

TEST REPORT

Report No.: 8336EU012829W

Applicant: SKG Health Technologies Co., Ltd.

Address: 23A Floor, Building 3, Zhongke R&D Park, No.009
Gaoxin South 1st Rd, High-tech Zone Community,
Yuehai Street, Nanshan District, Shenzhen, China

Product Name: REMOTE CONTROL

Model No.: S1439YK

Trademark: SKG

FCC ID: 2AYVT-S1439YK

Test Standard(s): 47 CFR Part 15.247

Test Result: Pass

Date of Receipt: Nov. 28, 2025

Test Date: Nov. 29, 2025 - Dec. 03, 2025

Date of Issue: Dec. 09, 2025

ISSUED BY:

SHENZHEN EU TESTING LABORATORY LIMITED



Prepared by:



Landon Qiu/ Engineer

Reviewed and Approved by:



Sally Zhang/ Manager

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2 General Information

2.1 Applicant Information

Applicant	SKG Health Technologies Co., Ltd.
Address	23A Floor, Building 3, Zhongke R&D Park, No.009 Gaoxin South 1st Rd, High-tech Zone Community, Yuehai Street, Nanshan District, Shenzhen, China

2.2 Manufacturer Information

Manufacturer	SKG Health Technologies Co., Ltd.
Address	23A Floor, Building 3, Zhongke R&D Park, No.009 Gaoxin South 1st Rd, High-tech Zone Community, Yuehai Street, Nanshan District, Shenzhen, China

2.3 Factory Information

Factory	SKG Health Technologies Co., Ltd.
Address	23A Floor, Building 3, Zhongke R&D Park, No.009 Gaoxin South 1st Rd, High-tech Zone Community, Yuehai Street, Nanshan District, Shenzhen, China

2.4 General Description of E.U.T.

Product Name	REMOTE CONTROL
Model No. Under Test	S1439YK
List Model No.	N/A
Description of Model differentiation	N/A
Rating(s)	Input: 3VDC (Powered by 2 x 1.5V AAA batteries in series)
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Test Sample No.	8336EU012829W-1/2(Normal), 8336EU012829W-2/2(Engineering)
Hardware Version	N/A
Software Version	N/A
Remark	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.5 Technical Information of E.U.T.

Network and Wireless Connectivity	2.4G ISM Proprietary Band
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The requirement for the following technical information of the EUT was tested in this report:

Operating Frequency	2402MHz to 2480MHz
Modulation Type	GFSK
Number of Channels	40
Antenna Type	PCB Antenna
Antenna Gain(Peak)	0.00 dBi
Remark	The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant.

All channels were listed on the following table:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
37	2402	07	2418	14	2434	22	2450	30	2466
00	2404	08	2420	15	2436	23	2452	31	2468
01	2406	09	2422	16	2438	24	2454	32	2470
02	2408	10	2424	17	2440	25	2456	33	2472
03	2410	38	2426	18	2442	26	2458	34	2474
04	2412	11	2428	19	2444	27	2460	35	2476
05	2414	12	2430	20	2446	28	2462	36	2478
06	2416	13	2432	21	2448	29	2464	39	2480

3 Test Summary

3.1 Test Standard

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

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

3.2 Test Verdict

Test Items	Standard	Method	Requirement	Results
Antenna requirement	47 CFR Part 15.247	---	47 CFR 15.203	Pass
6dB Bandwidth	47 CFR Part 15.247	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	ANSI C63.10-2020 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass

Note:

(1) "N/A" denotes test is not applicable in this Test Report.

3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited
Address	101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China
Designation Number	CN1368
Test Firm Registration Number	952583



4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%	
Atmospheric Pressure	86 kPa to 106 kPa	
Temperature	NT (Normal Temperature)	+15°C to +35°C
Working Voltage of the EUT	NV (Normal Voltage)	3.0VDC battery inside

4.2 Test Equipment

Emissions in non-restricted frequency bands

6dB Bandwidth

Maximum Conducted Output Power

Power Spectral Density

Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
MXA Signal Analyzer	Agilent	N9020A	EE-011	2025-01-08	2026-01-07
MXG RF Vector Signal Generator	Agilent	N5182A	EE-012	2025-01-08	2026-01-07
MIMO Power Measurement Module	TSTPASS	TSPS 2023R	EE-016	2025-01-08	2026-01-07
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	EE-402	2025-02-14	2026-02-13
MXG RF Analog Signal Generator	Agilent	N5181A	EE-406	2025-02-14	2026-02-13
Power Meter	Anritsu	ML2495A	EE-416	2025-02-14	2026-02-13
Constant Temperature Humidity Chamber	Guangxin	GXP-401	ES-002	2025-07-29	2026-07-28
RF Test Software	TSTPASS	TS32893 V2.0	EE-017	/	/

Band edge emissions (Radiated)

Emissions in frequency bands (above 1GHz)

Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESPI	EE-006	2025-01-08	2026-01-07
Double Ridged Horn Antenna	A-INFOMW	LB-10180-NF	EE-008	2023-01-12	2026-01-11
Pre-amplifier	Agilent	8449B	EE-010	2025-01-08	2026-01-07
MXG RF Vector Signal Generator	Agilent	N5182A	EE-012	2025-01-08	2026-01-07

DRG Horn Antenna	SCHWARZBECK	BBHA 9170	EE-410	2025-02-14	2026-02-13
Pre-amplifier	SKET	LNPA-1840-50	EE-411	2025-02-14	2026-02-13
Test Software	Farad	EZ-EMC	EE-015	/	/

Emissions in frequency bands (below 1GHz)					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESPI	EE-006	2025-01-08	2026-01-07
Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	EE-007	2023-01-14	2026-01-13
Pre-amplifier	Agilent	8447D	EE-009	2025-01-08	2026-01-07
MXA Signal Analyzer	Agilent	N9020A	EE-011	2025-01-08	2026-01-07
Test Software	Farad	EZ-EMC	EE-015	/	/
RF Cable	Rosenberger	L8000M	EE-202	2025-01-08	2026-01-07
RF Cable	Rosenberger	L2000M	EE-203	2025-01-08	2026-01-07
RF Cable	Rosenberger	L0800M	EE-204	2025-01-08	2026-01-07

4.3 Description of Support Unit

No.	Title	Manufacturer	Model No.	Serial No.
1	N/A			

4.4 Test Mode

No.	Test Modes	Description
TM1	2.4G Mode	Keep the EUT in 2.4G connection mode.

4.5 Description of Calculation

4.5.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS \text{ (dBuV/m)} = RA \text{ (dBuV)} + AF \text{ (dB/m)} + CL \text{ (dB)} - AG \text{ (dB)}$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

4.5.2 Disturbance Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$CD \text{ (dBuV)} = RA \text{ (dBuV)} + PL \text{ (dB)} + CL \text{ (dB)}$$

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

4.6 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test Item	Measurement Uncertainty
Occupied Channel Bandwidth	70 kHz
RF output power, conducted	1.04 dB
Power Spectral Density, conducted	0.91 dB
Unwanted Emissions, conducted	2.72 dB
Radiated Emission (1GHz- 18GHz)	Ur = 3.50 dB (Horizontal) Ur = 3.50 dB (Vertical)
Radiated Emission (9kHz- 30MHz)	Ur = 2.50 dB
Radiated Emission (30MHz- 1GHz)	Ur = 2.70 dB (Horizontal) Ur = 2.70 dB (Vertical)
Radiated Emission (18GHz- 40GHz)	Ur = 5.15 dB (Horizontal) Ur = 5.24 dB (Vertical)

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Condition

None

5 Evaluation Results (Evaluation)

5.1 Antenna requirement

5.1.1 Test Specification

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:	---

5.1.2 Test Data

PASS.

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

6 Radio Spectrum Matter Test Results (RF)

6.1 6dB Bandwidth

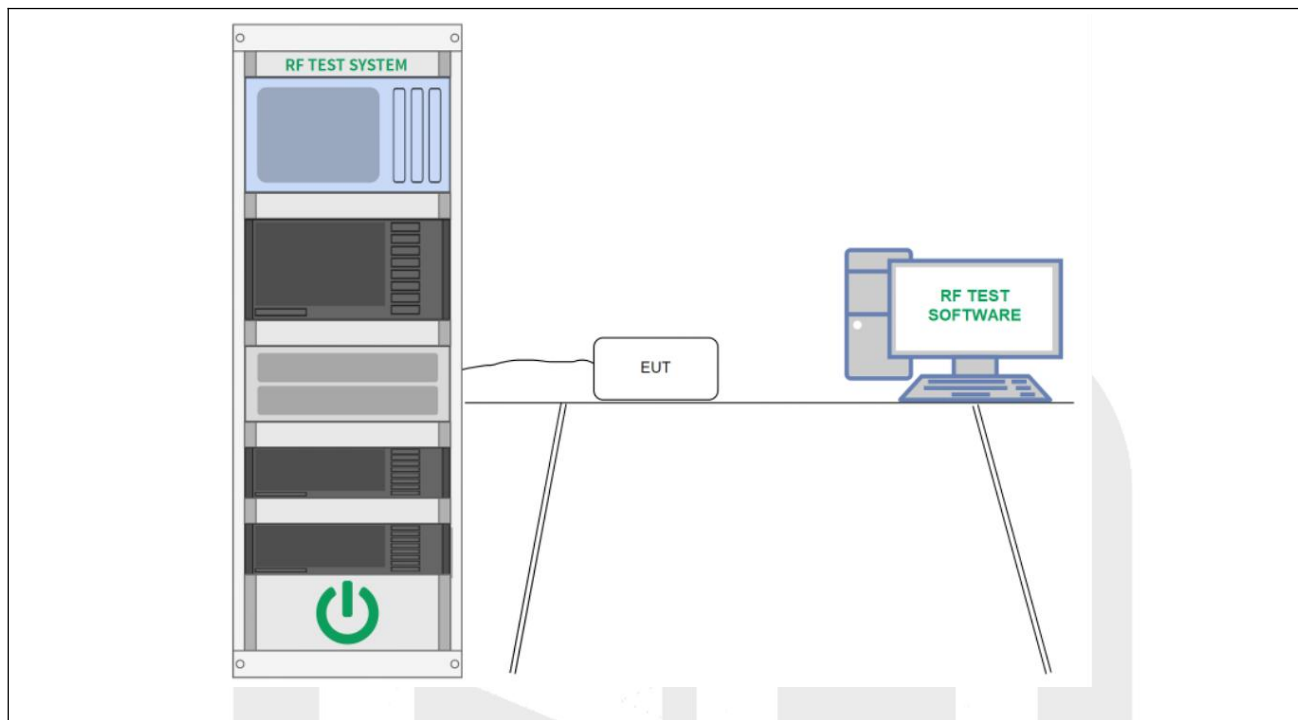
6.1.1 Test Specification

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 KDB 558074 D01 15.247 Meas Guidance v05r02
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.

6.1.2 E.U.T. Operation

Pre test mode:	TM1
Final test mode:	TM1

6.1.3 Test Setup Diagram



6.1.4 Test Data

PASS.

Please refer to Annex D for details.

6.2 Maximum Conducted Output Power

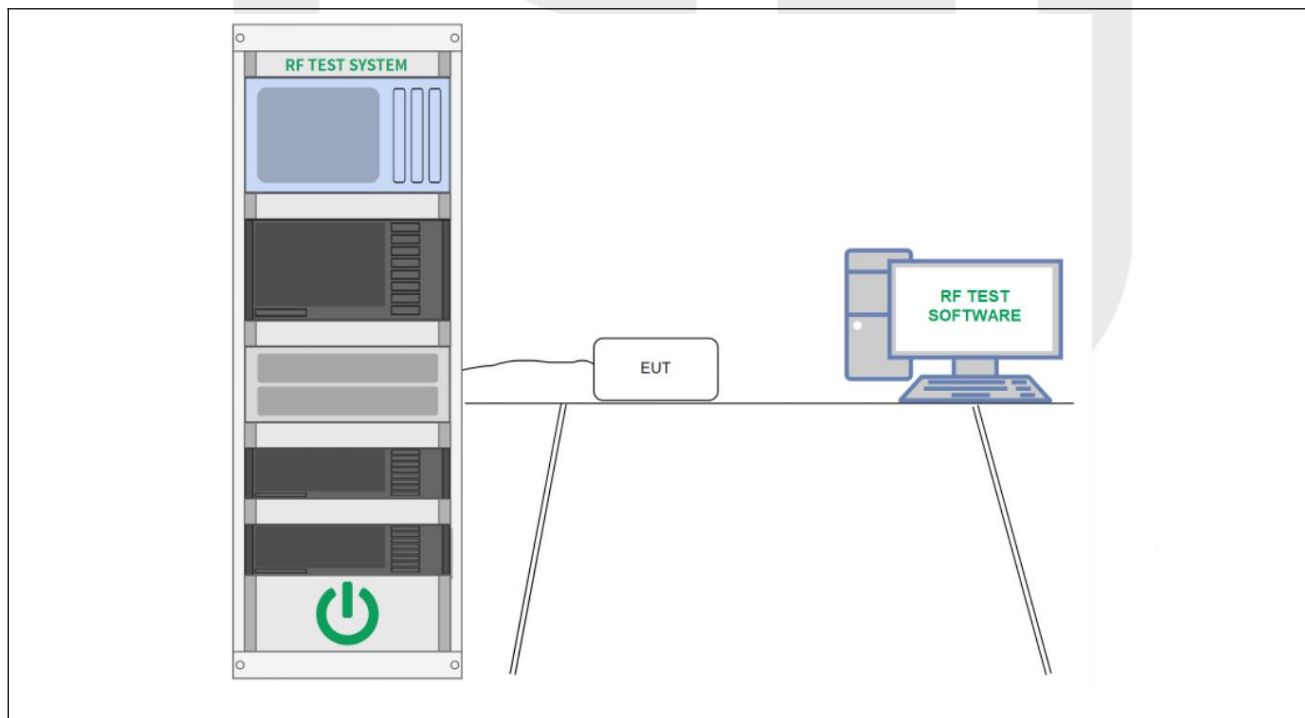
6.2.1 Test Specification

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 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

6.2.2 E.U.T. Operation

Pre test mode:	TM1
Final test mode:	TM1

6.2.3 Test Setup Diagram



6.2.4 Test Data

PASS.

Please refer to Annex D for details.

6.3 Power Spectral Density

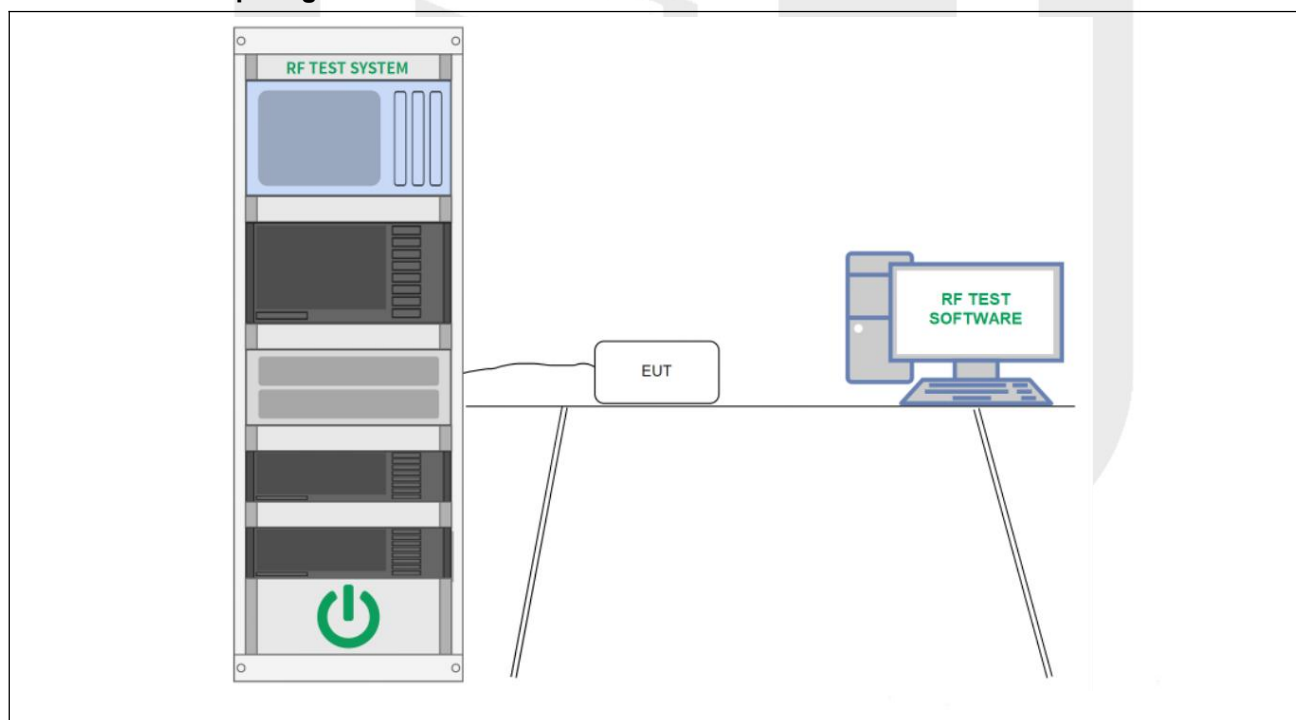
6.3.1 Test Specification

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 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

6.3.2 E.U.T. Operation

Pre test mode:	TM1
Final test mode:	TM1

6.3.3 Test Setup Diagram



6.3.4 Test Data

PASS.

Please refer to Annex D for details.

6.4 Emissions in non-restricted frequency bands

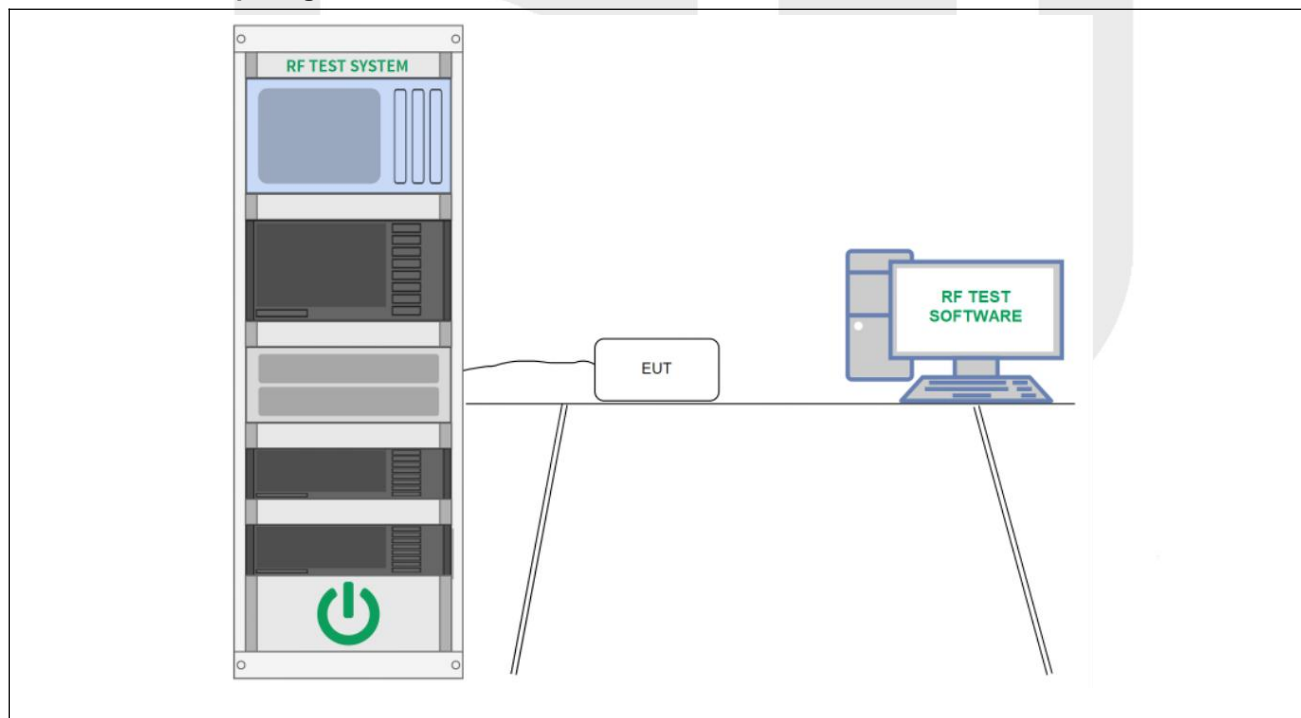
6.4.1 Test Specification

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 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.4.2 E.U.T. Operation

Pre test mode:	TM1
Final test mode:	TM1

6.4.3 Test Setup Diagram



6.4.4 Test Data

PASS.

Please refer to Annex D for details.

6.5 Band edge emissions (Radiated)

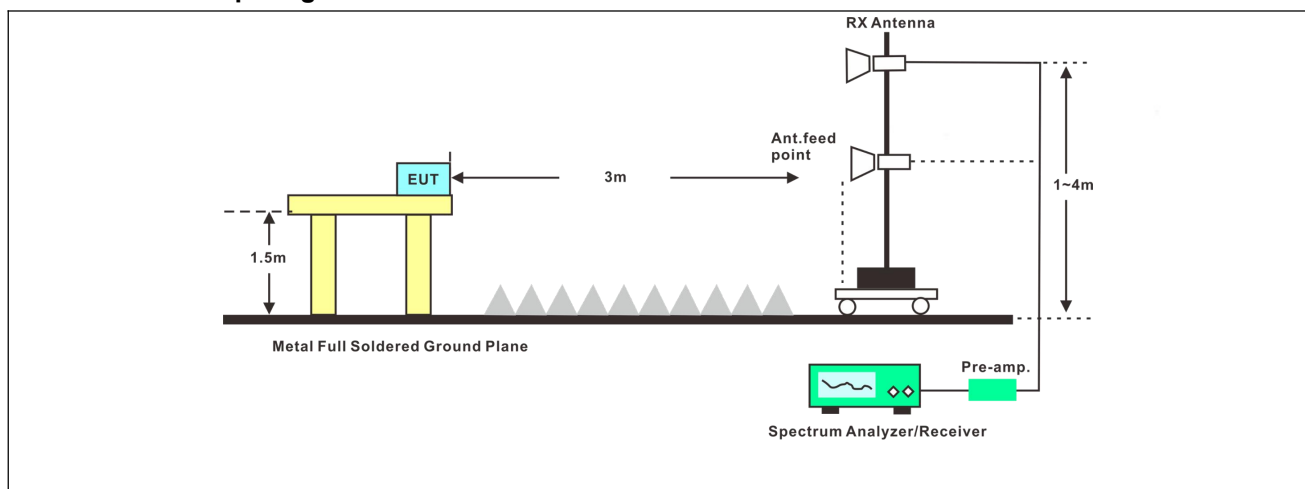
6.5.1 Test Specification

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 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 section 6.10.5.2		

6.5.2 E.U.T. Operation

Pre test mode:	TM1
Final test mode:	TM1

6.5.3 Test Setup Diagram



6.5.4 Test Data

PASS.

Please refer to the following pages.



Band Edge Emissions (Restricted frequency bands):

Test Mode: 2.4G Mode					CH High: 2402 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	2310.00	41.93	-2.81	39.12	74.00	-34.88	PK	PASS
H	2390.00	48.70	-2.69	46.01	74.00	-27.99	PK	PASS
H	**2400.00	60.81	-2.68	58.13	74.00	-15.87	PK	PASS
V	2310.00	43.02	-2.81	40.21	74.00	-33.79	PK	PASS
V	2390.00	45.56	-2.69	42.87	74.00	-31.13	PK	PASS
V	**2400.00	62.26	-2.68	59.58	74.00	-14.42	PK	PASS
H	2310.00	33.47	-2.81	30.66	54.00	-23.34	AV	PASS
H	2390.00	35.04	-2.69	32.35	54.00	-21.65	AV	PASS
H	**2400.00	47.91	-2.68	45.23	54.00	-8.77	AV	PASS
V	2310.00	34.86	-2.81	32.05	54.00	-21.95	AV	PASS
V	2390.00	36.75	-2.69	34.06	54.00	-19.94	AV	PASS
V	**2400.00	48.09	-2.68	45.41	54.00	-8.59	AV	PASS

Test Mode: 2.4G Mode					CH High: 2480 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	**2483.50	46.37	-2.56	43.81	74.00	-30.19	PK	PASS
H	2500.00	48.87	-2.54	46.33	74.00	-27.67	PK	PASS
V	**2483.50	45.83	-2.56	43.27	74.00	-30.73	PK	PASS
V	2500.00	50.99	-2.54	48.45	74.00	-25.55	PK	PASS
H	**2483.50	35.26	-2.56	32.70	54.00	-21.30	AV	PASS
H	2500.00	38.19	-2.54	35.65	54.00	-18.35	AV	PASS
V	**2483.50	37.96	-2.56	35.40	54.00	-18.60	AV	PASS
V	2500.00	39.28	-2.54	36.74	54.00	-17.26	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

6.6 Emissions in frequency bands (below 1GHz)

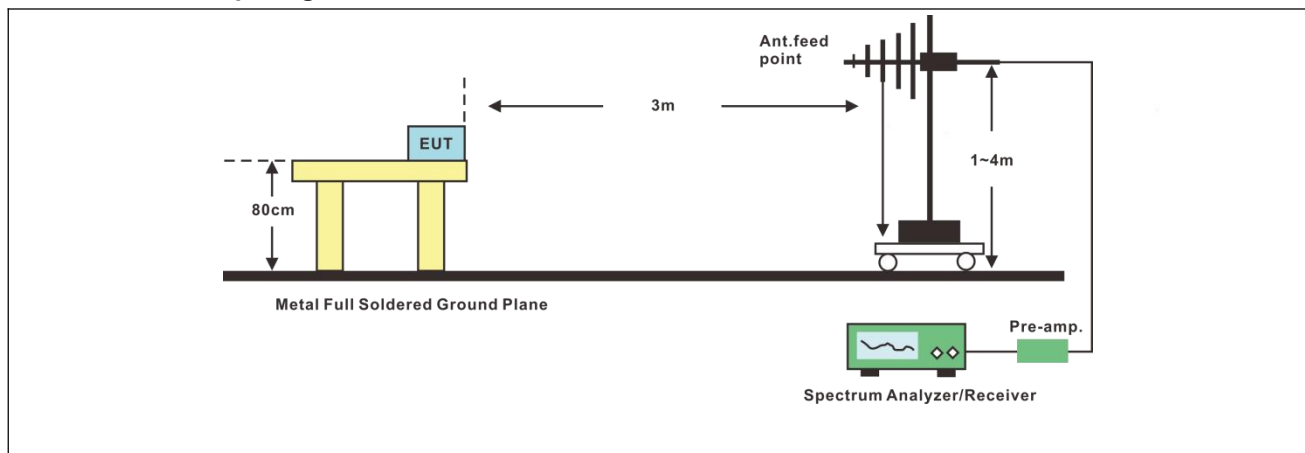
6.6.1 Test Specification

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 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 section 6.6.4		

6.6.2 E.U.T. Operation

Pre test mode:	TM1
Final test mode:	TM1

6.6.3 Test Setup Diagram



6.6.4 Test Data**PASS.**

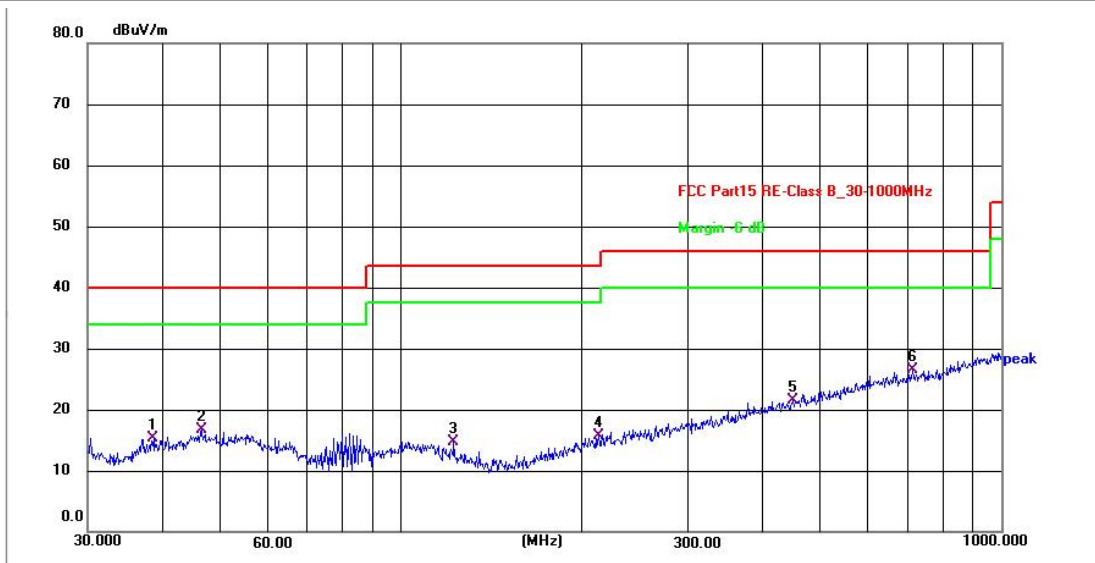
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, for 30MHz to 1000MHz, pre-scan all modulations, and found the 2.4G modulation Low channel which is the worst case, only the worst case is recorded in the report.



Emissions in frequency bands (below 1GHz) Test Data

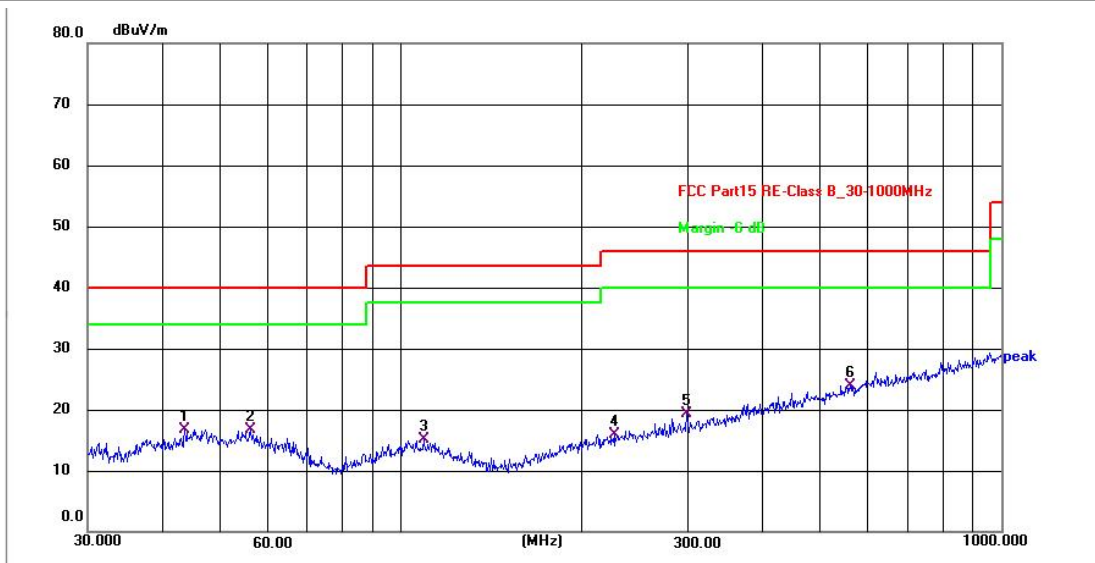
TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	38.6160	30.95	-15.65	15.30	40.00	-24.70	QP	P	
2	46.3402	31.01	-14.22	16.79	40.00	-23.21	QP	P	
3	122.4040	31.76	-17.06	14.70	43.50	-28.80	QP	P	
4	213.0151	30.26	-14.60	15.66	43.50	-27.84	QP	P	
5	447.9822	30.75	-9.17	21.58	46.00	-24.42	QP	P	
6 *	711.6734	31.65	-5.09	26.56	46.00	-19.44	QP	P	

Emissions in frequency bands (below 1GHz) Test Data

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	43.5057	31.27	-14.52	16.75	40.00	-23.25	QP	P	
2	56.0007	31.43	-14.70	16.73	40.00	-23.27	QP	P	
3	109.0286	31.36	-16.27	15.09	43.50	-28.41	QP	P	
4	226.8936	30.09	-14.22	15.87	46.00	-30.13	QP	P	
5	298.2681	31.26	-11.99	19.27	46.00	-26.73	QP	P	
6 *	560.6928	31.02	-7.05	23.97	46.00	-22.03	QP	P	

6.7 Emissions in frequency bands (above 1GHz)

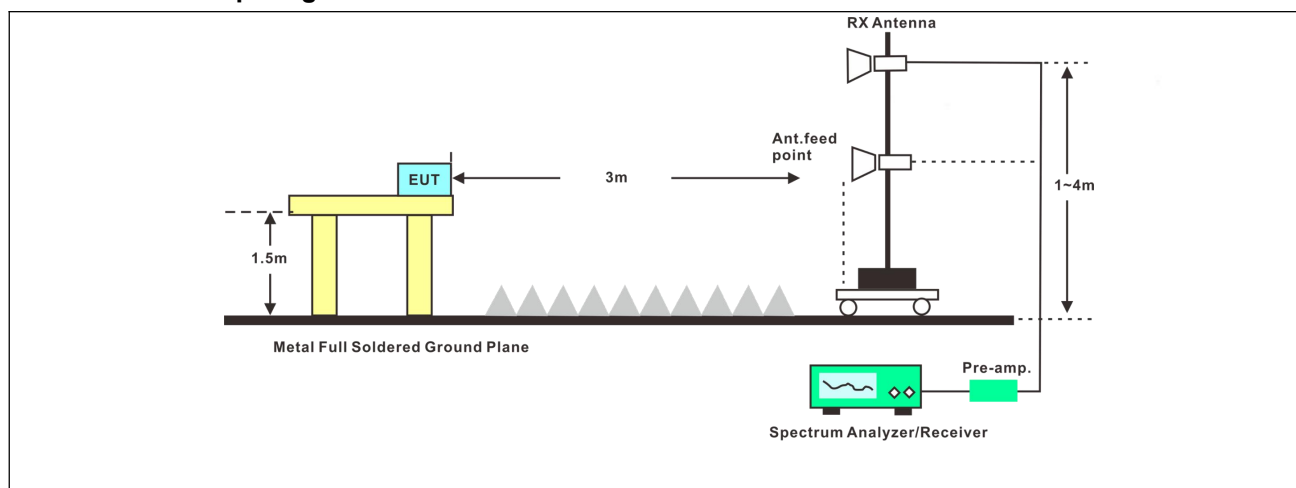
6.7.1 Test Specification

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 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 section 6.6.4		

6.7.2 E.U.T. Operation

Pre test mode:	TM1
Final test mode:	TM1

6.7.3 Test Setup Diagram



6.7.4 Test Data**PASS.**

During the test, for 1GHz- 25GHz, pre-scan all modulations, and found the 2.4G modulation which is the worst case, only the worst case is recorded in the report.



Radiated Spurious Emission (1GHz-25GHz)

Test Mode: 2.4G Mode					CH Low: 2402 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
V	4804.30	42.78	4.68	47.46	74.00	-26.55	PK	PASS
V	7206.99	33.14	9.84	42.98	74.00	-31.02	PK	PASS
V	9608.67	30.71	13.17	43.88	74.00	-30.12	PK	PASS
V	12010.82	*	*	*	74.00	*	PK	PASS
V	14412.28	*	*	*	74.00	*	PK	PASS
V	16814.92	*	*	*	74.00	*	PK	PASS
H	4804.75	40.27	4.68	44.95	74.00	-29.05	PK	PASS
H	7206.57	35.62	9.84	45.46	74.00	-28.55	PK	PASS
H	9608.79	29.45	13.17	42.62	74.00	-31.38	PK	PASS
H	12010.70	*	*	*	74.00	*	PK	PASS
H	14412.14	*	*	*	74.00	*	PK	PASS
H	16814.29	*	*	*	74.00	*	PK	PASS
V	4804.46	31.69	4.68	36.37	54.00	-17.63	AV	PASS
V	7206.34	22.36	9.84	32.20	54.00	-21.81	AV	PASS
V	9608.37	18.15	13.17	31.32	54.00	-22.68	AV	PASS
V	12011.00	*	*	*	54.00	*	AV	PASS
V	14412.30	*	*	*	54.00	*	AV	PASS
V	16814.86	*	*	*	54.00	*	AV	PASS
H	4804.55	30.06	4.68	34.74	54.00	-19.27	AV	PASS
H	7206.57	22.00	9.84	31.84	54.00	-22.16	AV	PASS
H	9608.79	19.87	13.17	33.04	54.00	-20.97	AV	PASS
H	12010.70	*	*	*	54.00	*	AV	PASS
H	14412.14	*	*	*	54.00	*	AV	PASS
H	16814.29	*	*	*	54.00	*	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Radiated Spurious Emission (1GHz-25GHz)

Test Mode: 2.4G Mode					CH Middle: 2426 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
V	4852.02	40.72	4.92	45.64	74.00	-28.37	PK	PASS
V	7278.16	33.95	9.83	43.78	74.00	-30.22	PK	PASS
V	9704.99	29.35	13.22	42.57	74.00	-31.43	PK	PASS
V	12130.61	*	*	*	74.00	*	PK	PASS
V	14556.86	*	*	*	74.00	*	PK	PASS
V	16982.96	*	*	*	74.00	*	PK	PASS
H	4852.62	42.53	4.92	47.45	74.00	-26.56	PK	PASS
H	7278.95	35.30	9.83	45.13	74.00	-28.88	PK	PASS
H	9704.37	30.23	13.22	43.45	74.00	-30.56	PK	PASS
H	12130.92	*	*	*	74.00	*	PK	PASS
H	14556.90	*	*	*	74.00	*	PK	PASS
H	16982.87	*	*	*	74.00	*	PK	PASS
V	4852.97	30.87	4.92	35.79	54.00	-18.22	AV	PASS
V	7278.48	23.22	9.83	33.05	54.00	-20.95	AV	PASS
V	9704.33	18.78	13.22	32.00	54.00	-22.00	AV	PASS
V	12130.53	*	*	*	54.00	*	AV	PASS
V	14556.16	*	*	*	54.00	*	AV	PASS
V	16982.67	*	*	*	54.00	*	AV	PASS
H	4852.62	31.10	4.92	36.02	54.00	-17.98	AV	PASS
H	7278.95	22.44	9.83	32.27	54.00	-21.73	AV	PASS
H	9704.37	18.56	13.22	31.78	54.00	-22.22	AV	PASS
H	12130.92	*	*	*	54.00	*	AV	PASS
H	14556.90	*	*	*	54.00	*	AV	PASS
H	16982.87	*	*	*	54.00	*	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Radiated Spurious Emission (1GHz-25GHz)

Test Mode: 2.4G Mode					CH High: 2480 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
V	4960.75	41.22	5.17	46.39	74.00	-27.62	PK	PASS
V	7440.32	35.45	9.83	45.28	74.00	-28.72	PK	PASS
V	9920.59	28.42	13.27	41.69	74.00	-32.32	PK	PASS
V	12400.95	*	*	*	74.00	*	PK	PASS
V	14880.94	*	*	*	74.00	*	PK	PASS
V	17360.32	*	*	*	74.00	*	PK	PASS
H	4960.77	42.54	5.17	47.71	74.00	-26.29	PK	PASS
H	7440.26	34.29	9.83	44.12	74.00	-29.89	PK	PASS
H	9920.62	29.25	13.27	42.52	74.00	-31.48	PK	PASS
H	12400.24	*	*	*	74.00	*	PK	PASS
H	14880.41	*	*	*	74.00	*	PK	PASS
H	17360.26	*	*	*	74.00	*	PK	PASS
V	4960.98	30.99	5.17	36.16	54.00	-17.85	AV	PASS
V	7440.23	24.77	9.83	34.60	54.00	-19.40	AV	PASS
V	9920.94	17.15	13.27	30.42	54.00	-23.58	AV	PASS
V	12400.01	*	*	*	54.00	*	AV	PASS
V	14880.82	*	*	*	54.00	*	AV	PASS
V	17360.12	*	*	*	54.00	*	AV	PASS
H	4960.77	32.10	5.17	37.27	54.00	-16.73	AV	PASS
H	7440.26	23.67	9.83	33.50	54.00	-20.51	AV	PASS
H	9920.62	17.04	13.27	30.31	54.00	-23.69	AV	PASS
H	12400.24	*	*	*	54.00	*	AV	PASS
H	14880.41	*	*	*	54.00	*	AV	PASS
H	17360.26	*	*	*	54.00	*	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

ANNEX A TEST SETUP PHOTOS

Please refer to the document "8336EU012829W-ANNEX A.PDF"

ANNEX B EXTERNAL PHOTOS

Please refer to the document "8336EU012829W-ANNEX B.PDF"

ANNEX C INTERNAL PHOTOS

Please refer to the document "8336EU012829W-ANNEX C.PDF"



ANNEX D TEST DATA

1. Duty Cycle

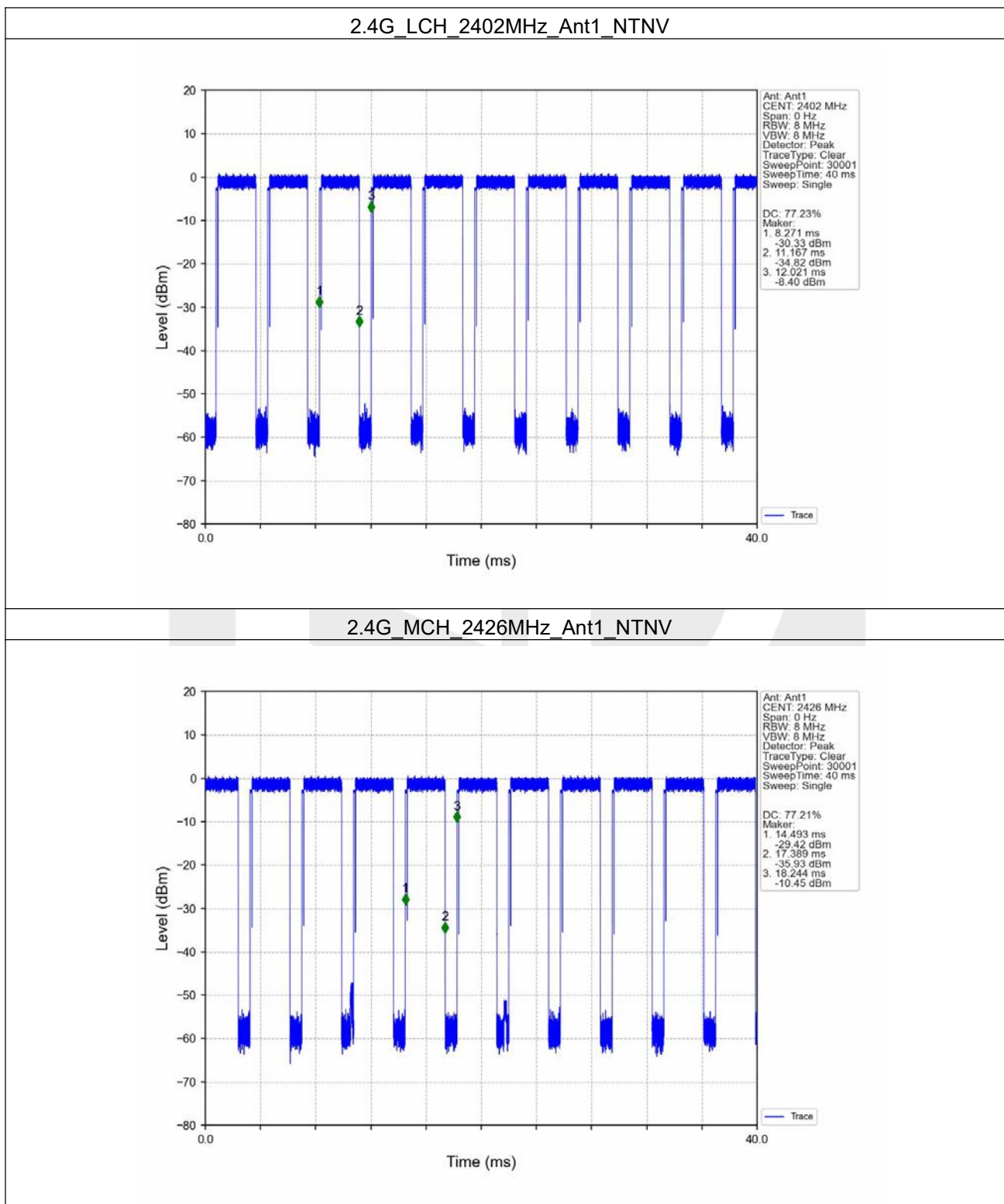
1.1 Test Result

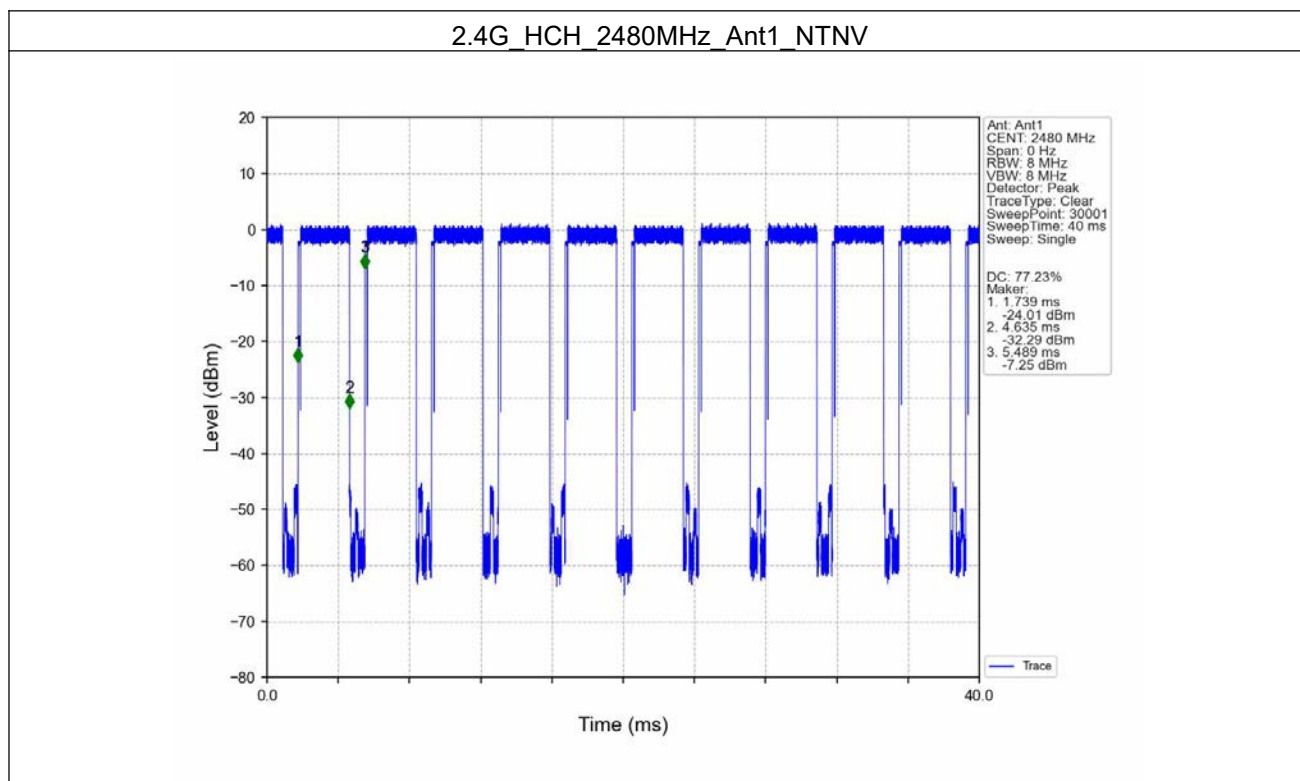
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
2.4G	SISO	2402	2.896	3.750	77.23	1.12	0.04
		2426	2.896	3.751	77.21	1.12	0.04
		2480	2.896	3.750	77.23	1.12	0.04

1.2 Test Graph

1.2.1 Ant1





2. Bandwidth

2.1 Test Result

2.1.1 OBW

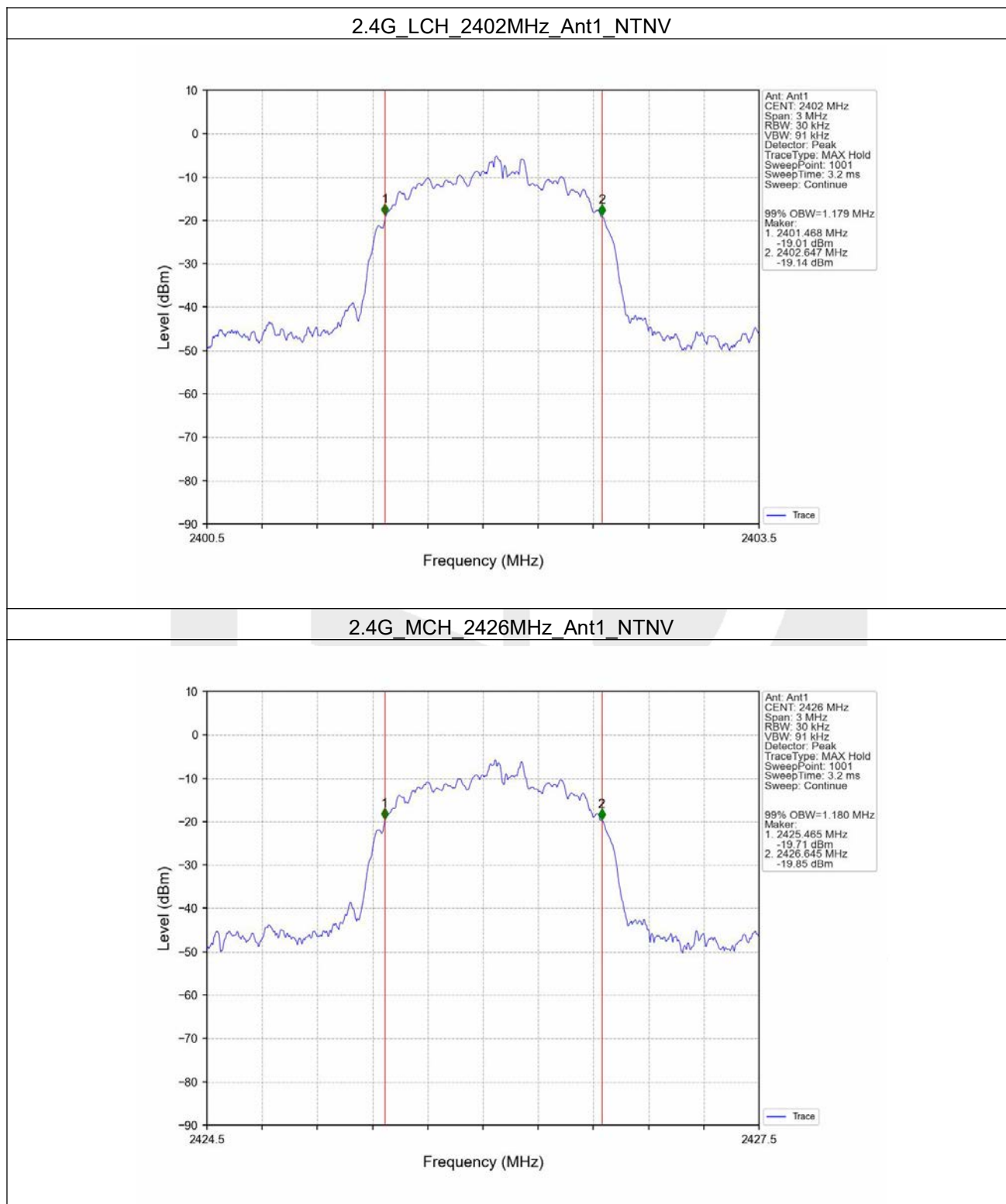
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
2.4G	SISO	2402	1	1.179	/	Pass
		2426	1	1.180	/	Pass
		2480	1	1.180	/	Pass

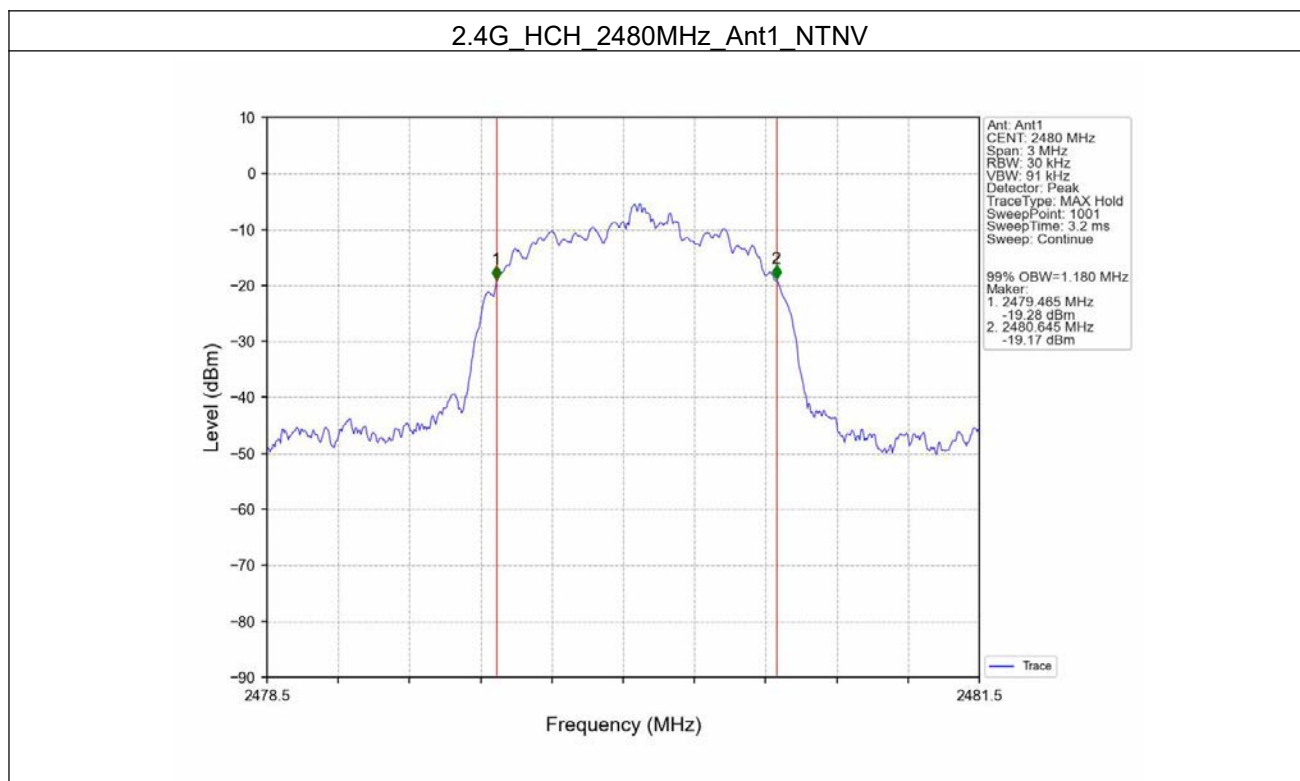
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
2.4G	SISO	2402	1	1.020	≥ 0.5	Pass
		2426	1	1.036	≥ 0.5	Pass
		2480	1	1.032	≥ 0.5	Pass

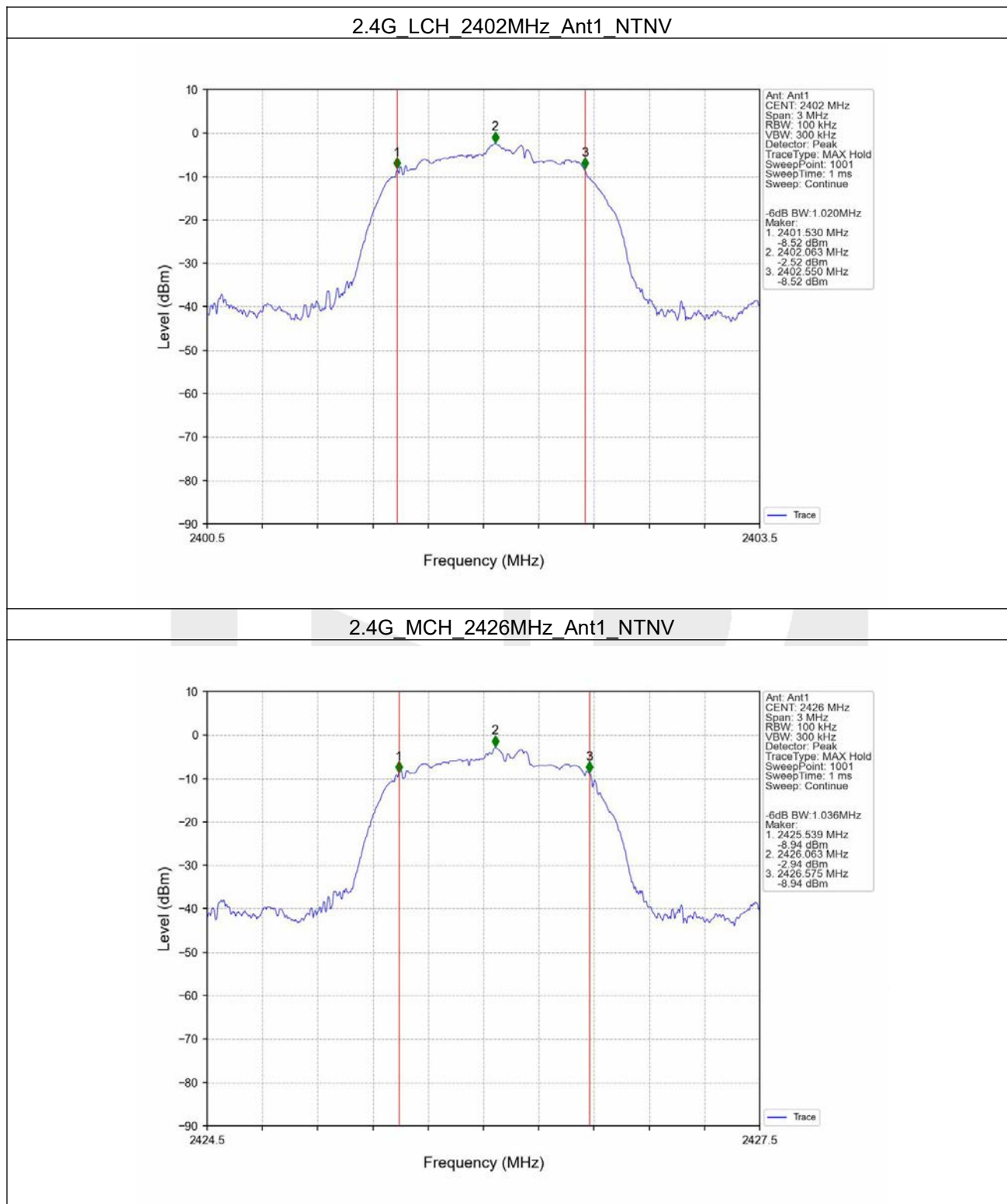
2.2 Test Graph

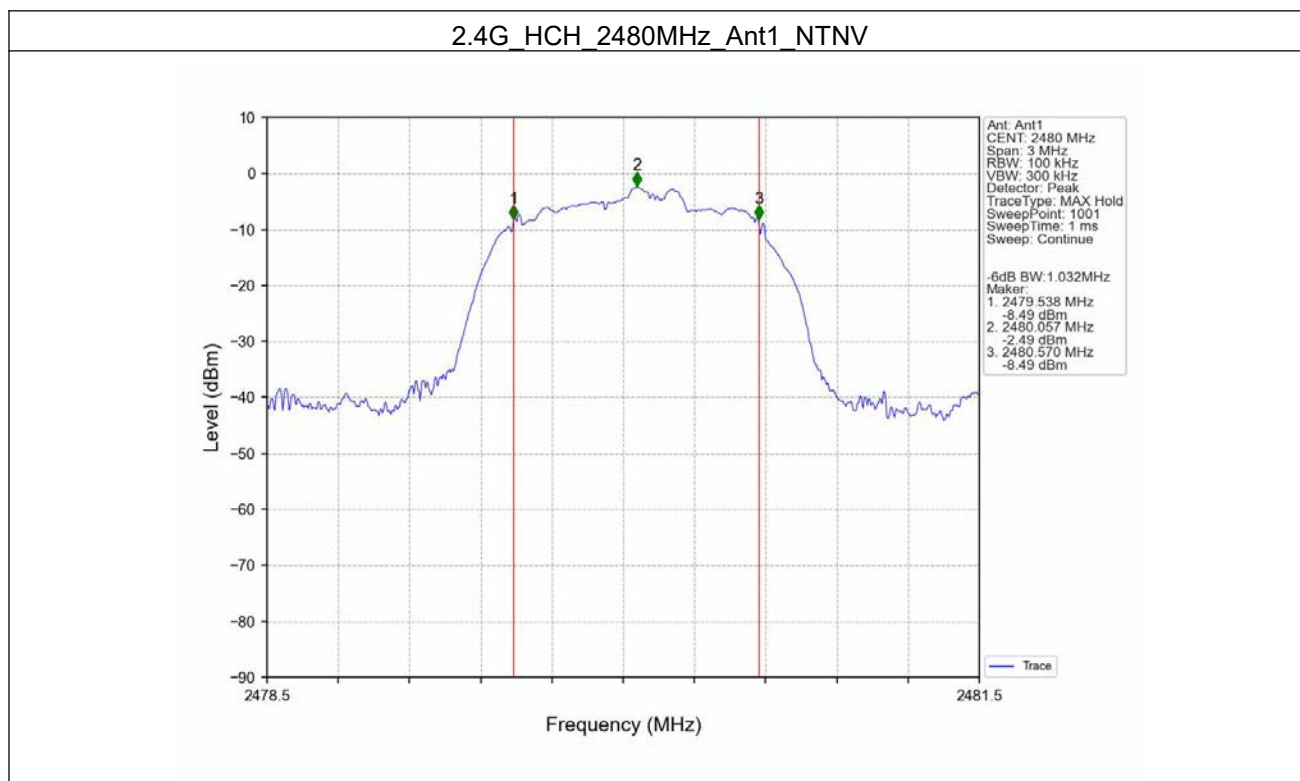
2.2.1 OBW





2.2.2 6dB BW





3. Maximum Conducted Output Power

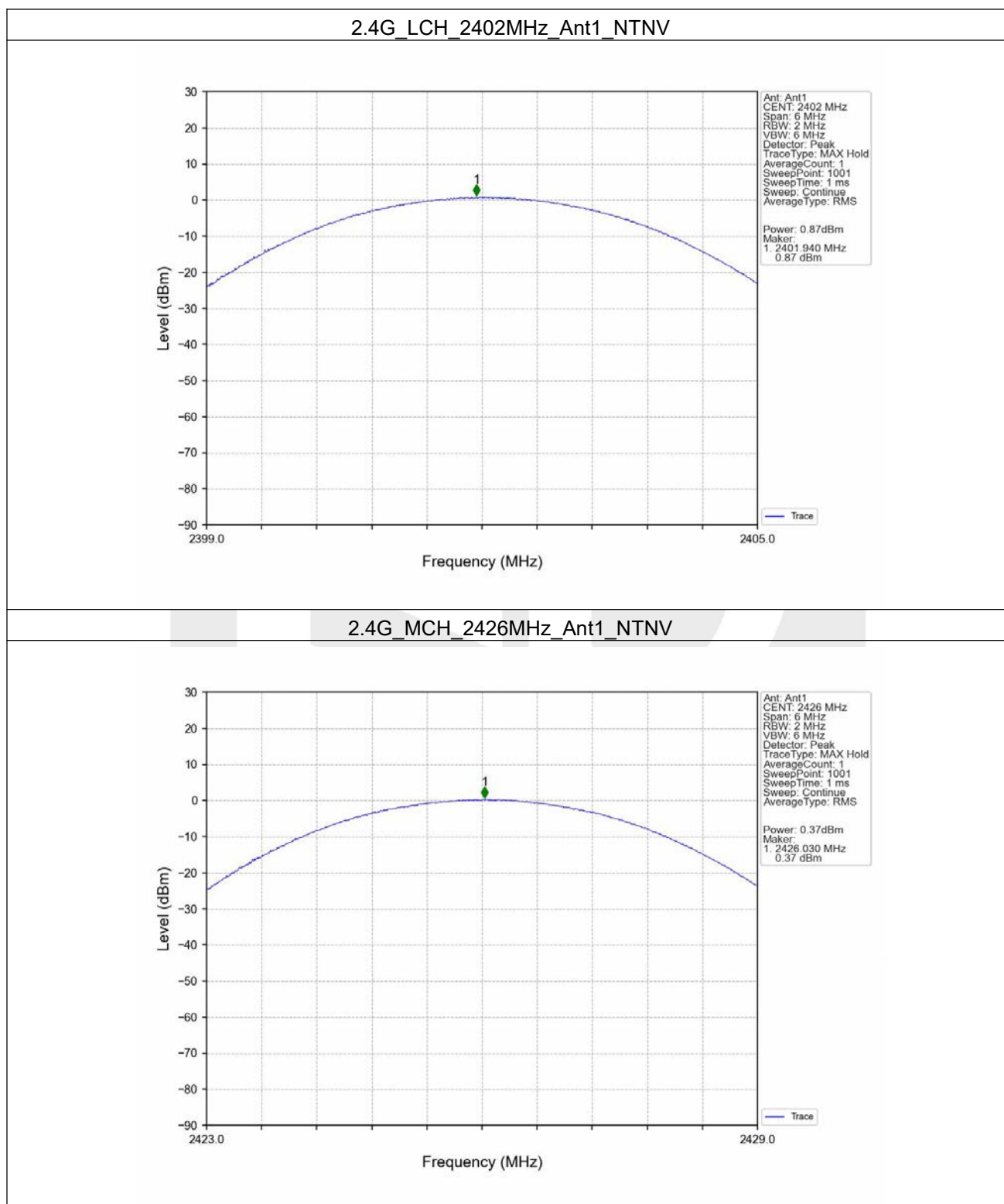
3.1 Test Result

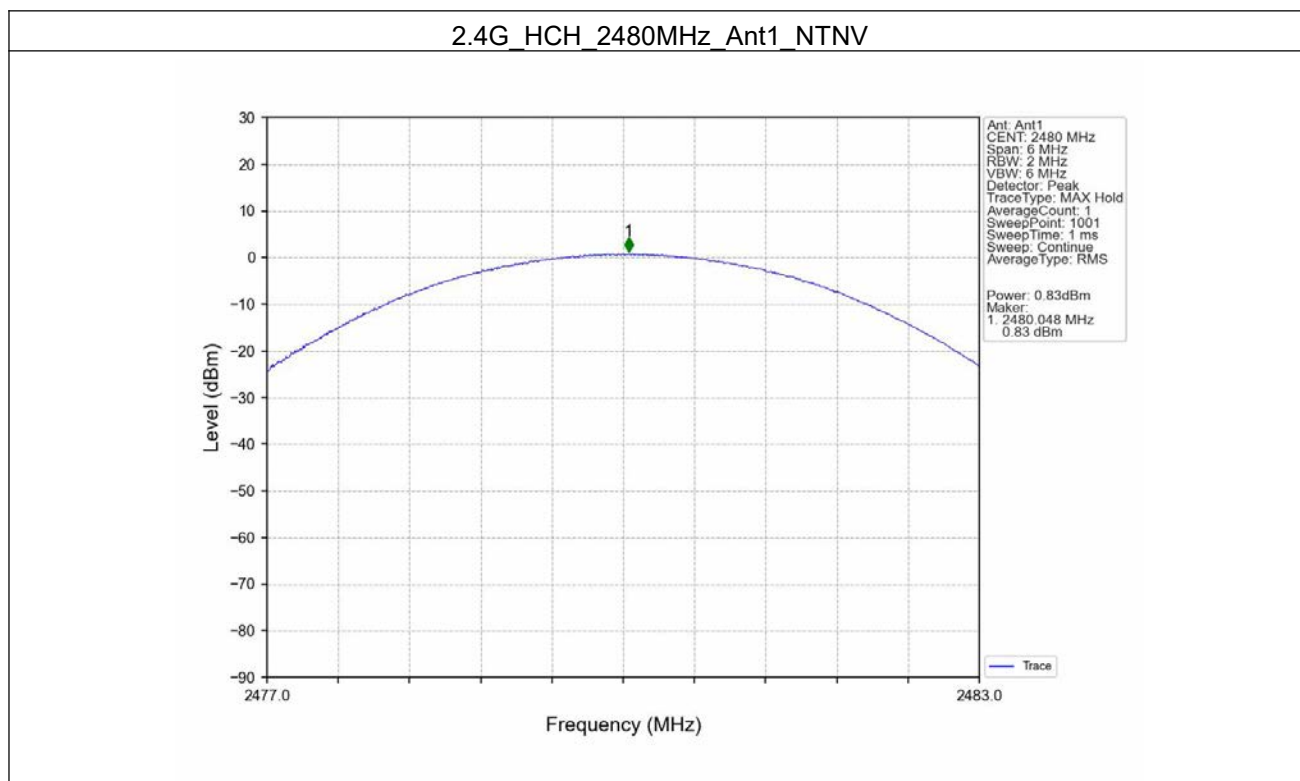
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
2.4G	SISO	2402	0.87	<=30	Pass
		2426	0.37	<=30	Pass
		2480	0.83	<=30	Pass
Note1: Antenna Gain: Ant1: 0.00dBi:					

3.2 Test Graph

3.2.1 Power





4. Maximum Power Spectral Density

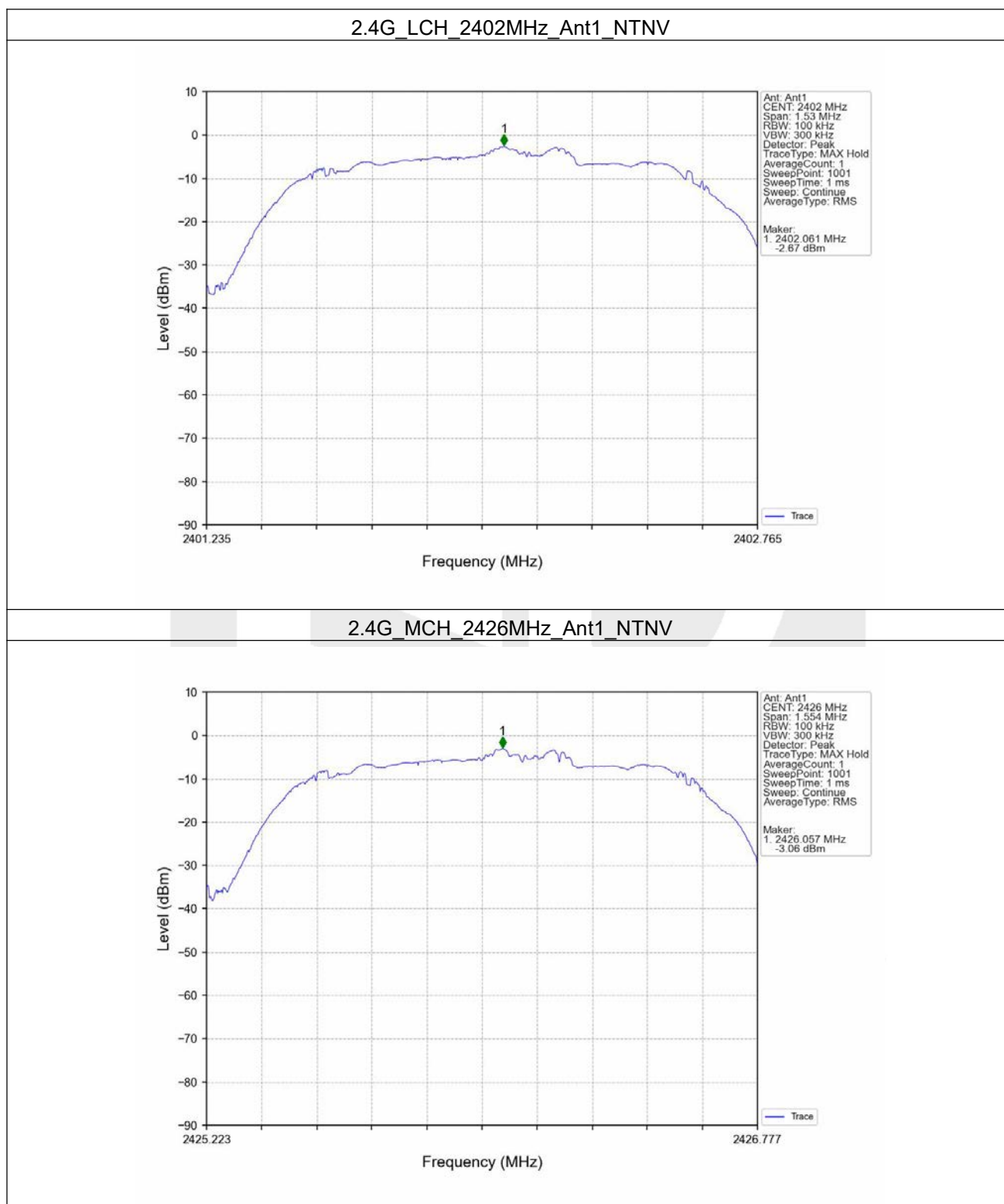
4.1 Test Result

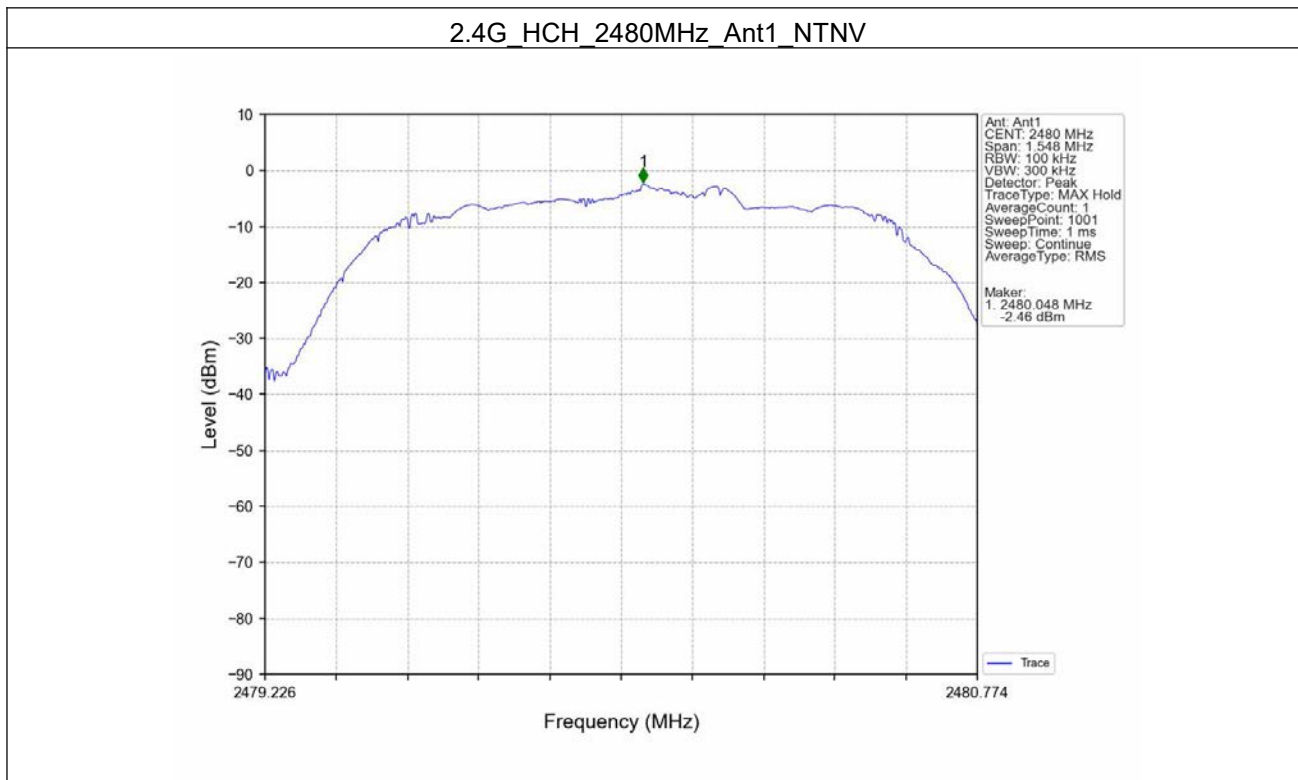
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
2.4G	SISO	2402	-2.67	<=8	Pass
		2426	-3.06	<=8	Pass
		2480	-2.46	<=8	Pass
Note1: Antenna Gain: Ant1: 0.00dBi:					

4.2 Test Graph

4.2.1 PSD





5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

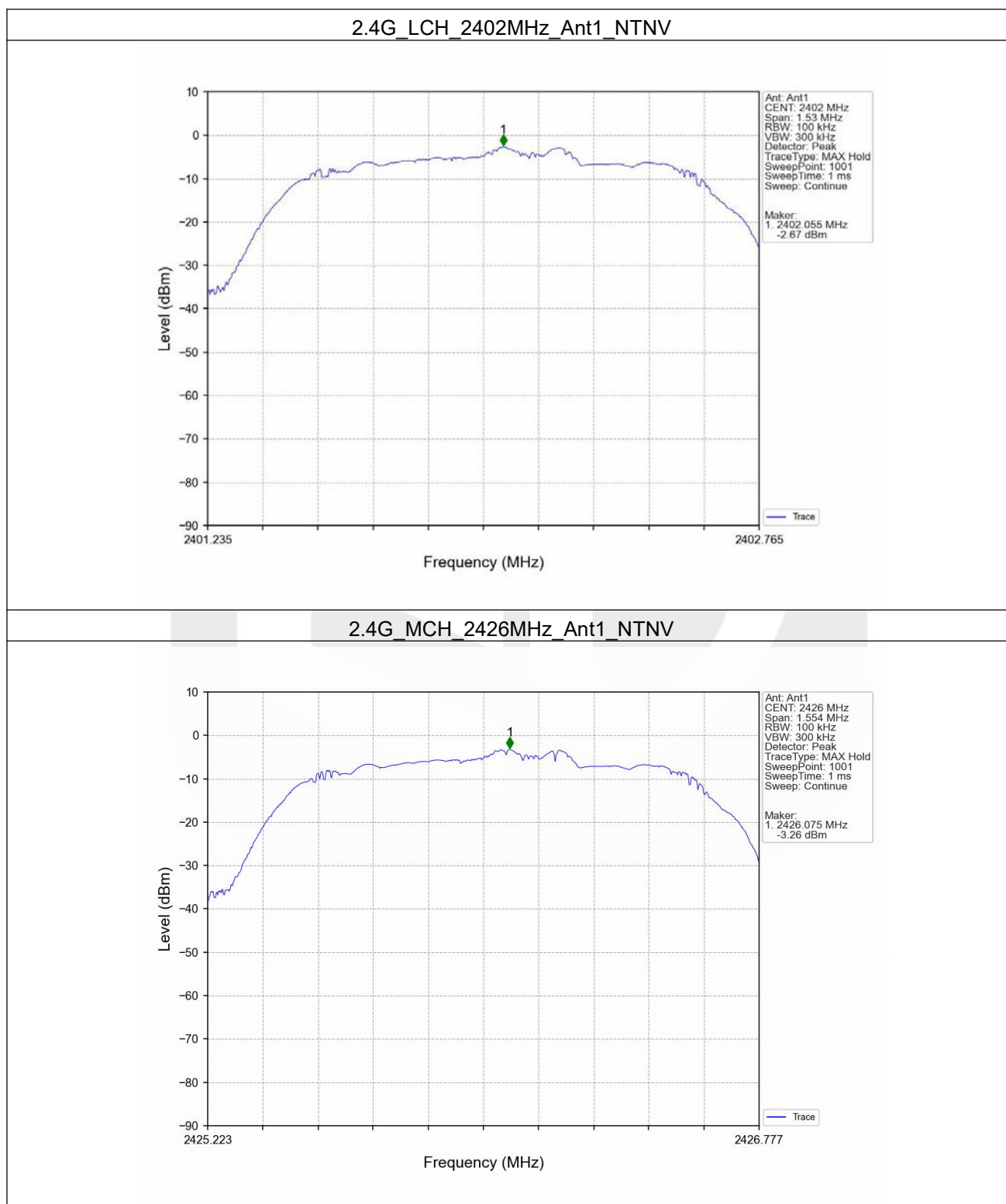
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
2.4G	SISO	2402	1	-2.67
		2426	1	-3.26
		2480	1	-2.63
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.				

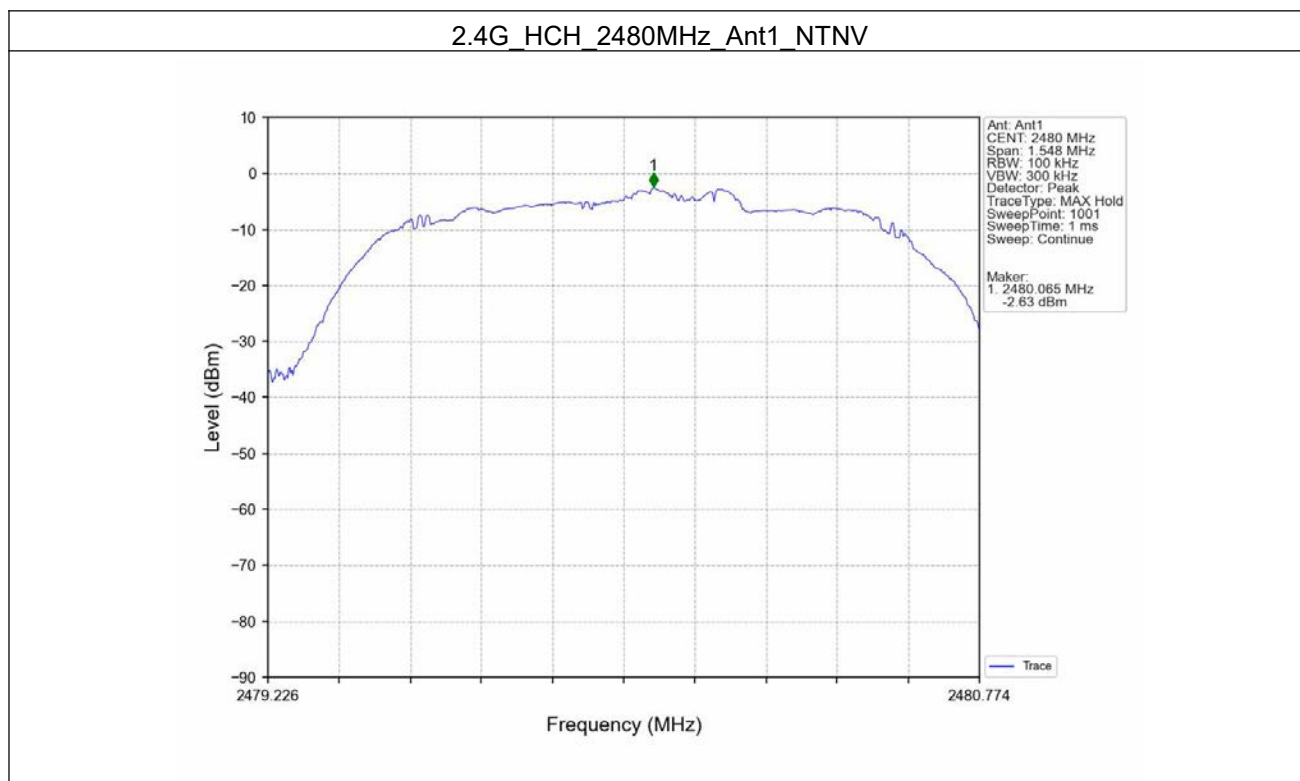
5.1.2 CSE

Mode	Tx Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
2.4G	SISO	2402	1	-2.67	-22.67	Pass
		2426	1	-3.26	-23.26	Pass
		2480	1	-2.63	-22.63	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.						

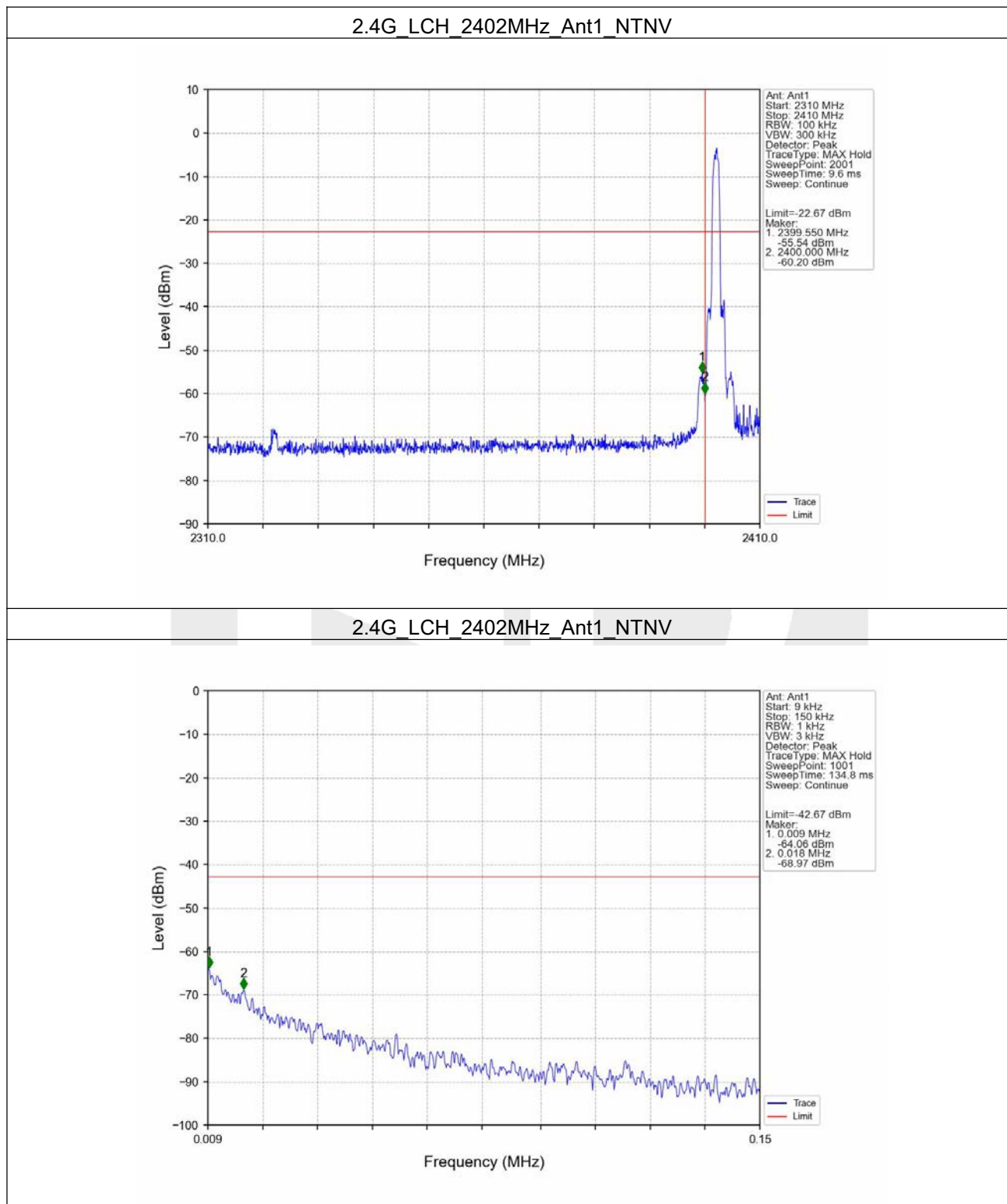
5.2 Test Graph

5.2.1 Ref

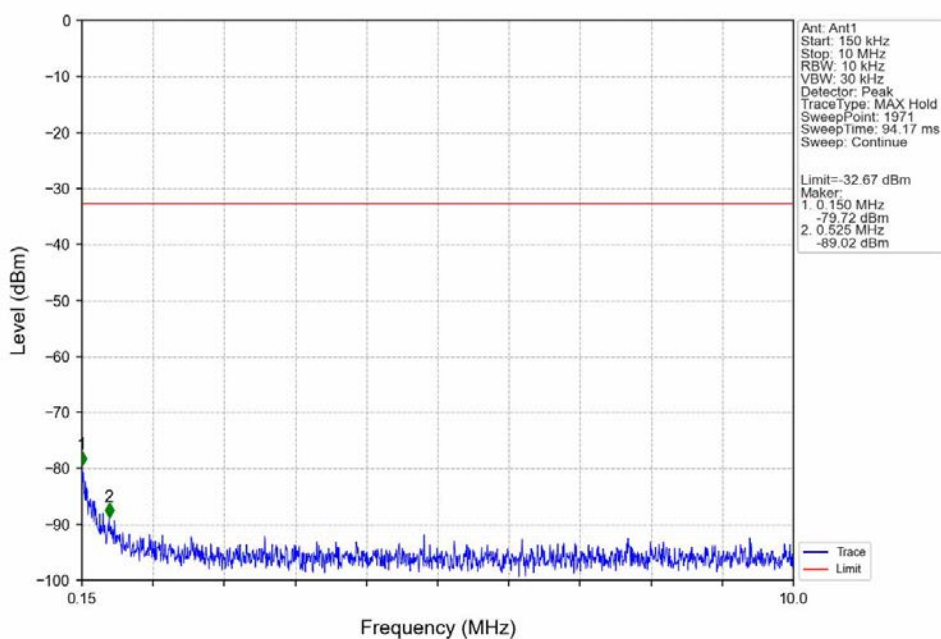




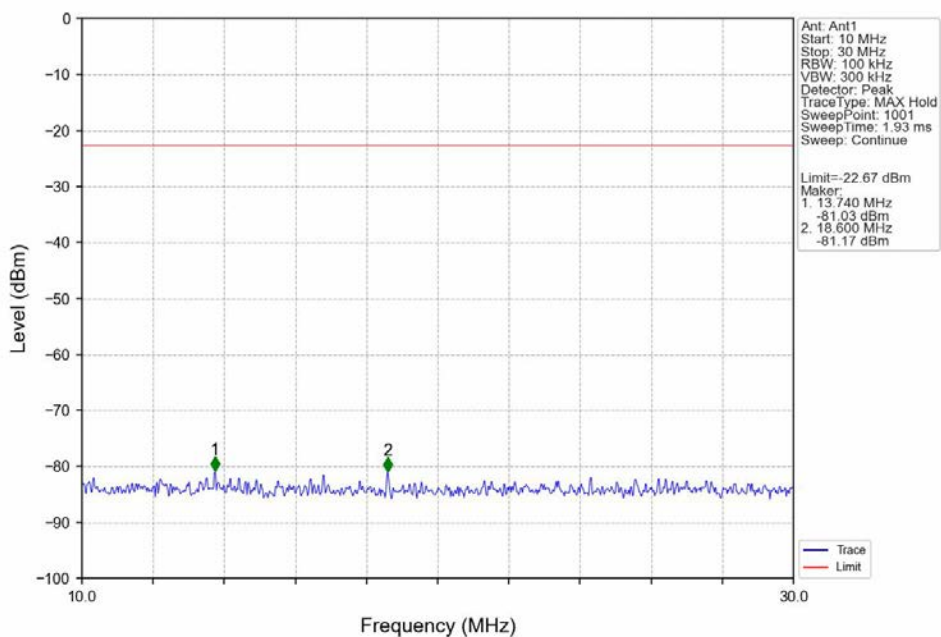
5.2.2 CSE



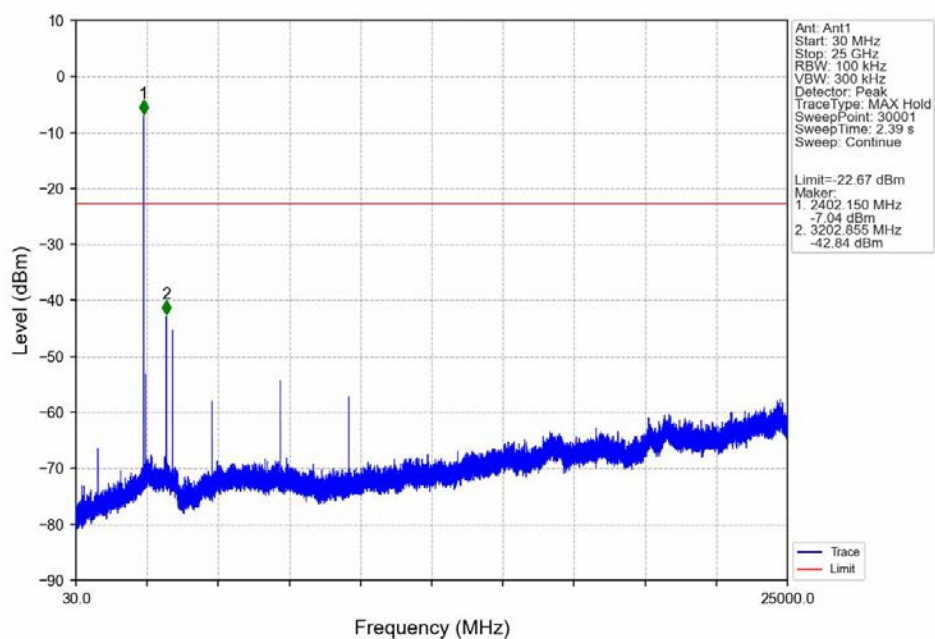
2.4G_LCH_2402MHz_Ant1_NTNV



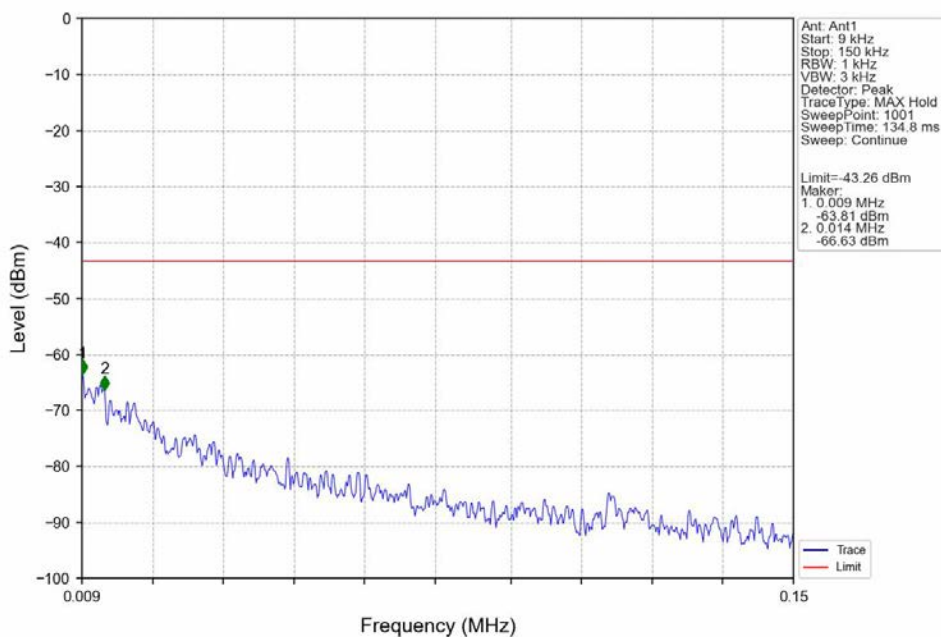
2.4G_LCH_2402MHz_Ant1_NTNV



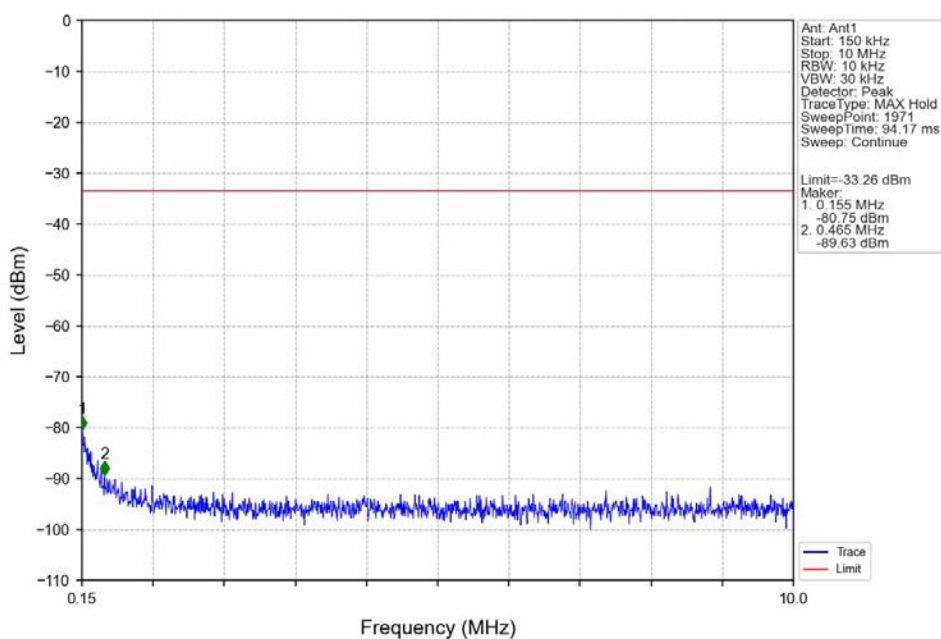
2.4G_LCH_2402MHz_Ant1_NTNV



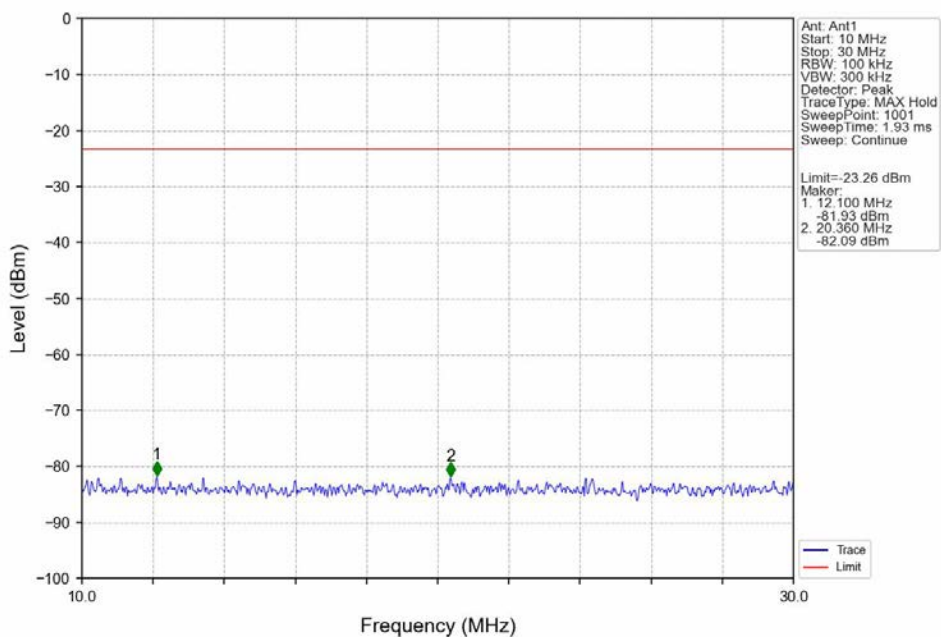
2.4G_MCH_2426MHz_Ant1_NTNV



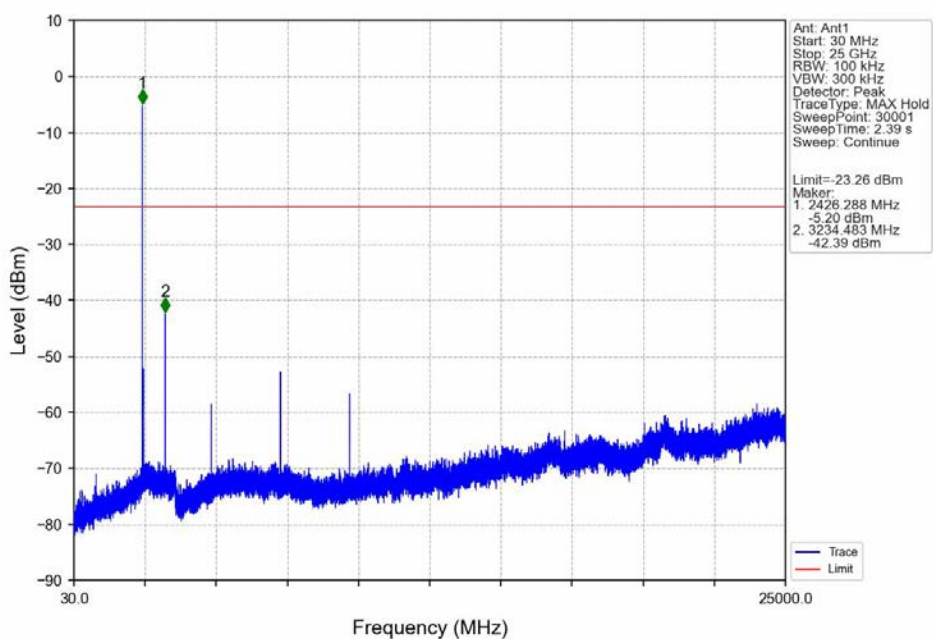
2.4G_MCH_2426MHz_Ant1_NTNV



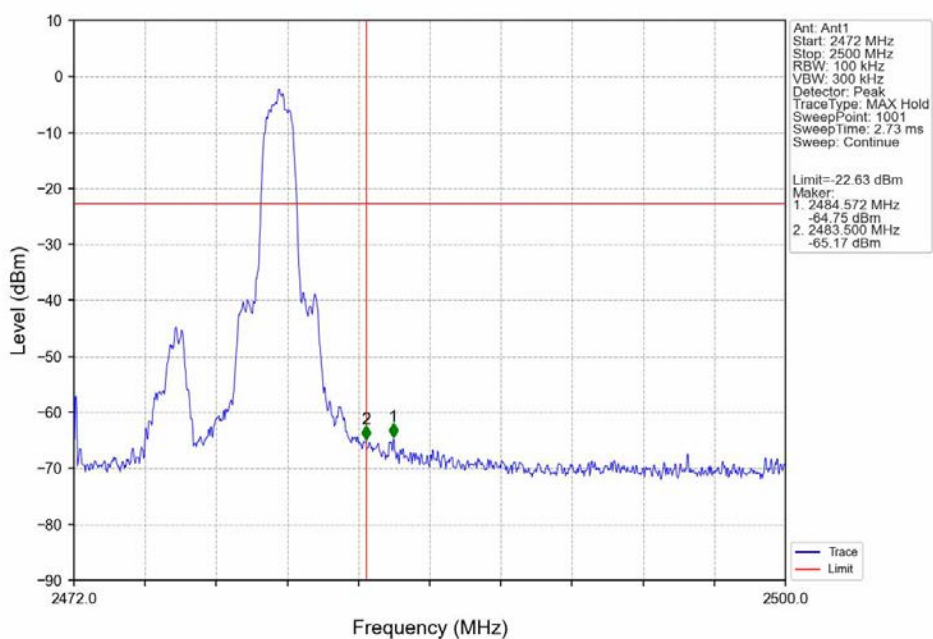
2.4G_MCH_2426MHz_Ant1_NTNV



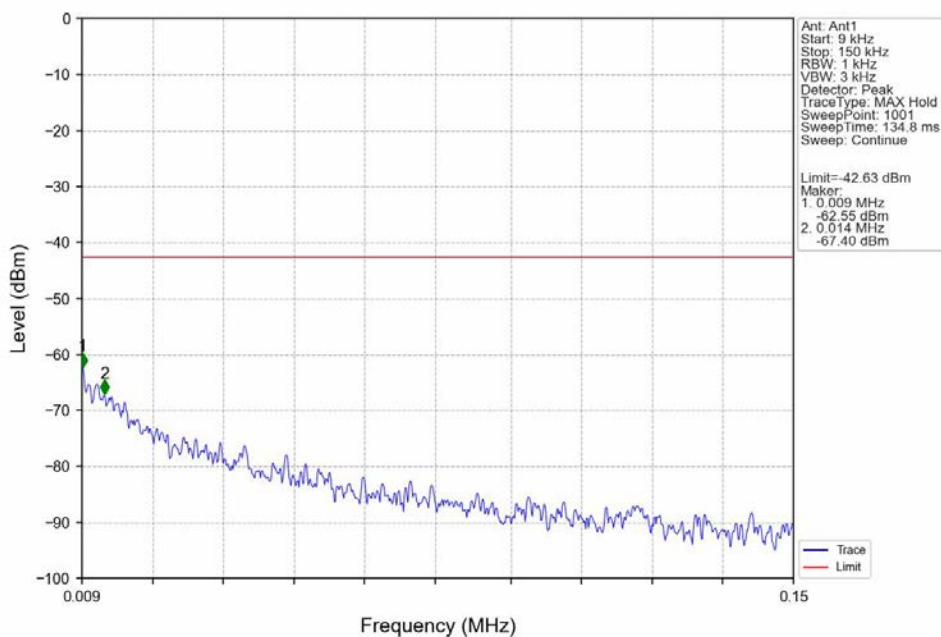
2.4G_MCH_2426MHz_Ant1_NTNV



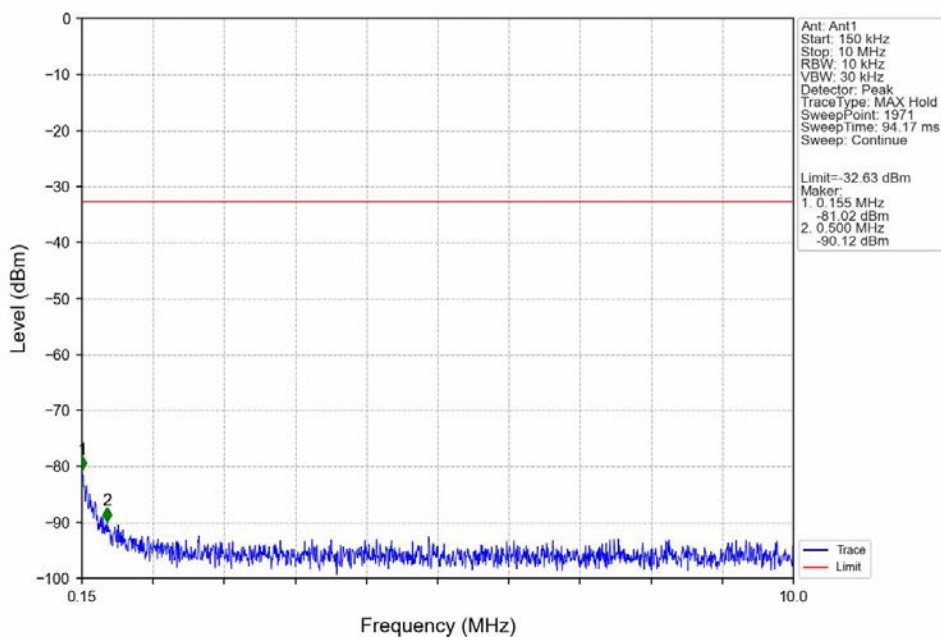
2.4G_HCH_2480MHz_Ant1_NTNV



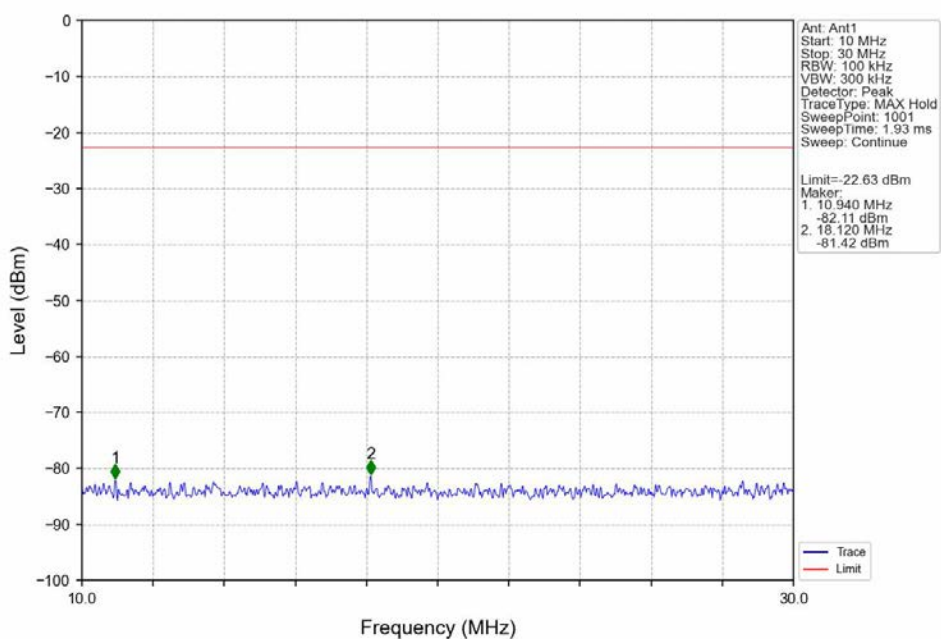
2.4G_HCH_2480MHz_Ant1_NTNV



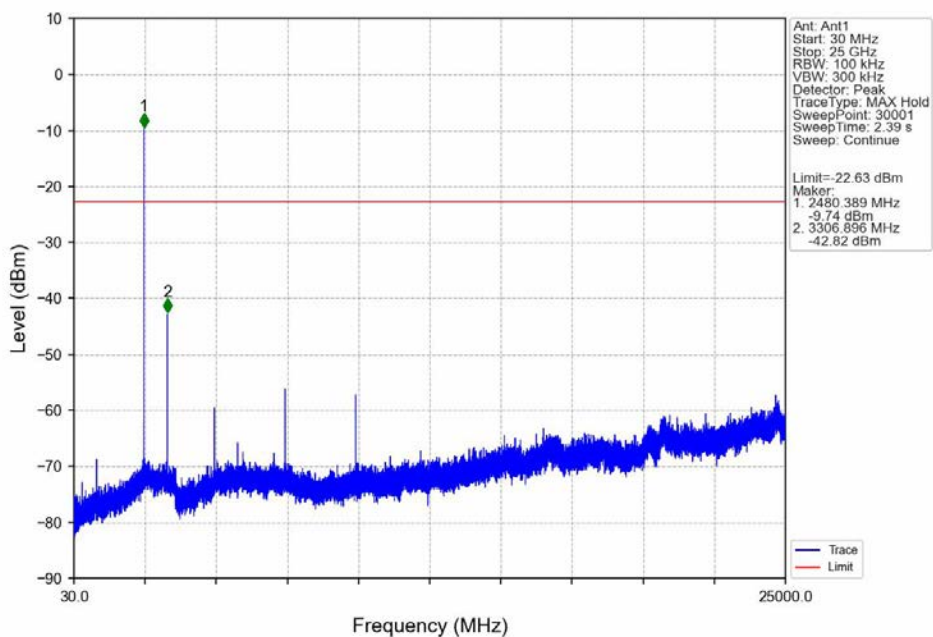
2.4G_HCH_2480MHz_Ant1_NTNV



2.4G_HCH_2480MHz_Ant1_NTNV



2.4G_HCH_2480MHz_Ant1_NTNV



STATEMENT

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--- End of Report ---