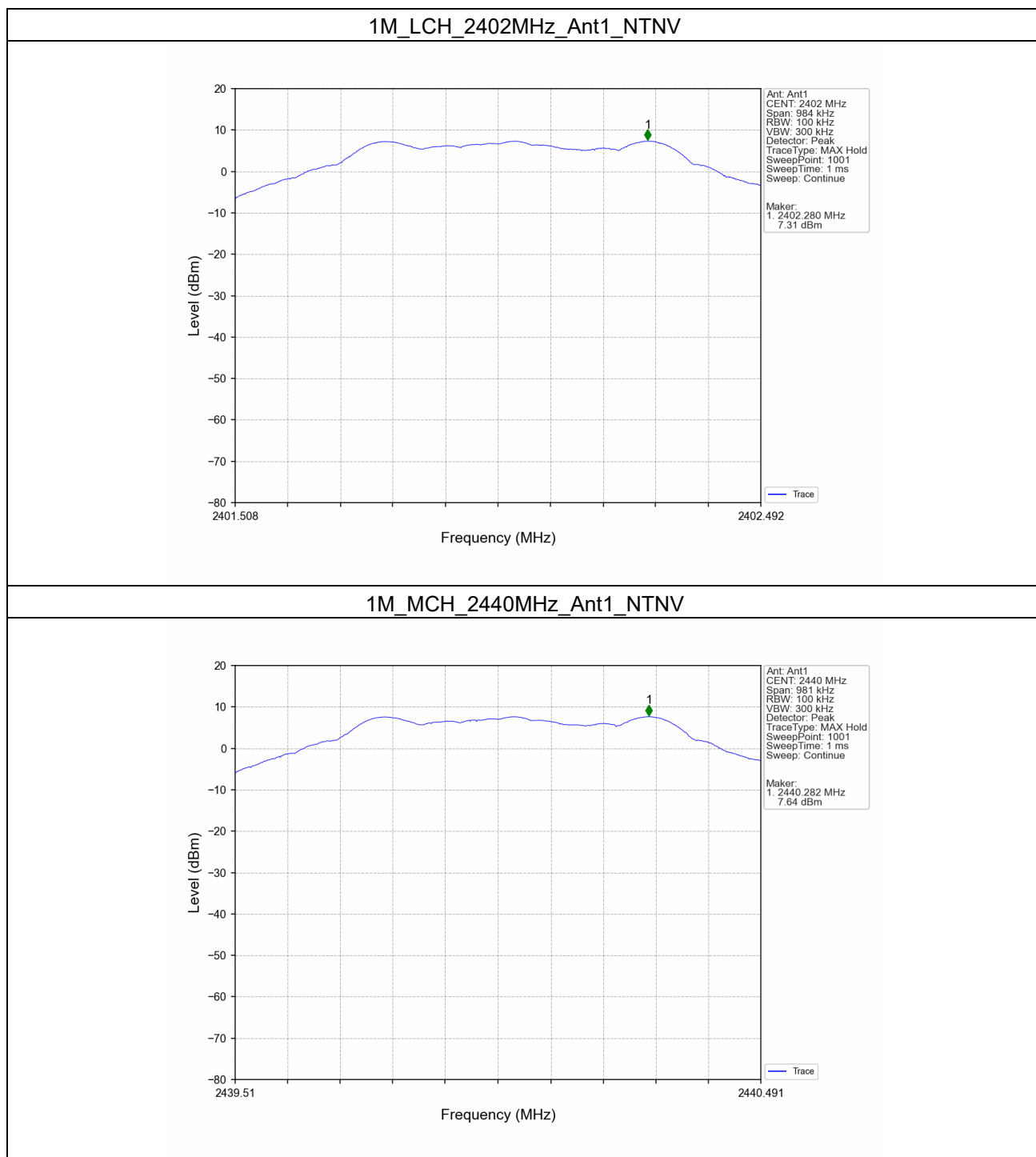
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	7.31
		2440	1	7.64
		2480	1	8.18
2M	SISO	2402	1	6.90
		2440	1	7.35
		2480	1	7.90

5.1.2 CSE

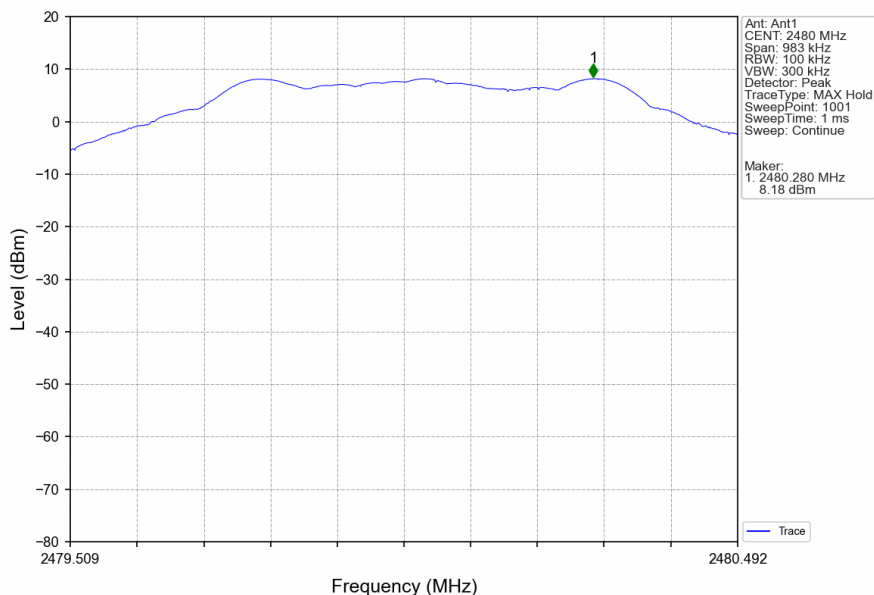
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	8.18	-11.82	Pass
		2440	1	8.18	-11.82	Pass
		2480	1	8.18	-11.82	Pass
2M	SISO	2402	1	7.90	-12.10	Pass
		2440	1	7.90	-12.10	Pass
		2480	1	7.90	-12.10	Pass

5.2 Test Graph

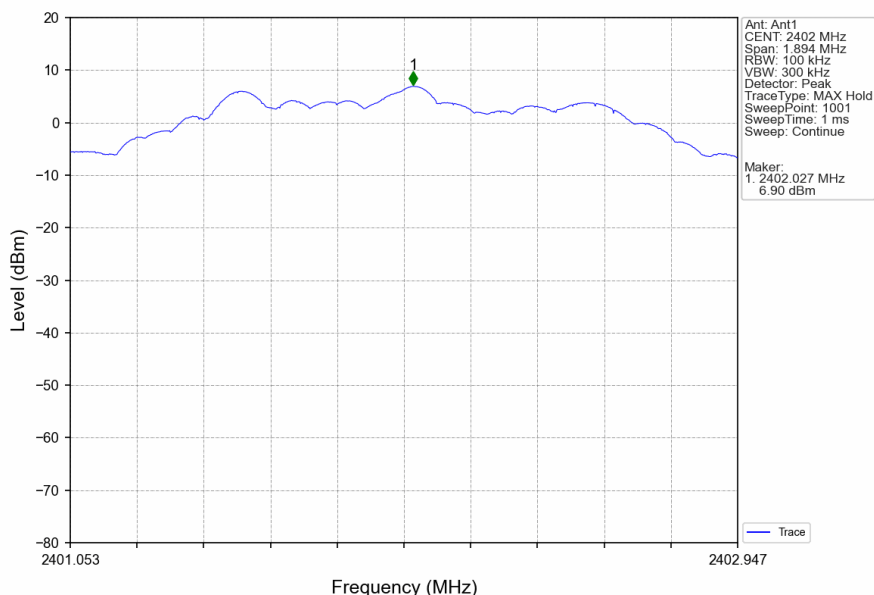
5.2.1 Ref



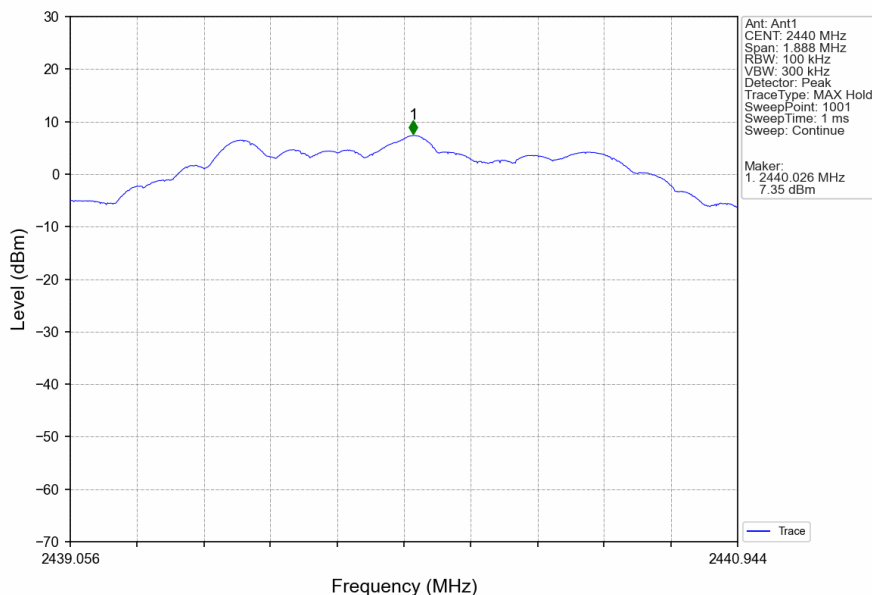
1M_HCH_2480MHz_Ant1_NTNV



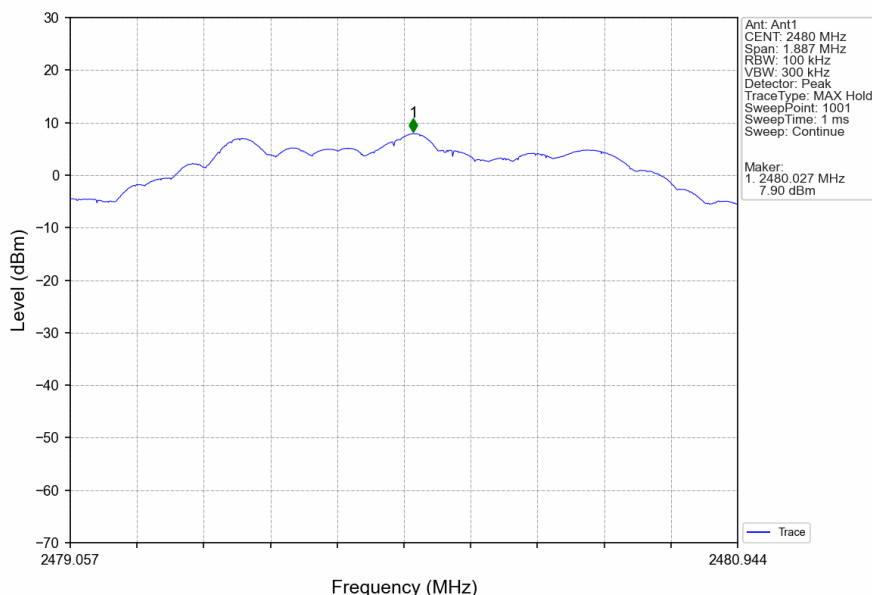
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



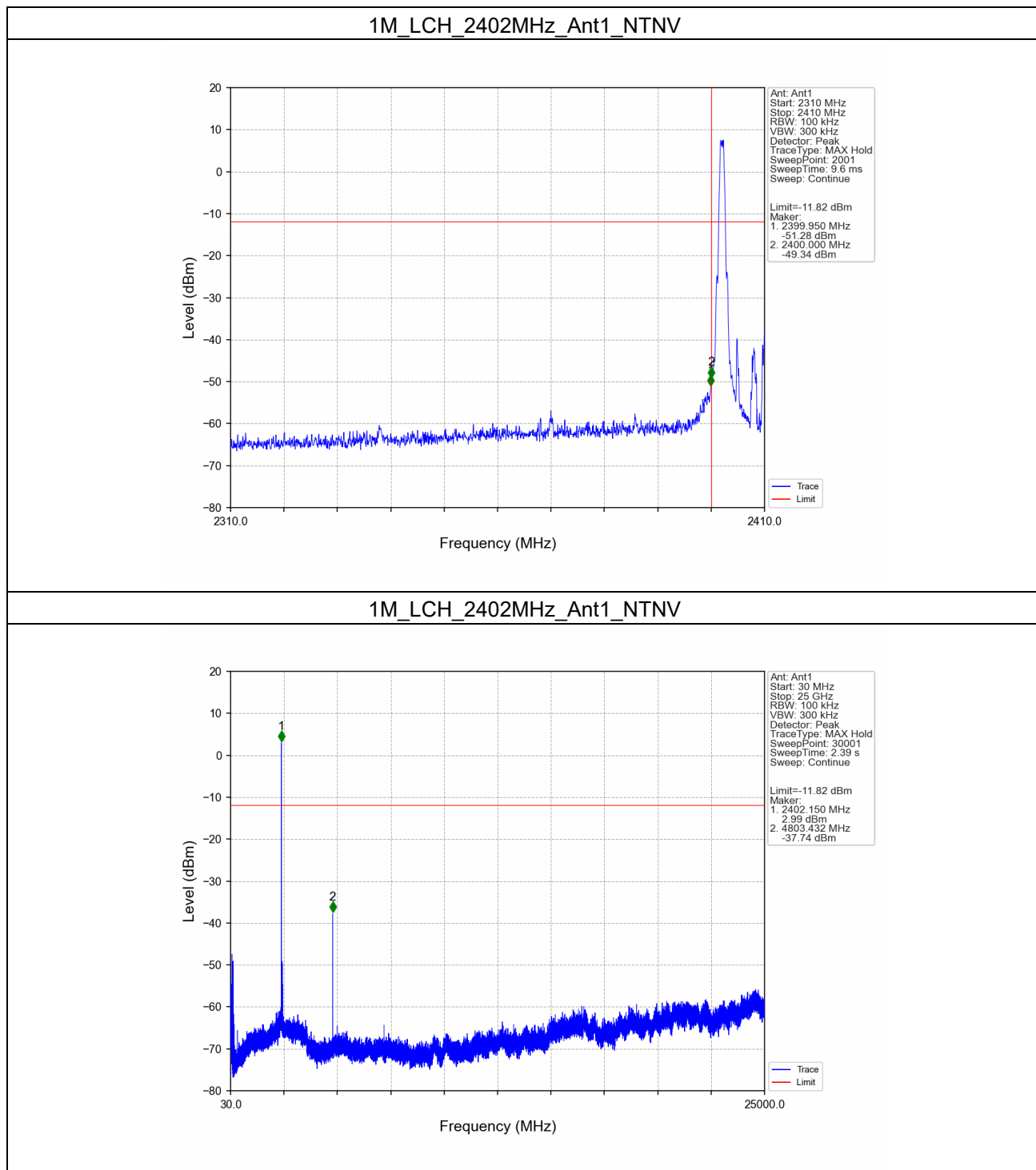
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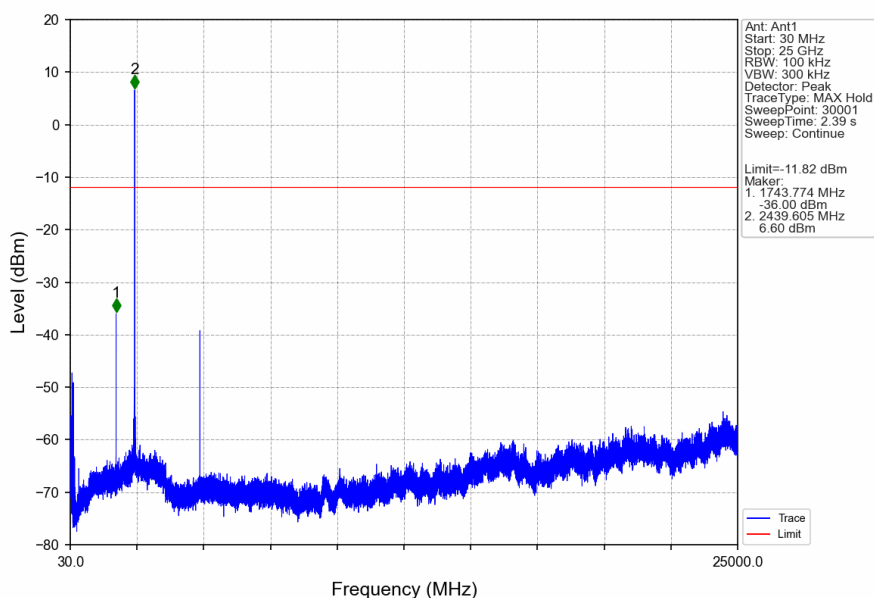
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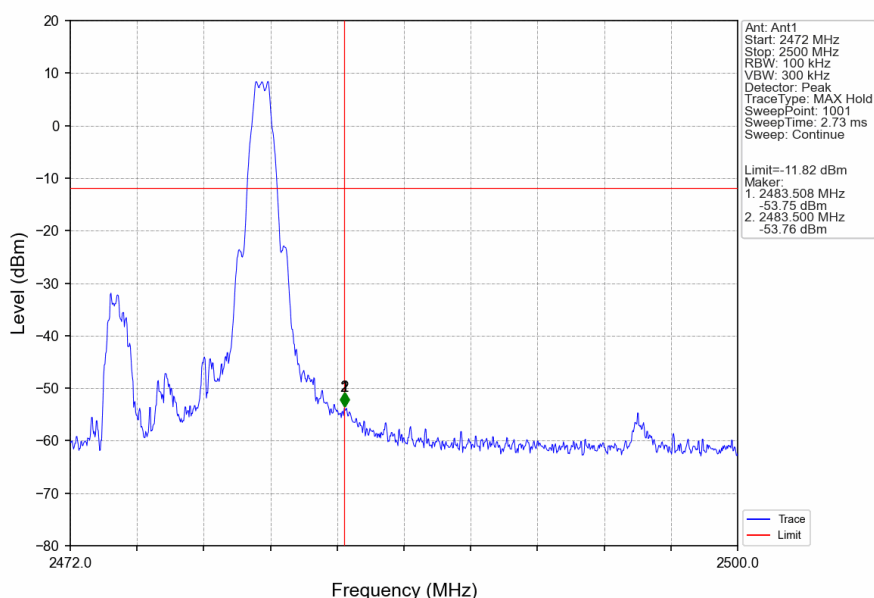
5.2.2 CSE



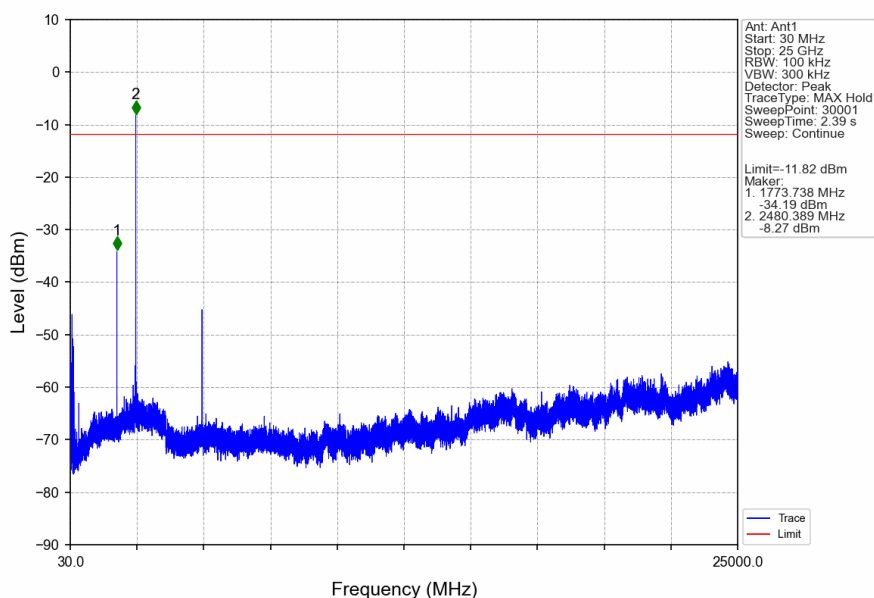
1M_MCH_2440MHz_Ant1_NTNV



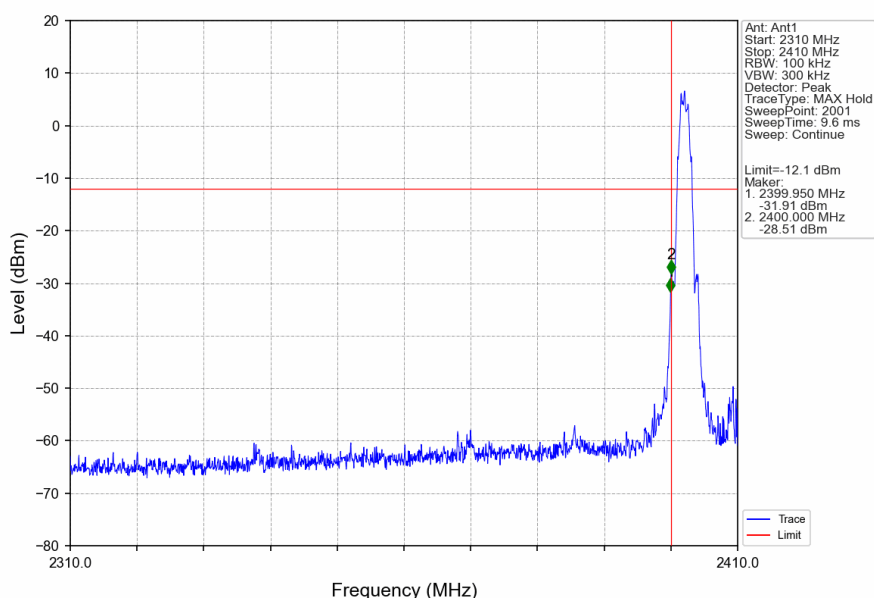
1M_HCH_2480MHz_Ant1_NTNV



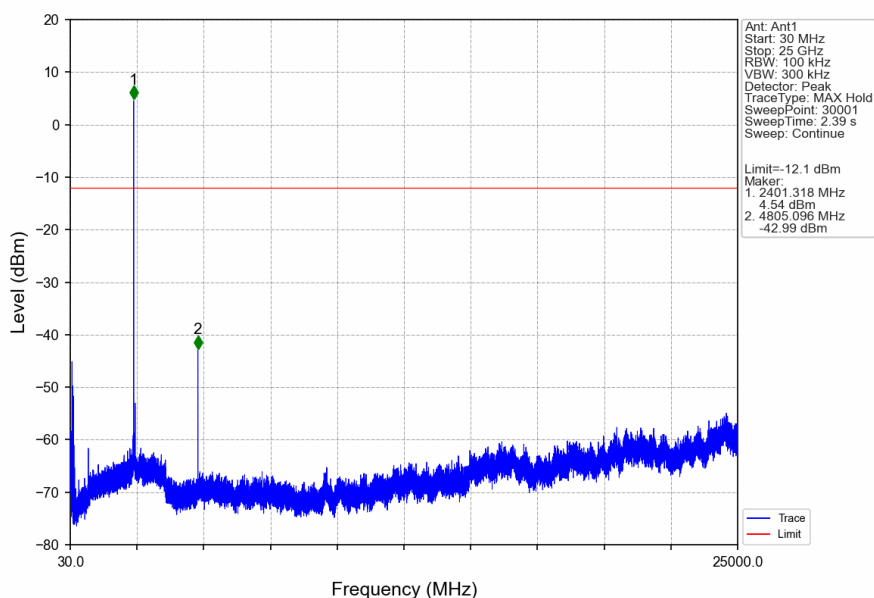
1M_HCH_2480MHz_Ant1_NTNV



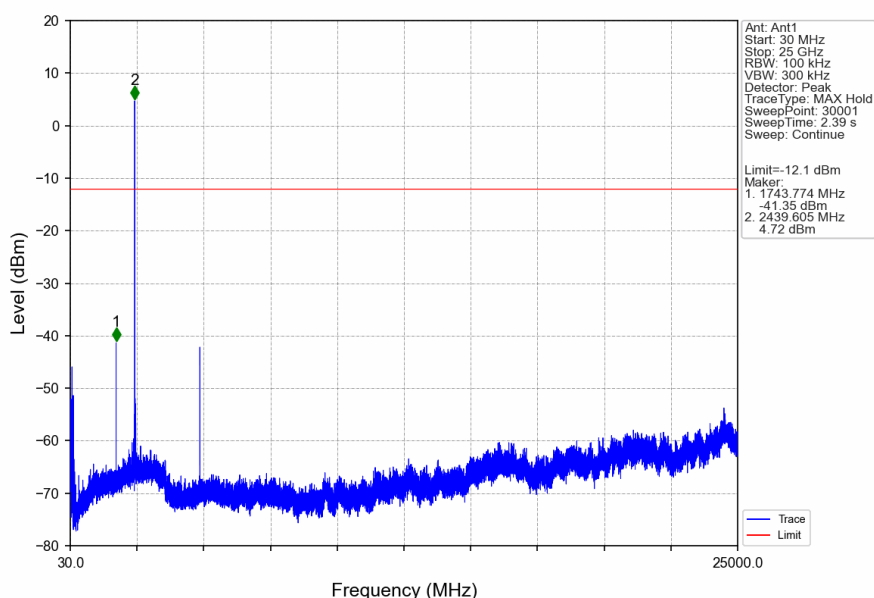
2M_LCH_2402MHz_Ant1_NTNV



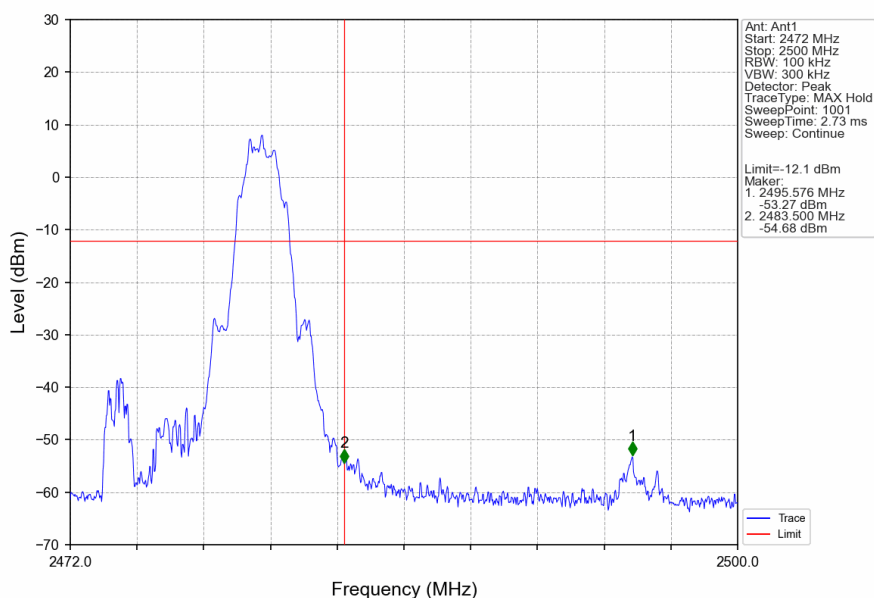
2M_LCH_2402MHz_Ant1_NTNV



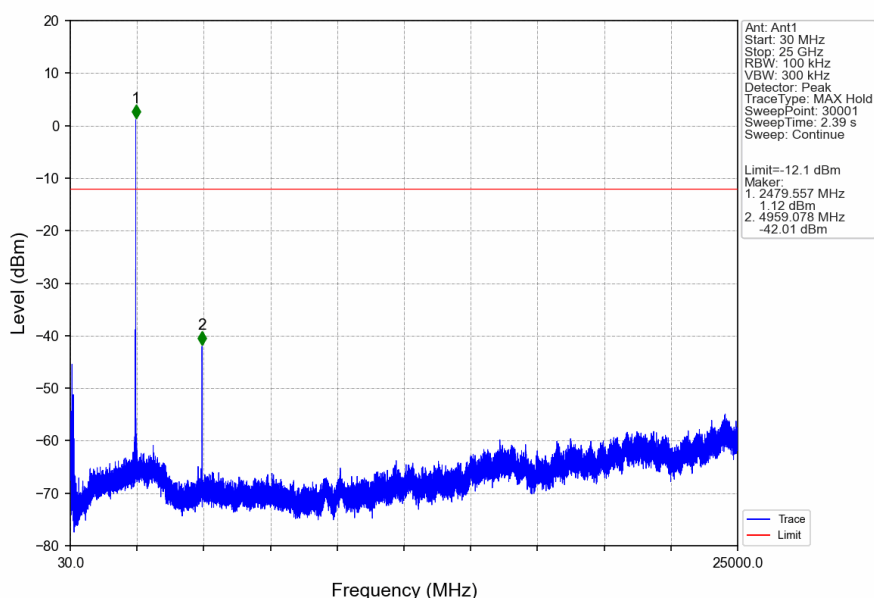
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



- End of the Report -

