

TEST REPORT

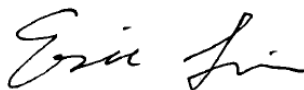
Application No.: KSCR2207001282AT
FCC ID: 2ADTD-UVCX12R01
IC: 20199-UVCX12R01
Applicant: Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Applicant: No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China
Manufacturer: Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Manufacturer: No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China
Factory: 1. Hangzhou Hikvision Technology Co., Ltd.
 2. Hangzhou Hikvision Electronics Co., Ltd.
 3. Chongqing Hikvision technology Co., Ltd.
Address of Factory: 1. No.700, Dongliu Road, Binjiang District, Hangzhou City, Zhejiang, 310052, China
 2. No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou, Zhejiang, 311500, China
 3. No. 118, Haikang Road, Area C, Jinqiao Industrial Park, Dadukou District, Chongqing, 401325, China

Equipment Under Test (EUT):

EUT Name: Remote
Model No.: DS-UVC-X12-R01, Hi-UV12-R01
 ☐ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: HIKVISION, HiLook
Standard(s) : 47 CFR Part 15, Subpart C 15.247
 RSS-247 Issue 2, February 2017
 RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt: 2022-07-22
Date of Test: 2022-08-02 to 2022-08-03
Date of Issue: 2022-08-11

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



Eric Lin
 Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-08-11		Original

Authorized for issue by:			
		Damon Zhou	
		<hr/> Damon_Zhou/Project Engineer	
		Eric Lin	
		<hr/> Eric Lin /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)	Customer Declaration

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
99% Bandwidth		RSS-247 Issue 2, February 2017	ANSI C63.10 Section 6.9.3	RSS-Gen Section 6.7

Declaration of EUT Family Grouping:

Note1: There are series models mentioned in this report, and they are the identical in electrical and electronic characters. Only the model DS-UVC-X12-R01 was tested since their differences were the model number and trade mark.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3V by CR2032 Battery
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Data rate:	1Mbps,2Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi (Provided by manufacturer)
S/N	K13986475
Firmware version:	V5100

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

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

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



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

4.5 Test Facility

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

- **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC (Designation Number: CN1172)**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

- **ISED (CAB identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

- **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	10/11/2021	10/10/2022
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	09/17/2021	09/16/2022
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/22/2022	01/21/2023
4	Signal Generator	R&S	SMW200A	KSEM020-1	10/12/2021	10/11/2022
5	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/27/2021	08/26/2022
6	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	09/23/2021	09/22/2022
7	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	04/01/2022	03/31/2023
8	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	10/12/2021	10/11/2022
9	Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
10	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
11	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/16/2022	01/15/2023
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/01/2021	03/31/2023
15	Software	BST	TST-PASS	/	N/A	N/A
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	10/11/2021	10/10/2022
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	10/18/2021	10/17/2022
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	10/26/2020	10/25/2022
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/22/2022	03/21/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/14/2021	11/13/2022
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023
14	Software	Faratronic	EZ_EMV-v 3A1	/	N/A	N/A



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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 PCB antenna and no consideration of replacement. The best case gain of the antenna is 0dBi.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
 Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

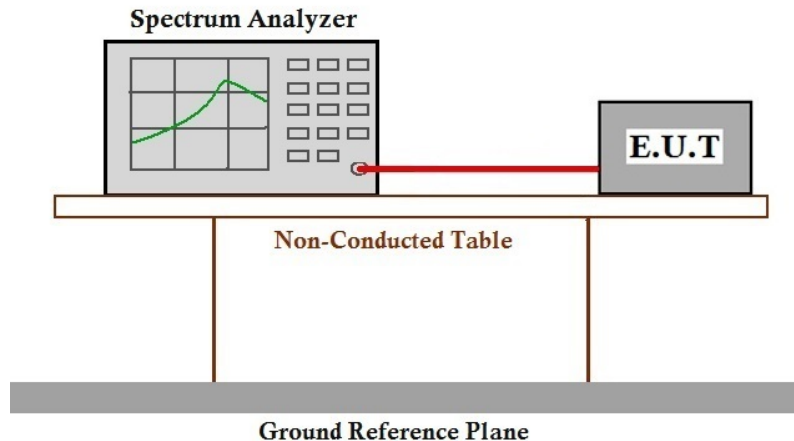
Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 27.1 °C Humidity: 51.6 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Setup Diagram



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7.1.3 Measurement Procedure and Data

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

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7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
 Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:
 ≥500 kHz

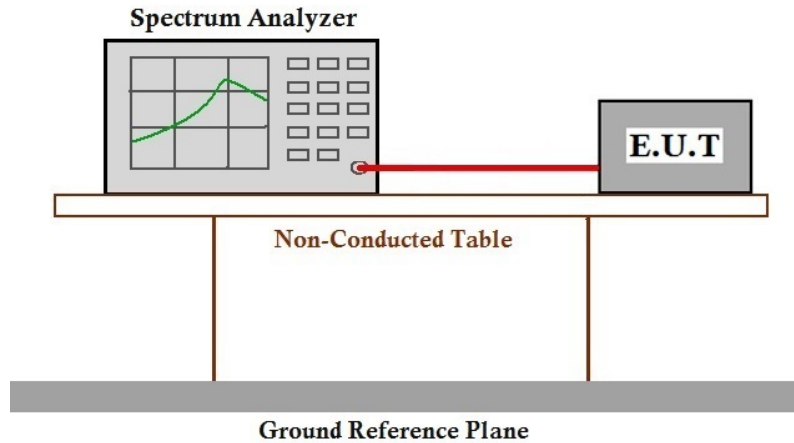
7.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 27.1 °C Humidity: 51.5 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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7.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
 Test Method: ANSI C63.10 (2013) Section 11.10.2

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

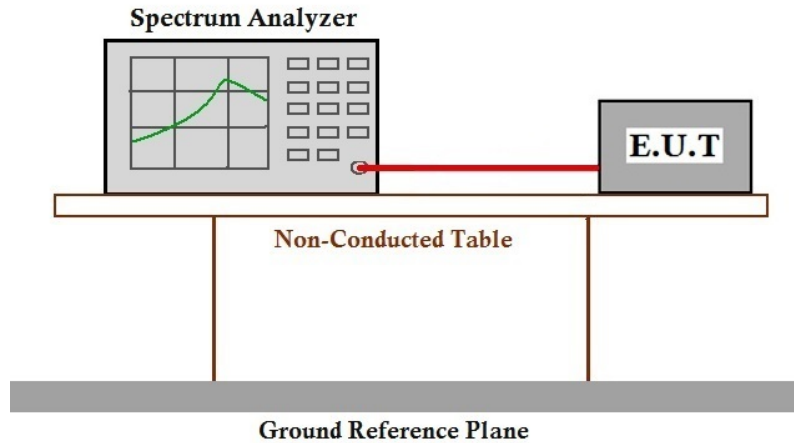
7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 27.1 °C Humidity: 51.6 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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7.4 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
 Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

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

7.4.1 E.U.T. Operation

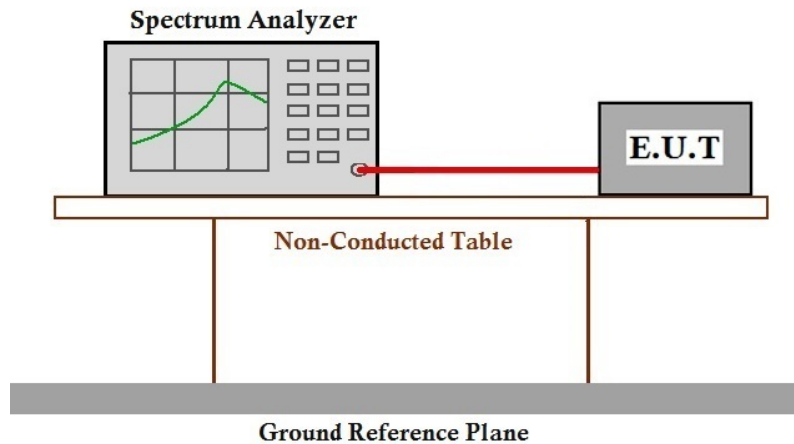
Operating Environment:

Temperature: 27.1 °C Humidity: 51.6 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

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7.5 Conducted Spurious Emissions

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

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

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

7.5.1 E.U.T. Operation

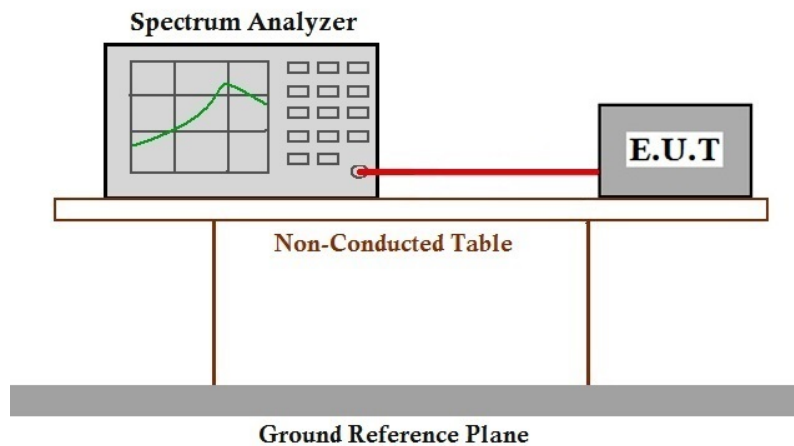
Operating Environment:

Temperature: 27.1 °C Humidity: 51.6 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.5.3 Test Setup Diagram



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7.5.4 Measurement Procedure and Data

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7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2013) Section 6.10.5

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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 53.3 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

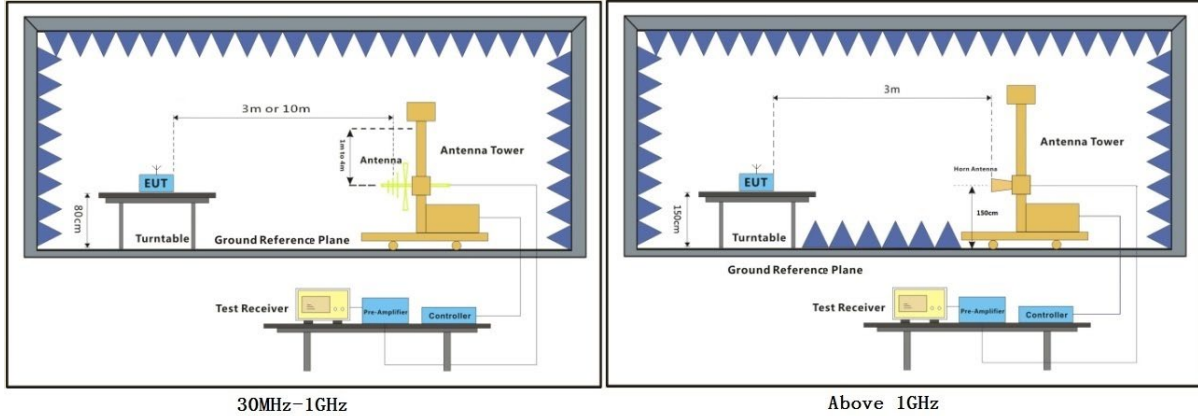
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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7.6.3 Test Setup Diagram



30MHz-1GHz

Above 1GHz



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7.6.4 Measurement Procedure and Data

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

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

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

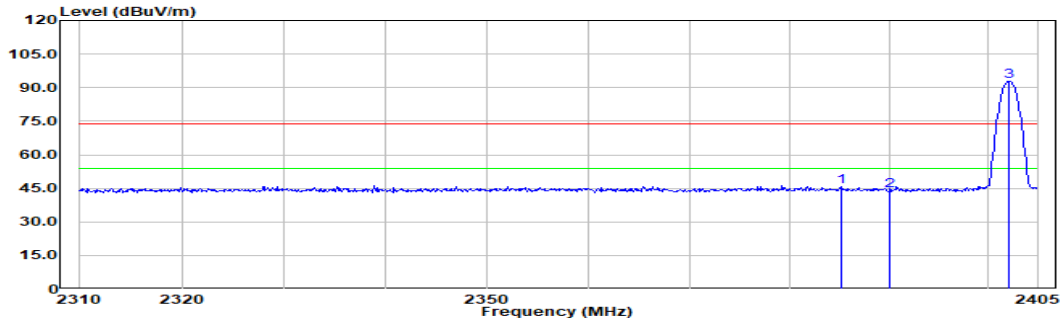


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Bandwidth:1MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2385.145	5.69	26.72	56.28	45.77	74.00	-28.23	Peak
2	2390.000	5.69	26.73	54.54	44.04	74.00	-29.96	Peak
3	2402.055	5.71	26.75	103.26	92.79	74.00	18.79	Peak



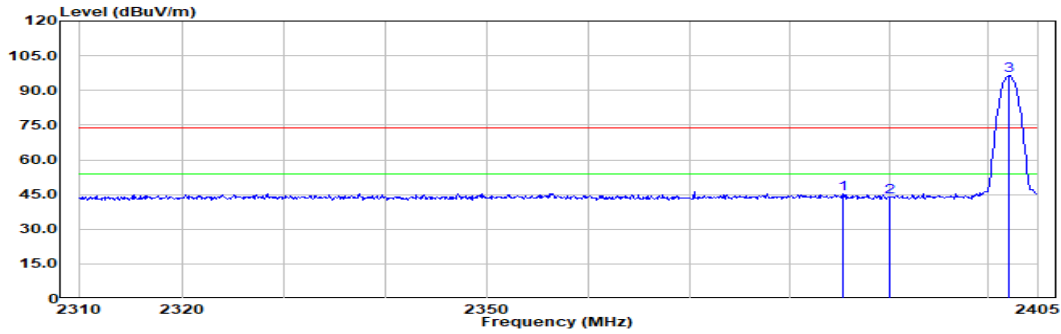
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Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2385.430	5.69	26.72	55.59	45.08	74.00	-28.92	Peak
2	2390.000	5.69	26.73	54.21	43.71	74.00	-30.29	Peak
3	2402.055	5.71	26.75	106.73	96.26	74.00	22.26	Peak



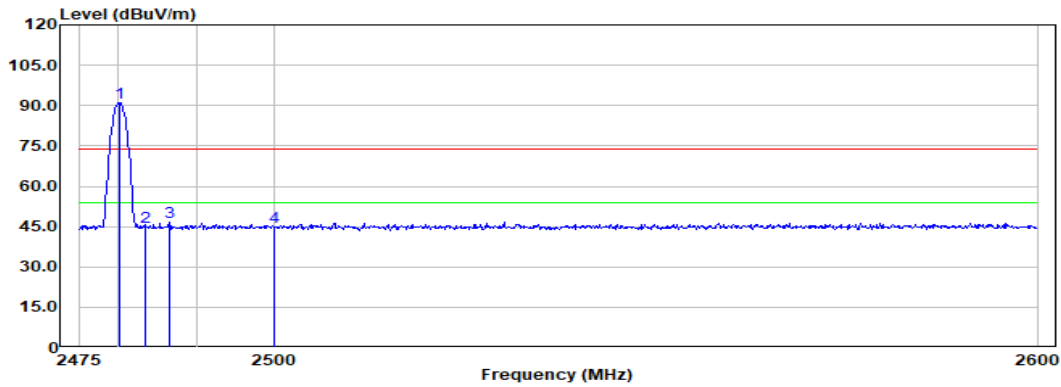
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Bandwidth:1MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2480.125	5.82	27.03	101.06	90.97	74.00	16.97	Peak
2	2483.500	5.83	27.04	54.72	44.65	74.00	-29.35	Peak
3	2486.500	5.83	27.05	56.84	46.78	74.00	-27.22	Peak
4	2500.000	5.85	27.10	54.82	44.83	74.00	-29.17	Peak



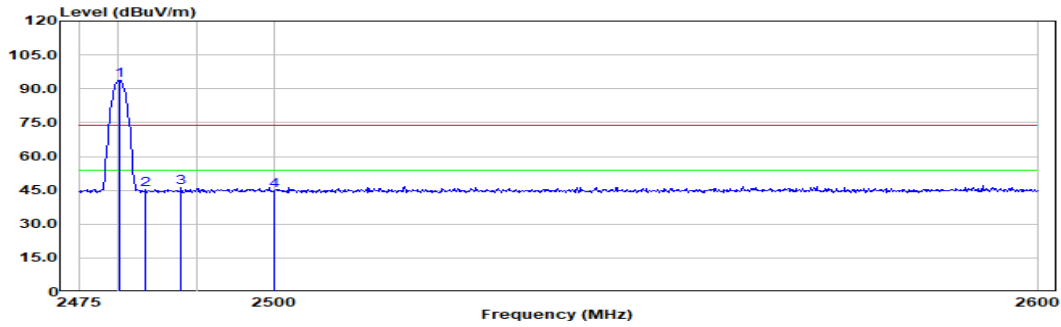
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Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2480.125	5.82	27.03	103.75	93.66	74.00	19.66	Peak
2	2483.500	5.83	27.04	55.28	45.21	74.00	-28.79	Peak
3	2488.000	5.83	27.06	56.04	45.99	74.00	-28.01	Peak
4	2500.000	5.85	27.10	54.90	44.91	74.00	-29.09	Peak

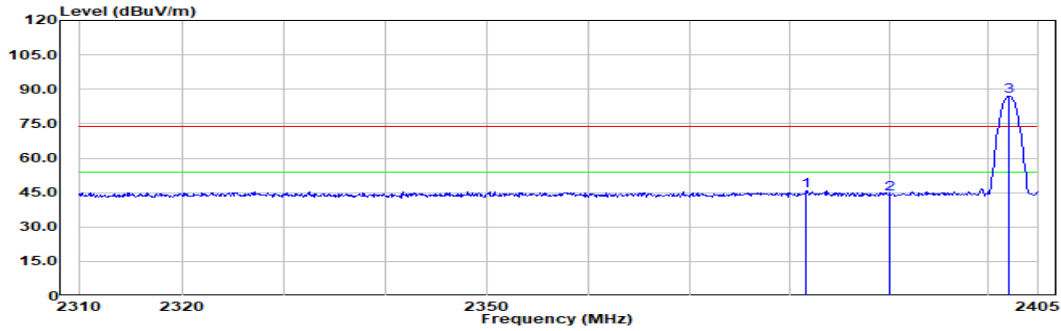


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Bandwidth:2MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2381.725	5.68	26.72	56.28	45.76	74.00	-28.24	Peak
2	2390.000	5.69	26.73	54.71	44.21	74.00	-29.79	Peak
3	2402.055	5.71	26.75	97.49	87.02	74.00	13.02	Peak



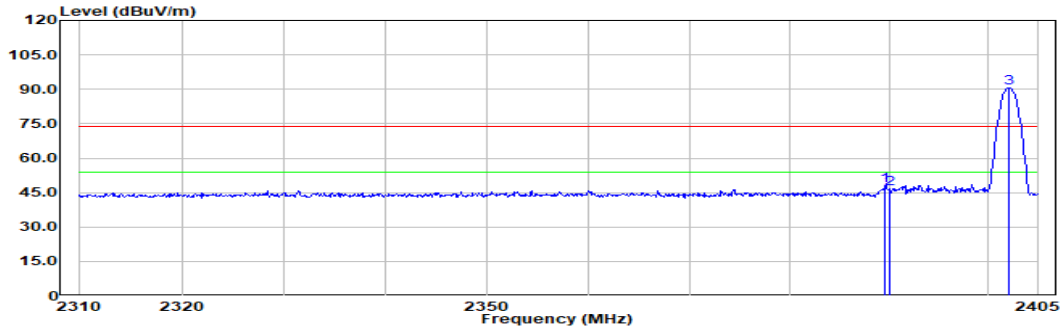
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Bandwidth:2MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2389.610	5.69	26.73	58.67	48.17	74.00	-25.83	Peak
2	2390.000	5.69	26.73	57.08	46.58	74.00	-27.42	Peak
3	2402.055	5.71	26.75	101.21	90.74	74.00	16.74	Peak

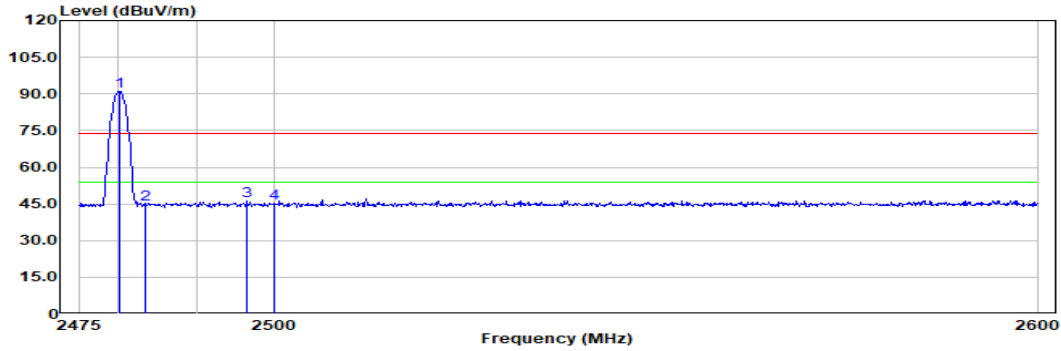


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Bandwidth:2MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2480.125	5.82	27.03	101.04	90.95	74.00	16.95	Peak
2	2483.500	5.83	27.04	54.88	44.81	74.00	-29.19	Peak
3	2496.375	5.84	27.09	56.19	46.18	74.00	-27.82	Peak
4	2500.000	5.85	27.10	55.09	45.10	74.00	-28.90	Peak



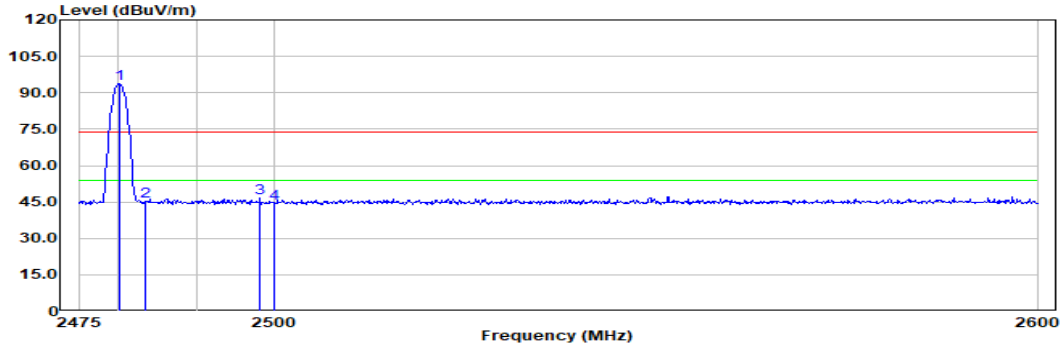
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Bandwidth:2MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2480.125	5.82	27.03	103.68	93.59	74.00	19.59	Peak
2	2483.500	5.83	27.04	55.56	45.49	74.00	-28.51	Peak
3	2498.125	5.85	27.09	56.86	46.86	74.00	-27.14	Peak
4	2500.000	5.85	27.10	54.37	44.38	74.00	-29.62	Peak



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7.7 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 57.3 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

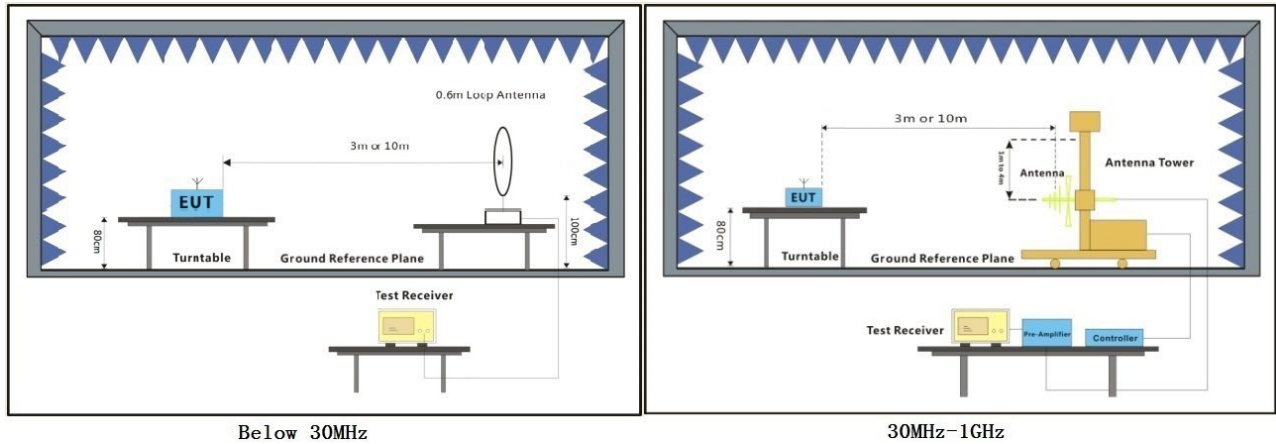


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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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

Remark:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

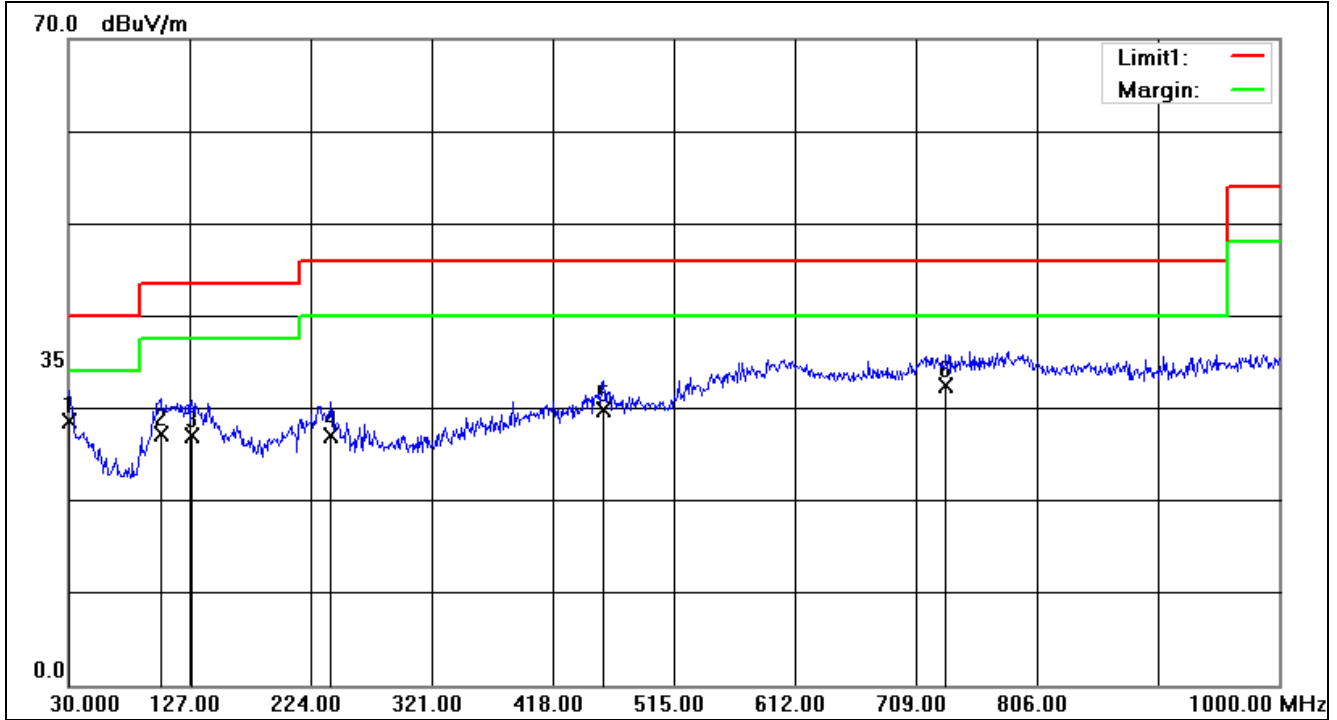


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 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Bandwidth:1MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Height (cm)	Degree (deg.)	Margin (dB)	Remark
1	30.9700	3.24	25.38	28.62	40.00	100	155	-11.38	QP
2	103.7200	8.51	18.63	27.14	43.50	200	250	-16.36	QP
3	128.9400	7.60	19.45	27.05	43.50	200	185	-16.45	QP
4	240.4900	8.28	18.74	27.02	46.00	200	37	-18.98	QP
5	458.7400	5.37	24.47	29.84	46.00	100	169	-16.16	QP
6	733.2500	5.05	27.49	32.54	46.00	300	142	-13.46	QP

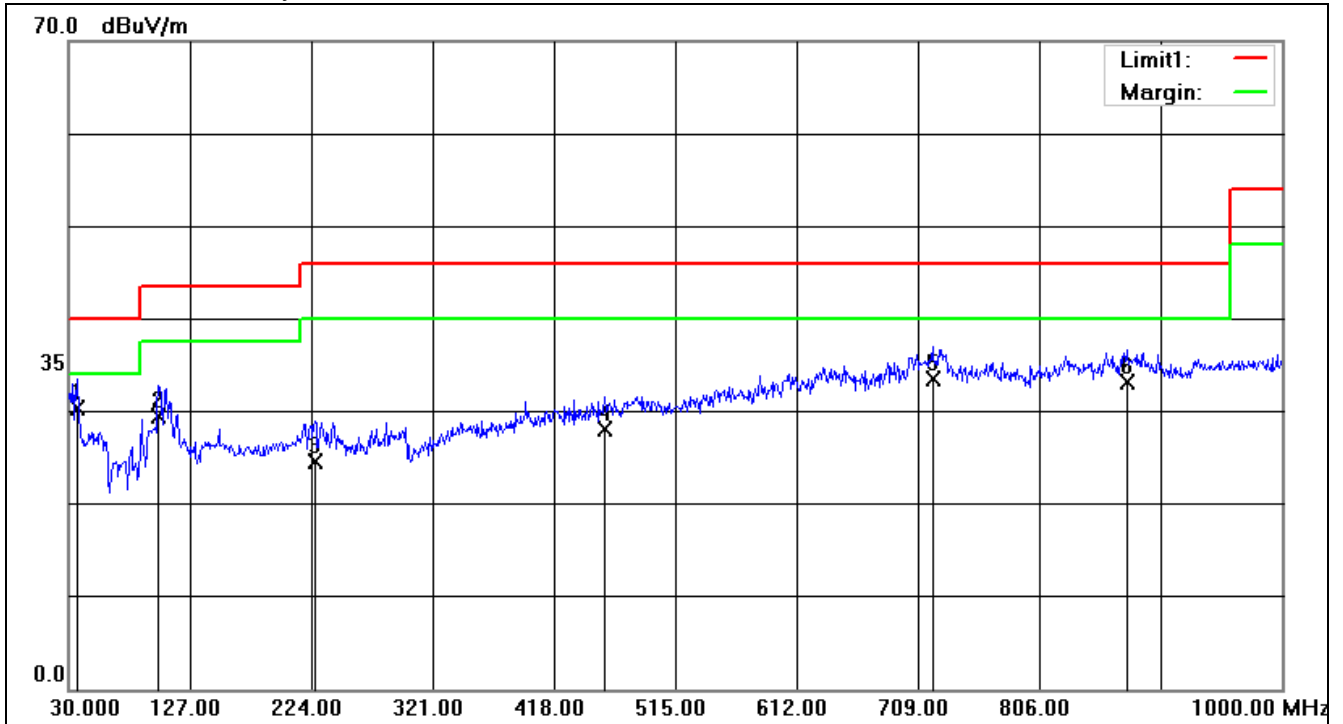


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 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Bandwidth:1MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Height (cm)	Degree (deg.)	Margin (dB)	Remark
1	36.7900	8.34	22.06	30.40	40.00	300	63	-9.60	QP
2	101.7800	10.90	18.57	29.47	43.50	200	107	-14.03	QP
3	226.9100	6.69	17.90	24.59	46.00	200	360	-21.41	QP
4	458.7400	3.59	24.47	28.06	46.00	100	85	-17.94	QP
5	720.6400	6.05	27.49	33.54	46.00	100	251	-12.46	QP
6	875.8400	4.74	28.38	33.12	46.00	100	147	-12.88	QP



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7.8 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 20.8 °C

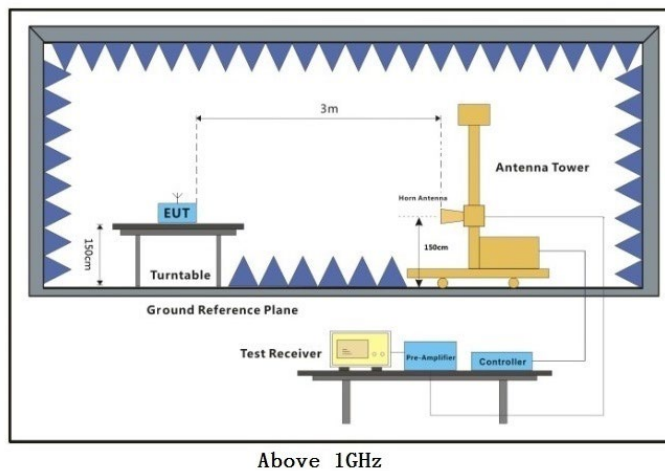
Humidity: 52.6 % RH

Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.8.3 Test Setup Diagram



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7.8.4 Measurement Procedure and Data

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

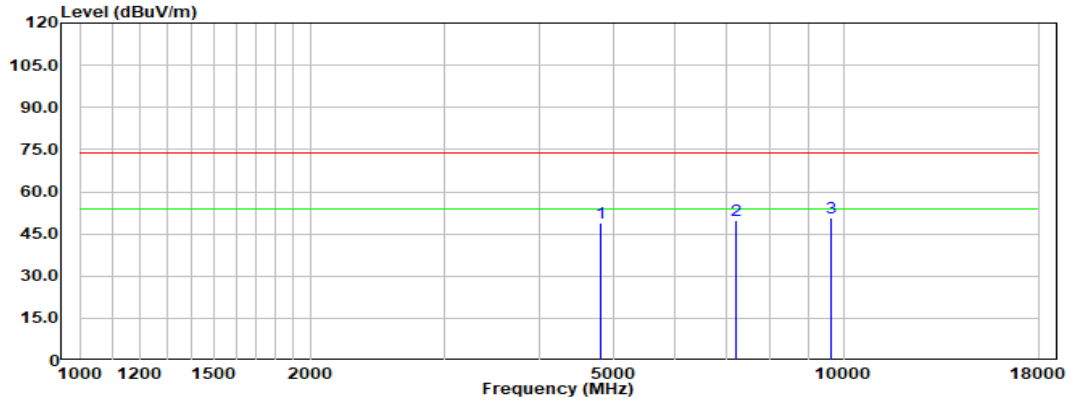


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Bandwidth:1MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4804.000	8.12	34.18	48.79	48.72	74.00	-25.28	Peak
2	7206.000	10.34	35.44	46.74	49.87	74.00	-24.13	Peak
3	9608.000	12.29	36.92	43.50	50.72	74.00	-23.28	Peak



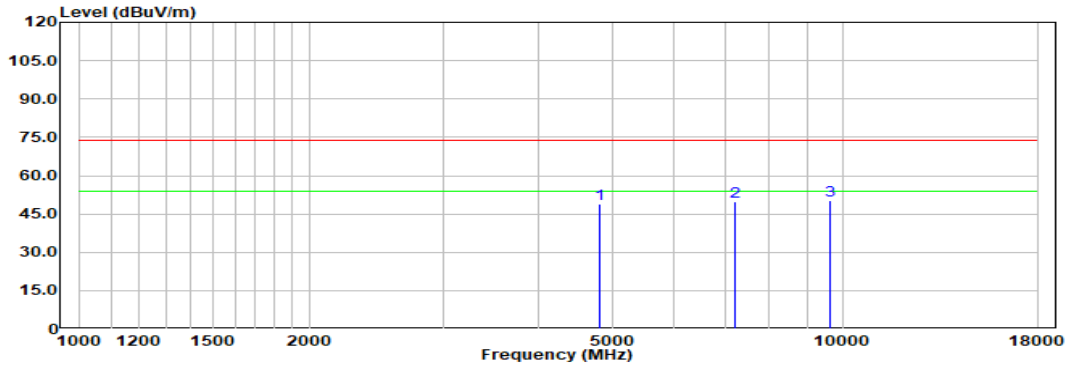
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Bandwidth:1MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4804.000	8.12	34.18	49.07	49.00	74.00	-25.00	Peak
2	7206.000	10.34	35.44	46.64	49.77	74.00	-24.23	Peak
3	9608.000	12.29	36.92	42.82	50.04	74.00	-23.96	Peak

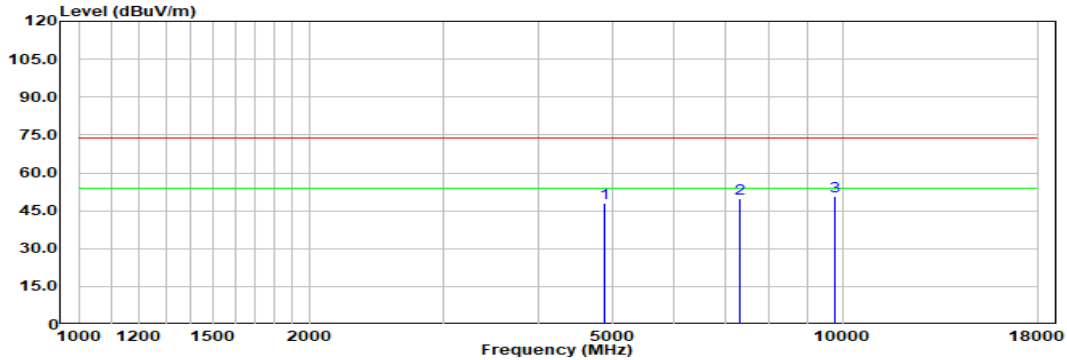


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Bandwidth:1MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4880.000	8.17	34.18	47.67	48.14	74.00	-25.86	Peak
2	7320.000	10.45	35.47	46.35	49.78	74.00	-24.22	Peak
3	9760.000	12.41	37.05	43.82	50.71	74.00	-23.29	Peak



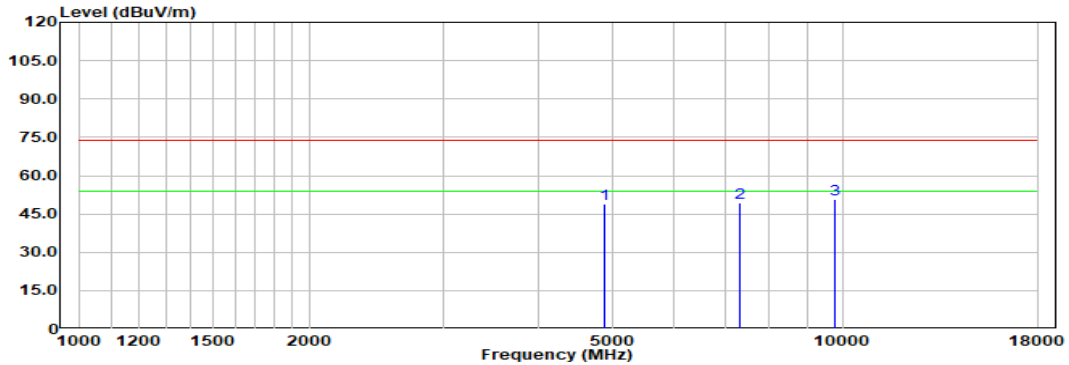
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Bandwidth:1MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4880.000	8.17	34.18	48.45	48.92	74.00	-25.08	Peak
2	7320.000	10.45	35.47	45.94	49.37	74.00	-24.63	Peak
3	9760.000	12.41	37.05	43.68	50.57	74.00	-23.43	Peak



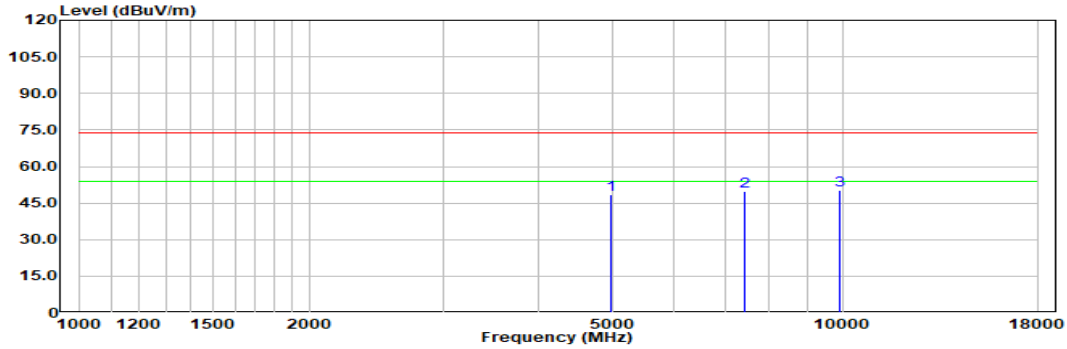
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Bandwidth:1MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4960.000	8.21	34.17	47.86	48.65	74.00	-25.35	Peak
2	7440.000	10.56	35.52	46.10	49.71	74.00	-24.29	Peak
3	9920.000	12.50	37.18	42.72	50.13	74.00	-23.87	Peak



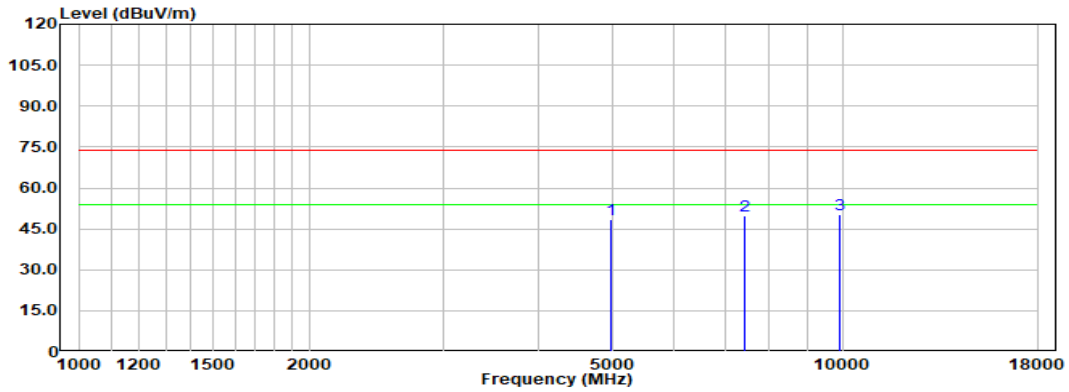
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Bandwidth:1MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4960.000	8.21	34.17	47.58	48.37	74.00	-25.63	Peak
2	7440.000	10.56	35.52	46.30	49.91	74.00	-24.09	Peak
3	9920.000	12.50	37.18	42.74	50.15	74.00	-23.85	Peak



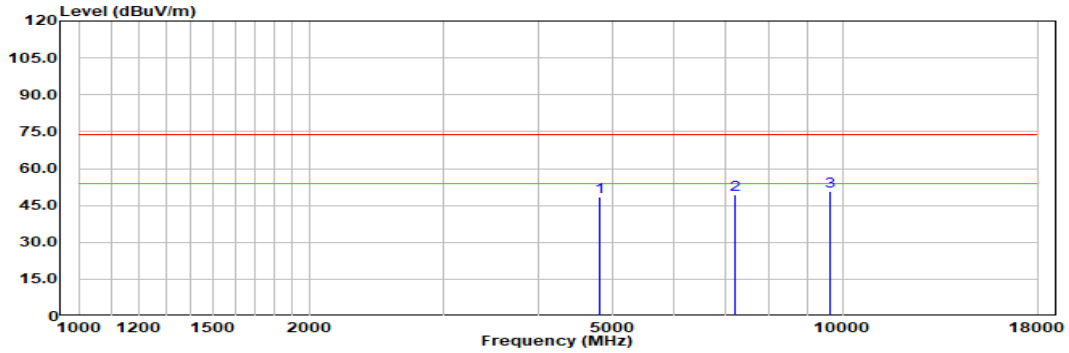
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Bandwidth:2MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4804.000	8.12	34.18	48.44	48.37	74.00	-25.63	Peak
2	7206.000	10.34	35.44	46.33	49.46	74.00	-24.54	Peak
3	9608.000	12.29	36.92	43.63	50.85	74.00	-23.15	Peak



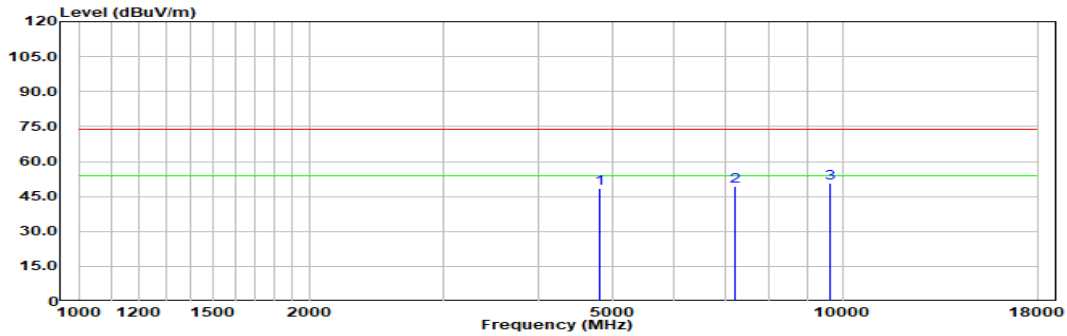
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Bandwidth:2MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4804.000	8.12	34.18	48.54	48.47	74.00	-25.53	Peak
2	7206.000	10.34	35.44	46.03	49.16	74.00	-24.84	Peak
3	9608.000	12.29	36.92	43.48	50.70	74.00	-23.30	Peak



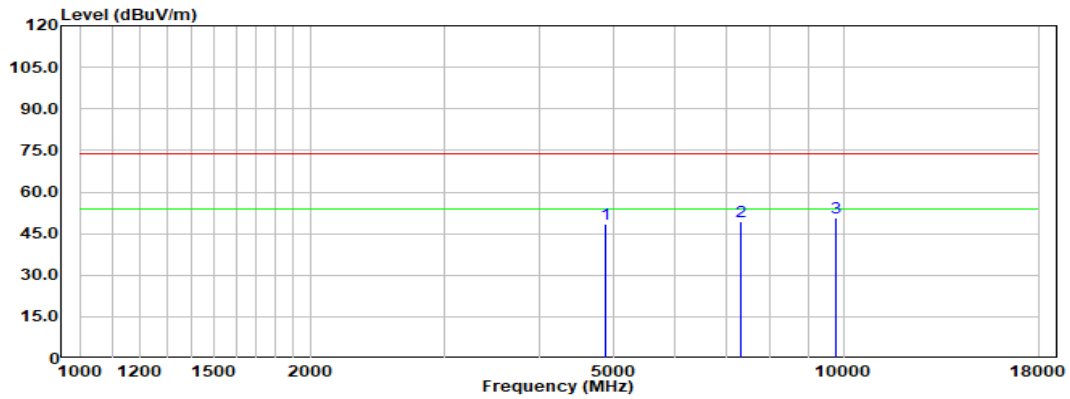
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Bandwidth:2MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4880.000	8.17	34.18	48.03	48.50	74.00	-25.50	Peak
2	7320.000	10.45	35.47	46.04	49.47	74.00	-24.53	Peak
3	9760.000	12.41	37.05	43.80	50.69	74.00	-23.31	Peak



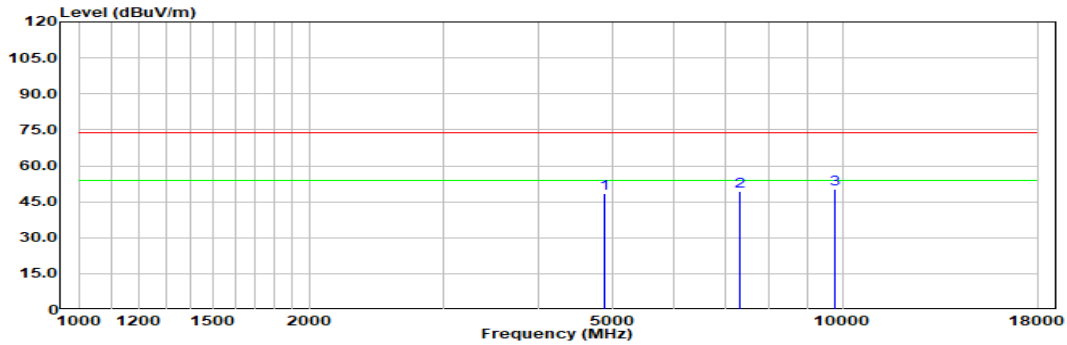
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Bandwidth:2MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4880.000	8.17	34.18	47.87	48.34	74.00	-25.66	Peak
2	7320.000	10.45	35.47	45.90	49.33	74.00	-24.67	Peak
3	9760.000	12.41	37.05	43.58	50.47	74.00	-23.53	Peak



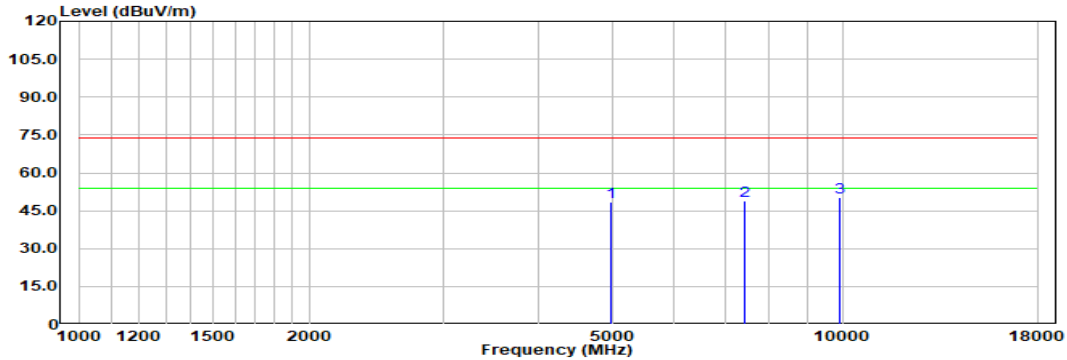
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Bandwidth:2MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4960.000	8.21	34.17	47.79	48.58	74.00	-25.42	Peak
2	7440.000	10.56	35.52	45.51	49.12	74.00	-24.88	Peak
3	9920.000	12.50	37.18	42.87	50.28	74.00	-23.72	Peak



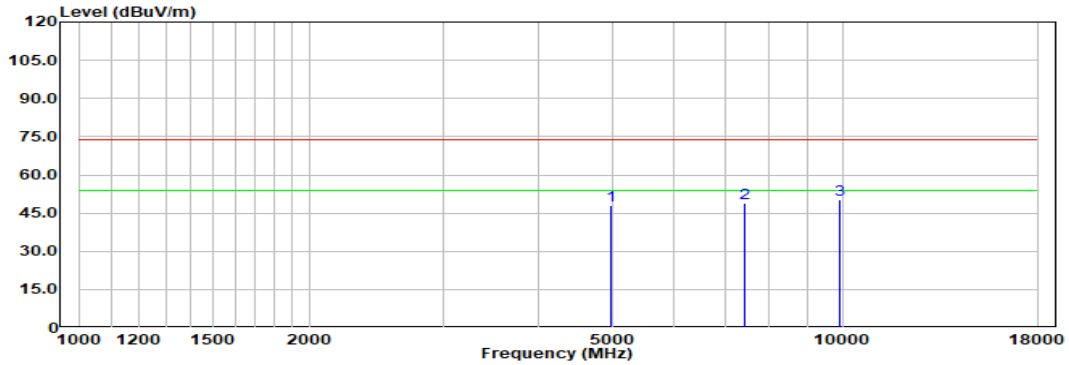
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Bandwidth:2MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4960.000	8.21	34.17	47.38	48.17	74.00	-25.83	Peak
2	7440.000	10.56	35.52	45.52	49.13	74.00	-24.87	Peak
3	9920.000	12.50	37.18	43.08	50.49	74.00	-23.51	Peak



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7.9 99% Bandwidth

Test Requirement RSS-Gen Section 6.7
 Test Method: ANSI C63.10 Section 6.9.3

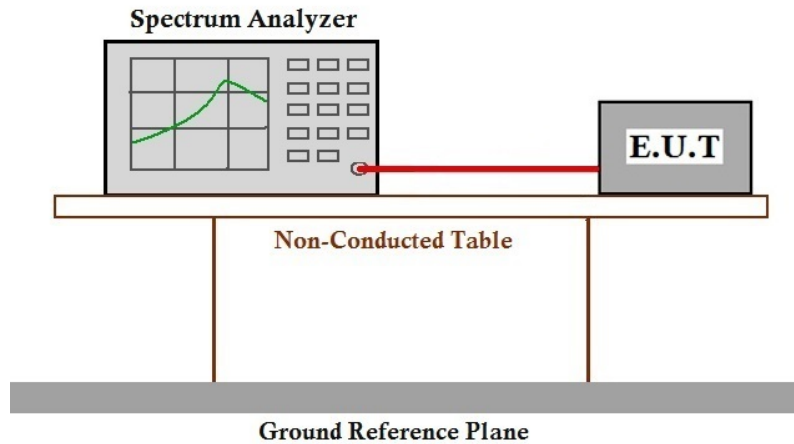
7.9.1 E.U.T. Operation

Operating Environment:
 Temperature: 26.9 °C Humidity: 49.0 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix A for KSCR220700128201



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2207001282AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2207001282AT



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10 Appendix

Appendix A for KSCR220700128201

Channel	BLE 1M	BLE 2M
	Ant 1	Ant 1
0	5.6	5.6
19	5.6	5.6
39	5.6	5.6

1. Duty Cycle

1.1 Ant1

1.1.1 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	0.420	2.789	15.06	8.22	0.06
		2440	0.419	2.788	15.03	8.23	0.09
		2480	0.419	2.788	15.03	8.23	0.08
2M	SISO	2402	0.210	2.578	8.15	10.89	0.06
		2440	0.211	2.580	8.18	10.87	0.03
		2480	0.210	2.579	8.14	10.89	0.06



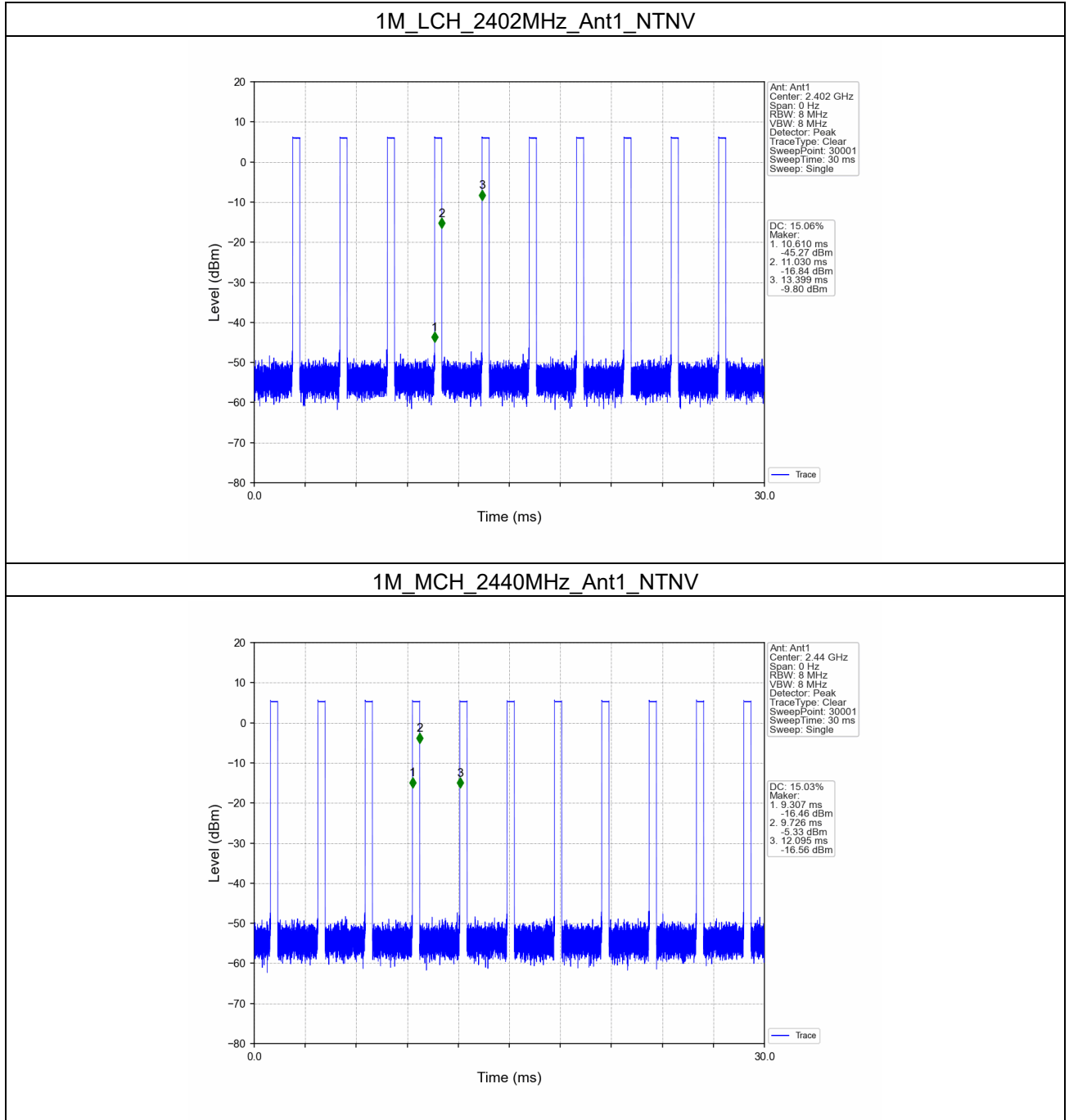
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1.1.2 Test Graph

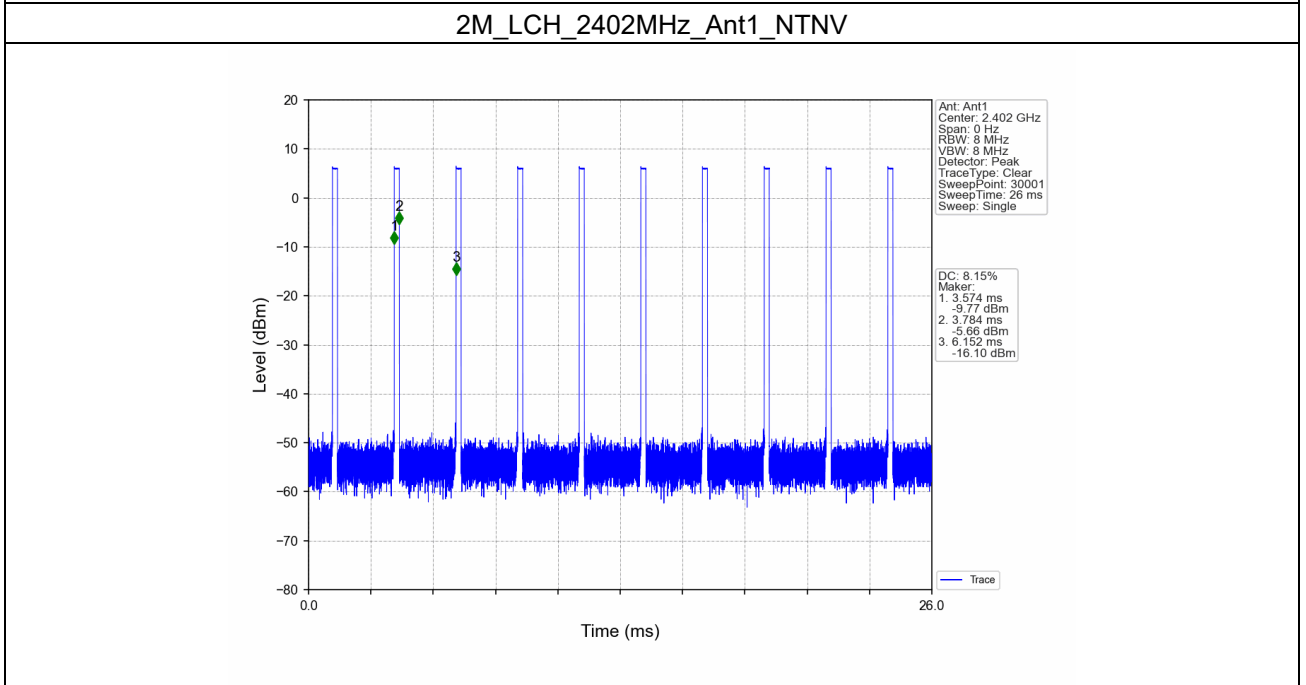
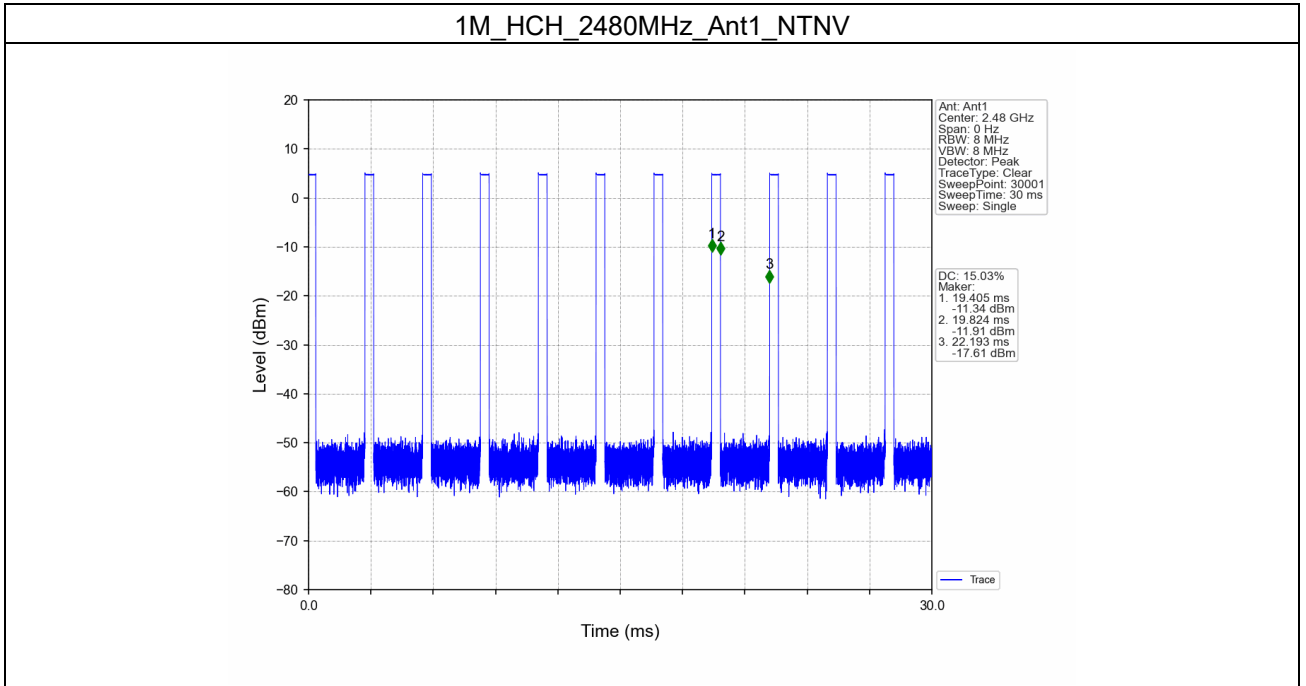


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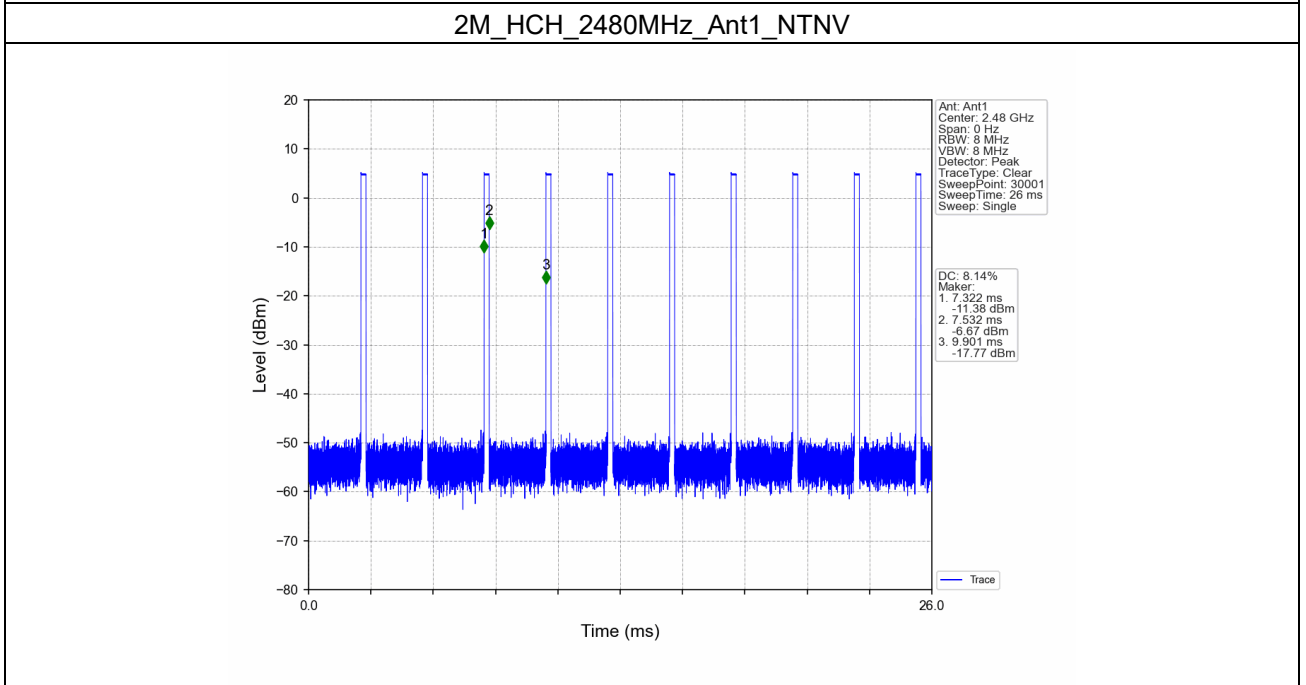
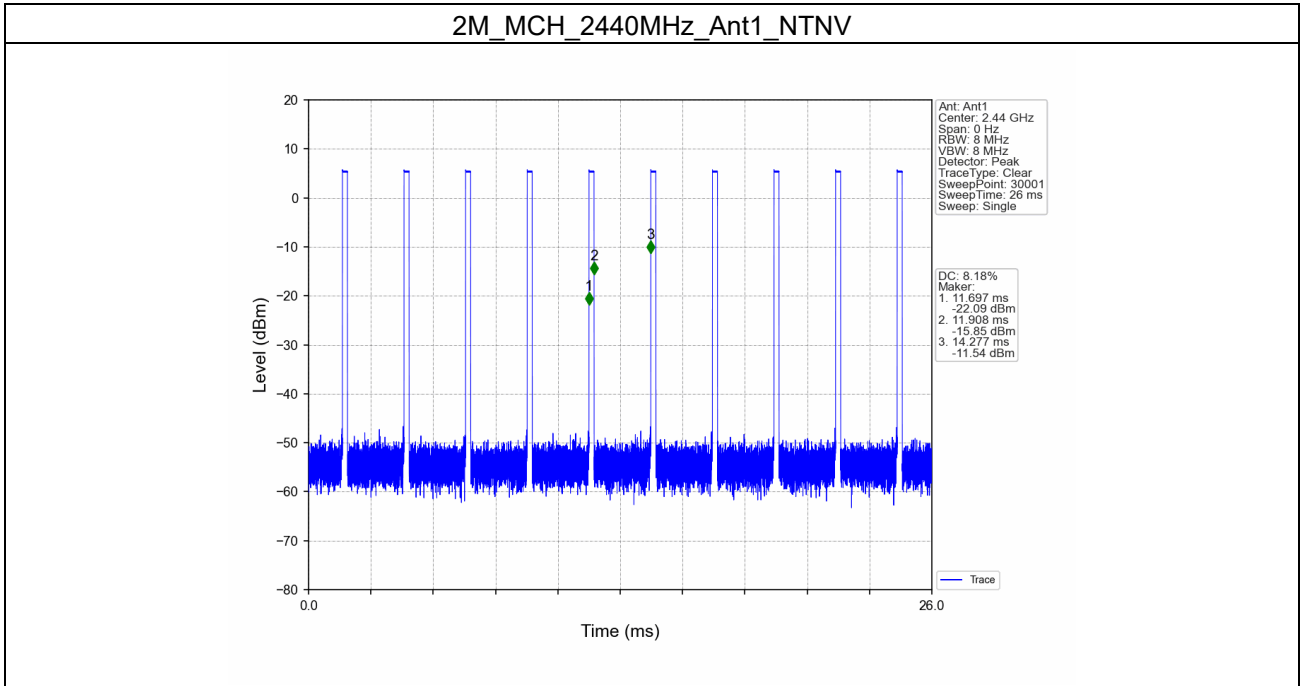


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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1M	SISO	2402	1	1.037	Pass
		2440	1	1.038	Pass
		2480	1	1.037	Pass
2M	SISO	2402	1	2.071	Pass
		2440	1	2.070	Pass
		2480	1	2.070	Pass

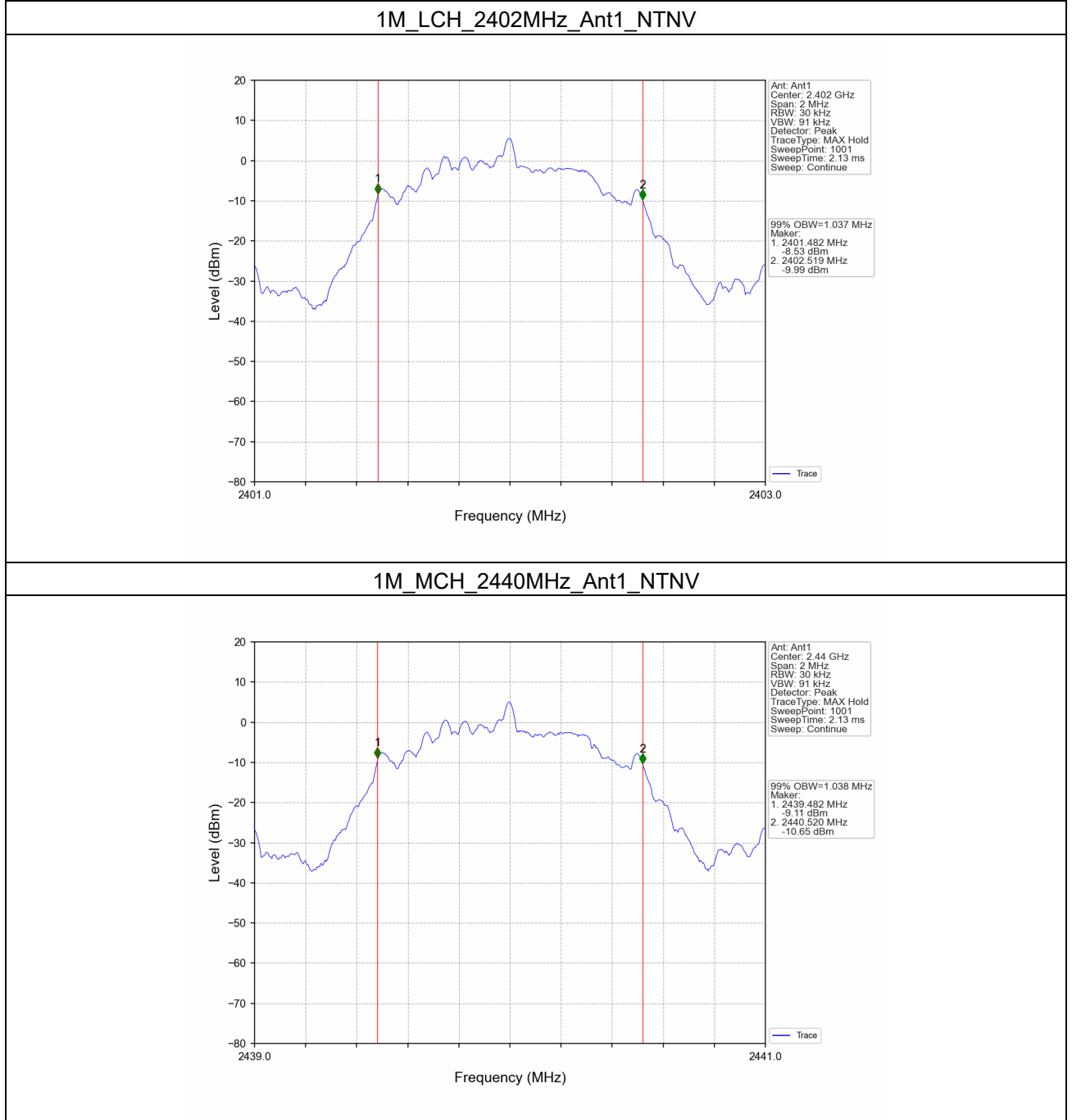


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2.1.2 Test Graph

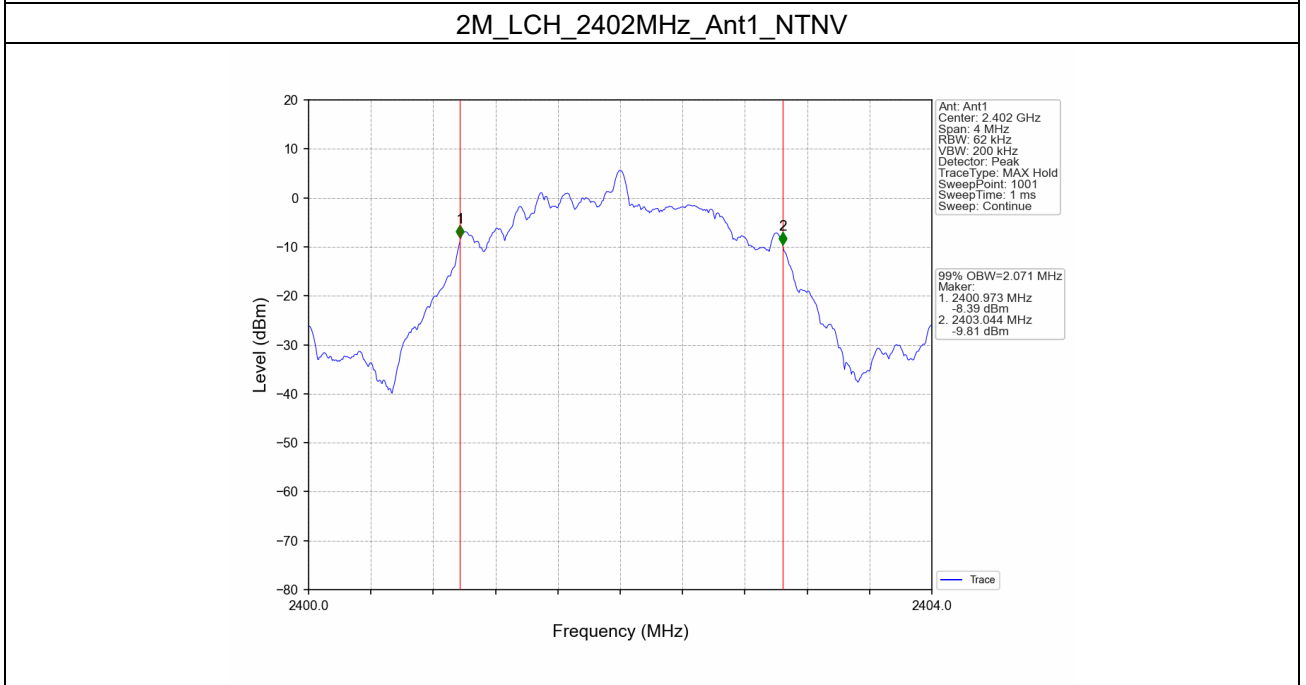
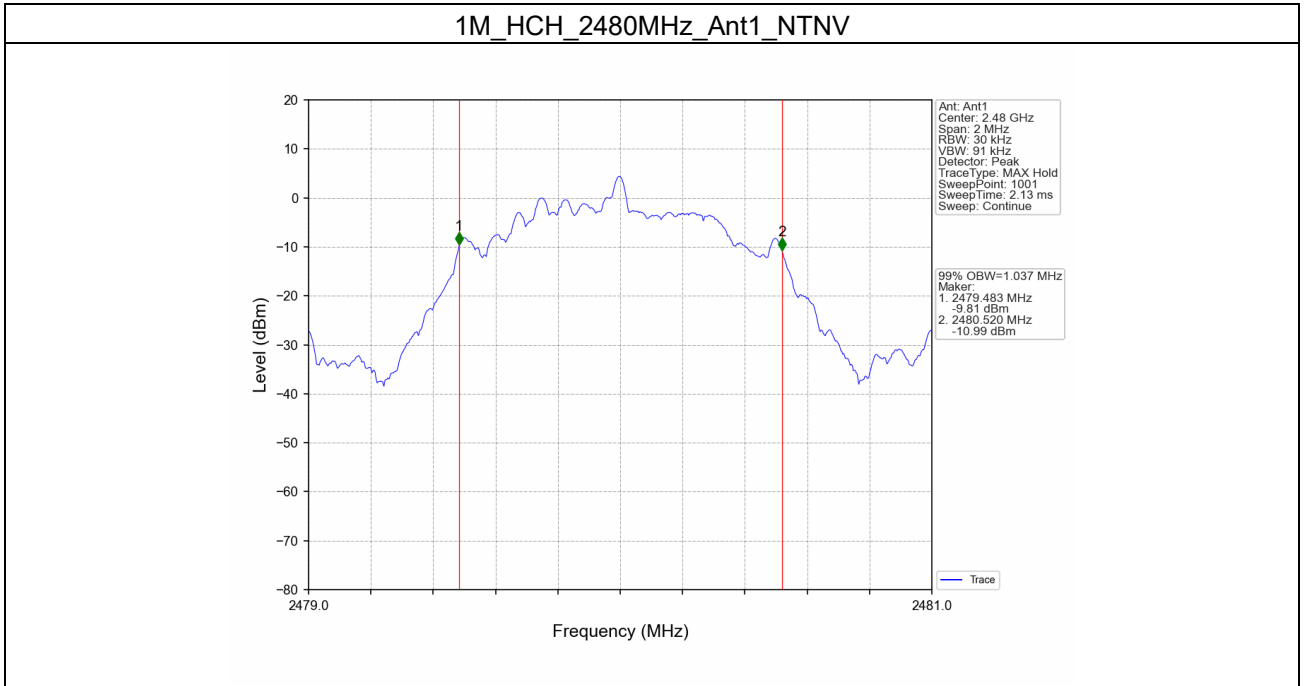


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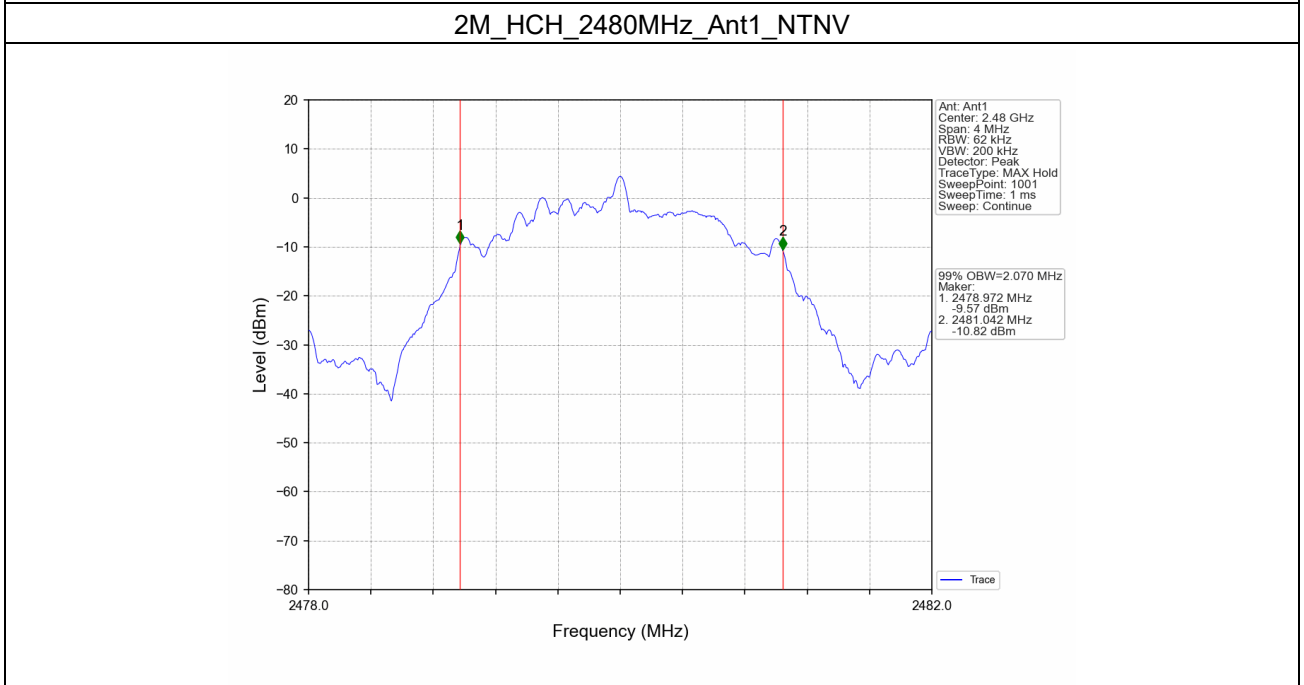
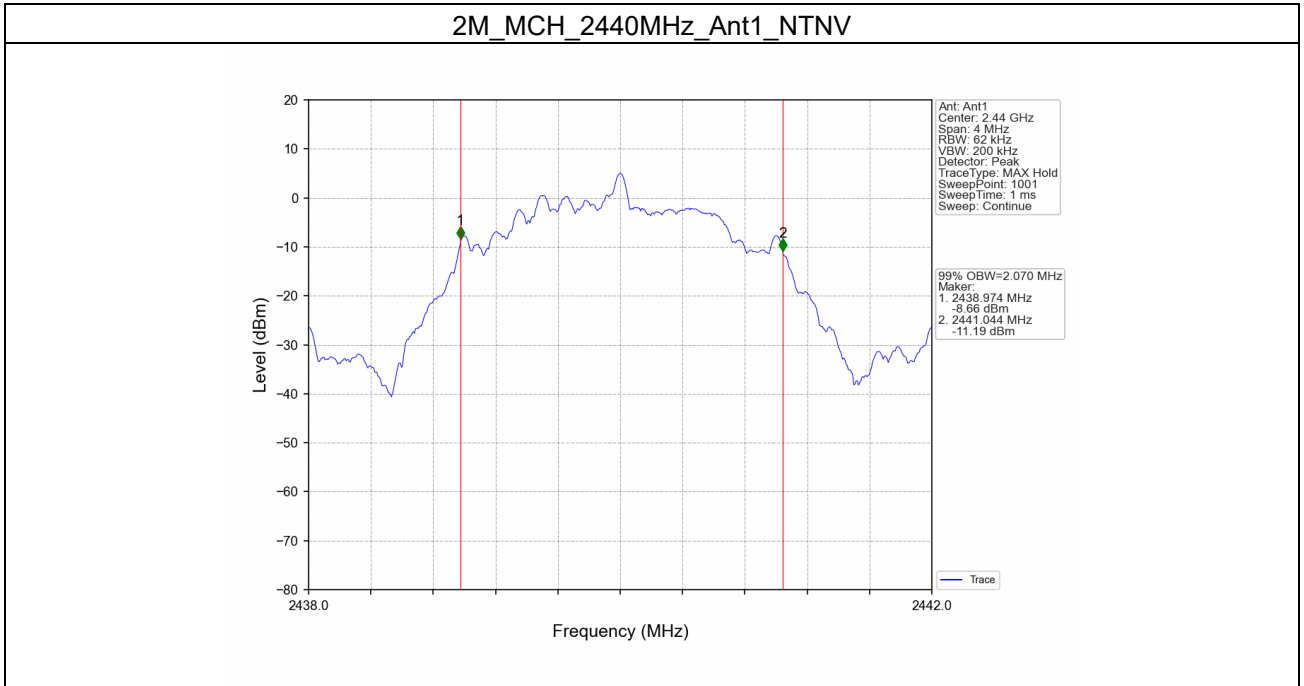
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.676	>=0.5	Pass
		2440	1	0.670	>=0.5	Pass
		2480	1	0.669	>=0.5	Pass
2M	SISO	2402	1	1.142	>=0.5	Pass
		2440	1	1.133	>=0.5	Pass
		2480	1	1.130	>=0.5	Pass



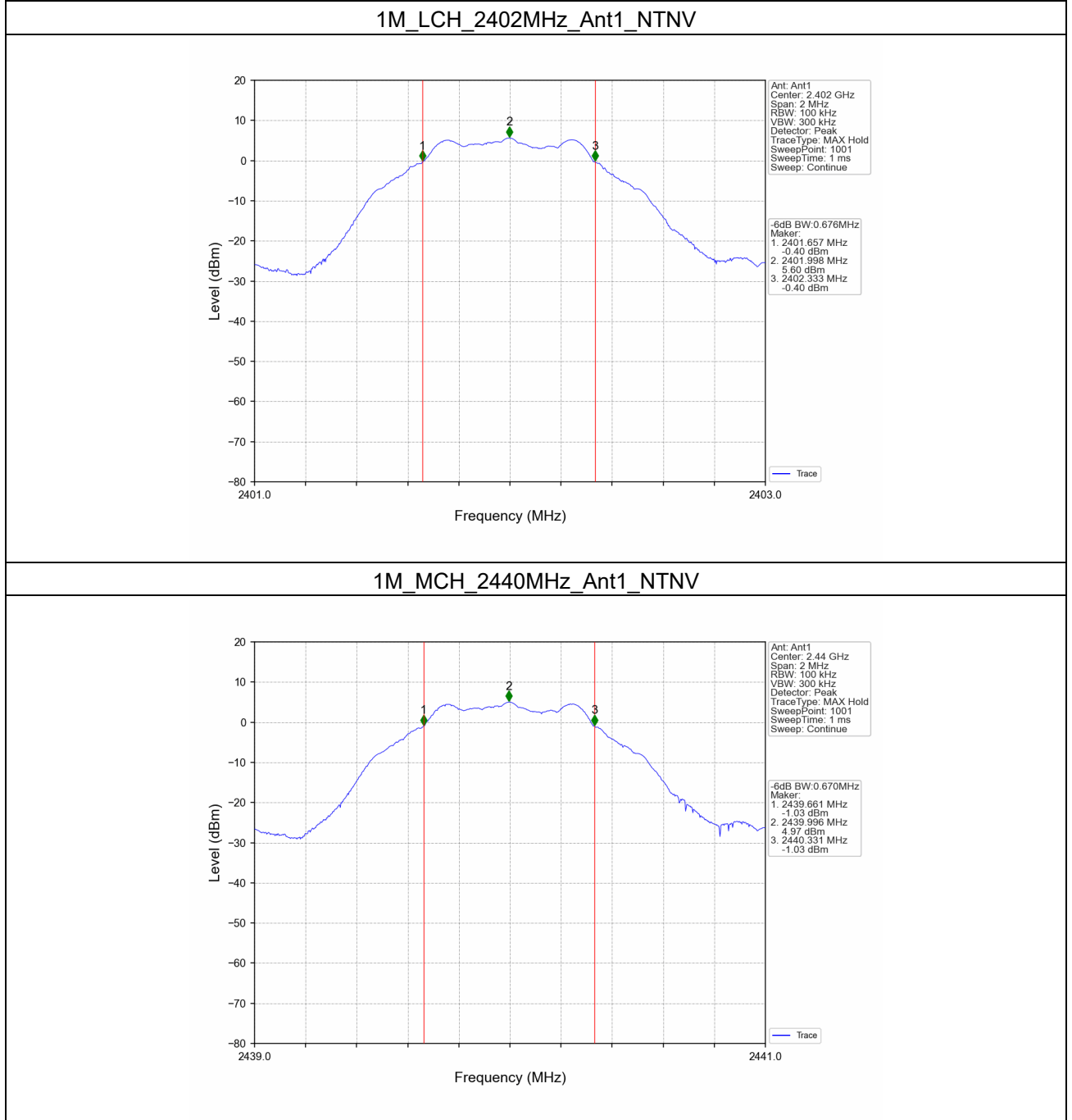
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2.2.2 Test Graph

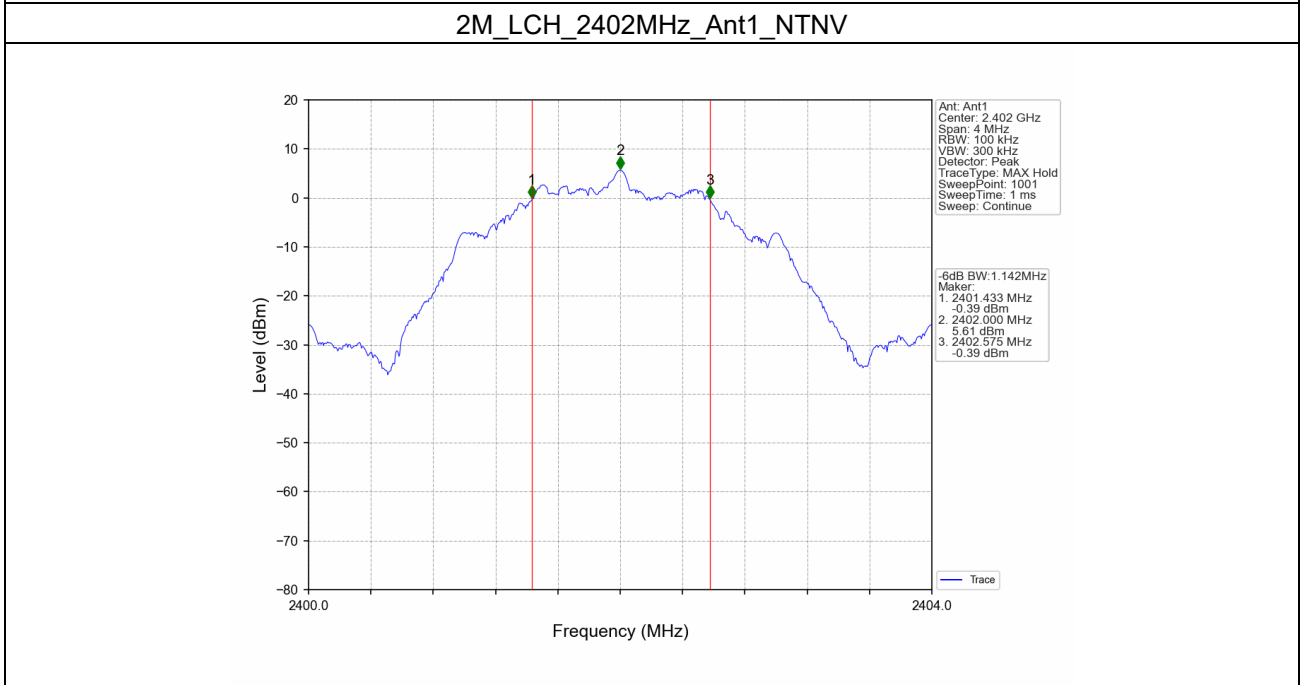
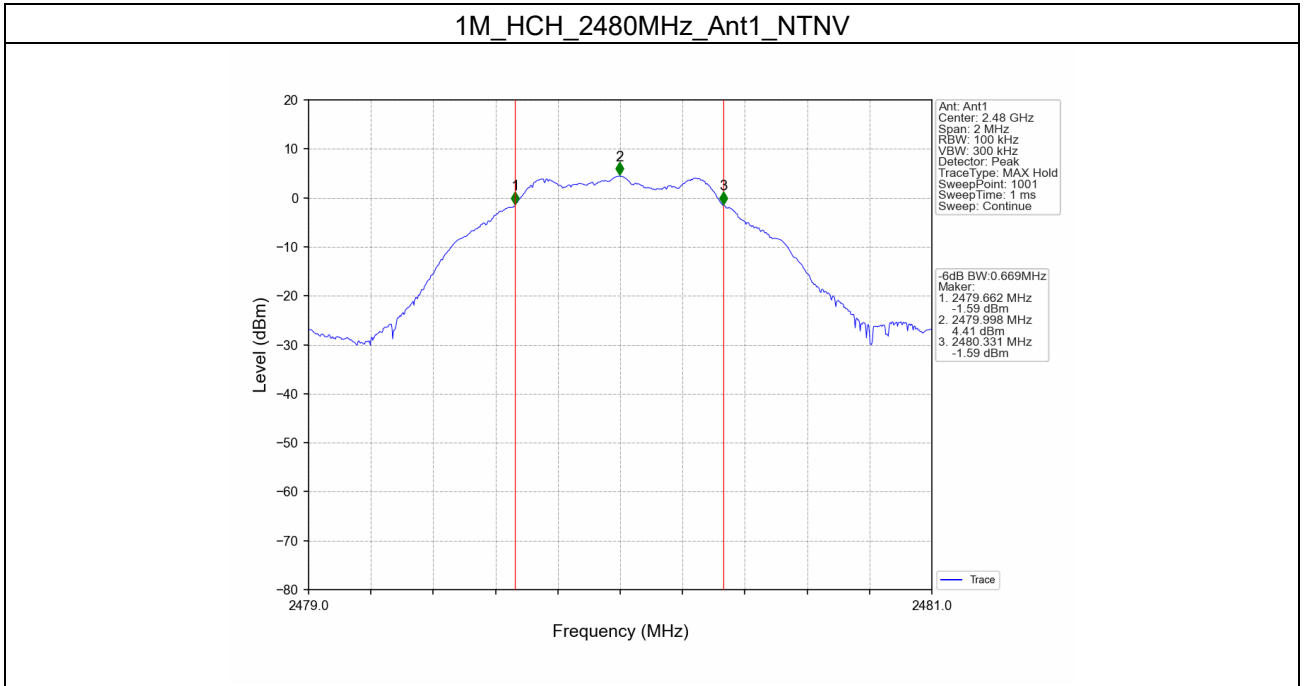


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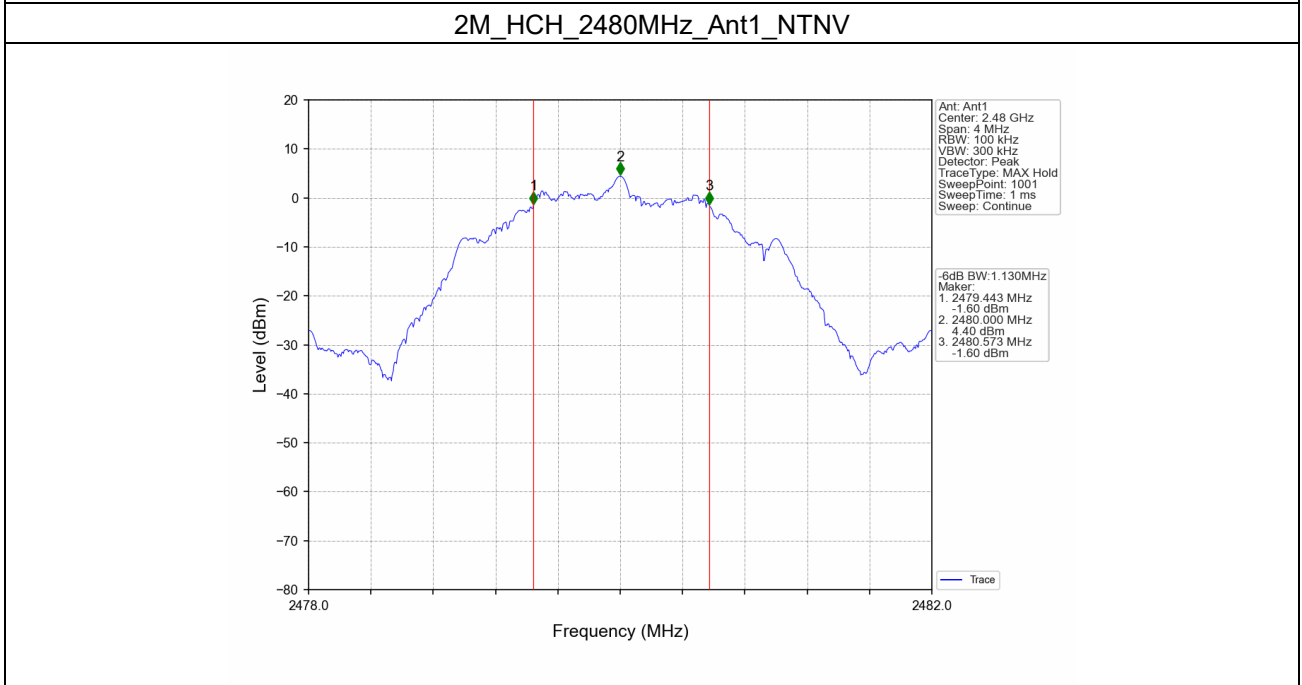
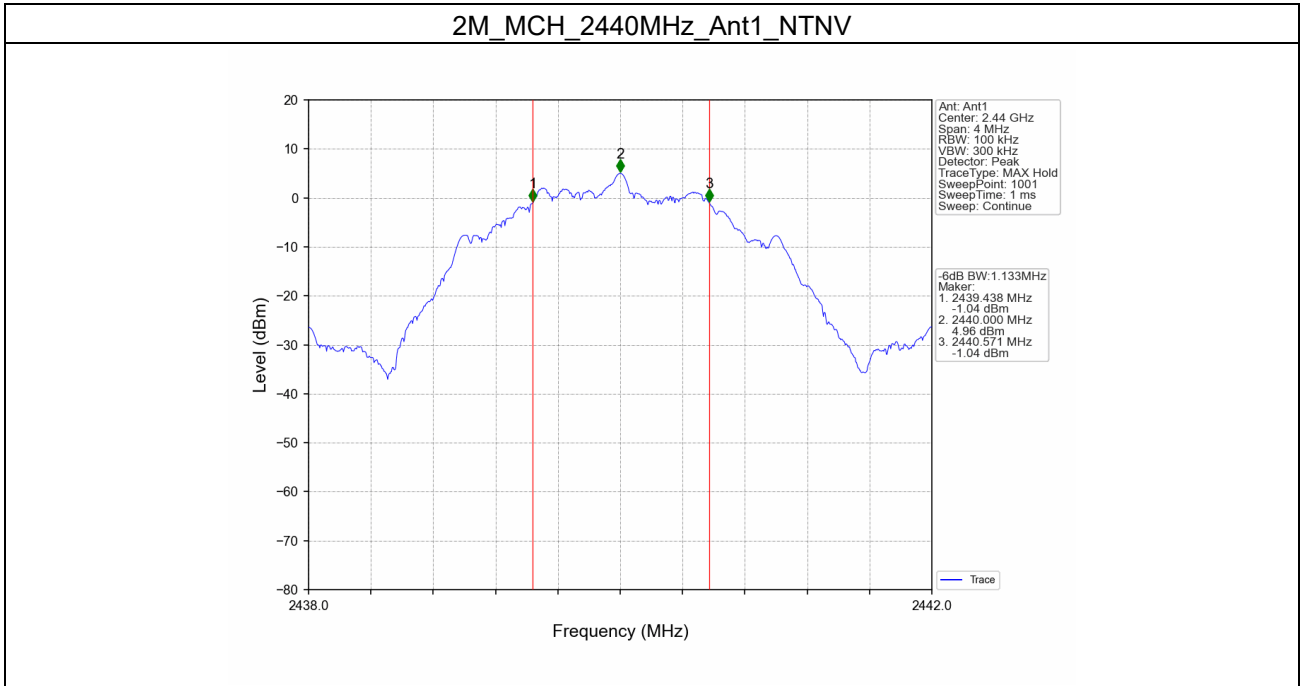
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	5.99	<=30	Pass
		2440	5.34	<=30	Pass
		2480	4.79	<=30	Pass
2M	SISO	2402	6.02	<=30	Pass
		2440	5.39	<=30	Pass
		2480	4.83	<=30	Pass

Note1: Antenna Gain: Ant1: 0dBi;

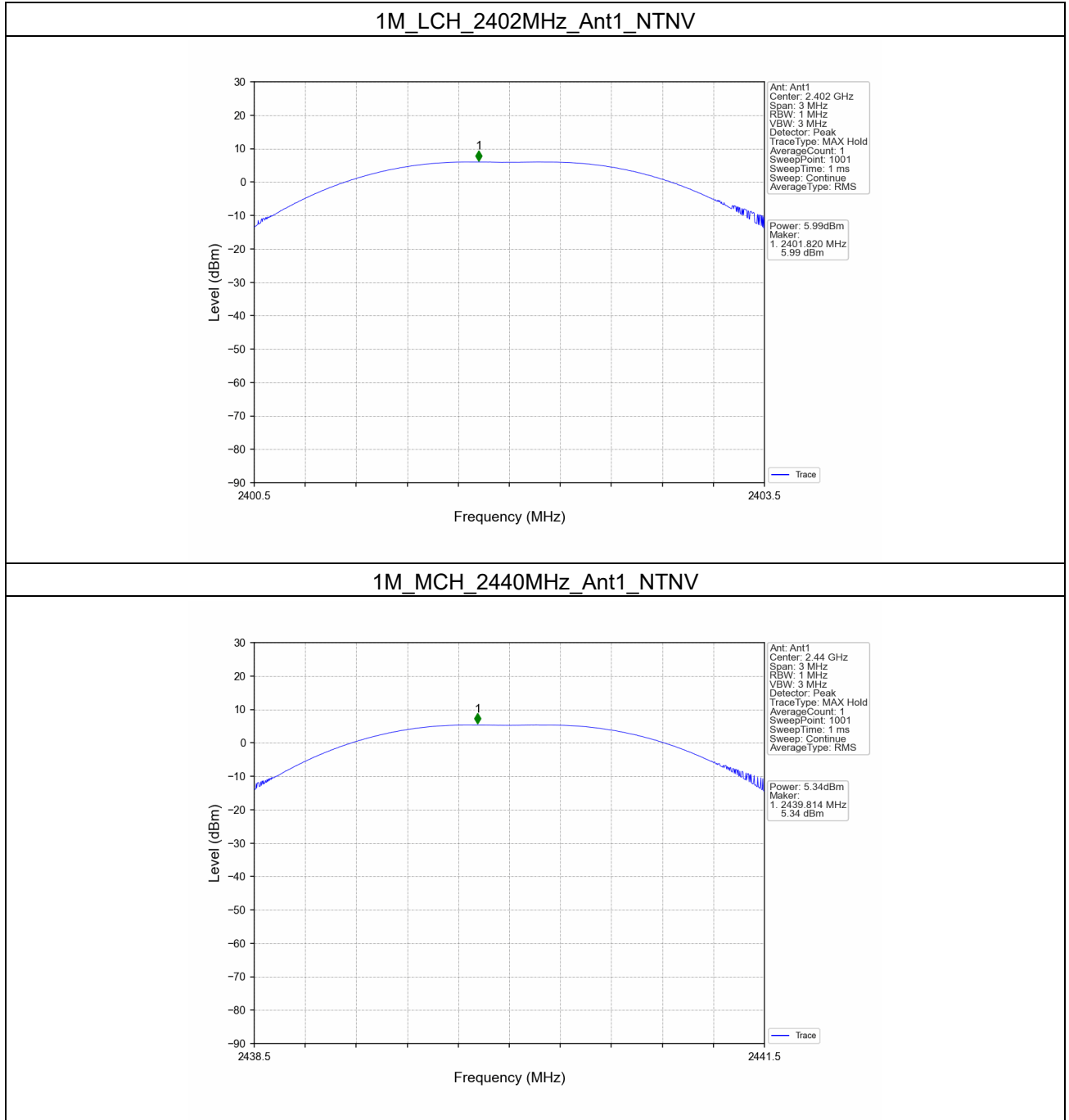


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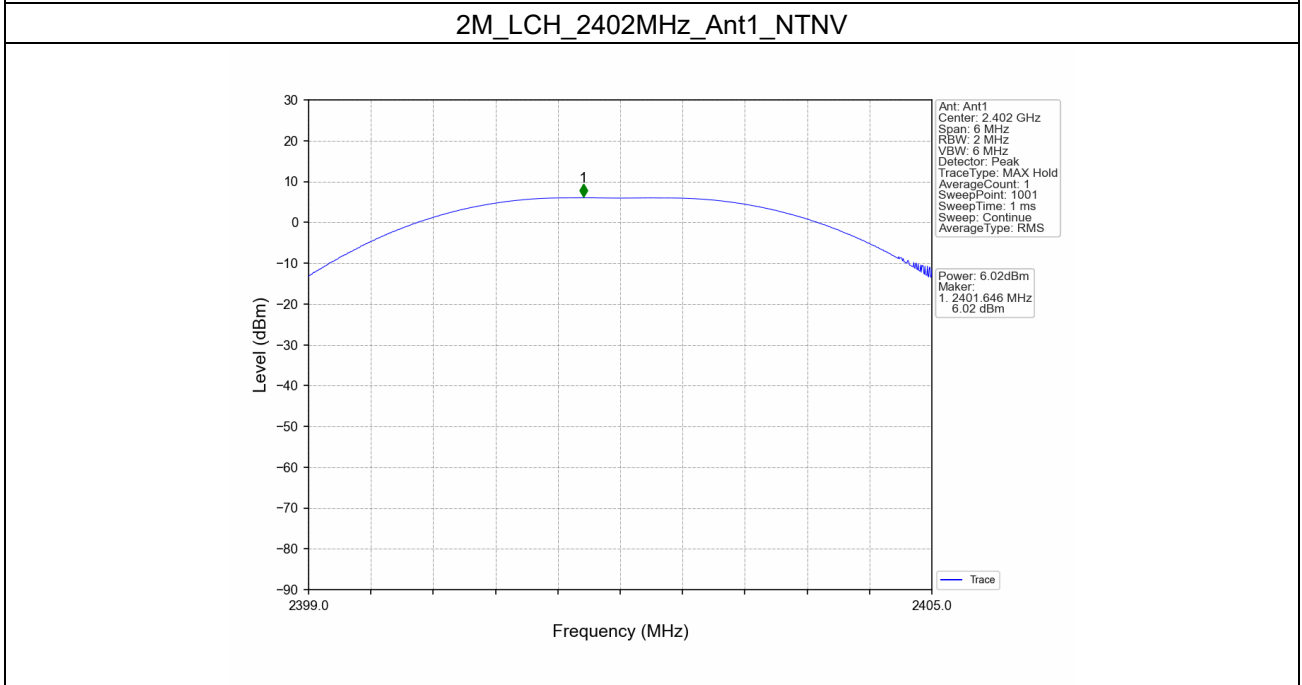
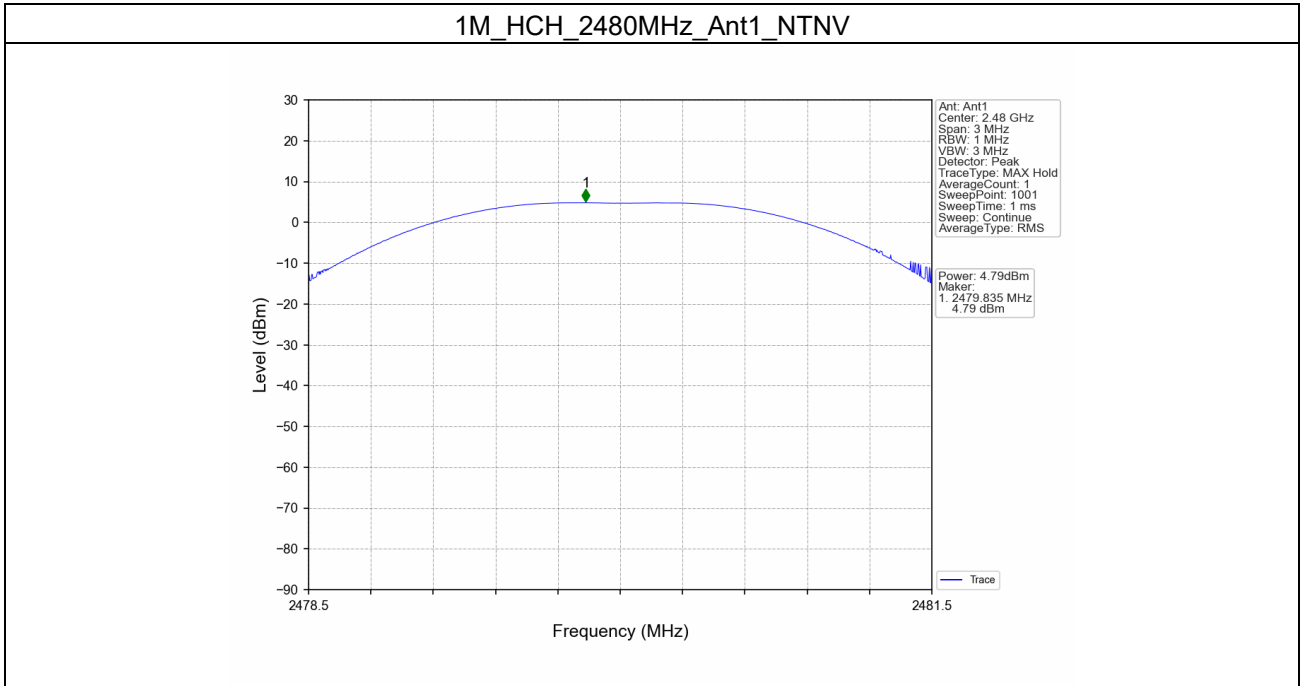
3.1.2 Test Graph



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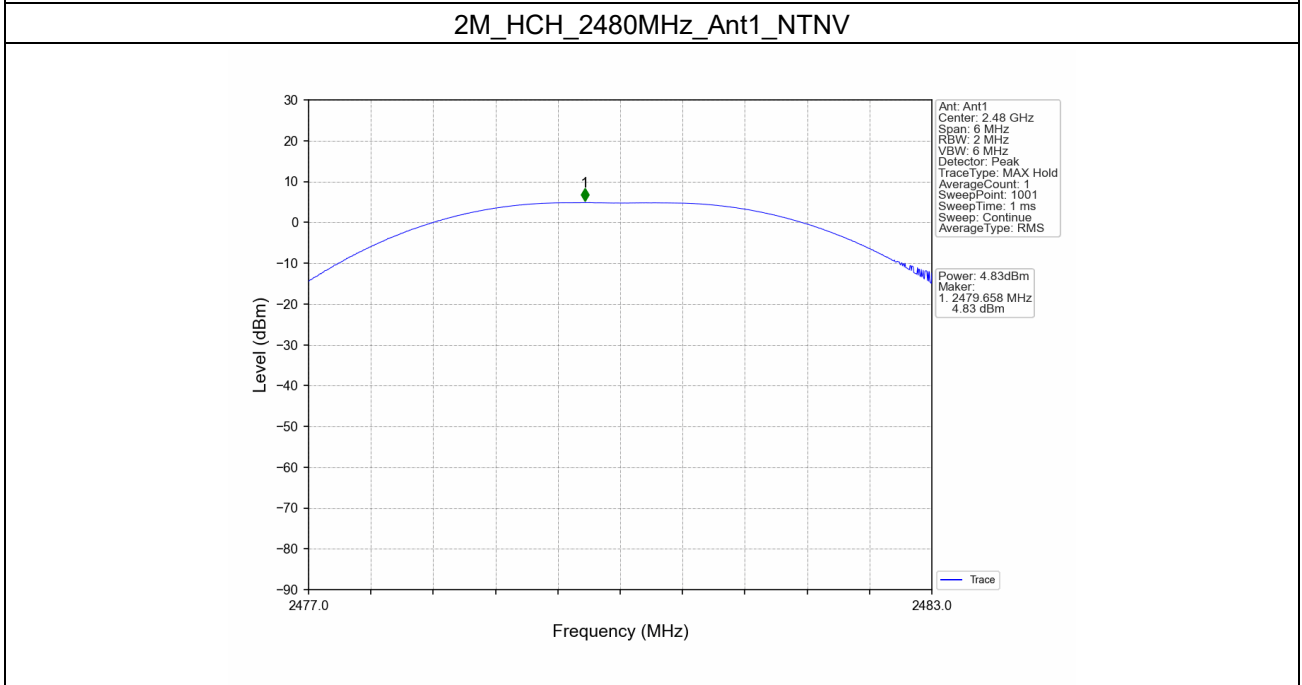
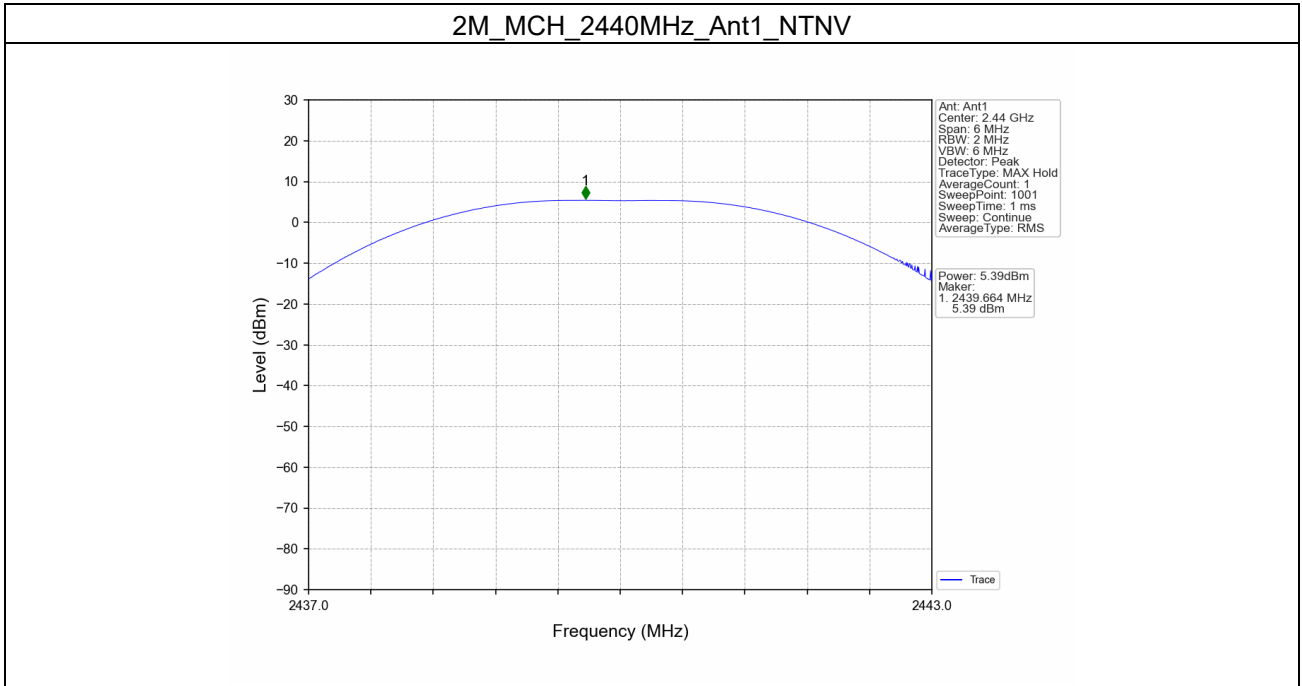
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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-6.36	<=8	Pass
		2440	-7.02	<=8	Pass
		2480	-7.58	<=8	Pass
2M	SISO	2402	-10.76	<=8	Pass
		2440	-11.45	<=8	Pass
		2480	-12.01	<=8	Pass

Note1: Antenna Gain: Ant1: 0dBi;

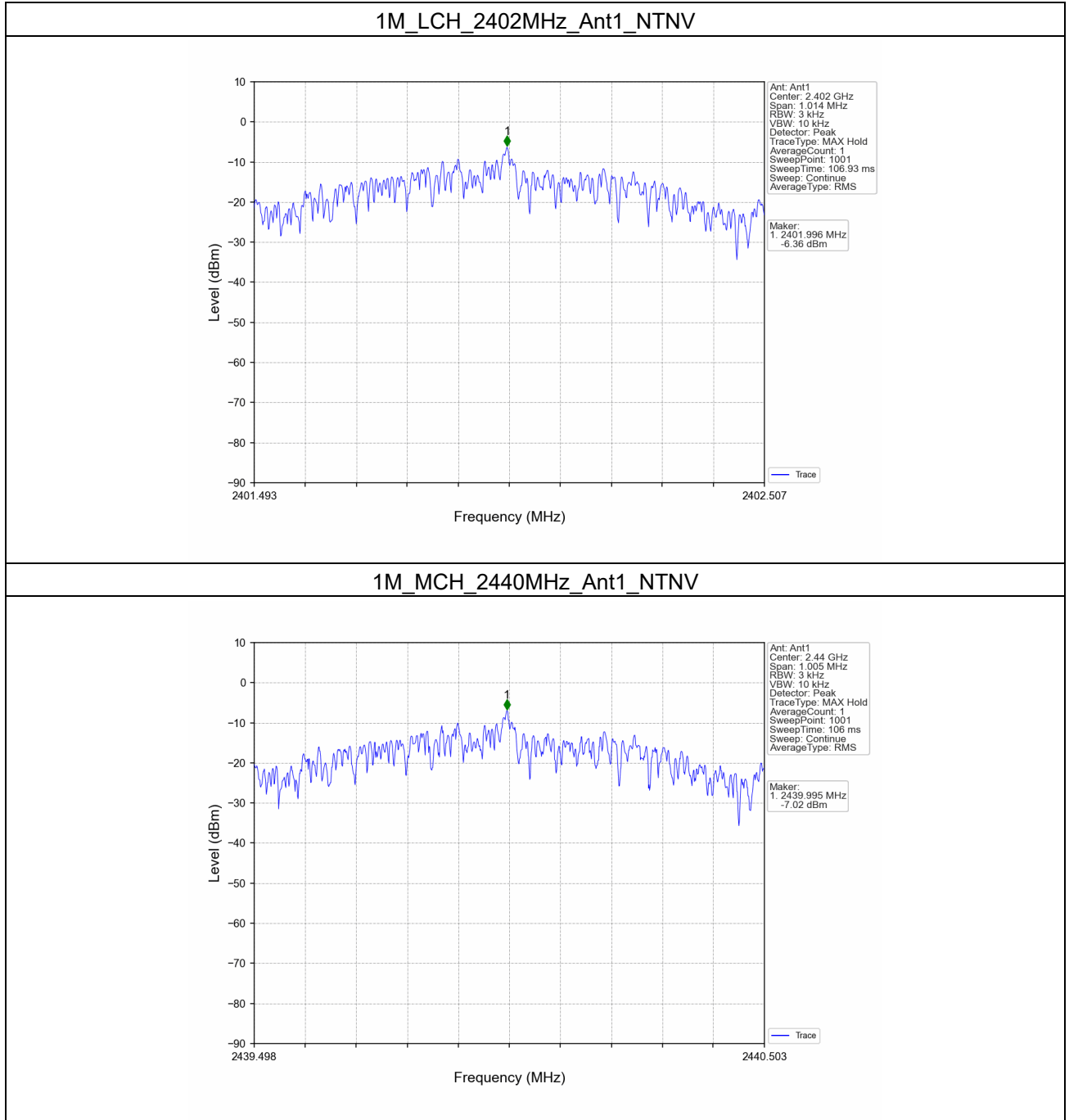


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4.1.2 Test Graph

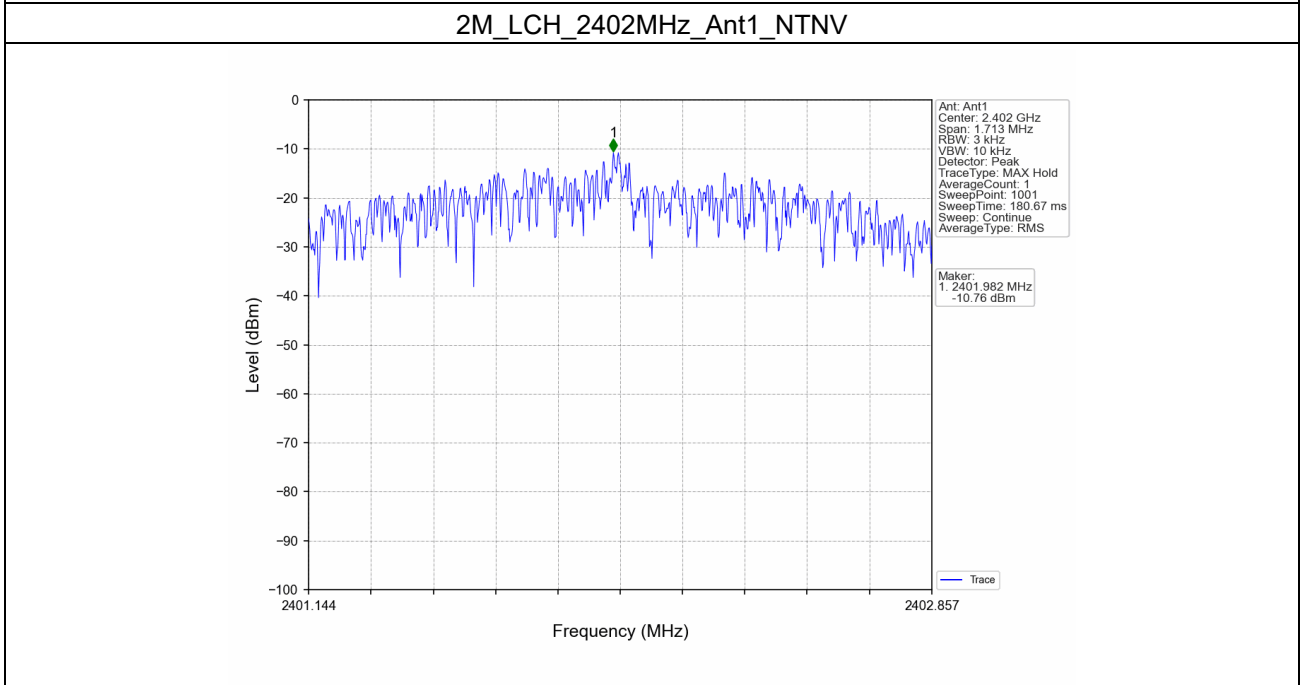
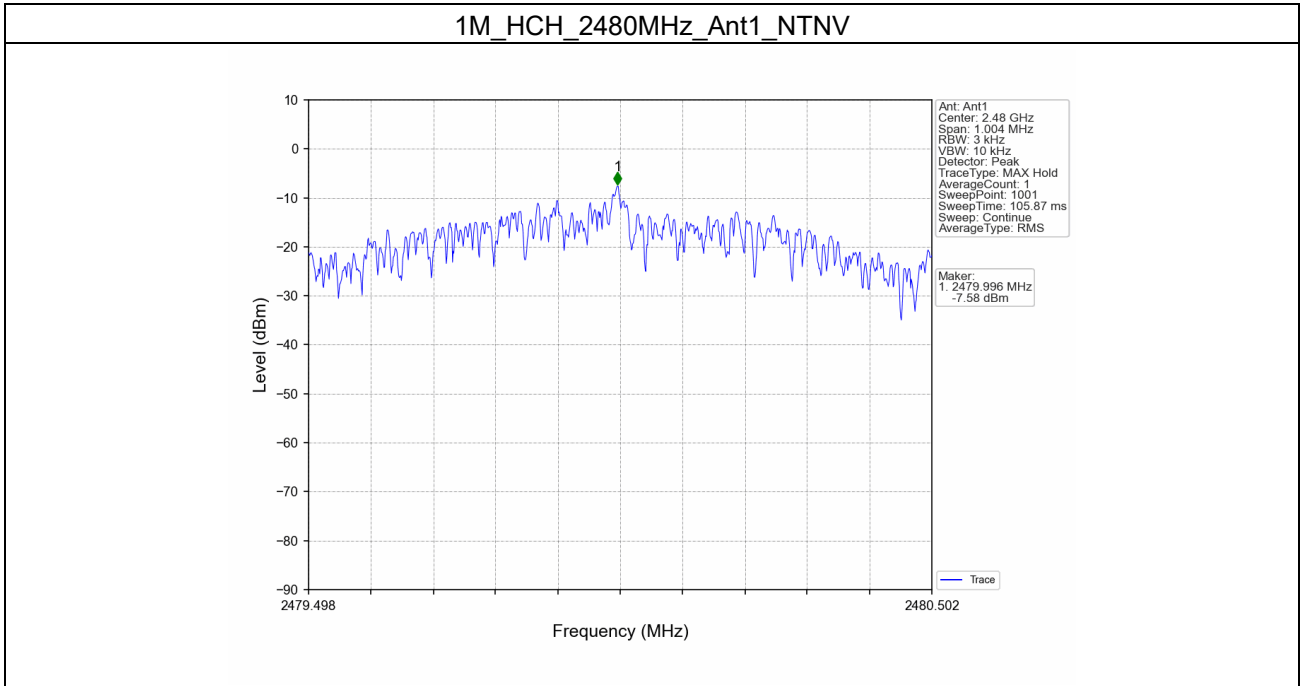


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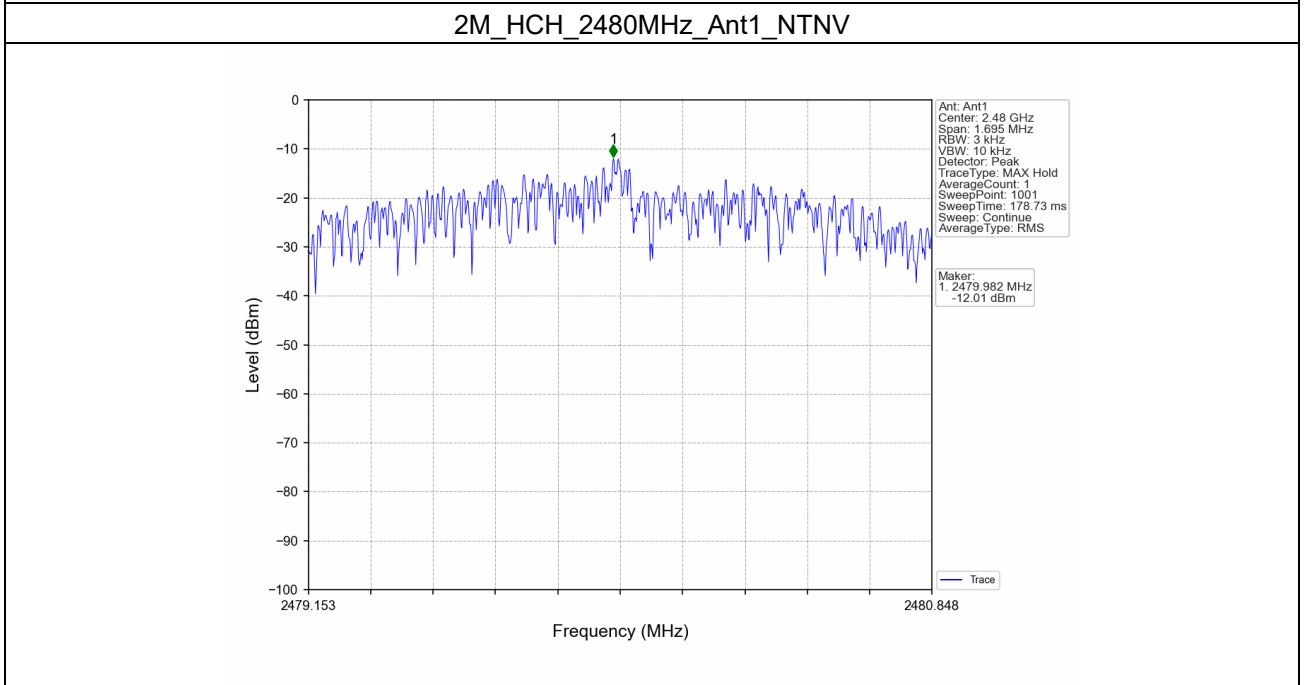
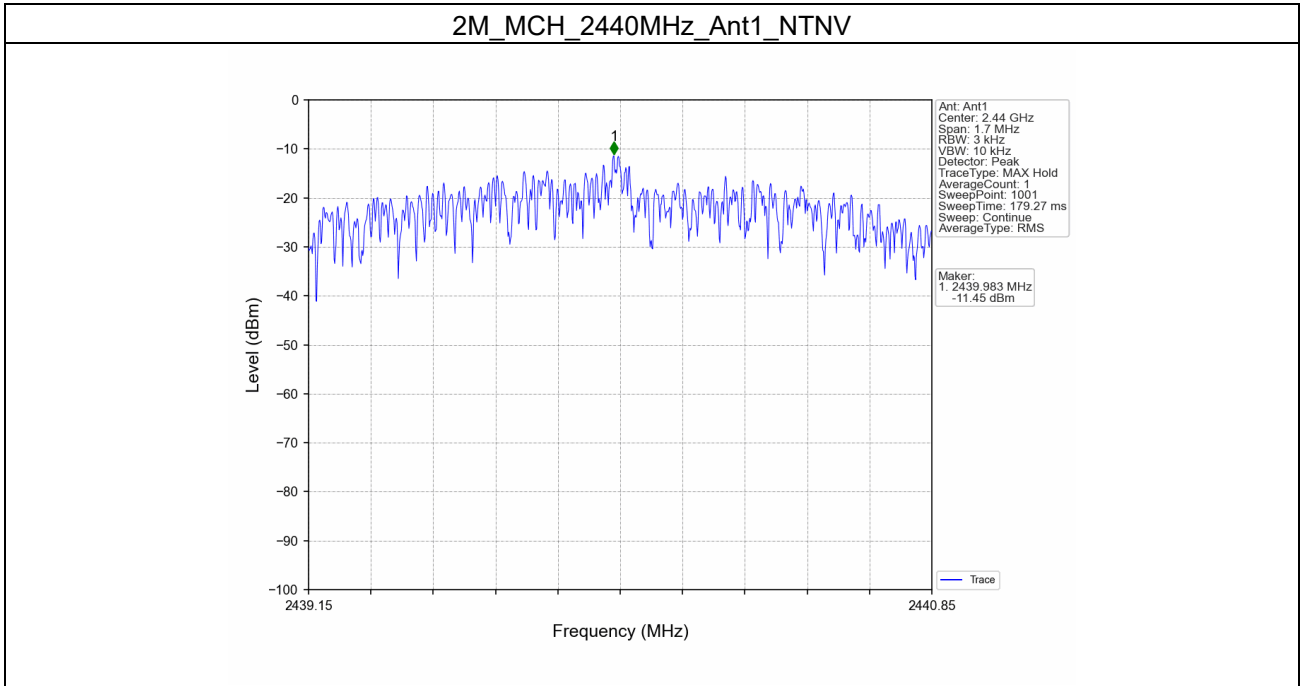
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5. Unwanted Emissions InStandard Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	5.61
		2440	1	4.95
		2480	1	4.42
2M	SISO	2402	1	5.61
		2440	1	4.98
		2480	1	4.40

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

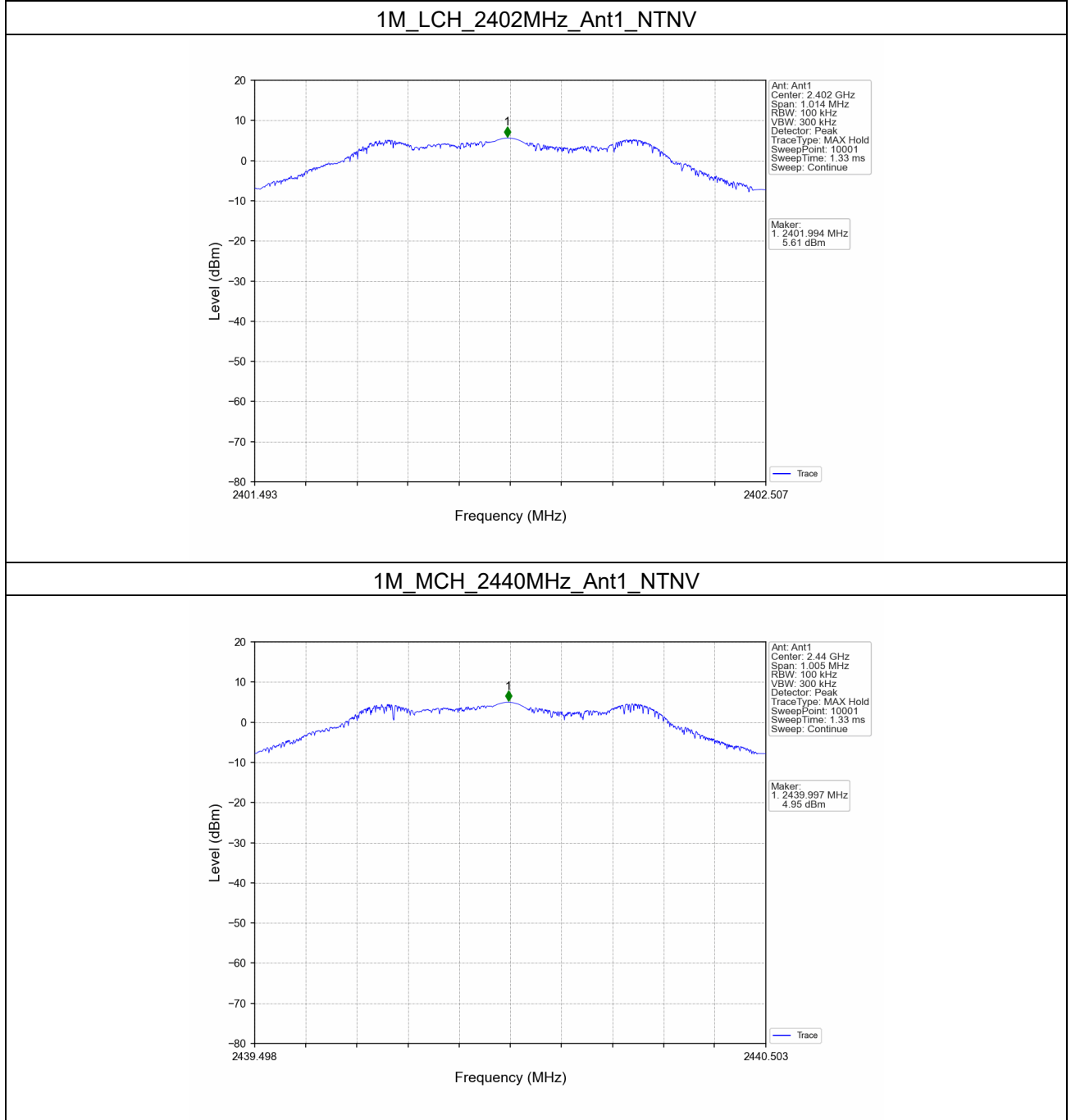


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5.1.2 Test Graph

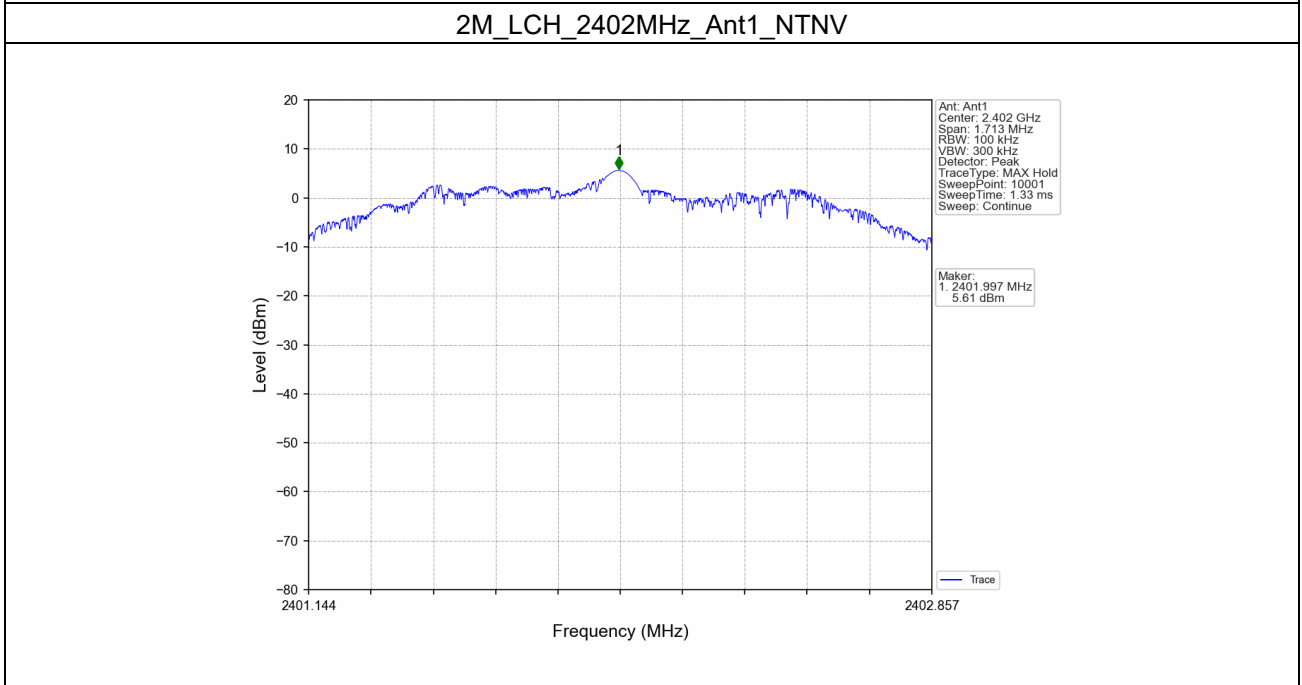
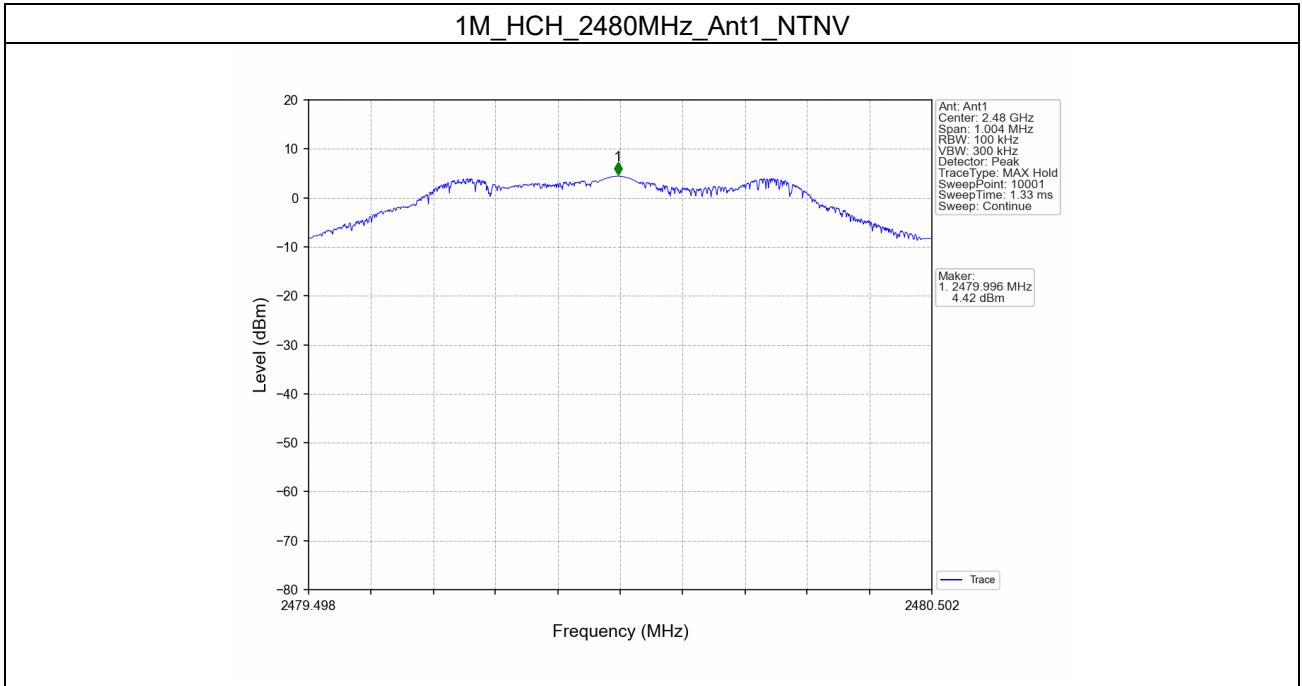


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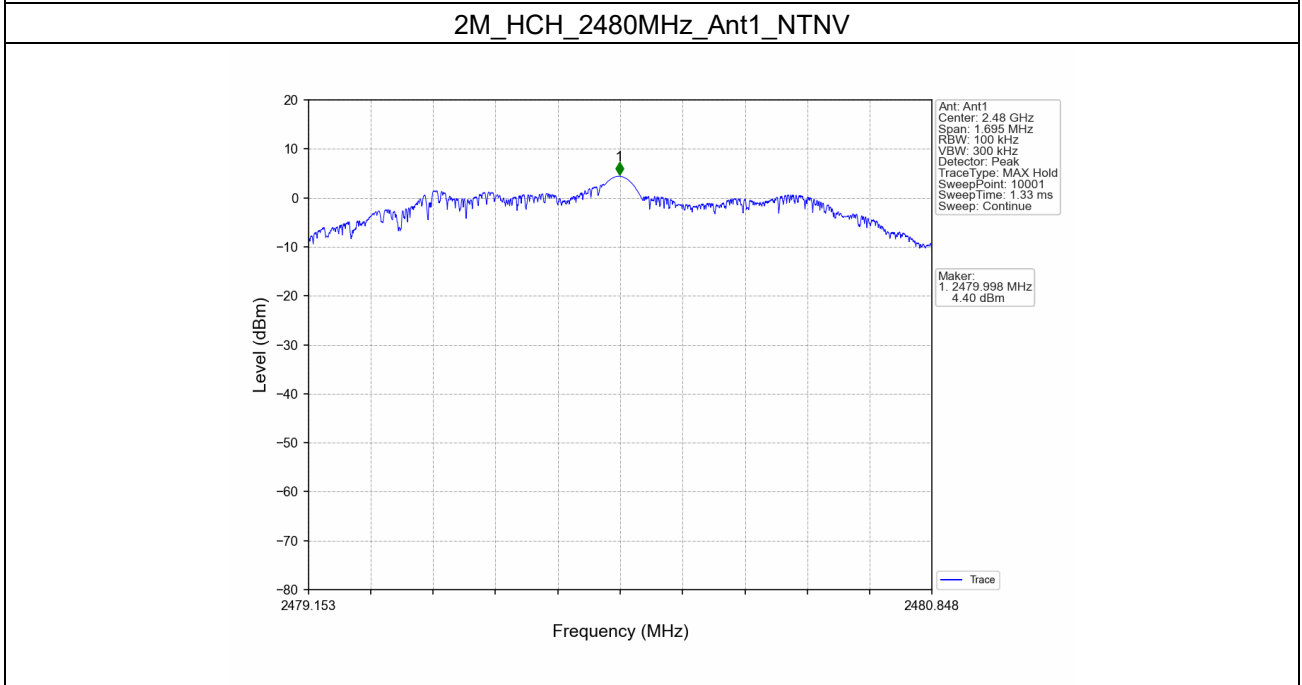
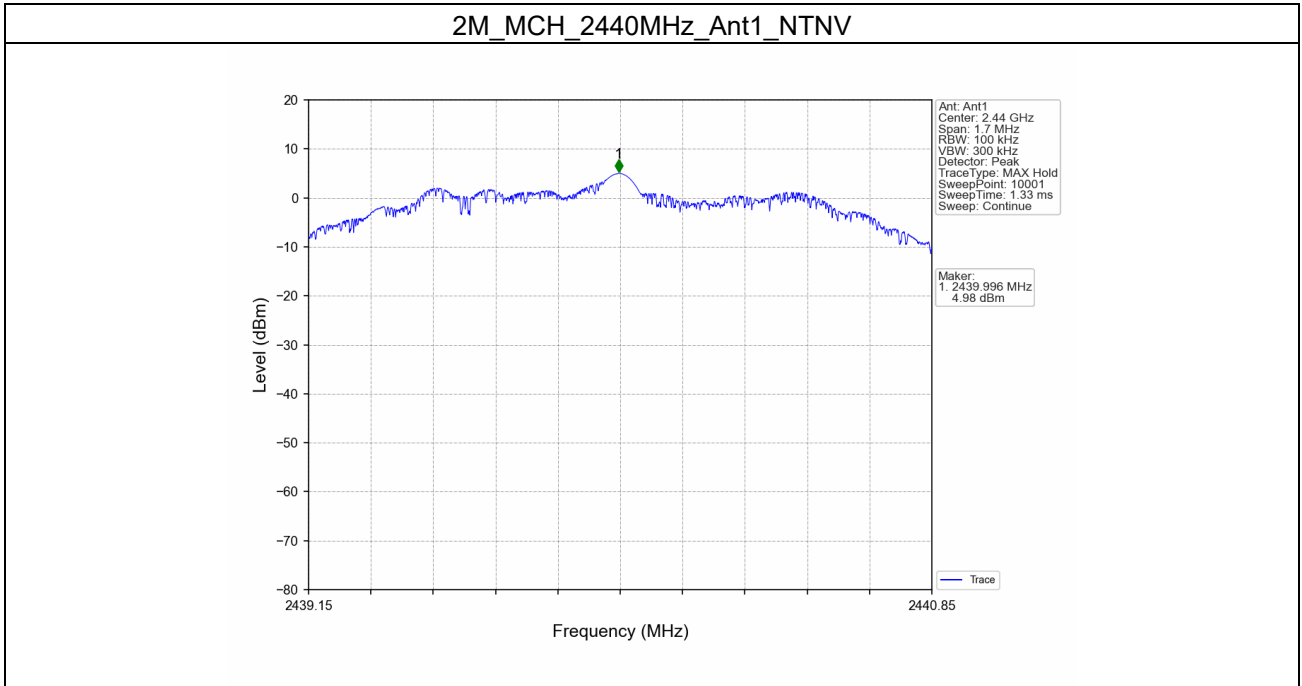


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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	5.61	-14.39	Pass
		2440	1	5.61	-14.39	Pass
		2480	1	5.61	-14.39	Pass
2M	SISO	2402	1	5.61	-14.39	Pass
		2440	1	5.61	-14.39	Pass
		2480	1	5.61	-14.39	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

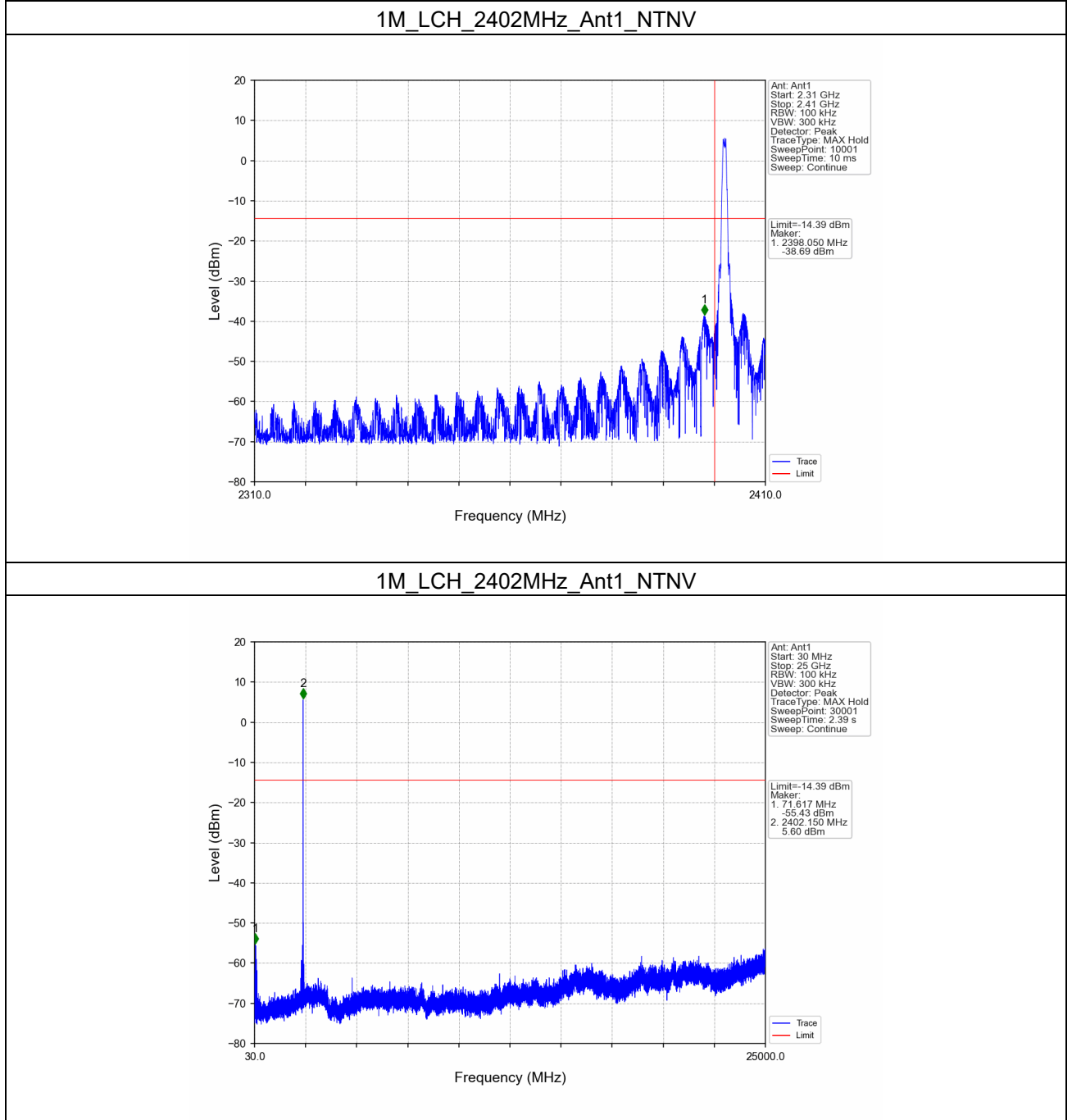


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5.2.2 Test Graph



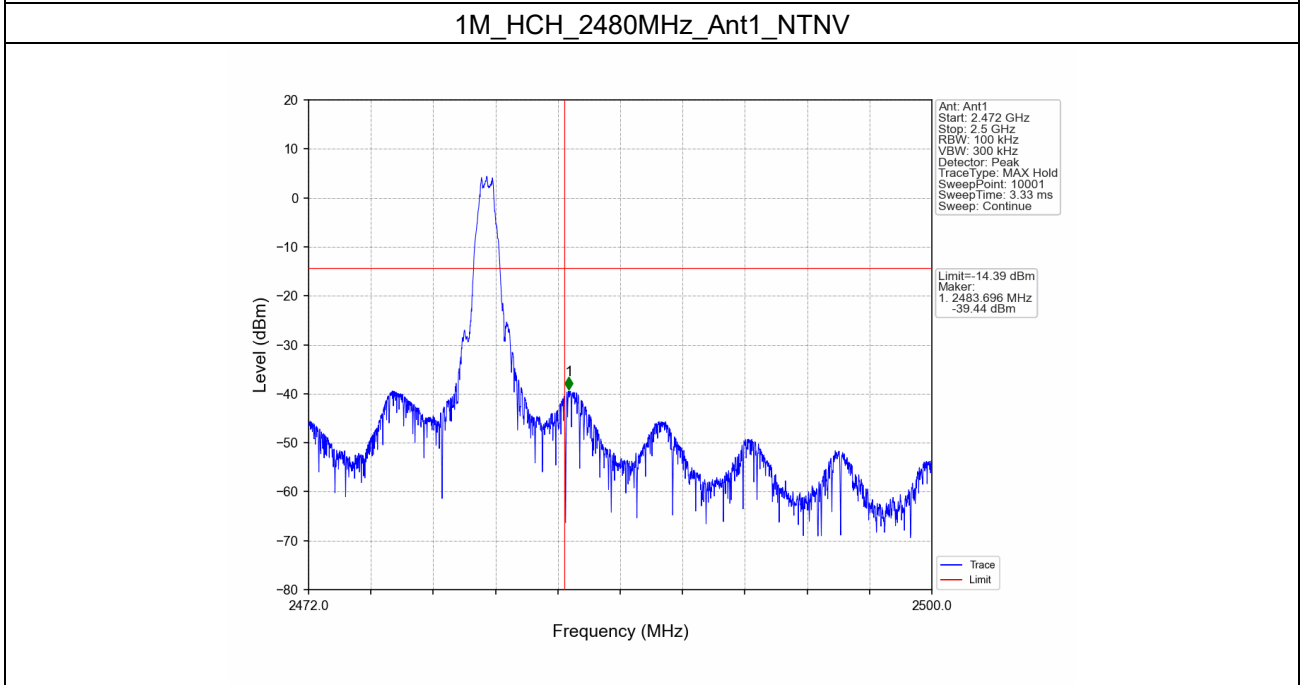
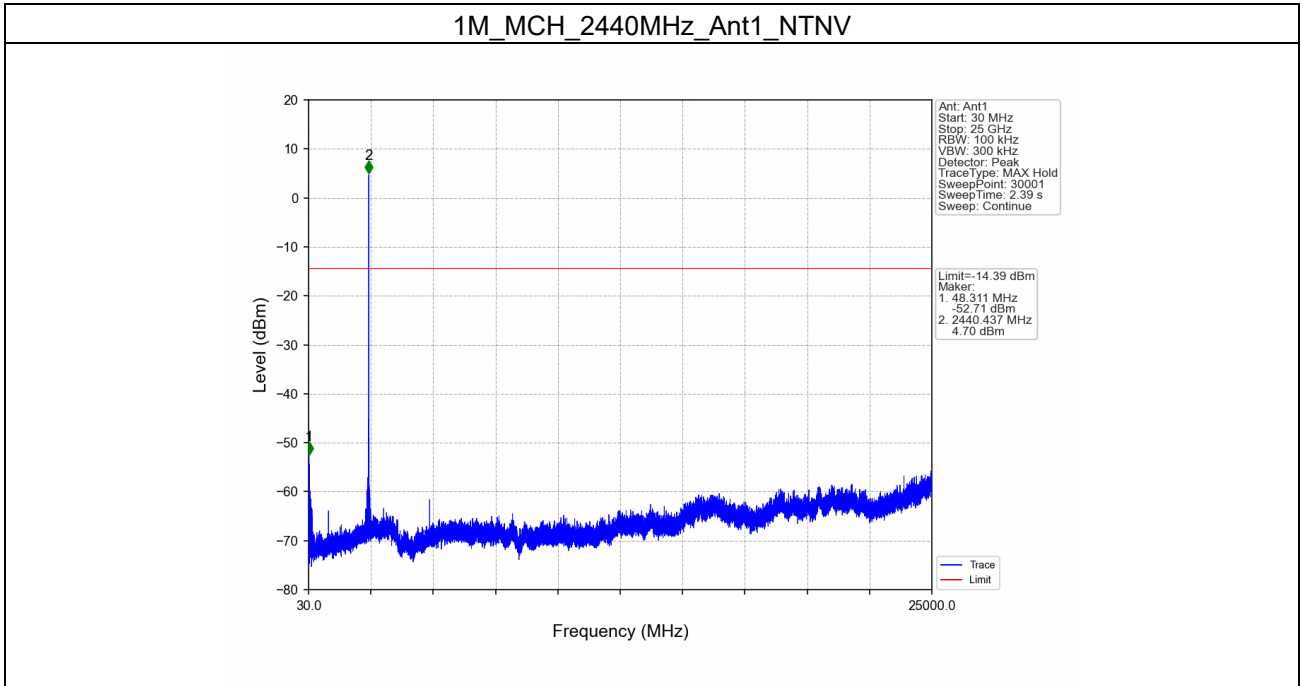
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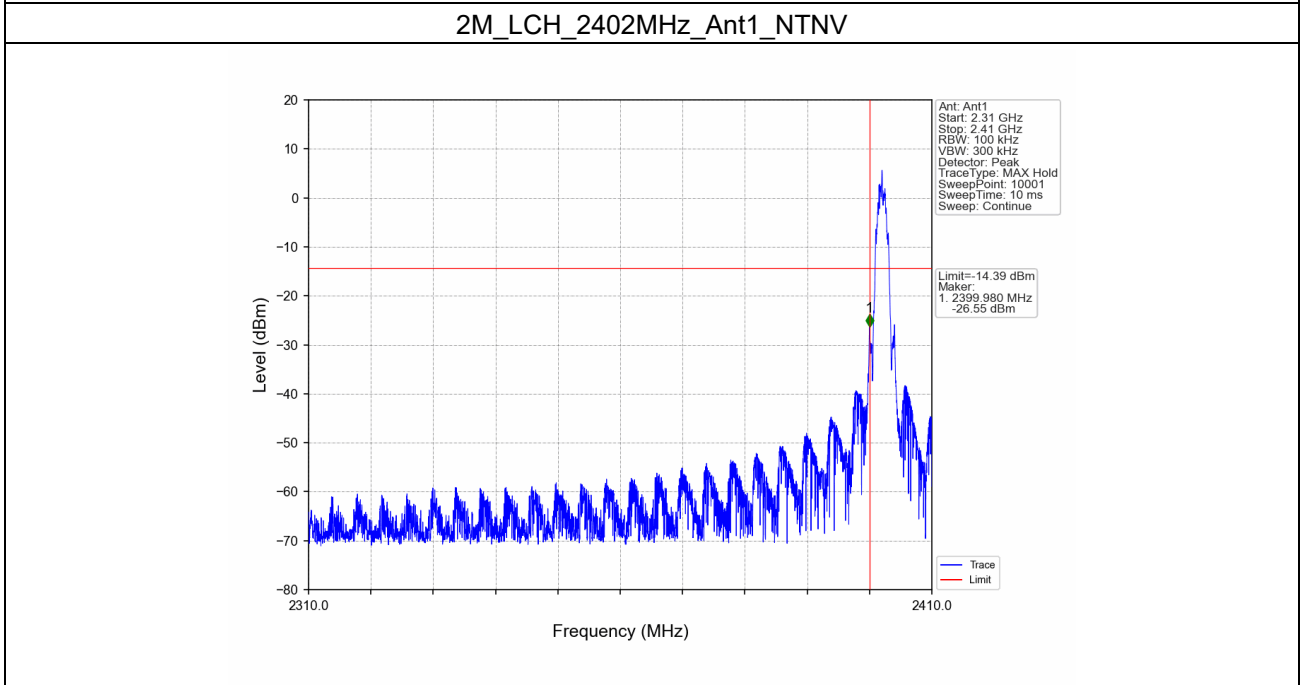
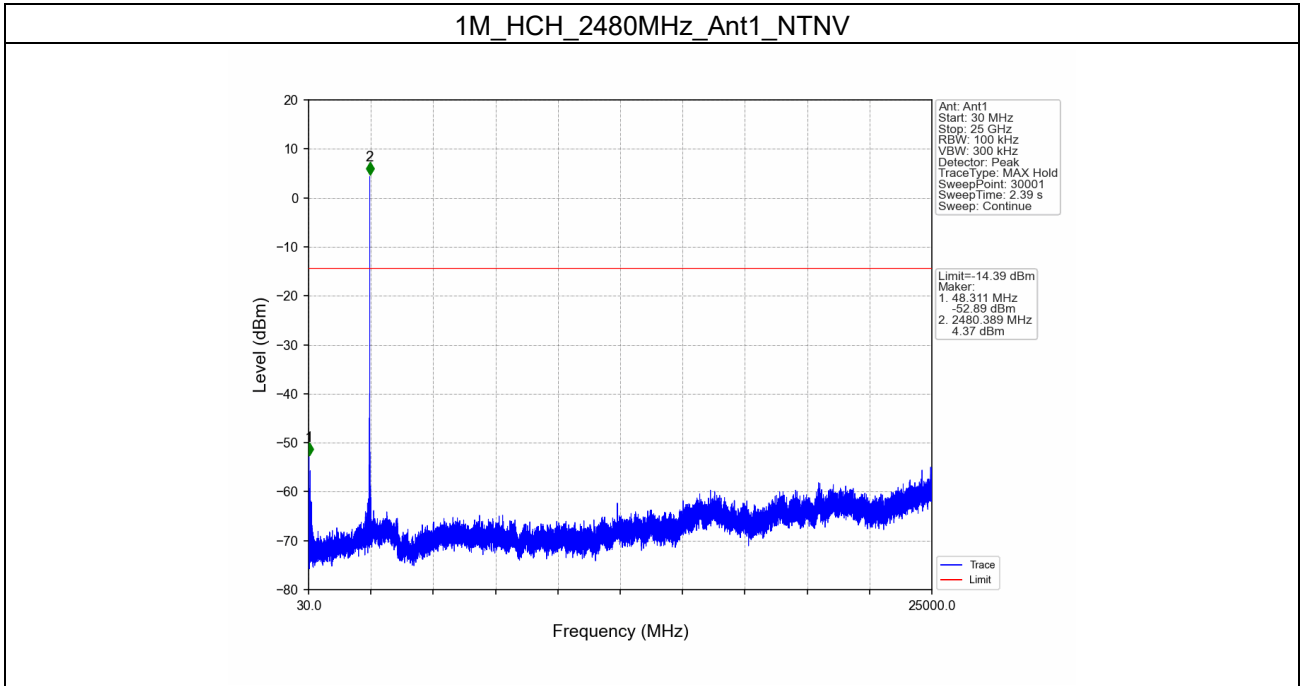
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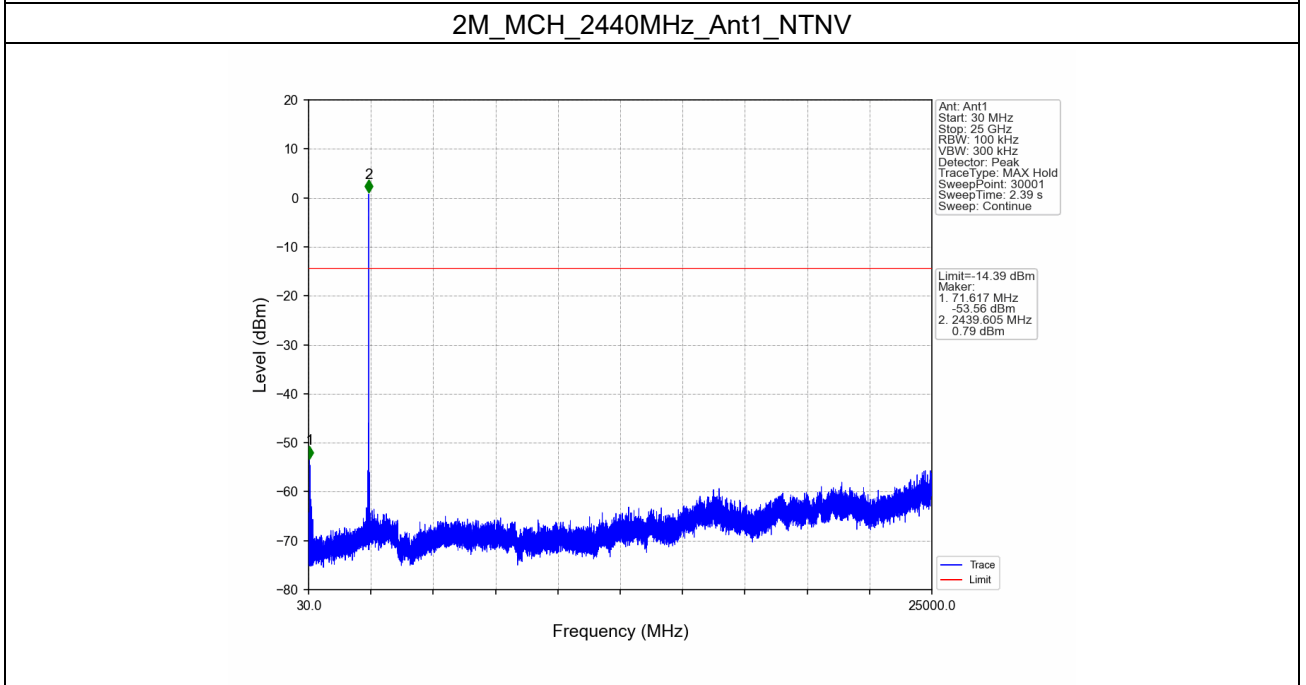
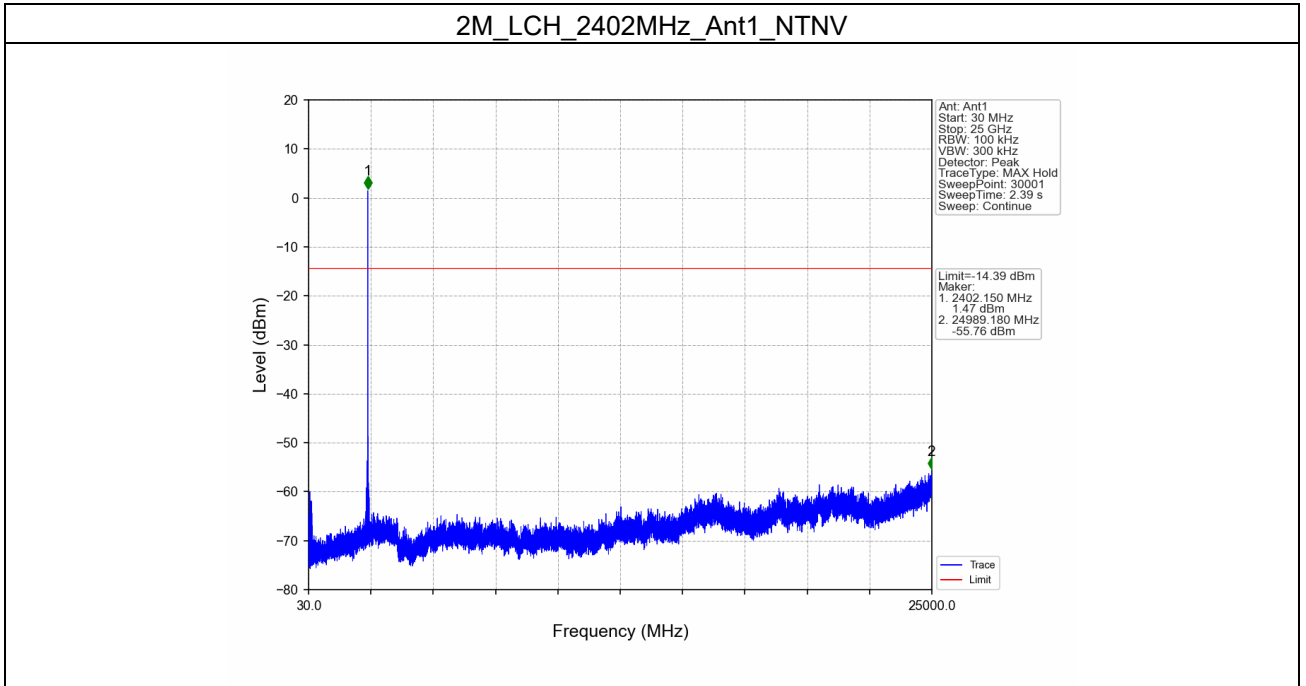
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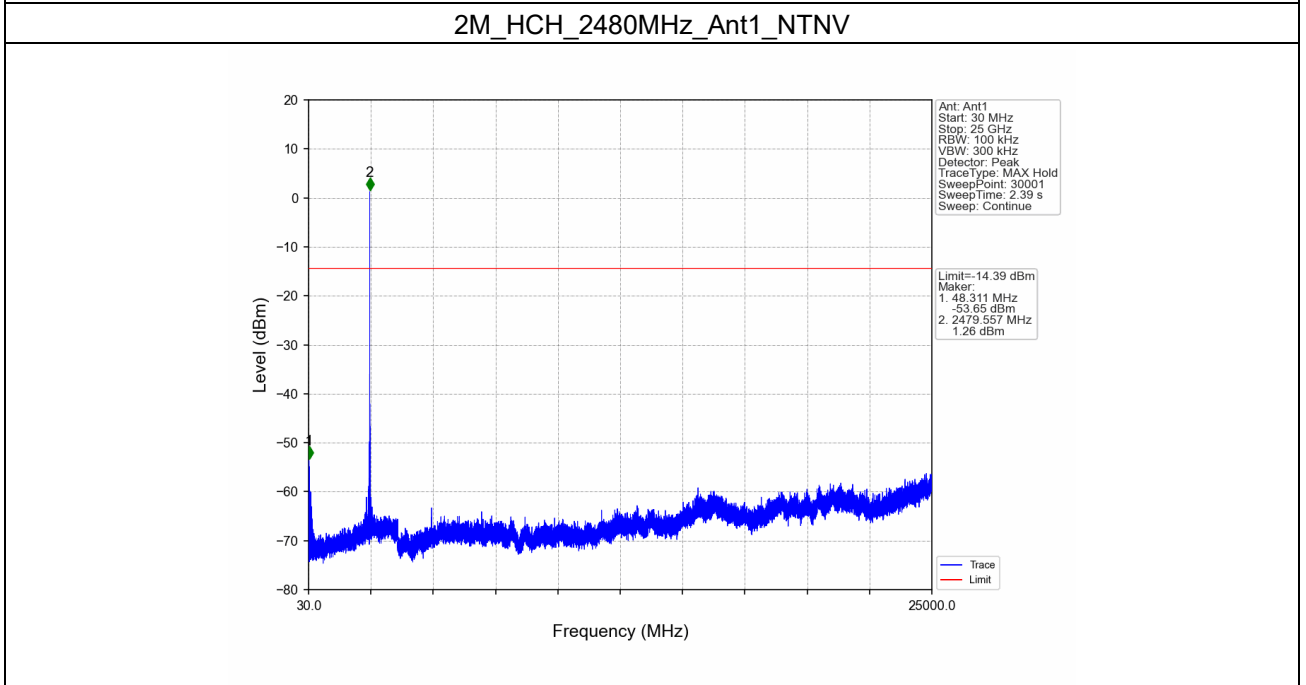
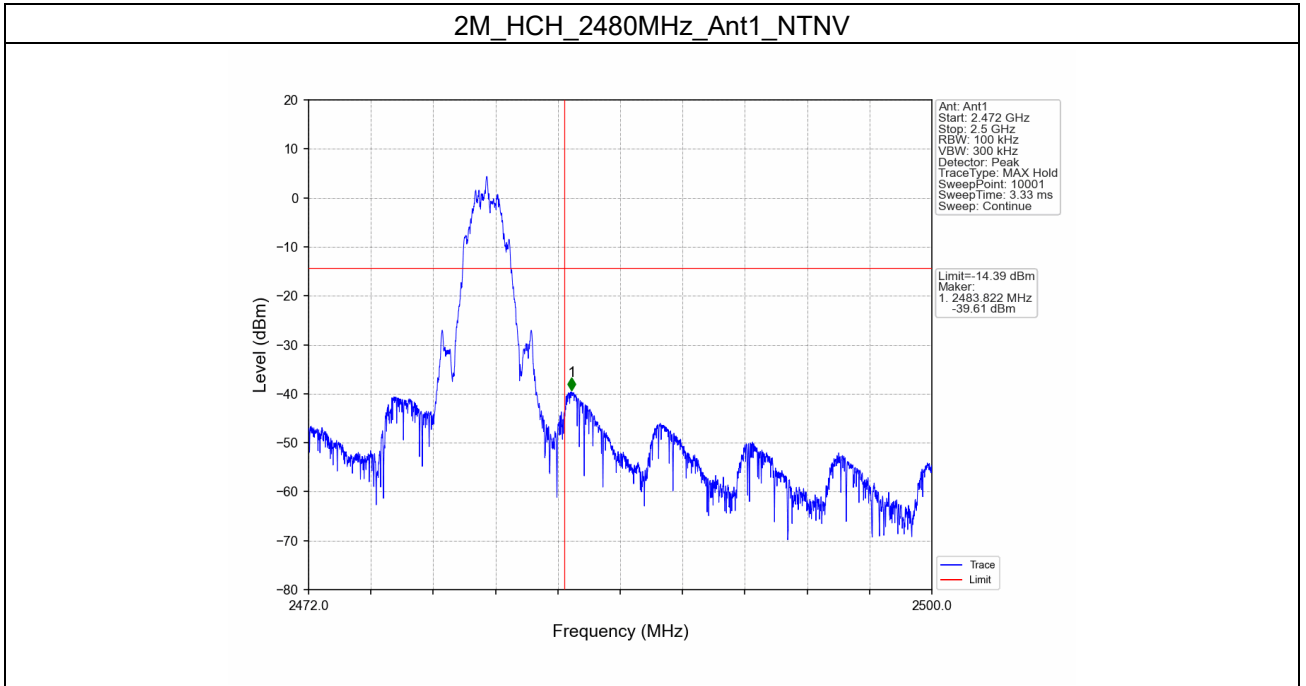


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