

TEST REPORT

Report No.	CISRR26080804903
Project No.	CISR260808049
FCC ID	2BXL7-Q1001
Applicant	Dongguan Yicheng Electronic Technology Co., Ltd.
Address	Room 801, No.16 Xiangyi 1st Road, Dalang Town, Dongguan City, Guangdong Province, China
Manufacturer	Dongguan Yicheng Electronic Technology Co., Ltd.
Address	Room 801, No.16 Xiangyi 1st Road, Dalang Town, Dongguan City, Guangdong Province, China
Product Name	LCD instrument
Trade mark	-
Model/Type reference	Q-1001C
Listed Model(s)	Q-9000, Q-9007, Q-1295, Q-1203, Q-1500, Q-1300
Standard	47 CFR Part 15.247
Date of sample receipt	August 8, 2026
Test date	August 11, 2026 to September 4, 2026
Issue date	September 8, 2026
Test result	Complied

Lucas Huang

Reviewed by: Lucas Huang



Approved by: Hans Hu

The test results relate only to the tested samples.

The test report should not be reproduced except in full without the written approval of Shenzhen Bangce Testing Technology Co., Ltd.

Contents

1. STANDARD AND APPLICABLE TEST METHODS	3
2. REPORT VERSION	3
3. TEST DESCRIPTION	4
4. SUMMARY	5
4.1. Product Description *	5
4.2. Radio Specification Description *	5
4.3. Modification of EUT	6
4.4. Deviation from standards	6
4.5. Testing Site	6
5. TEST CONFIGURATION	7
5.1. Test frequency list	7
5.2. Descriptions of test mode	7
5.3. Test sample information	7
5.4. Environmental conditions	7
5.5. Statement of the measurement uncertainty	7
5.6. Equipment Used during the Test	8
6. TEST RESULTS	10
6.1. Evaluation Results (Evaluation)	10
6.1.1. Antenna Requirement	10
6.2. Radio Spectrum Matter Test Results (RF)	11
6.2.1. 6dB Bandwidth	11
6.2.2. Maximum Conducted Output Power	12
6.2.3. Power Spectral Density	13
6.2.4. Conducted band edge and spurious emission	14
6.2.5. Radiated band edge emission	15
6.2.6. Radiated Spurious Emission (below 1GHz)	21
6.2.7. Radiated Spurious Emission (Above 1GHz)	25
7. APPENDIX REPORT	33
7.1. Maximum Conducted Output Power	33
7.2. Maximum Power Spectral Density	36
7.3. 6dB Bandwidth	39
7.4. Duty Cycle	42
7.5. Conducted Spurious & Band Edge Emission	45

1. STANDARD AND APPLICABLE TEST METHODS

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

2. REPORT VERSION

Version No.	Issue date	Description
00	September 8, 2026	Original

3. TEST DESCRIPTION

No.	Test Item	Standard Requirement	Result
1	Antenna Requirement	47 CFR 15.203	Pass
2	6dB Bandwidth	47 CFR 15.247(a)(2)	Pass
3	Maximum Conducted Output Power	47 CFR 15.247(b)(3)	Pass
4	Power Spectral Density	47 CFR 15.247(e)	Pass
5	Conducted band edge and spurious emission	47 CFR 15.247(d)	Pass
6	Radiated band edge emission	47 CFR 15.247(d), 15.209, 15.205	Pass
7	Radiated Spurious Emission (below 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass
8	Radiated Spurious Emission (Above 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass

Note:

- The measurement uncertainty is not included in the test result.

4. SUMMARY

4.1. Product Description *

Main unit information:	
Product Name:	LCD instrument
Trade mark:	-
Model No.:	Q-1001C
Listed Model(s):	Q-9000,Q-9007,Q-1295, Q-1203, Q-1500, Q-1300
Model difference:	The models in the series differ only in name.
Power supply:	DC 12V
Hardware version:	-
Software version:	-

4.2. Radio Specification Description *

Modulation type:	GFSK
Operation frequency:	2402MHz to 2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	FPC antenna
Antenna Gain:	2.55dBi

Note:

- 1) *: As the above information is provided by the applicant, all relevant results and conclusions of this report are based solely on such information. Bangce lab shall not be liable for the authenticity, integrity, and resulting outcomes of the information, and/or the validity of the conclusions herein.
- 2) Operation frequency list as follow:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478

9	2420	19	2440	29	2460	39	2480
---	------	----	------	----	------	----	------

4.3. Modification of EUT

No modifications are made to the EUT during all test items.

4.4. Deviation from standards

None

4.5. Testing Site

Laboratory Name	Shenzhen Bangce Testing Technology Co., Ltd.
Laboratory Location	101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen, Guangdong, China
Contact information	Tel: 86-755-2319 6848, email: service@cis-cn.net Website: http://www.cis-cn.net/
FCC registration number	736346
FCC designation number	CN1372

5. TEST CONFIGURATION

5.1. Test frequency list

Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
2402	2440	2480

5.2. Descriptions of test mode

No	Test mode	Description
Mode1	TX mode	Keep the EUT in continuously transmitting mode with GFSK modulation at lowest, middle and highest channel.
Mode2	Link mode	Keep the EUT in Bluetooth linking mode with AE.

5.3. Test sample information

Type	Sample No.
Engineer sample	CISR260808049-S01
Normal sample	CISR260808049-S02

5.4. Environmental conditions

Type	Requirement
Temperature:	15~35°C
Relative Humidity:	25~75%
Air Pressure:	860~1060mbar

5.5. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	Bandwidth	0.19%
2	Conducted output power	1.38dB
3	Power spectral density	1.39dB
4	Conducted spurious emission	1.40dB
5	Radiated Spurious Emission (Above 1GHz)	4.60dB
6	Radiated Spurious Emission (9kHz ~ 30MHz)	3.28dB
7	Radiated Spurious Emission (30MHz ~ 1000MHz)	4.46dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

5.6. Equipment Used during the Test

Power Spectral Density

Emissions in non-restricted frequency bands

6dB Bandwidth

Maximum Conducted Output Power

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	Spectrum analyzer	KEYSIGHT	N0920A	CIS-RE011	2026/1/6	2027/1/5
2	Test software	TST	298	-	2026/4/1	2026/9/1
3	Network box	TST-Trial	298	-	2026/4/1	2026/9/1

Band edge emissions (Radiated)

Emissions in frequency bands (below 1GHz)

Emissions in frequency bands (above 1GHz)

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	9*6*6 Chamber	SKET	9m*6m*6m	CIS-EE011	2024-09-02	2027-09-01
2	EMI Test Receiver	ROHDE&SCHWARZ	ESCI	CIS-EE016	2026-01-06	2027-01-05
3	Broadband Antenna	SCHWARZBECK	VULB 9163	CIS-EE018	2026-01-06	2029-01-05
4	Double Ridged Broadband Horn Antennas	SCHWARZBECK	BBHA 9120D	CIS-EE019	2026-01-06	2029-01-05
5	Preamplifier	Tonscend	TAP9K3G 40	CIS-EE021	2026-01-06	2027-01-05
6	Preamplifier	Tonscend	TAP0101 8050	CIS-EE022	2026-01-06	2027-01-05
7	Preamplifier	WCS	DLNA-1-18G-40	CIS-EE081	2026-01-06	2027-01-05
8	RF Cable	Tonscend	-	CIS-EE024	2026-01-06	2027-01-05
9	RF Cable	Tonscend	-	CIS-EE025	2026-01-06	2027-01-05
10	Test software	FARAD	EZ-EMC RE	CIS-EE097	/	/
11	Thermohygrometer	DeLi	8866	CIS-EE067	2026-01-06	2027-01-05
12	Loop Antenna	SCHWARZBECK	FMZB 1513-60 B	CIS-EE060	2026-01-06	2029-01-05
13	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	CIS-EE020	2025-01-09	2028-01-08
14	Preamplifier	Tonscend	TAP1804 0048	CIS-EE023	2026-01-06	2027-01-05
15	1GHz Highpass	COM-MW	ZHPF6-M1000-18000-3910	CIS-EEA043	2026-01-06	2027-01-05

16	3GHz Highpass	COM-MW	ZHPF6-M3000-18000-5254	CIS-EEA044	2026-01-06	2027-01-05
17	6GHz Highpass	COM-MW	ZHPF6-M6500-18000-547	CIS-EEA045	2026-01-06	2027-01-05
18	Notch Filter Assembly	Tonscend	TS@JS08 06-F	CIS-EE026	2026-01-06	2027-01-05
19	Spectrum analyzer	Agilent	N9020A	CIS-RE001	2026-01-06	2027-01-05

6. TEST RESULTS

6.1. Evaluation Results (Evaluation)

6.1.1. Antenna Requirement

Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
Test Method:	---

6.1.1.1. Test Result

Pass

6.1.1.2. Conclusion:

The EUT antenna is FPC antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used. Antenna structure please refer to the EUT internal photographs antenna photo.

6.2. Radio Spectrum Matter Test Results (RF)

6.2.1. 6dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times \text{RBW}$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

6.2.1.1. E.U.T. Operation

Operating Environment:					
Temperature:	23 °C	Humidity:	56.5 %	Atmospheric Pressure:	102 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.2.1.2. Test Setup Diagram



6.2.1.3. Test Result

Pass

6.2.1.4. Test Data

Please Refer to Appendix for Details.

6.2.2. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

6.2.2.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.2 °C	Humidity:	56.6 %	Atmospheric Pressure:	102 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.2.2.2. Test Setup Diagram



6.2.2.3. Test Result

Pass

6.2.2.4. Test Data

Please Refer to Appendix for Details.

6.2.3. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10
Procedure:	ANSI C63.10-2020+Cor 1-2023, section 11.10, Maximum power spectral density level in the fundamental emission

6.2.3.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.3 °C	Humidity:	56.1 %	Atmospheric Pressure:	102 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.2.3.2. Test Setup Diagram



6.2.3.3. Test Result

Pass

6.2.3.4. Test Data

Please Refer to Appendix for Details.

6.2.4. Conducted band edge and spurious emission

Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d), 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.
Test Method:	ANSI C63.10-2020 section 11.11
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.2.4.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.2 °C	Humidity:	56.7 %	Atmospheric Pressure:	102 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.2.4.2. Test Setup Diagram



6.2.4.3. Test Result

Pass

6.2.4.4. Test Data

Please Refer to Appendix for Details.

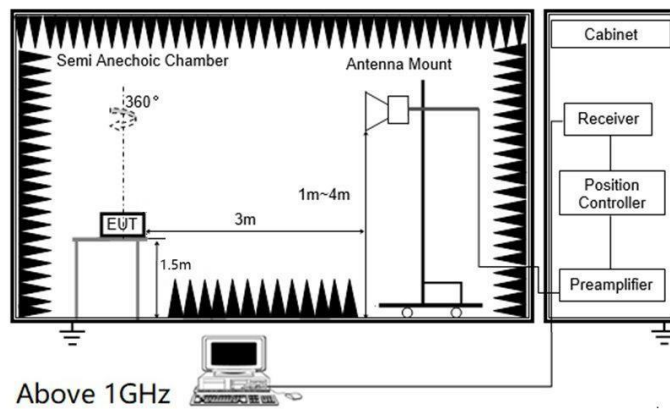
6.2.5. Radiated band edge emission

Test Requirement:	Refer to 47 CFR 15.247(d), 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)).		
Test 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
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.10		
Procedure:	1>. EUT was setup and tested according to ANSI C63.10 . 2>. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. 3>. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. 4>. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement. 5>. Use the following spectrum analyzer settings: a) Span shall wide enough to fully capture the emission being measured b) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement For average measurement: use duty cycle correction factor method (DCCF), Average level = Peak level + DCCF		

6.2.5.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.3 °C	Humidity:	56.5 %	Atmospheric Pressure:	102 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.2.5.2. Test Setup Diagram

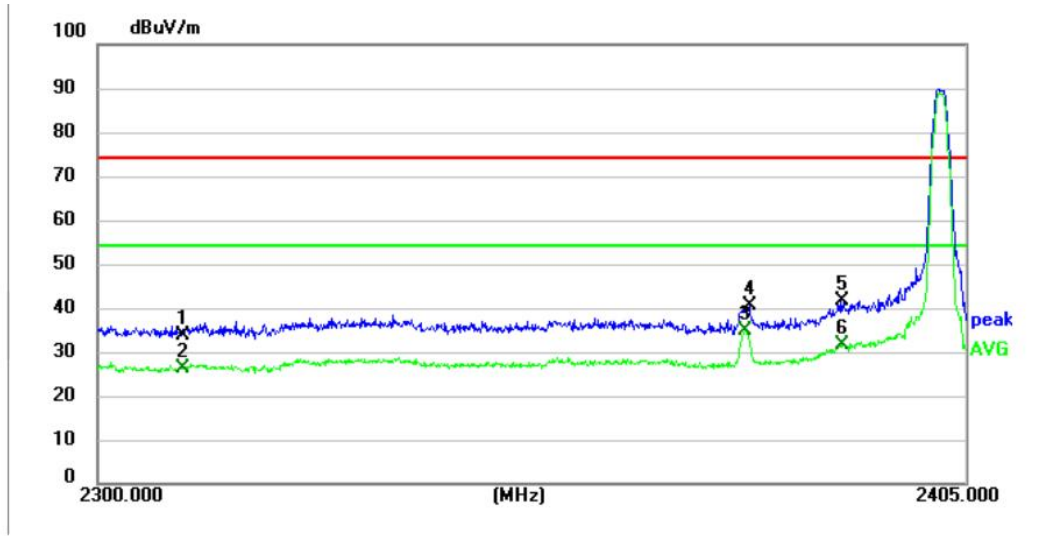


6.2.5.3. Test Result

Pass

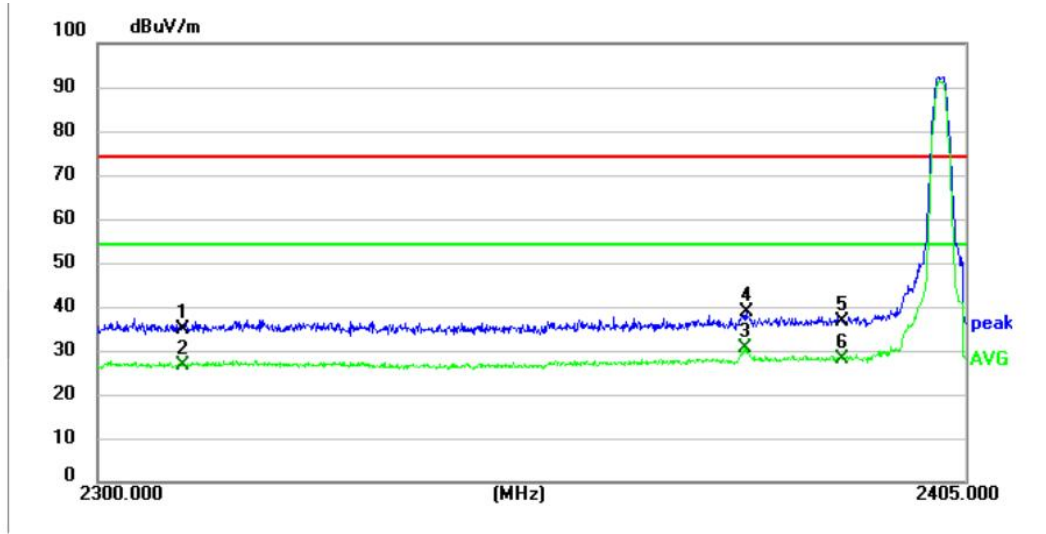
6.2.5.4. Test Data

Mode1 / Polarization: Horizontal / CH: L



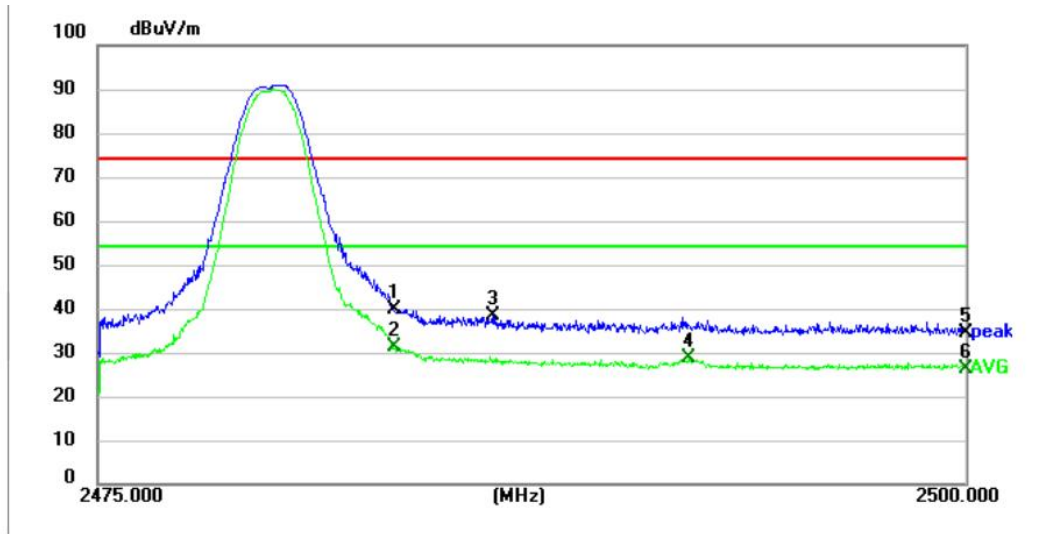
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	51.36	-17.52	33.84	74.00	40.16	peak
2	2310.0000	43.74	-17.52	26.22	54.00	27.78	AVG
3 *	2378.0149	52.34	-17.35	34.99	54.00	19.01	AVG
4	2378.4350	57.93	-17.35	40.58	74.00	33.42	peak
5	2390.0000	59.08	-17.32	41.76	74.00	32.24	peak
6	2390.0000	49.00	-17.32	31.68	54.00	22.32	AVG

Mode1 / Polarization: Vertical / CH: L



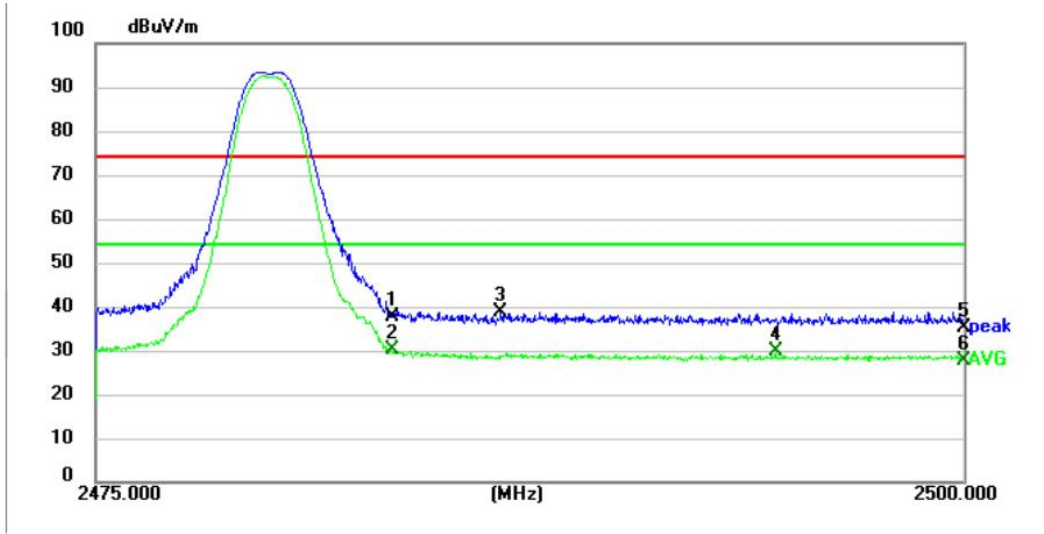
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	52.25	-17.52	34.73	74.00	39.27	peak
2	2310.0000	44.00	-17.52	26.48	54.00	27.52	AVG
3 *	2377.9520	47.97	-17.35	30.62	54.00	23.38	AVG
4	2378.1620	55.96	-17.35	38.61	74.00	35.39	peak
5	2390.0000	54.05	-17.32	36.73	74.00	37.27	peak
6	2390.0000	45.28	-17.32	27.96	54.00	26.04	AVG

Mode1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	56.75	-17.03	39.72	74.00	34.28	peak
2 *	2483.5000	48.14	-17.03	31.11	54.00	22.89	AVG
3	2486.3450	55.31	-17.01	38.30	74.00	35.70	peak
4	2492.0250	45.68	-16.98	28.70	54.00	25.30	AVG
5	2500.0000	51.53	-16.94	34.59	74.00	39.41	peak
6	2500.0000	43.22	-16.94	26.28	54.00	27.72	AVG

Mode1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	54.65	-17.03	37.62	74.00	36.38	peak
2 *	2483.5000	47.18	-17.03	30.15	54.00	23.85	AVG
3	2486.6675	55.82	-17.01	38.81	74.00	35.19	peak
4	2494.6000	46.75	-16.97	29.78	54.00	24.22	AVG
5	2500.0000	52.02	-16.94	35.08	74.00	38.92	peak
6	2500.0000	44.50	-16.94	27.56	54.00	26.44	AVG

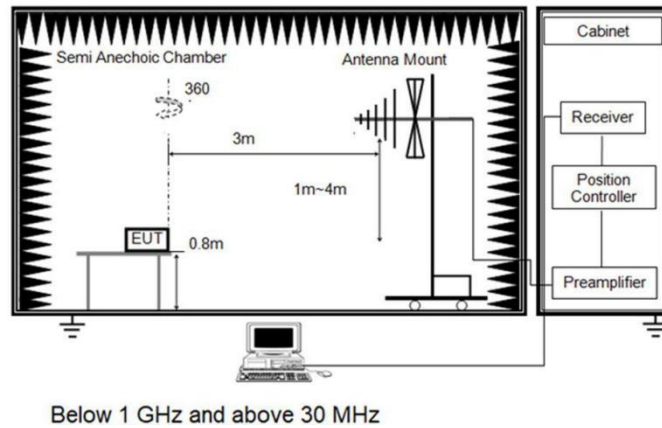
6.2.6. Radiated Spurious Emission (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), 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)).		
Test 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
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.5.4		
Procedure:	1>. The EUT was setup and tested according to ANSI C63.10. 2>. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level. 3>. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower. 4>. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines. 5>. Set to the maximum power setting and enable the EUT transmit continuously. 6>. Use the following spectrum analyzer settings a) Span shall wide enough to fully capture the emission being measured; b) RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.		

6.2.6.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.7 °C	Humidity:	56.7 %	Atmospheric Pressure:	102 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.2.6.2. Test Setup Diagram

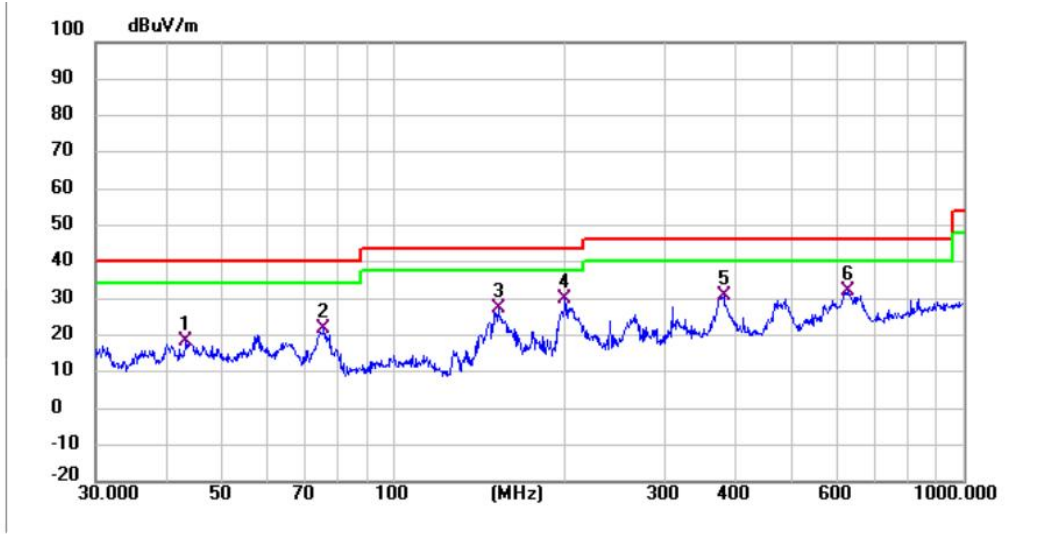


6.2.6.3. Test Result

Pass

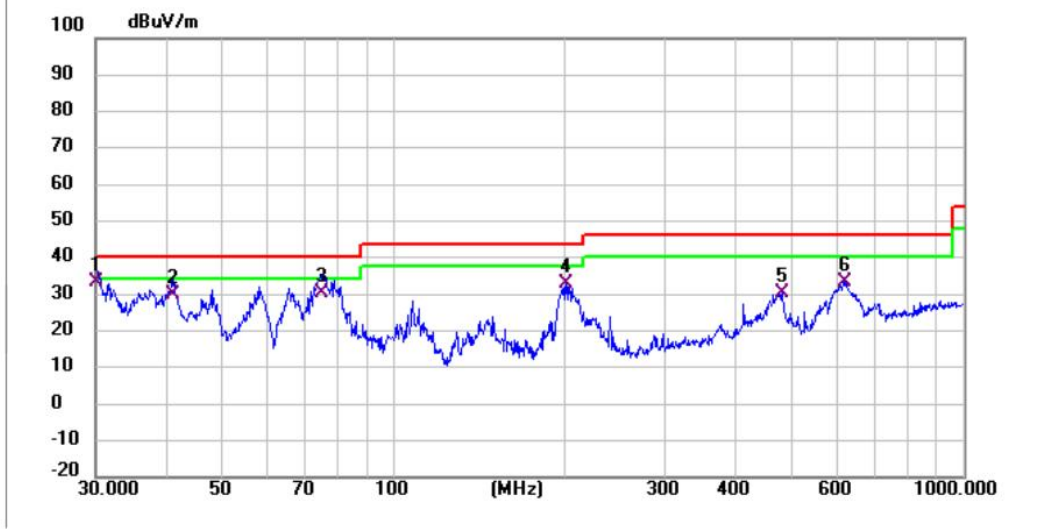
6.2.6.4. Test Data

Mode1 / Polarization: Horizontal / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	43.2016	47.06	-28.85	18.21	40.00	21.79	QP
2	75.4463	56.17	-34.56	21.61	40.00	18.39	QP
3	152.6641	61.02	-33.81	27.21	43.50	16.29	QP
4 *	199.9855	60.13	-30.17	29.96	43.50	13.54	QP
5	379.9141	56.38	-25.53	30.85	46.00	15.15	QP
6	627.2737	52.61	-20.47	32.14	46.00	13.86	QP

Mode1 / Polarization: Vertical / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	30.0000	64.82	-31.54	33.28	40.00	6.72	QP
2	40.9880	59.27	-29.25	30.02	40.00	9.98	QP
3	74.6568	64.57	-34.38	30.19	40.00	9.81	QP
4	200.6880	62.93	-30.18	32.75	43.50	10.75	QP
5	480.5276	53.97	-23.43	30.54	46.00	15.46	QP
6	620.7096	53.81	-20.41	33.40	46.00	12.60	QP

Note:

1>. For 9 kHz ~ 30 MHz Measurement

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

2>. Level= Reading + Factor (Antenna Factor+ Cable Loss- Preamp Factor)

3>. Margin = Limit – Level

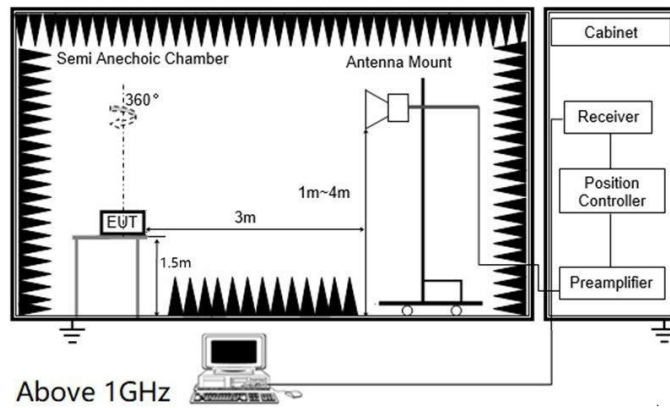
6.2.7. Radiated Spurious Emission (Above 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), 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)).		
Test 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
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.5.4		
Procedure:	1>. The EUT was setup and tested according to ANSI C63.10. 2>. The EUT is placed on a turn table which is 0.8 meter above ground for 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level. 3>. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower. 4>. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines. 5>. Set to the maximum power setting and enable the EUT transmit continuously. 6>. Use the following spectrum analyzer settings a) Span shall wide enough to fully capture the emission being measured; b) Set RBW=1MHz, VBW=3MHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement For average measurement: use duty cycle correction factor method (DCCF) Average level = Peak level + DCCF		

6.2.7.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.2 °C	Humidity:	55.8 %	Atmospheric Pressure:	102 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.2.7.2. Test Setup Diagram

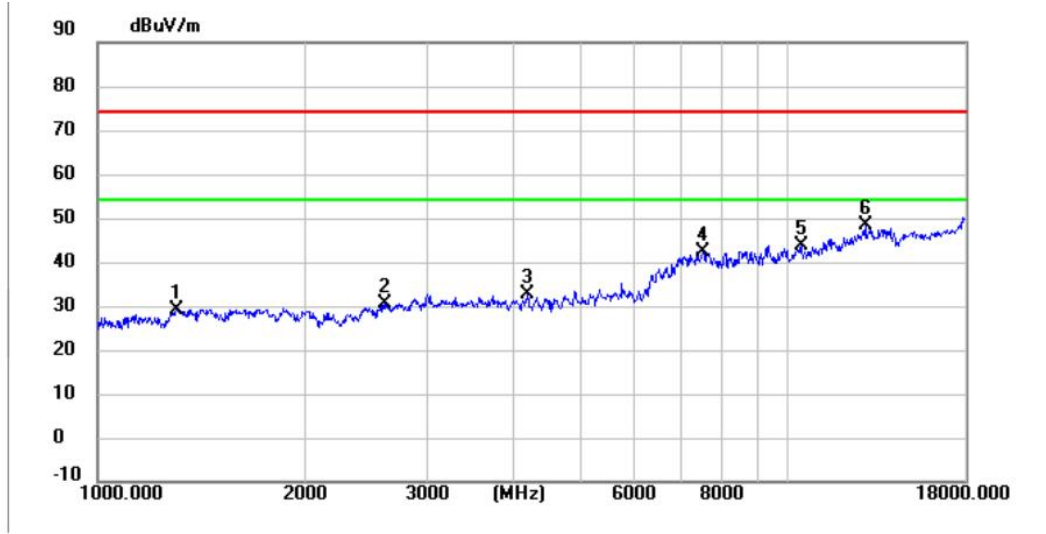


6.2.7.3. Test Result

Pass

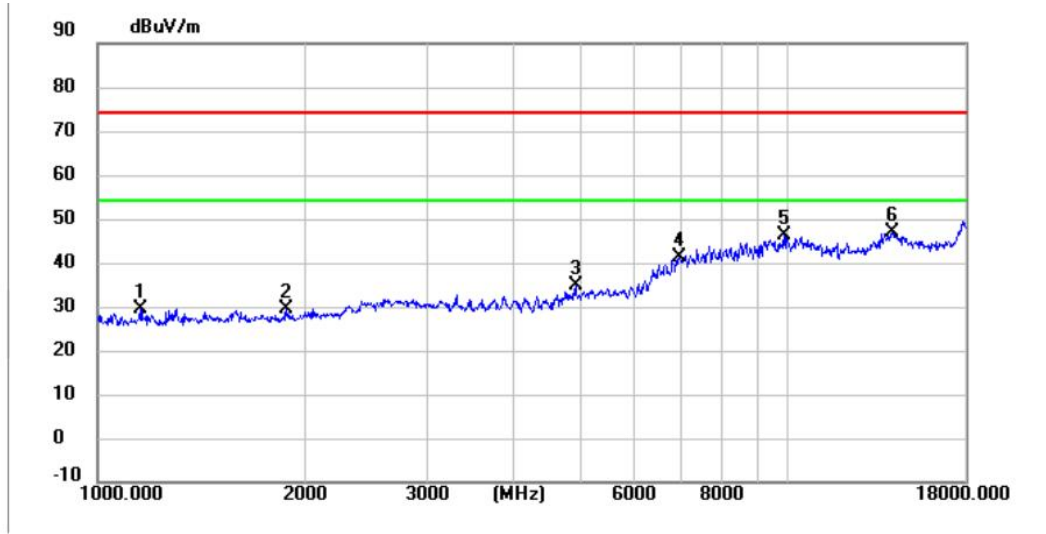
6.2.7.4. Test Data

Mode1 / Polarization: Horizontal / CH: L



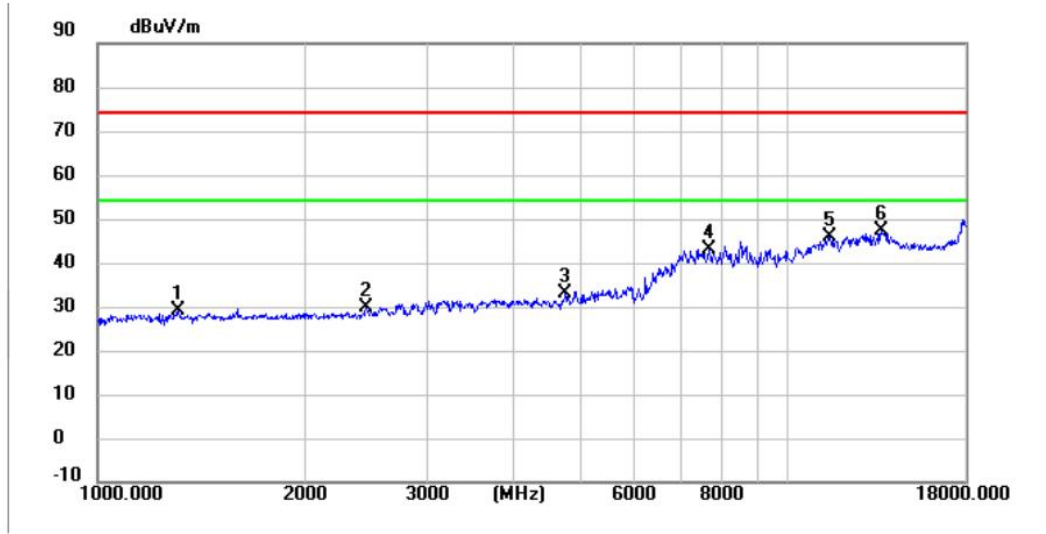
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1304.3000	50.37	-21.27	29.10	74.00	44.90	peak
2	2609.9000	46.72	-16.14	30.58	74.00	43.42	peak
3	4201.1000	44.59	-11.79	32.80	74.00	41.20	peak
4	7528.0000	37.14	5.36	42.50	74.00	31.50	peak
5	10431.6000	31.88	11.82	43.70	74.00	30.30	peak
6 *	12925.5000	33.05	15.44	48.49	74.00	25.51	peak

Mode1 / Polarization: Vertical / CH: L



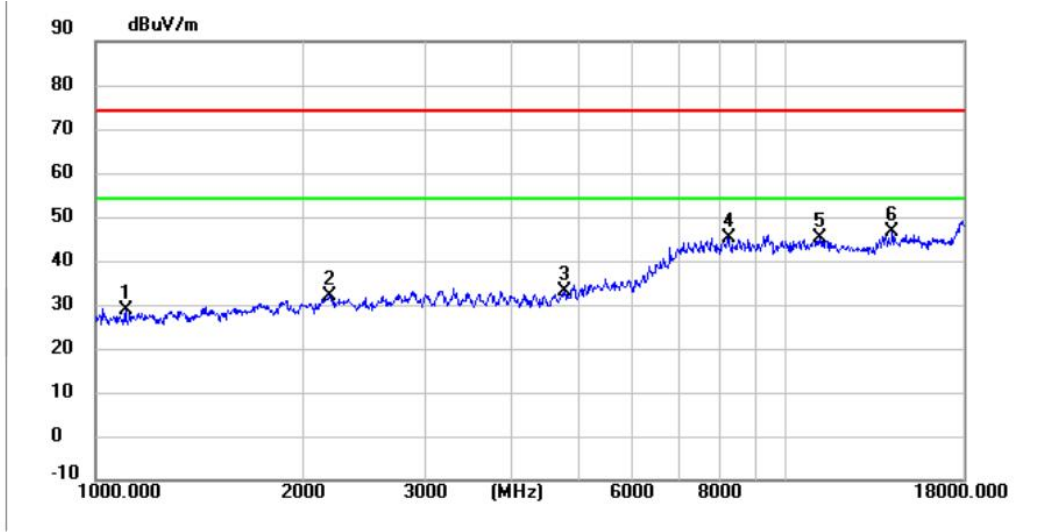
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1158.1000	51.17	-21.61	29.56	74.00	44.44	peak
2	1873.8000	48.71	-19.33	29.38	74.00	44.62	peak
3	4916.8000	44.06	-9.26	34.80	74.00	39.20	peak
4	6950.0000	37.95	3.23	41.18	74.00	32.82	peak
5	9857.0000	35.42	10.68	46.10	74.00	27.90	peak
6 *	14132.5000	28.43	18.55	46.98	74.00	27.02	peak

Mode1 / Polarization: Horizontal / CH: M



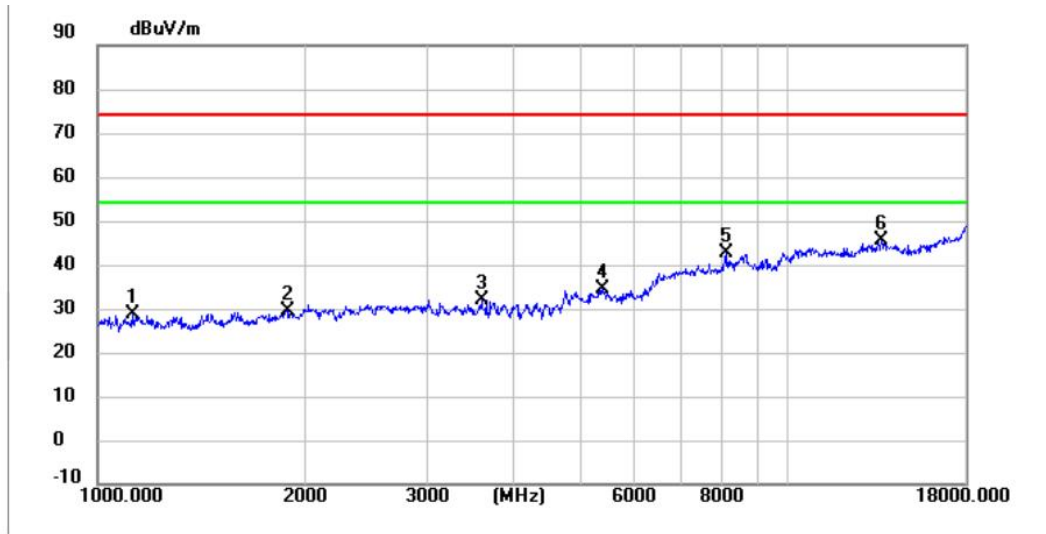
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1309.4000	50.37	-21.27	29.10	74.00	44.90	peak
2	2446.7000	47.07	-17.22	29.85	74.00	44.15	peak
3	4757.0000	43.14	-10.16	32.98	74.00	41.02	peak
4	7669.1000	37.28	5.72	43.00	74.00	31.00	peak
5	11473.7000	31.97	14.00	45.97	74.00	28.03	peak
6 *	13629.3000	29.93	17.39	47.32	74.00	26.68	peak

Mode1 / Polarization: Vertical / CH: M



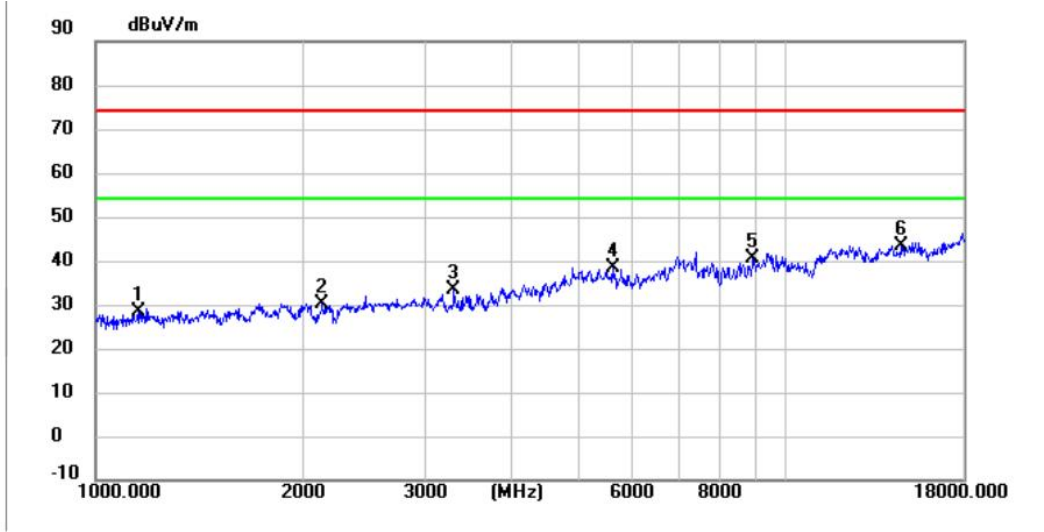
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1107.1000	50.39	-21.72	28.67	74.00	45.33	peak
2	2178.1000	49.83	-17.89	31.94	74.00	42.06	peak
3	4780.8000	42.89	-9.99	32.90	74.00	41.10	peak
4	8260.7000	38.22	6.94	45.16	74.00	28.84	peak
5	11142.2000	31.60	13.55	45.15	74.00	28.85	peak
6 *	14234.5000	27.98	18.58	46.56	74.00	27.44	peak

Mode1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1125.8000	50.42	-21.69	28.73	74.00	45.27	peak
2	1887.4000	48.71	-19.29	29.42	74.00	44.58	peak
3	3604.4000	45.51	-13.45	32.06	74.00	41.94	peak
4	5384.3000	41.13	-6.73	34.40	74.00	39.60	peak
5	8109.4000	35.95	6.61	42.56	74.00	31.44	peak
6 *	13641.2000	27.98	17.43	45.41	74.00	28.59	peak

Mode1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1154.7000	49.88	-21.63	28.25	74.00	45.75	peak
2	2132.2000	48.22	-18.07	30.15	74.00	43.85	peak
3	3300.1000	47.30	-13.95	33.35	74.00	40.65	peak
4	5600.2000	45.10	-6.65	38.45	74.00	35.55	peak
5	8957.7000	32.45	8.20	40.65	74.00	33.35	peak
6 *	14637.4000	25.30	18.24	43.54	74.00	30.46	peak

Note:

1>. Level= Reading + Factor (Antenna Factor+ Cable Loss- Preamp Factor)

2>. Margin = Limit – Level

3>. Average measurement was not performed if peak level is lower than average limit (54dBuV/m) above 1GHz.

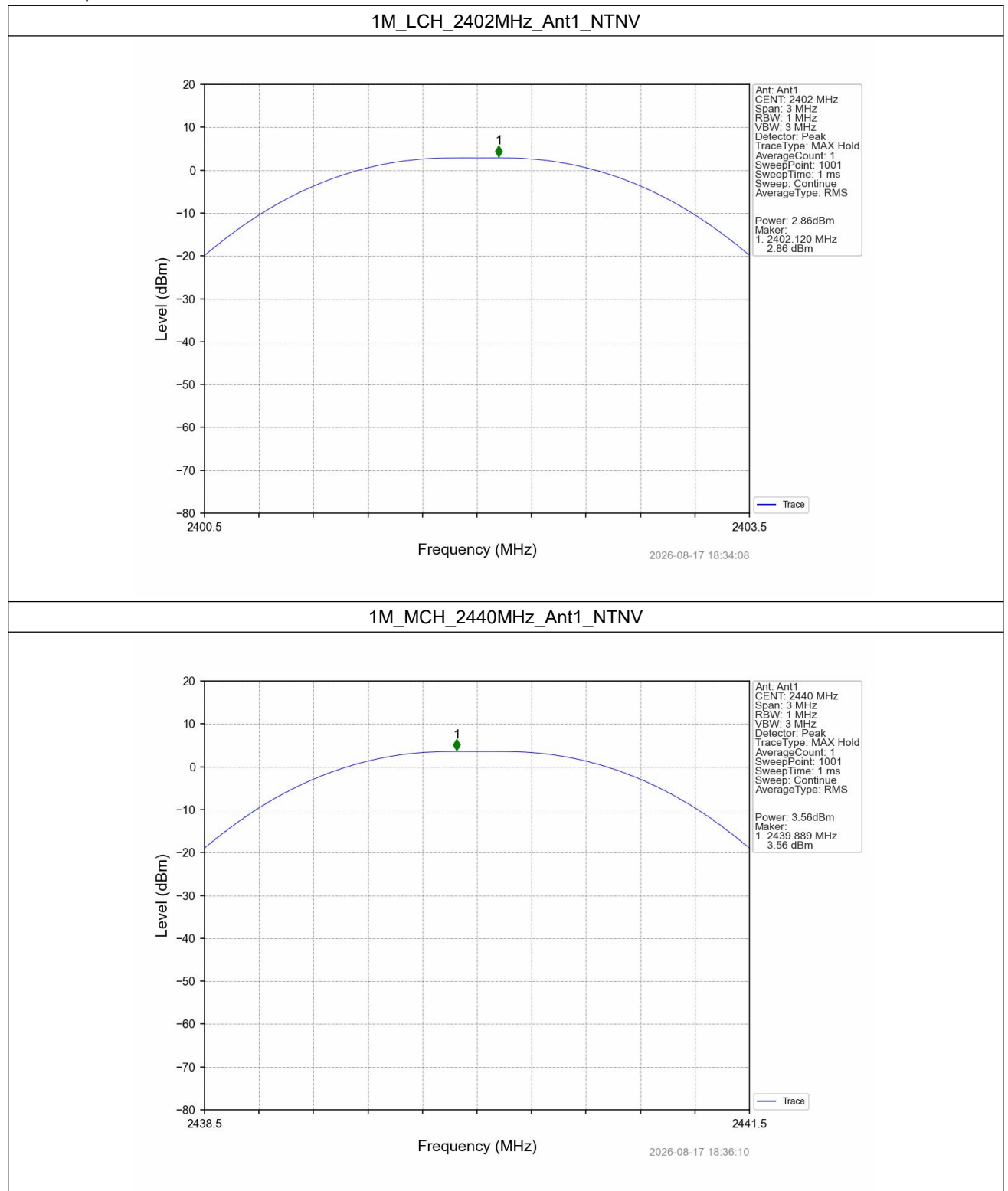
7. APPENDIX REPORT

7.1. Maximum Conducted Output Power

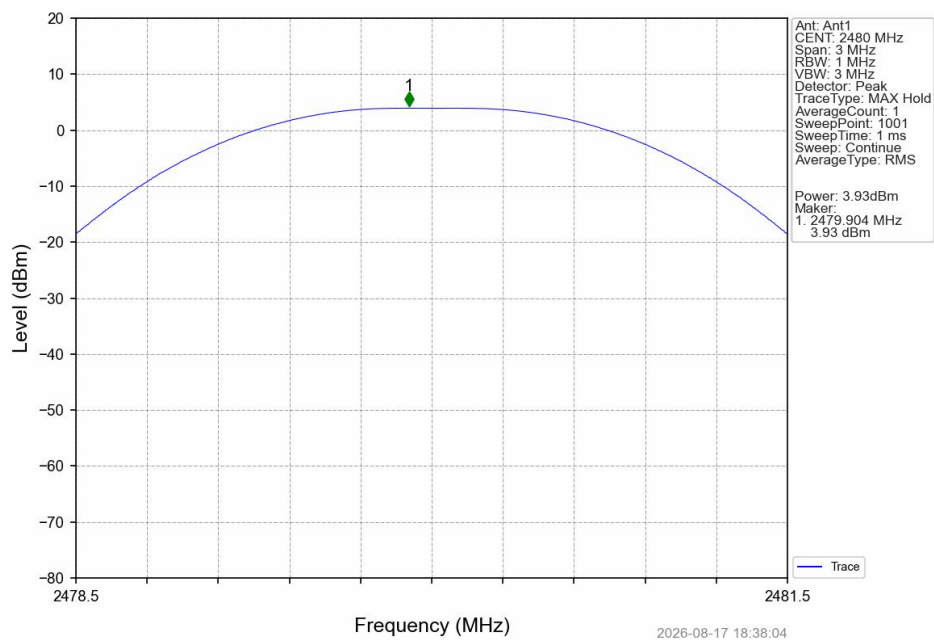
Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	2.86	<=30	Pass
		2440	3.56	<=30	Pass
		2480	3.93	<=30	Pass

Test Graph



1M_HCH_2480MHz_Ant1_NTNV

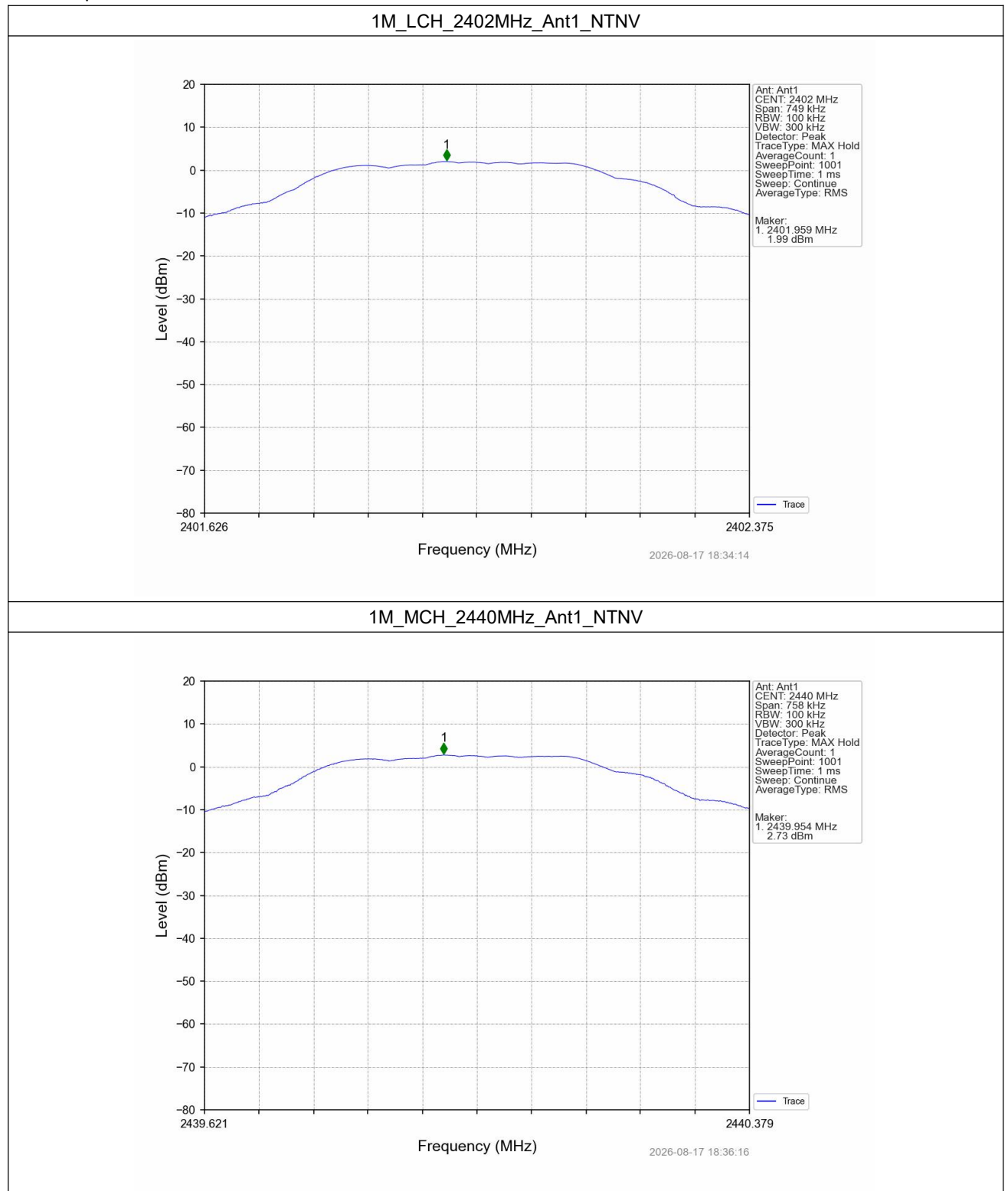


7.2. Maximum Power Spectral Density

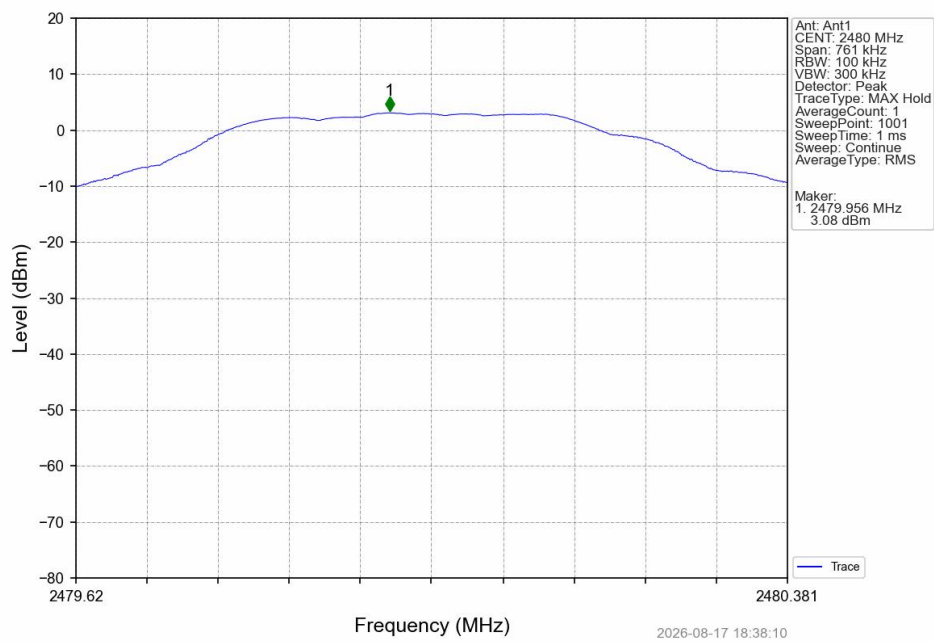
Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	1.99dBm/100kHz	<=8	Pass
		2440	2.73dBm/100kHz	<=8	Pass
		2480	3.08dBm/100kHz	<=8	Pass

Test Graph



1M_HCH_2480MHz_Ant1_NTNV

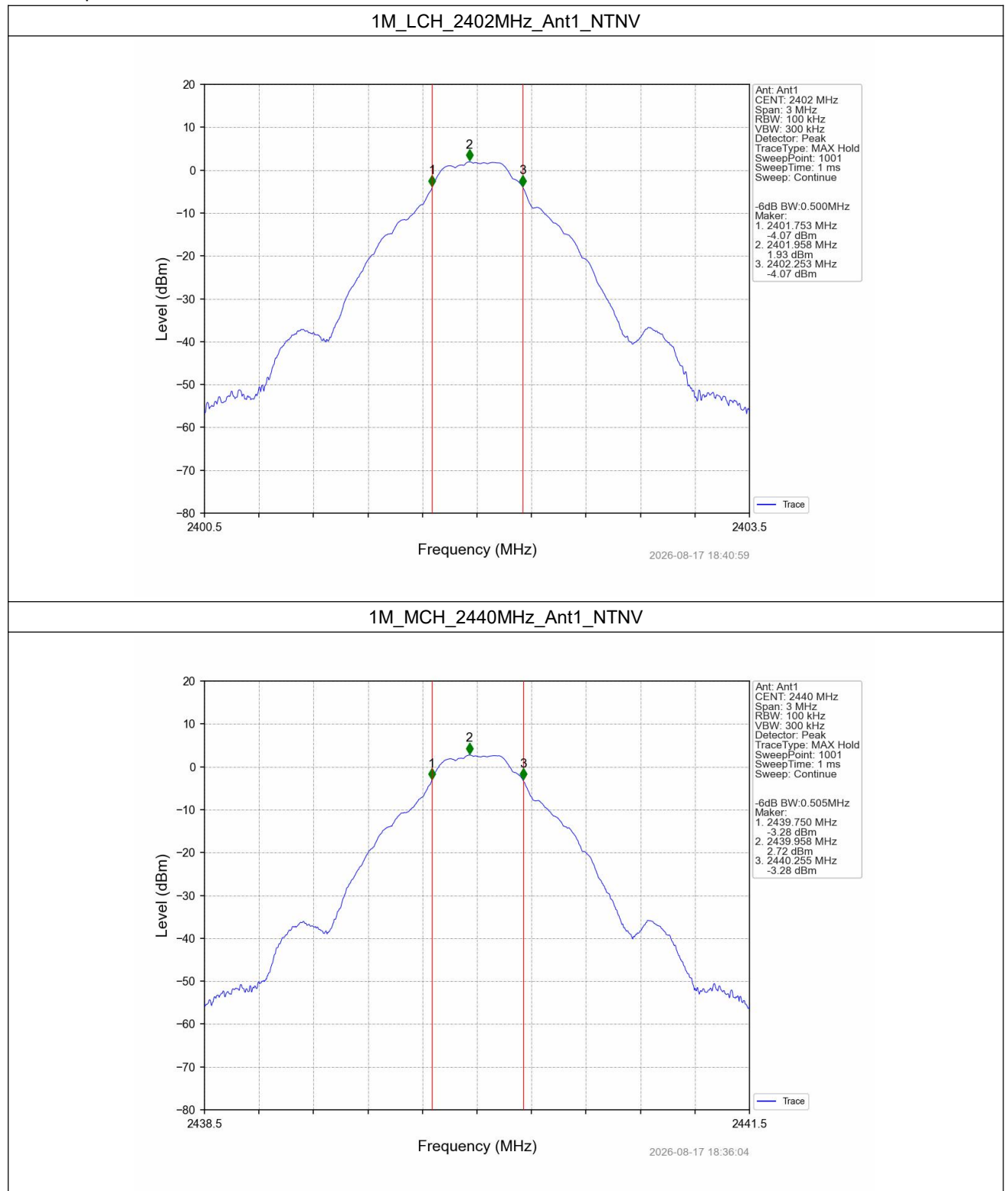


7.3. 6dB Bandwidth

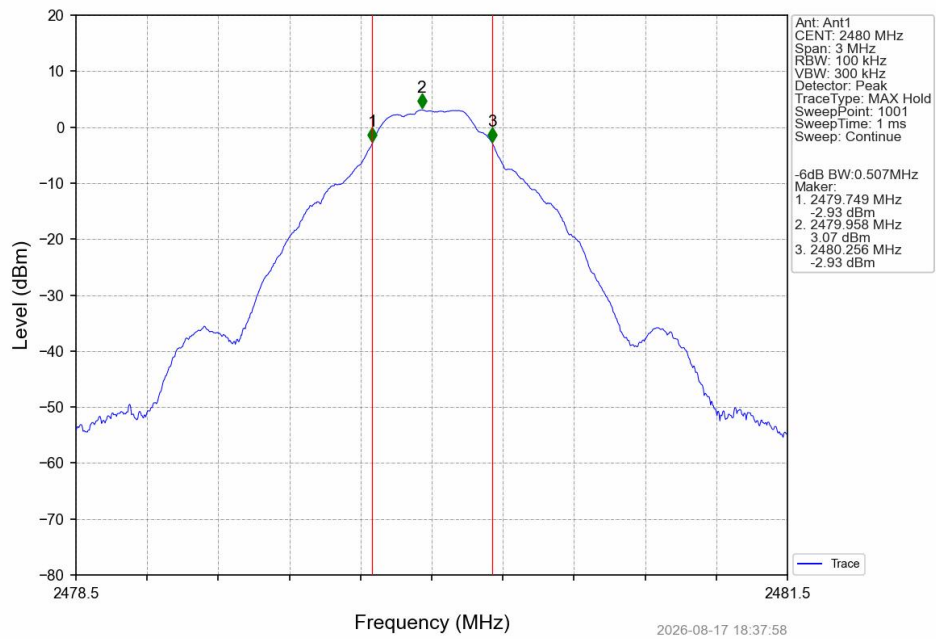
Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.500	≥ 0.5	Pass
		2440	1	0.505	≥ 0.5	Pass
		2480	1	0.507	≥ 0.5	Pass

Test Graph



1M_HCH_2480MHz_Ant1_NTNV

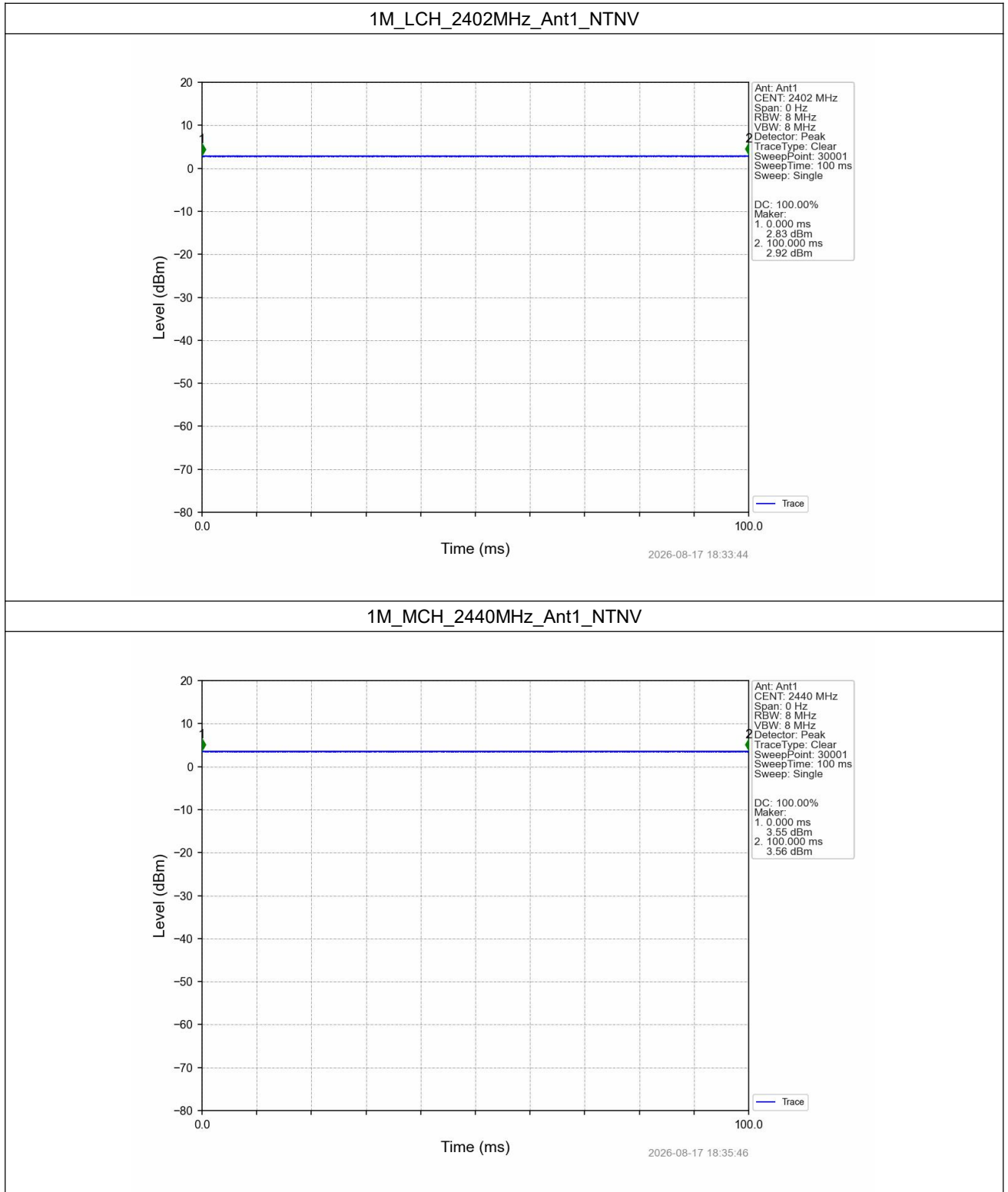


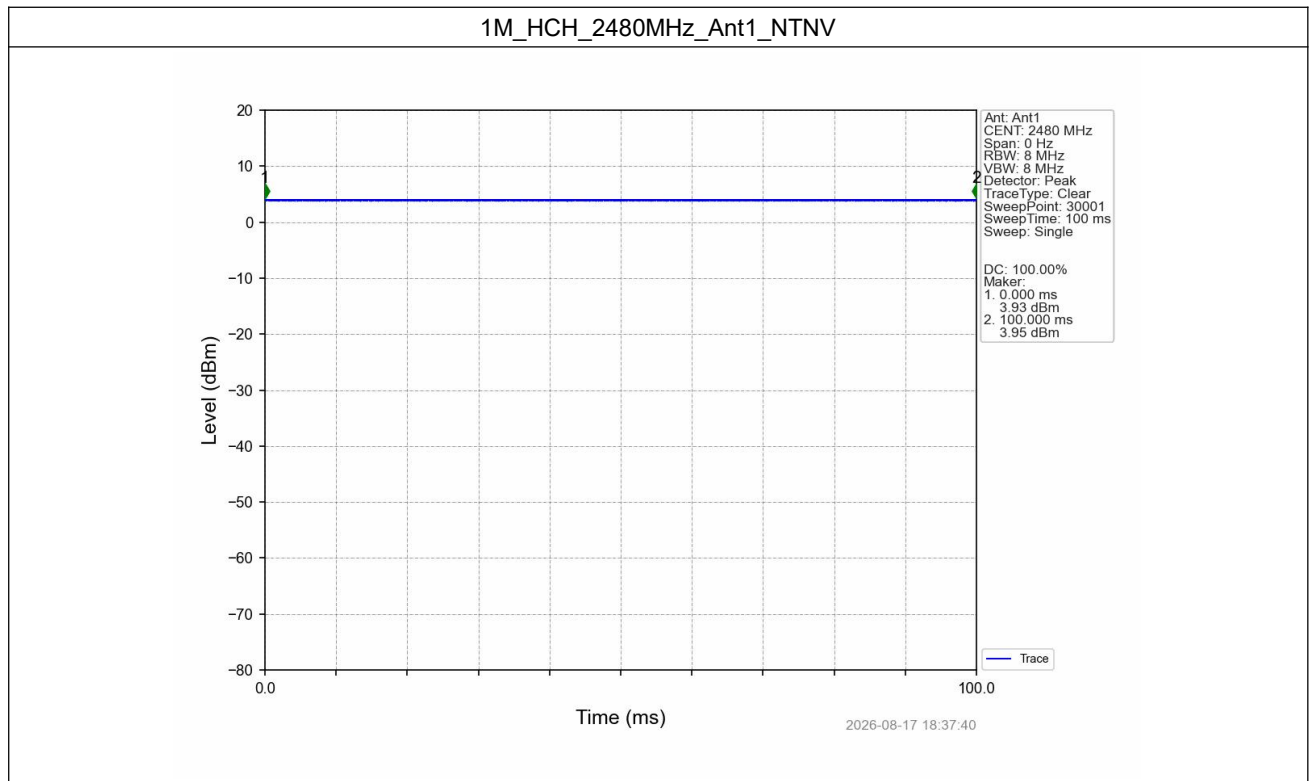
7.4. Duty Cycle

Test Result

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

Test Graph





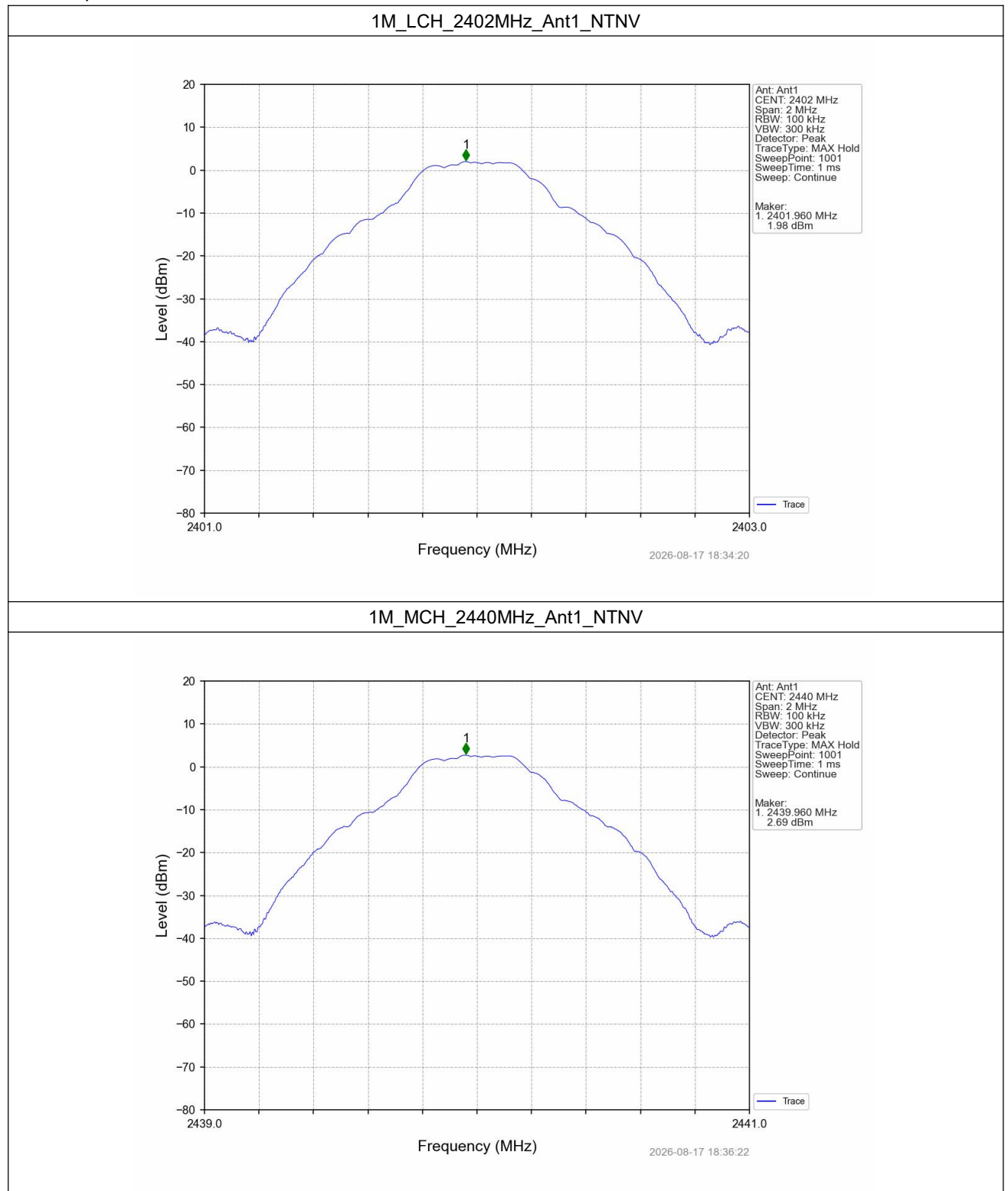
7.5. Conducted Spurious & Band Edge Emission

Test Result

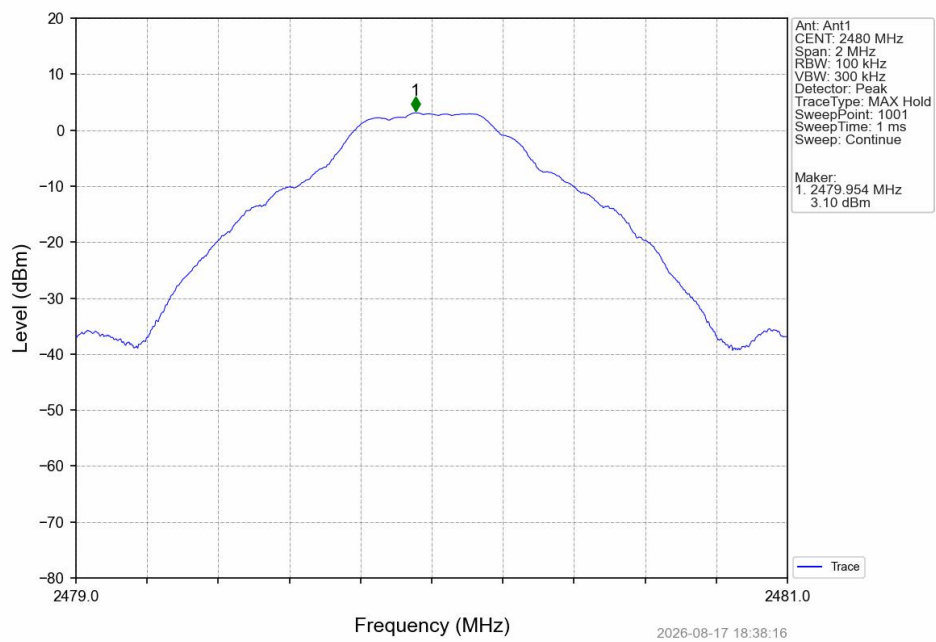
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	1.98
		2440	1	2.69
		2480	1	3.10

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	3.10	-16.90	Pass
		2440	1	3.10	-16.90	Pass
		2480	1	3.10	-16.90	Pass

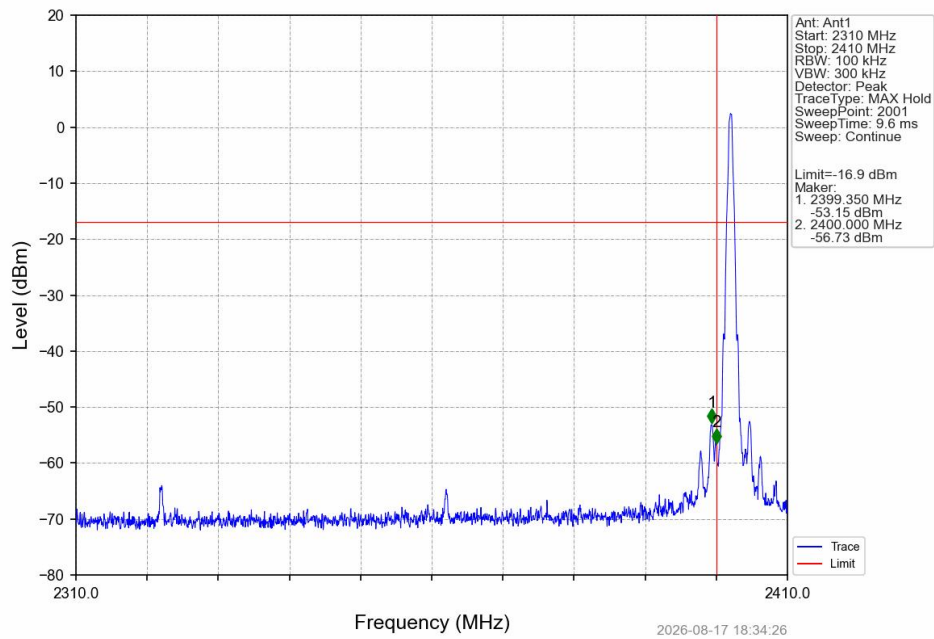
Test Graph



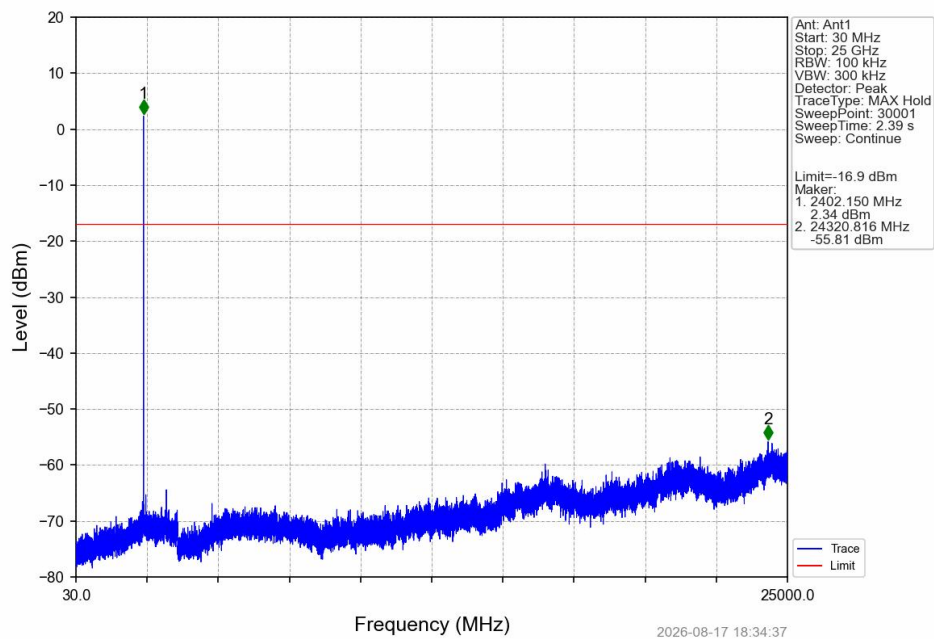
1M_HCH_2480MHz_Ant1_NTNV



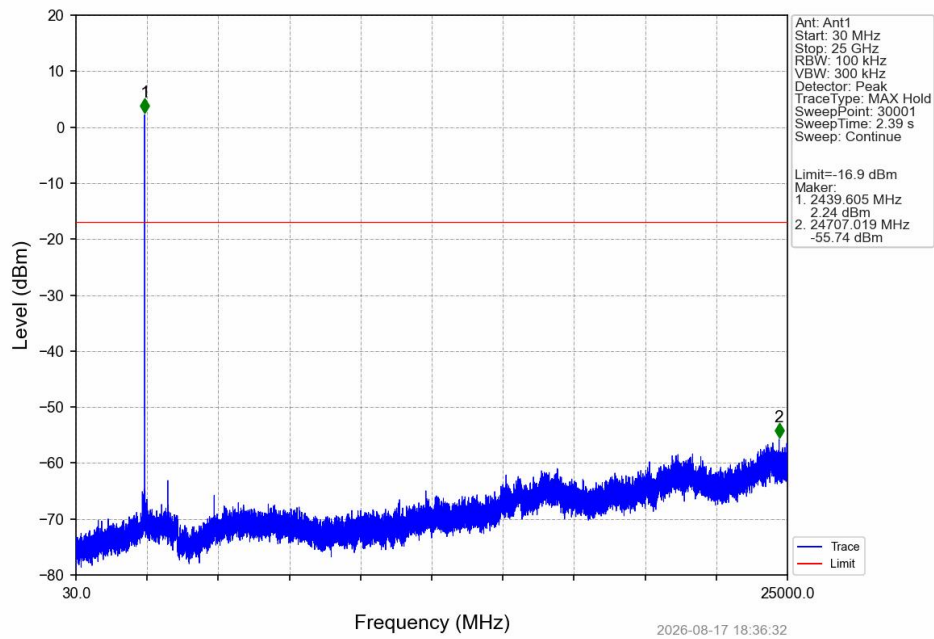
1M_LCH_2402MHz_Ant1_NTNV



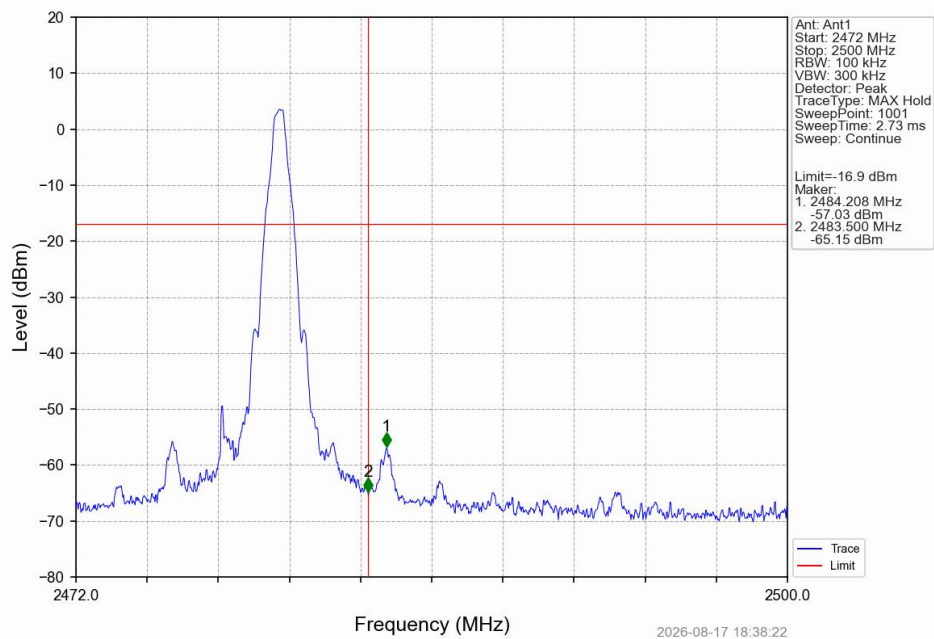
1M_LCH_2402MHz_Ant1_NTNV

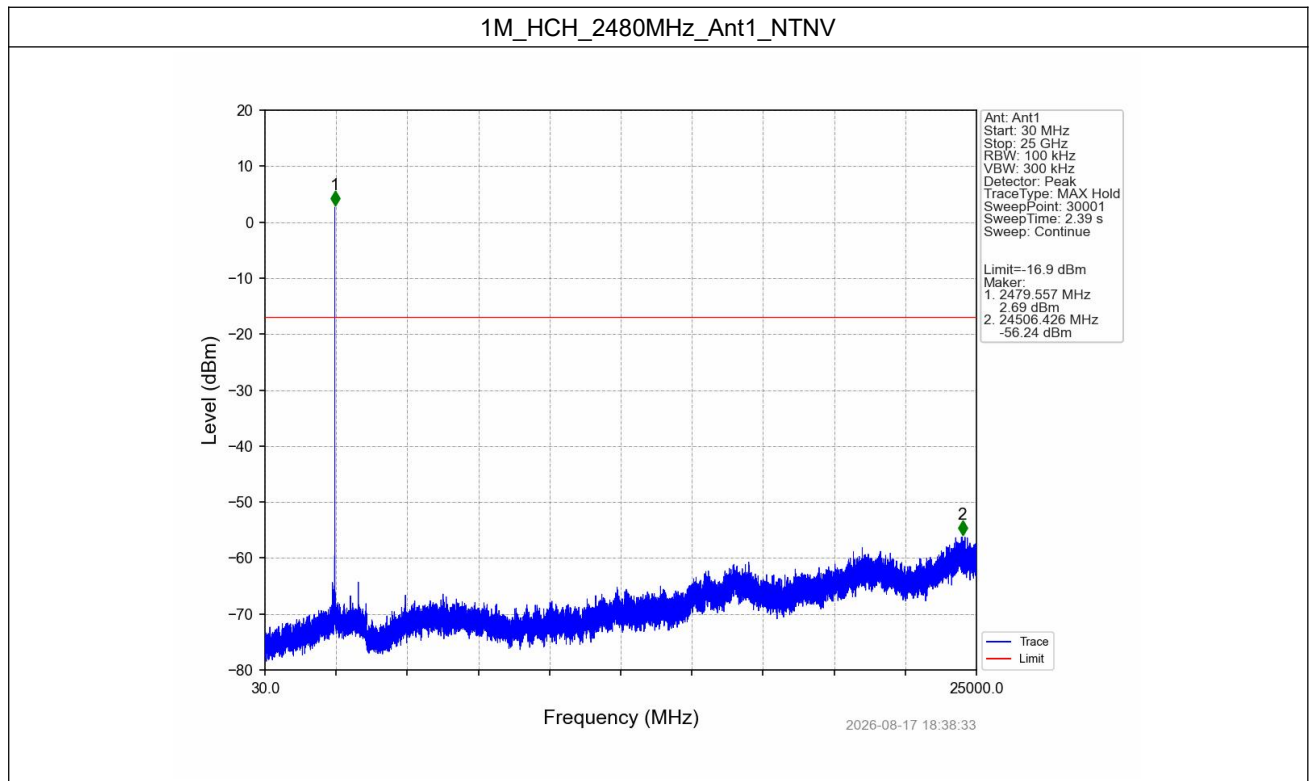


1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV





-----End of the report-----