

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250700175501

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TEST REPORT

Application No.:	SHCR2507001755HS
FCC ID:	2AT72-LEDPANEL
IC:	25565-LEDPANEL
Applicant:	VIS (Shanghai) Technology Limited
Address of Applicant:	No.58 Linsheng Road, Tinglin Town, Jinshan District, Shanghai, China
Manufacturer:	FAQ GmbH
Address of Manufacturer:	Schmiedengasse 31, 4500 Solothurn, Switzerland
Factory:	VIS (Shanghai) Technology Limited
Address of Factory:	No.58 Linsheng Road, Tinglin Town, Jinshan District, Shanghai, China
Equipment Under Test (EUT):	
EUT Name:	LED Panels
Model No.:	FAQ™ LED Panel, FAQ™ Dual LED Panel
Remark:	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	FAQ
Standard(s) :	47 CFR Part 15, Subpart C 15.247 RSS-247 Issue 3, August 2023 RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt:	2025-07-04
Date of Test:	2025-07-05 to 2025-07-30
Date of Issue:	2025-08-01

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

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Revision Record			
Version	Description	Date	Remark
00	Original	2025-08-01	/

Authorized for issue by:			
Tested By		Bill Wu/Project Engineer	
Approved By		Parlam Zhan / Reviewer	

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Customer Declaration

N/A: Not applicable

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207	RSS-Gen Clause 8.8	ANSI C63.10 (2013) Section 6.2	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Section 11.8.1	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.1	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.2	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.13.3.2	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. The difference between FAQ™ Dual LED Panel and FAQ™ LED Panel is FAQ™ Dual LED Panel is 2.5A adapter and FAQ™ LED Panel is 1.5A adapter, FAQ™ Dual LED Panel with Dual LED Panel and FAQ™ LED Panel with Single LED Panel, Consider the difference fully test was performance for FAQ™ Dual LED Panel, And FAQ™ LED Panel was performance with RSE test.

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4 General Information

4.1 Details of E.U.T.

Power supply:	FAQ™ Dual LED Panel DC 24V 2.5A By Adapter Adapter: Model:GJ60WD-2400250DP Input:100-240V~50/60Hz Output:24V 2.5A FAQ™ LED Panel DC 24V 1.5A By Adapter Adapter: Model:GJ30WD-2400150P Input:100-240V~50/60Hz Output:24V 1.5A
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	0 dBi (Provided by manufacturer)
S/N:	fTRZz84eWazAjv
Firmware Version:	FAQ™ Dual LED Panel/ FAQ™ LED Panel F.REV.A

4.2 Power level setting using in test:

Channel	Power setting
0	-5.0
19	-5.0
39	-5.0

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	LENOVO	L460	-
Serial port adapter plate	-	Test Plate 3	-

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty cycle	0.4%
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)

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		5.9dB (Above 1GHz)
9	Radiated Spurious emission test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-6GHz)
		5.4dB (6GHz-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.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

- SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).
- 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).
- Sample source: sent by customer.

4.6 Test Facility

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

• A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

• VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

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5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2024/12/18	2025-12-17
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2024/12/18	2025-12-17
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2025-04-30	2026-04-29
Signal Generator	R&S	SMR20	SHEM006-1	2024-07-31	2025-07-30
Signal Generator	Agilent	N5182A	SHEM182-1	2024-07-31	2025-07-30
Communication Tester	R&S	CMW270	SHEM183-1	2025-04-30	2026-04-29
Communication Tester	R&S	CMW500	SHEM268-1	2025-04-30	2026-04-29
Power Sensor	Keysight	U2021XA * 4	SHEM293-1	2024-07-31	2025-07-30
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2024-11-05	2026-11-04
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2024/12/18	2025-12-17
DC Power Supply	HP	6010A	SHEM222-1	2024/12/18	2025-12-17
Conducted test Cable	/	RF01~RF04	/	2024/12/18	2025-12-17
Switcher	Tonscend	JS0806	SHEM293-1	2024-07-31	2025-07-30
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
Switcher+Power Sensor	TST	TSPS2023R	SHEM263-1	2024-07-31	2025-07-30
Test software	TST	TST PASS	Version: 2.0	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2024/12/18	2025-12-17
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2024/12/18	2025-12-17
Communication Tester	R&S	CMW500	SHEM268-1	2025-04-30	2026-04-29
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2024/12/18	2025-12-17
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2023-09-03	2025-09-02
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2025-04-12	2027-04-11
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2024-08-05	2026-08-04
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2023-09-03	2025-09-02
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2023-09-03	2025-09-02
Pre-Amplifier	HP	8447D	SHEM236-1	2024/12/18	2025-12-17
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2024/12/18	2025-12-17
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2023-05-06	2026-05-05
RE test Cable	/	PT18-NMNM-10M	SHEM217-2	2024/12/18	2025-12-17
Test software	ESE	E3	Version: 6.111221a	/	/

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 0 dBi.

Antenna location: Refer to internal photo.

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2020) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

7.1.1 E.U.T. Operation

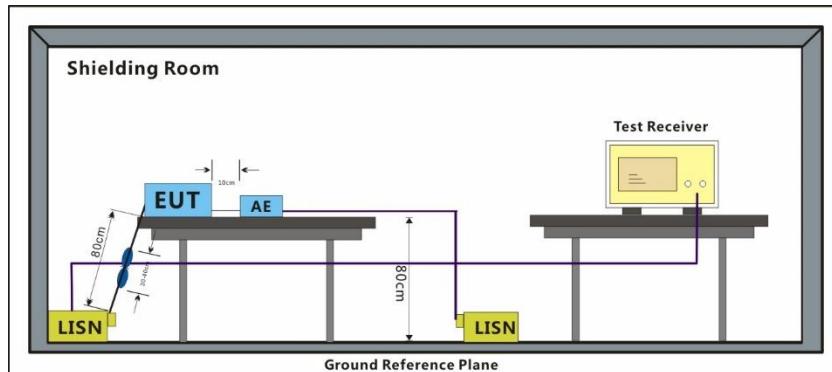
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.1.2 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.(FAQ™ Dual LED Panel)
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ Dual LED Panel)
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ LED Panel)
Pre-scan	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ LED Panel)

7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 μ H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark : Level=Read Level+ Cable Loss+ LISN Factor

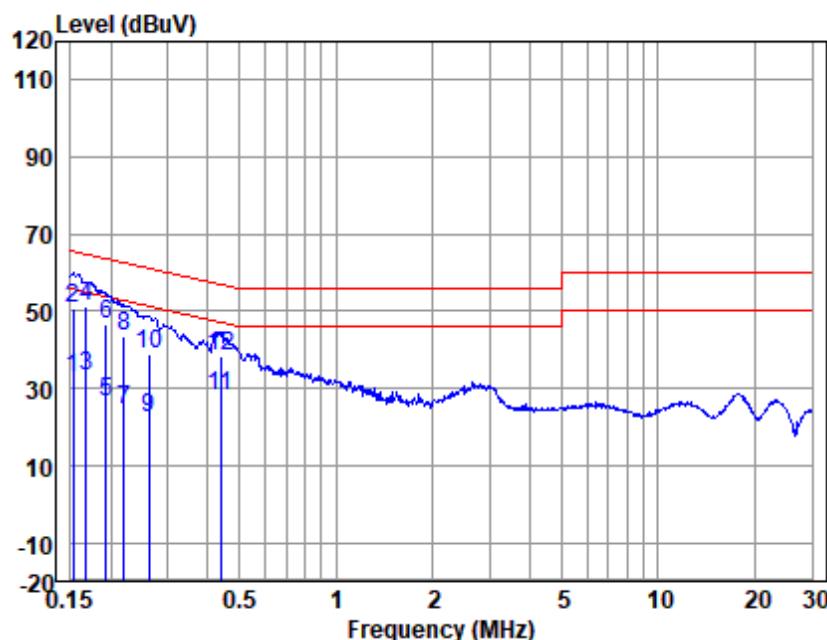
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Test Mode: 00; Line: Live line



LISN : LINE
EUT/Project No : 1755AT
Test Mode : 00

Freq (MHz)	Read level (dBuV)	LISN Factor	Cable Loss (dB)	Emission Level (dBuV)	Emission Limit (dBuV)	Over Limit (dB)	Remark
1 0.15	22.37	0.50	9.90	32.77	55.87	-23.10	Average
2 0.15	40.28	0.50	9.90	50.68	65.87	-15.19	QP
3 0.17	22.65	0.50	9.90	33.05	55.08	-22.03	Average
4 0.17	41.01	0.50	9.90	51.41	65.08	-13.67	QP
5 0.19	16.14	0.50	9.90	26.54	53.89	-27.35	Average
6 0.19	36.38	0.50	9.90	46.78	63.89	-17.11	QP
7 0.22	13.85	0.48	9.90	24.23	52.83	-28.60	Average
8 0.22	33.23	0.48	9.90	43.61	62.83	-19.22	QP
9 0.26	12.12	0.44	9.90	22.46	51.34	-28.88	Average
10 0.26	28.74	0.44	9.90	39.08	61.34	-22.26	QP
11 0.44	17.97	0.33	9.90	28.20	47.07	-18.87	Average
12 0.44	28.20	0.33	9.90	38.43	57.07	-18.64	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss

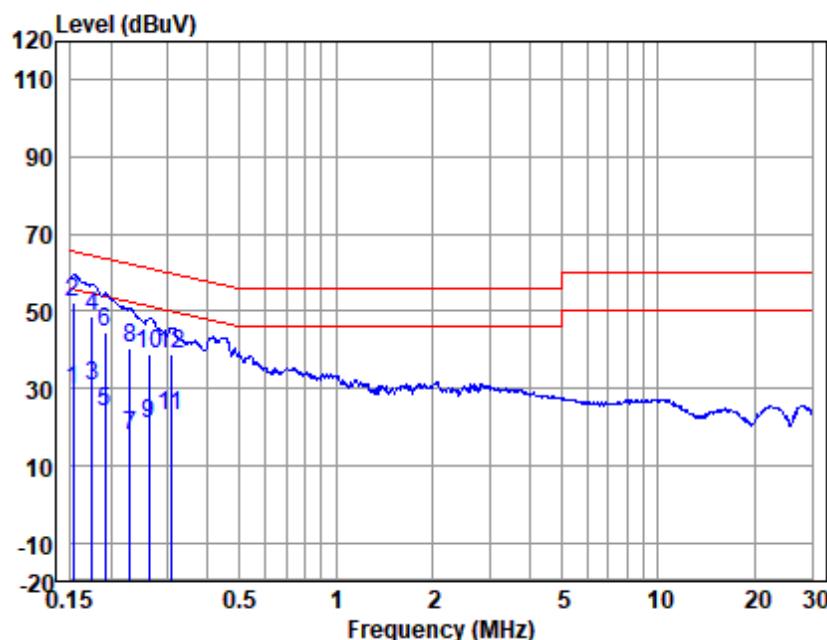
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Test Mode: 00; Line: Neutral Line



LISN : NEUTRAL
EUT/Project No : 1755AT
Test Mode : 00

Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Emission Limit (dBuV)	Over Limit (dB)	Remark
1 0.15	19.21	0.44	9.90	29.55	55.87	-26.32	Average
2 0.15	41.81	0.44	9.90	52.15	65.87	-13.72	QP
3 0.17	20.37	0.42	9.90	30.69	54.72	-24.03	Average
4 0.17	38.53	0.42	9.90	48.85	64.72	-15.87	QP
5 0.19	13.40	0.40	9.90	23.70	53.93	-30.23	Average
6 0.19	34.37	0.40	9.90	44.67	63.93	-19.26	QP
7 0.23	7.53	0.40	9.90	17.83	52.48	-34.65	Average
8 0.23	30.10	0.40	9.90	40.40	62.48	-22.08	QP
9 0.26	10.61	0.40	9.90	20.91	51.34	-30.43	Average
10 0.26	28.59	0.40	9.90	38.89	61.34	-22.45	QP
11 0.31	12.56	0.40	9.90	22.86	50.06	-27.20	Average
12 0.31	28.78	0.40	9.90	39.08	60.06	-20.98	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss

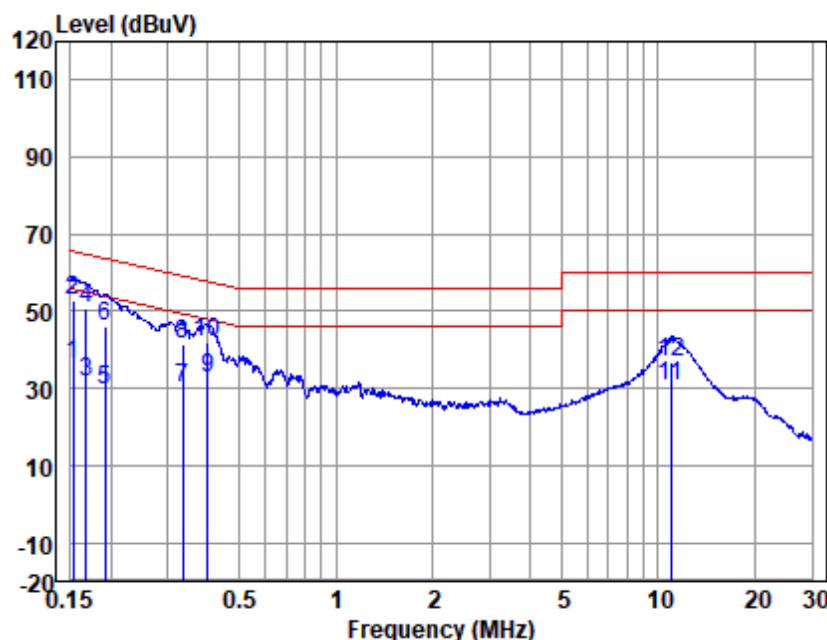
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Test Mode: 02; Line: Live line



LISN : LINE
EUT/Project No : 1755AT
Test Mode : 02

Freq (MHz)	Read level (dBuV)	LISN Factor	Cable Loss (dB)	Emission Level (dBuV)	Emission Limit (dBuV)	Over Limit (dB)	Remark
1 0.15	25.68	0.50	9.90	36.08	55.87	-19.79	Average
2 0.15	42.34	0.50	9.90	52.74	65.87	-13.13	QP
3 0.17	21.34	0.50	9.90	31.74	55.08	-23.34	Average
4 0.17	40.17	0.50	9.90	50.57	65.08	-14.51	QP
5 0.19	19.41	0.50	9.90	29.81	53.93	-24.12	Average
6 0.19	35.57	0.50	9.90	45.97	63.93	-17.96	QP
7 0.33	19.92	0.39	9.90	30.21	49.35	-19.14	Average
8 0.33	31.03	0.39	9.90	41.32	59.35	-18.03	QP
9 0.40	22.33	0.35	9.90	32.58	47.86	-15.28	Average
10 0.40	31.94	0.35	9.90	42.19	57.86	-15.67	QP
11 10.96	20.12	0.60	10.00	30.72	50.00	-19.28	Average
12 10.96	26.23	0.60	10.00	36.83	60.00	-23.17	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss

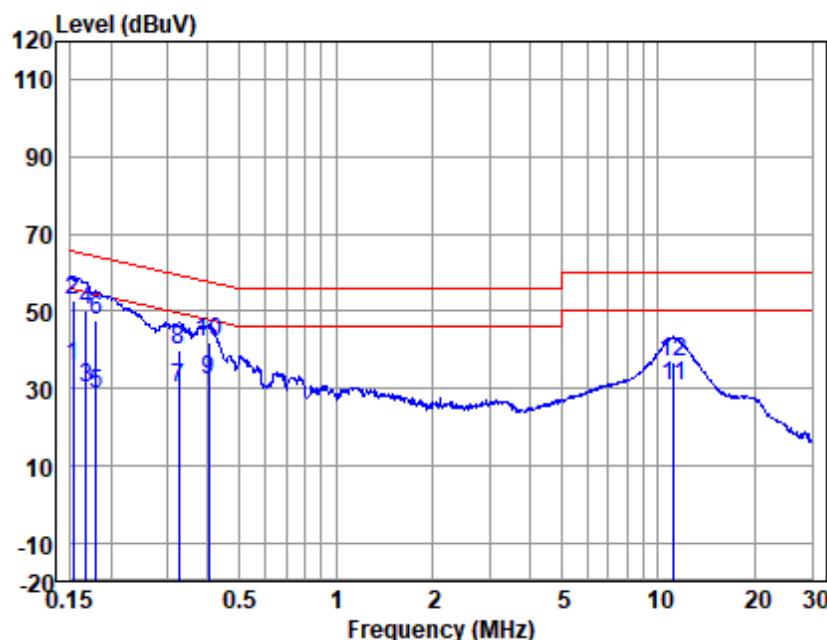
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Test Mode: 02; Line: Neutral Line



LISN : NEUTRAL
EUT/Project No : 1755AT
Test Mode : 02

Freq (MHz)	Read level (dBuV)	LISN Factor	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1 0.15	25.69	0.44	9.90	36.03	55.87	-19.84	Average
2 0.15	42.39	0.44	9.90	52.73	65.87	-13.14	QP
3 0.17	19.79	0.42	9.90	30.11	55.08	-24.97	Average
4 0.17	40.02	0.42	9.90	50.34	65.08	-14.74	QP
5 0.18	18.25	0.42	9.90	28.57	54.50	-25.93	Average
6 0.18	37.18	0.42	9.90	47.50	64.50	-17.00	QP
7 0.33	19.97	0.40	9.90	30.27	49.57	-19.30	Average
8 0.33	29.61	0.40	9.90	39.91	59.57	-19.66	QP
9 0.40	21.90	0.40	9.90	32.20	47.81	-15.61	Average
10 0.40	31.72	0.40	9.90	42.02	57.81	-15.79	QP
11 11.20	20.22	0.57	10.00	30.79	50.00	-19.21	Average
12 11.20	26.40	0.57	10.00	36.97	60.00	-23.03	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss

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7.2 Radiated Emissions which fall in the restricted bands

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

Test Method: ANSI C63.10 (2020) Section 6.10.5

Measurement Distance: 3m

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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % 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.(FAQ™ Dual LED Panel)
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ Dual LED Panel)
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ LED Panel)
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ LED Panel)

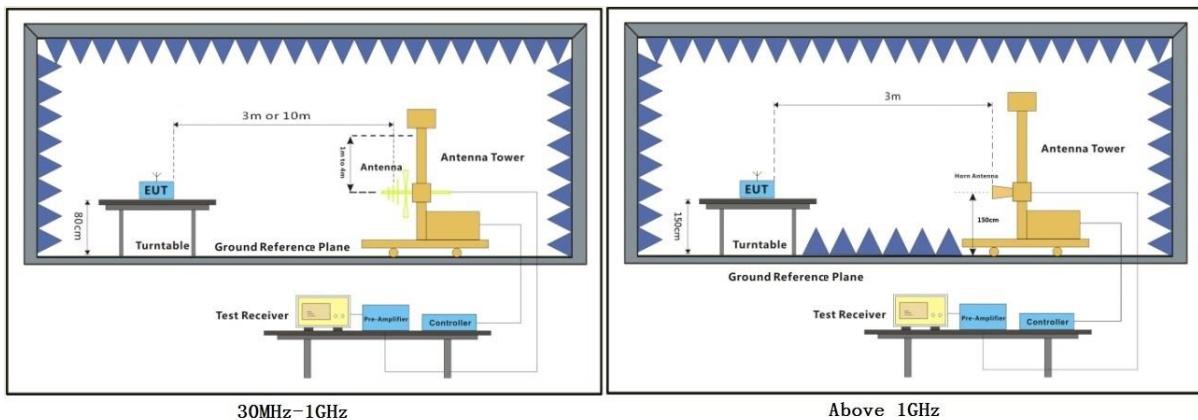
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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 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 peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

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

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

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $\leq 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

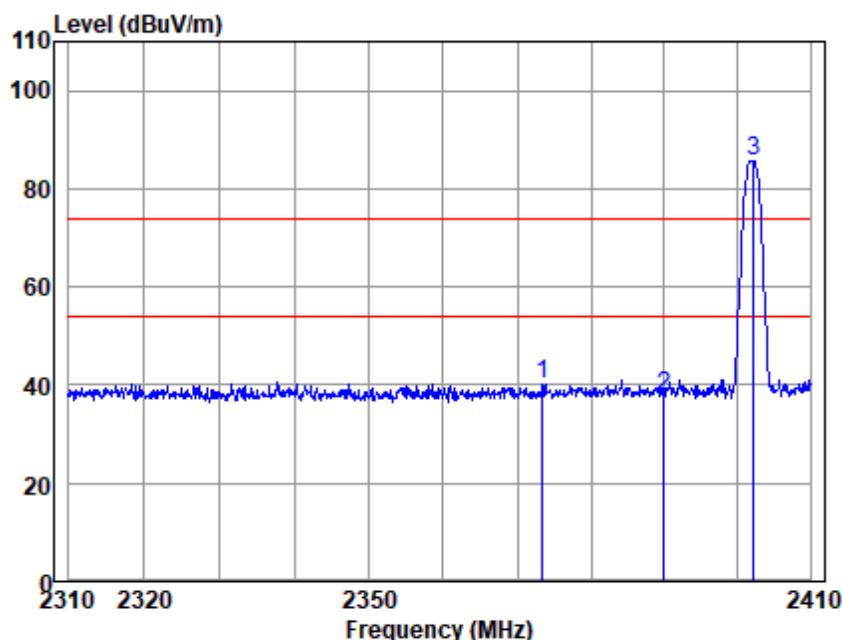
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2373.410	43.23	28.71	3.32	35.17	40.09	74.00	-33.91	Peak
2390.000	40.72	28.80	3.33	35.18	37.67	74.00	-36.33	Peak
2402.250	88.76	28.85	3.34	35.19	85.76	74.00	11.76	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

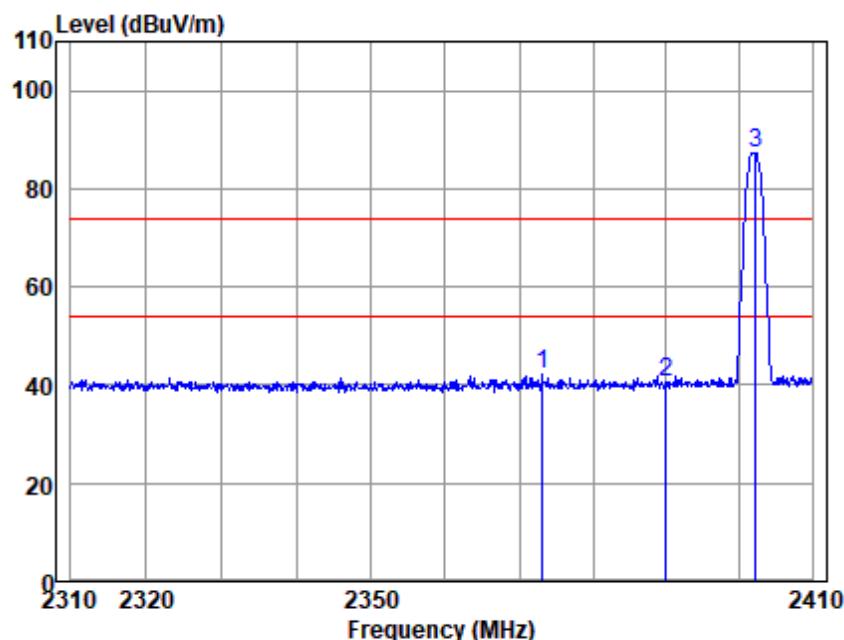
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Antenna Polarity : VERTICAL

EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2373.109	45.25	28.71	3.32	35.17	42.11	74.00	-31.89	Peak
2390.000	43.59	28.80	3.33	35.18	40.54	74.00	-33.46	Peak
2402.250	90.25	28.85	3.34	35.19	87.25	74.00	13.25	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

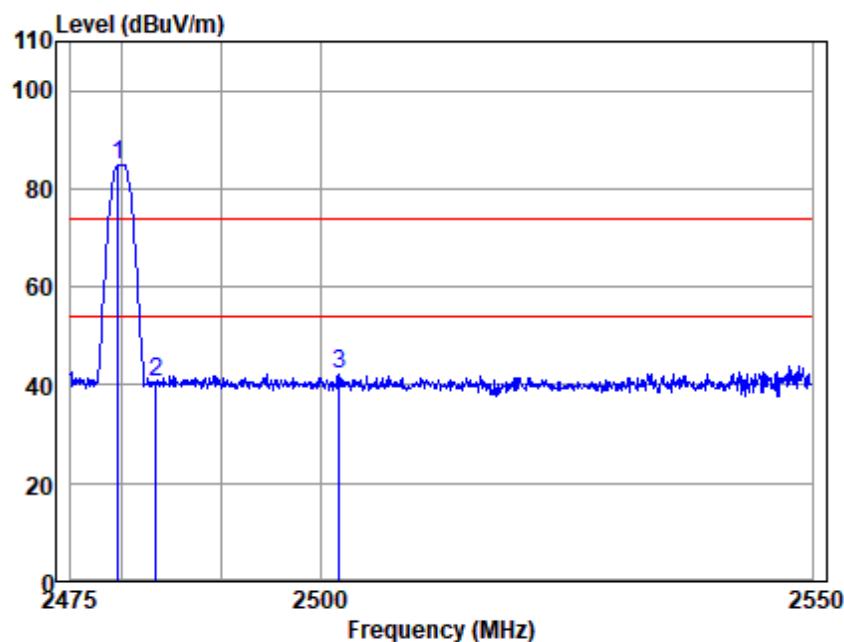
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Antenna Polarity :HORIZONTAL
EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.733	87.80	29.08	3.40	35.25	85.03	74.00	11.03	Peak
2483.500	43.34	29.09	3.41	35.26	40.58	74.00	-33.42	Peak
2501.892	45.00	29.12	3.42	35.27	42.27	74.00	-31.73	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

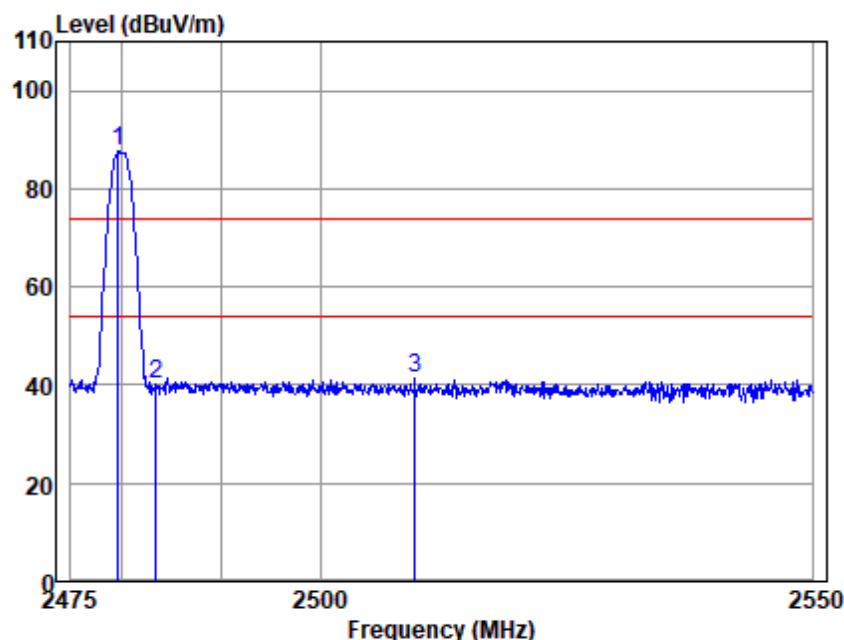
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Antenna Polarity : VERTICAL
EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.733	90.25	29.08	3.40	35.25	87.48	74.00	13.48	Peak
2483.500	42.84	29.09	3.41	35.26	40.08	74.00	-33.92	Peak
2509.522	44.08	29.13	3.43	35.28	41.36	74.00	-32.64	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

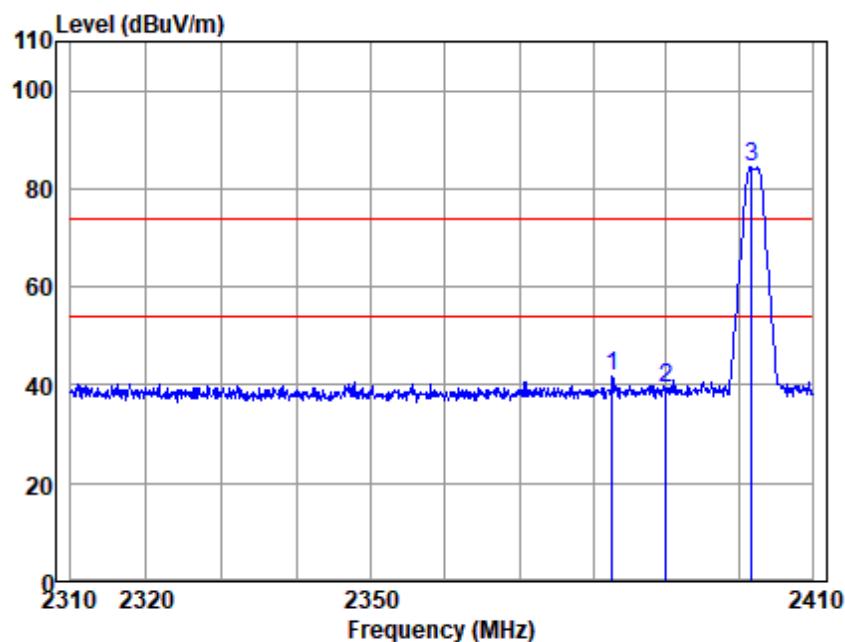
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Antenna Polarity :HORIZONTAL
EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2382.682	44.72	28.76	3.32	35.17	41.63	74.00	-32.37	Peak
2390.000	42.25	28.80	3.33	35.18	39.20	74.00	-34.80	Peak
2401.640	87.40	28.85	3.34	35.19	84.40	74.00	10.40	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

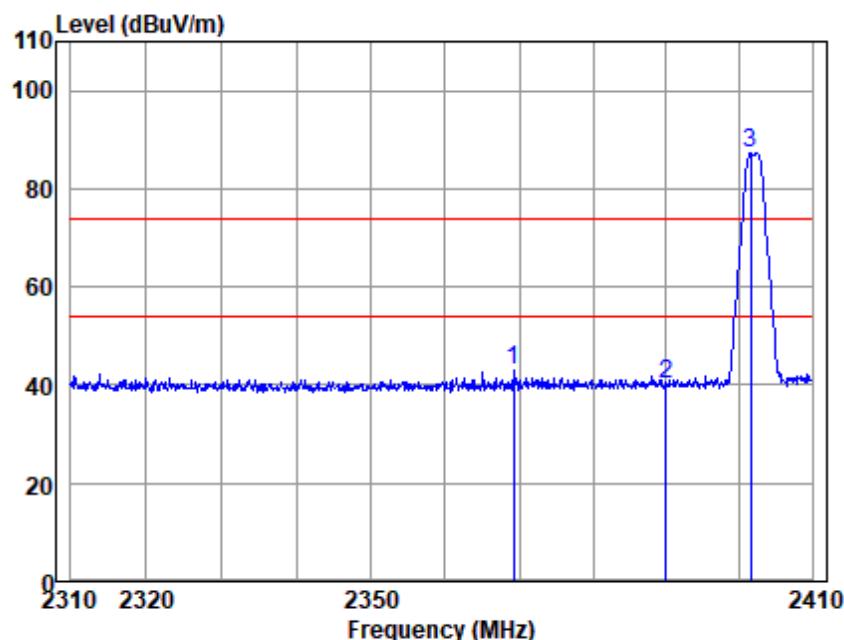
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Antenna Polarity :VERTICAL
EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2369.189	46.00	28.68	3.31	35.16	42.83	74.00	-31.17	Peak
2390.000	43.36	28.80	3.33	35.18	40.31	74.00	-33.69	Peak
2401.538	90.27	28.85	3.34	35.19	87.27	74.00	13.27	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

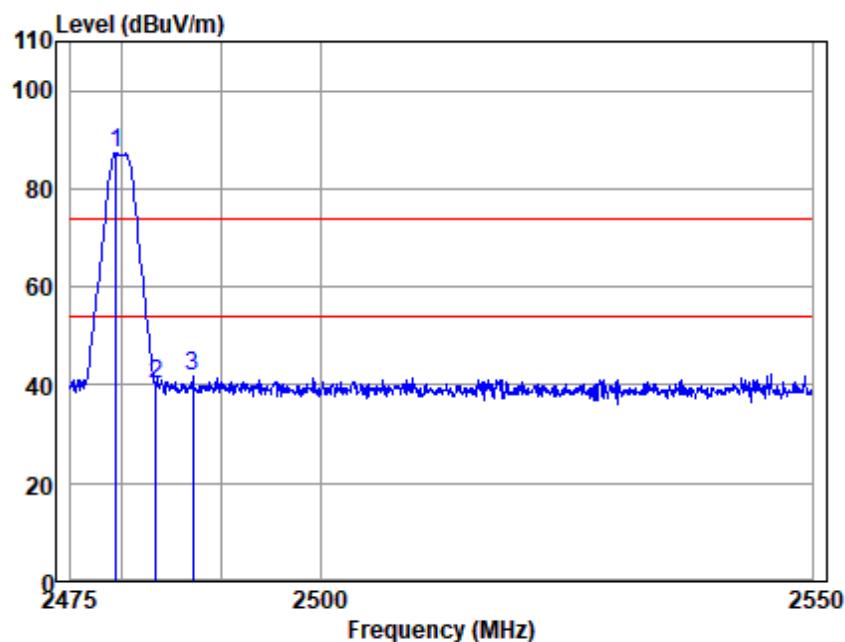
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Antenna Polarity :HORIZONTAL
EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.511	89.99	29.08	3.40	35.25	87.22	74.00	13.22	Peak
2483.500	43.08	29.09	3.41	35.26	40.32	74.00	-33.68	Peak
2487.221	44.52	29.09	3.41	35.26	41.76	74.00	-32.24	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

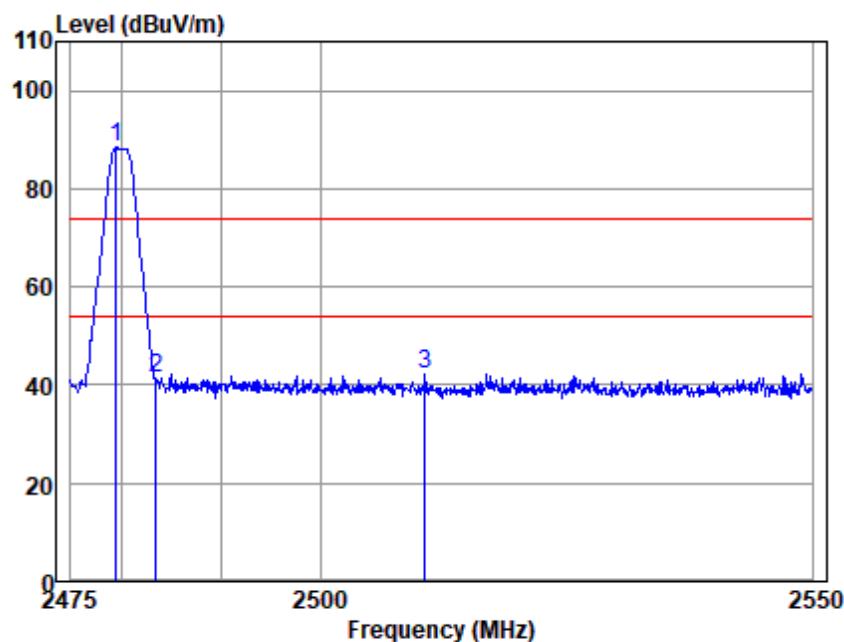
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Antenna Polarity : VERTICAL
EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.511	91.08	29.08	3.40	35.25	88.31	74.00	14.31	Peak
2483.500	44.21	29.09	3.41	35.26	41.45	74.00	-32.55	Peak
2510.571	44.96	29.13	3.43	35.28	42.24	74.00	-31.76	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

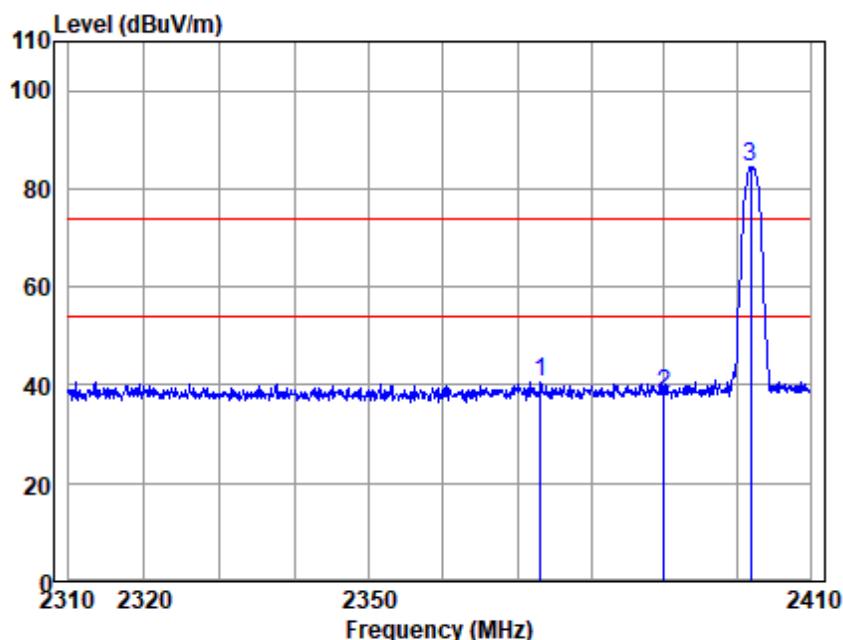
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Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2373.209	43.73	28.71	3.32	35.17	40.59	74.00	-33.41	Peak
2390.000	41.08	28.80	3.33	35.18	38.03	74.00	-35.97	Peak
2401.843	87.27	28.85	3.34	35.19	84.27	74.00	10.27	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

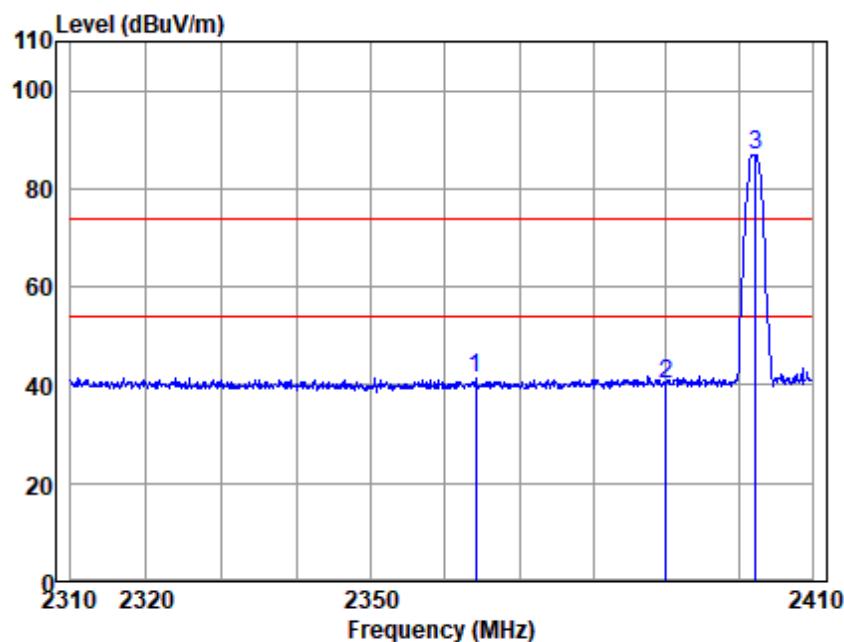
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Antenna Polarity :VERTICAL
EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2364.175	44.47	28.68	3.31	35.16	41.30	74.00	-32.70	Peak
2390.000	43.24	28.80	3.33	35.18	40.19	74.00	-33.81	Peak
2402.250	90.02	28.85	3.34	35.19	87.02	74.00	13.02	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

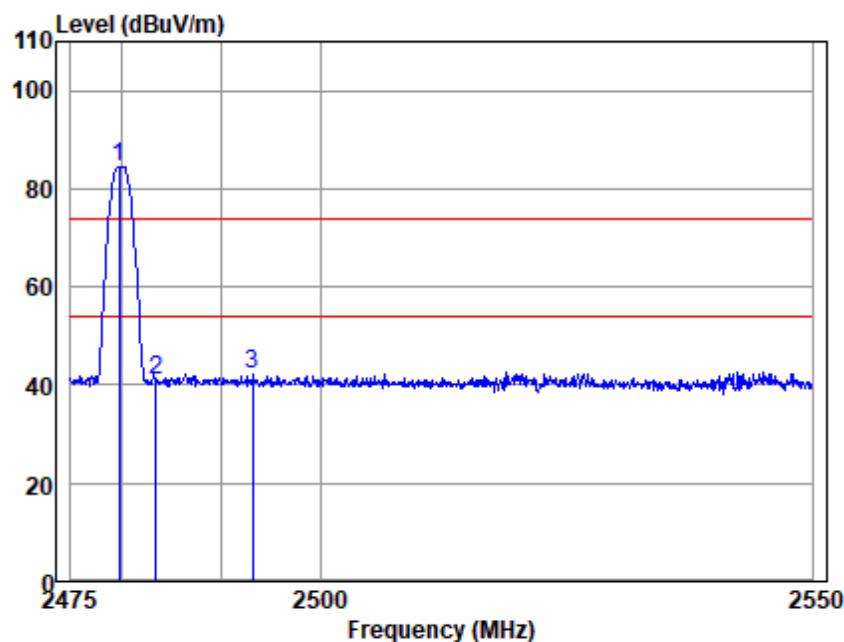
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Antenna Polarity :HORIZONTAL
EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2479.807	87.39	29.08	3.40	35.25	84.62	74.00	10.62	Peak
2483.500	43.89	29.09	3.41	35.26	41.13	74.00	-32.87	Peak
2493.243	45.14	29.10	3.41	35.26	42.39	74.00	-31.61	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

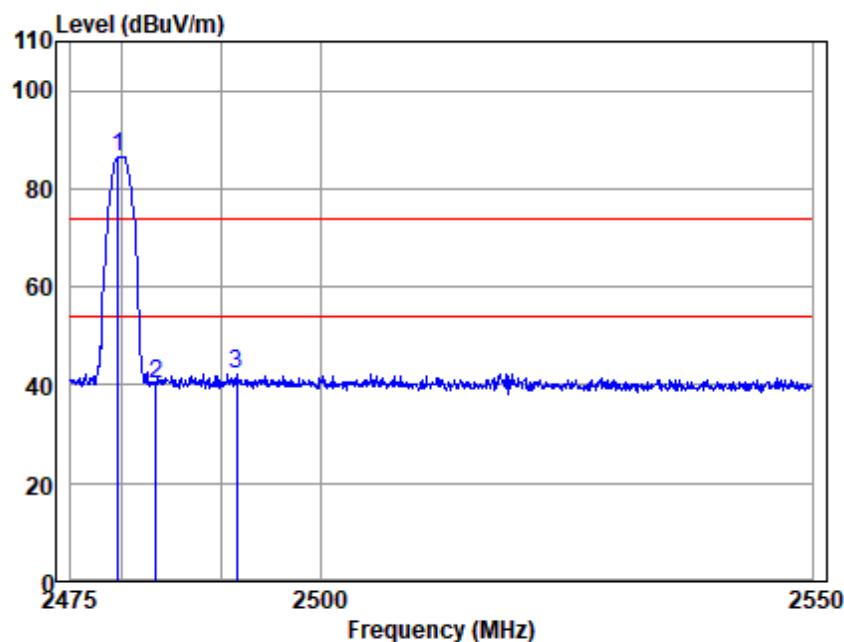
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Antenna Polarity : VERTICAL
EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.733	89.38	29.08	3.40	35.25	86.61	74.00	12.61	Peak
2483.500	42.92	29.09	3.41	35.26	40.16	74.00	-33.84	Peak
2491.606	44.99	29.10	3.41	35.26	42.24	74.00	-31.76	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

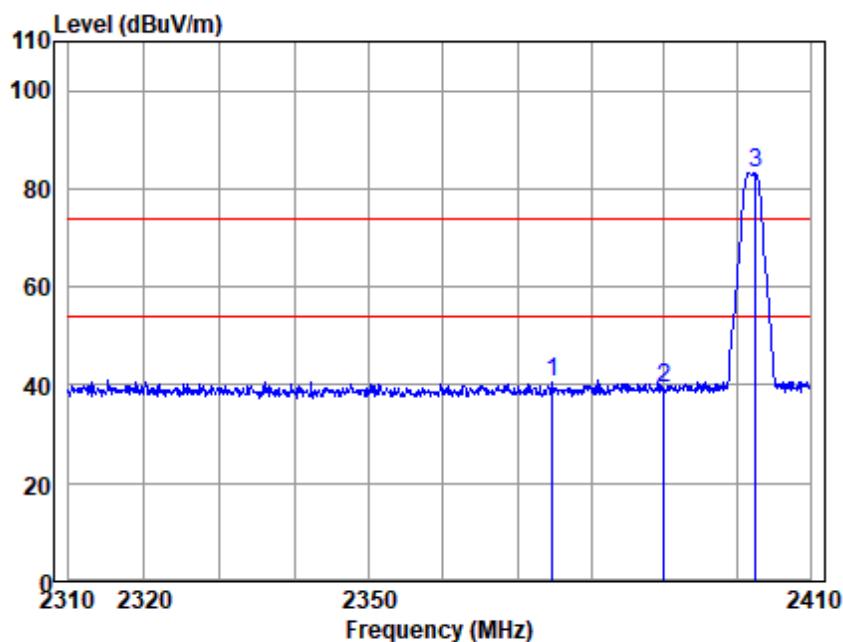
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2374.819	43.56	28.71	3.32	35.17	40.42	74.00	-33.58	Peak
2390.000	42.27	28.80	3.33	35.18	39.22	74.00	-34.78	Peak
2402.454	86.29	28.85	3.34	35.19	83.29	74.00	9.29	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

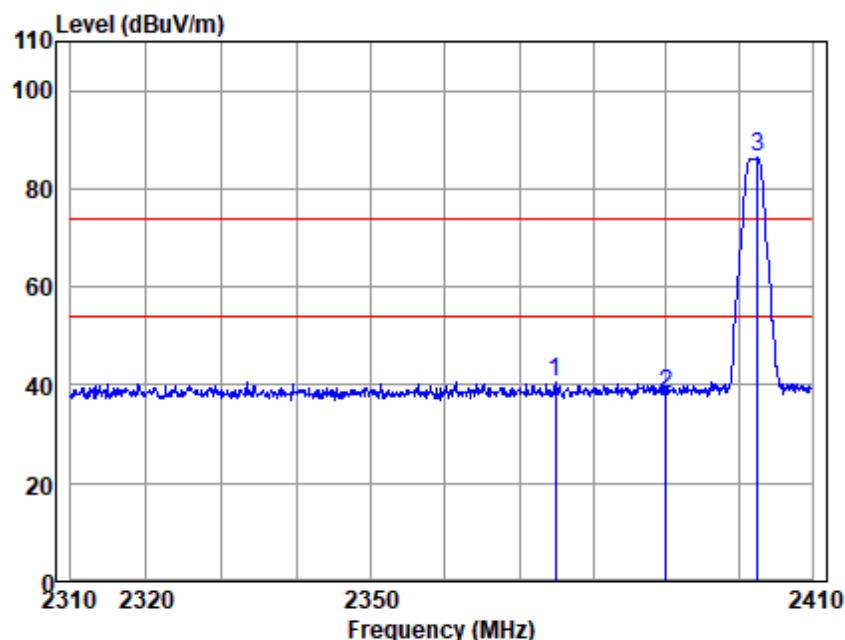
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Antenna Polarity : VERTICAL

EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2374.919	43.90	28.71	3.32	35.17	40.76	74.00	-33.24	Peak
2390.000	41.22	28.80	3.33	35.18	38.17	74.00	-35.83	Peak
2402.454	89.29	28.85	3.34	35.19	86.29	74.00	12.29	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

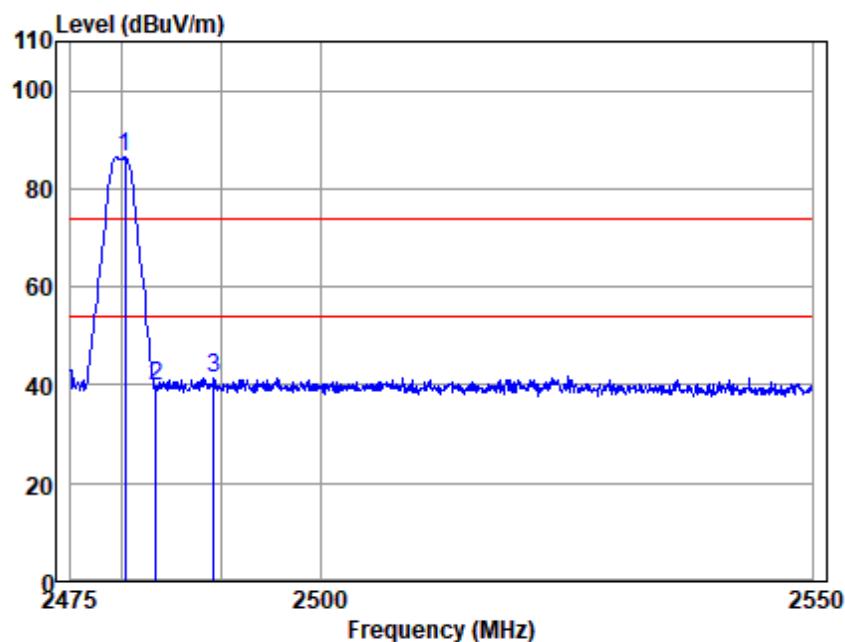
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Antenna Polarity :HORIZONTAL
EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2480.474	89.16	29.08	3.40	35.25	86.39	74.00	12.39	Peak
2483.500	42.38	29.09	3.41	35.26	39.62	74.00	-34.38	Peak
2489.301	44.19	29.10	3.41	35.26	41.44	74.00	-32.56	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

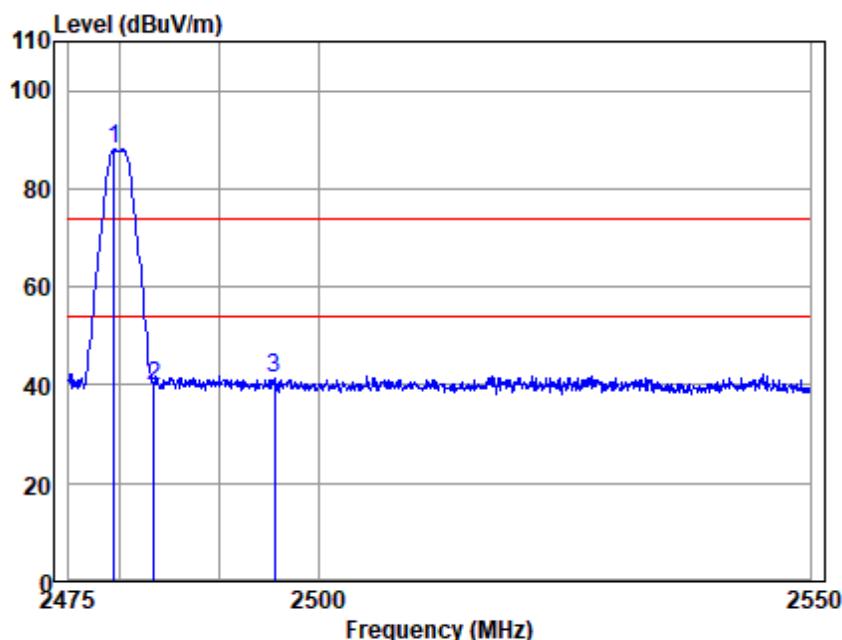
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Antenna Polarity : VERTICAL

EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.511	90.79	29.08	3.40	35.25	88.02	74.00	14.02	Peak
2483.500	42.38	29.09	3.41	35.26	39.62	74.00	-34.38	Peak
2495.551	44.24	29.10	3.41	35.26	41.49	74.00	-32.51	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

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7.3 Radiated Spurious Emissions Below 1GHz

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

Test Method: ANSI C63.10 (2020) Section 6.4,6.5

Measurement Distance: 3m

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C Humidity: 50 % 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.(FAQ™ Dual LED Panel)
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ Dual LED Panel)
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ LED Panel)
Pre-scan	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ LED Panel)

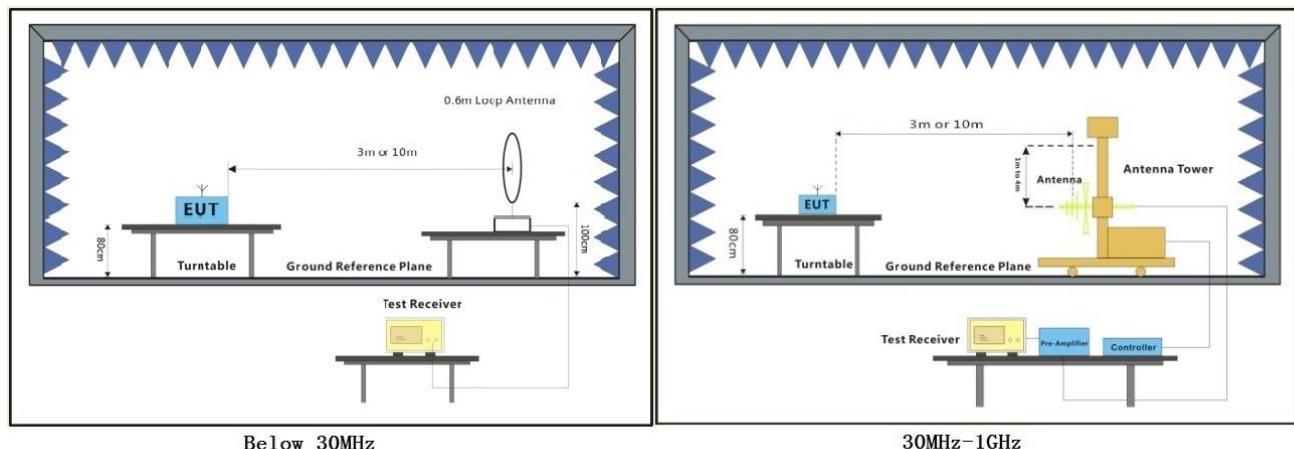
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7.3.3 Test Setup Diagram



7.3.4 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. 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.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

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

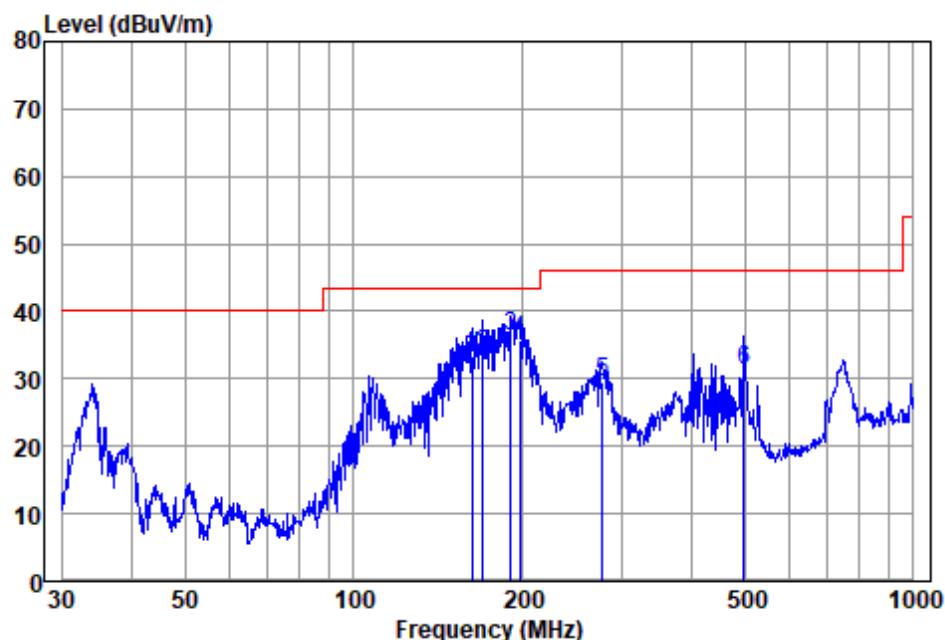
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Test Mode: 00; Polarity: Horizontal



Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Test mode :00

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	162.611	50.20	13.45	2.78	33.00	33.43	43.50	-10.07	QP
2	170.195	51.23	12.60	2.83	33.00	33.66	43.50	-9.84	QP
3	191.074	55.87	10.52	2.90	33.00	36.29	43.50	-7.21	QP
4	197.893	55.76	10.12	2.98	33.00	35.86	43.50	-7.64	QP
5	278.067	45.95	12.70	3.64	32.86	29.43	46.00	-16.57	QP
6	497.677	41.26	17.96	4.95	32.80	31.37	46.00	-14.63	QP

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

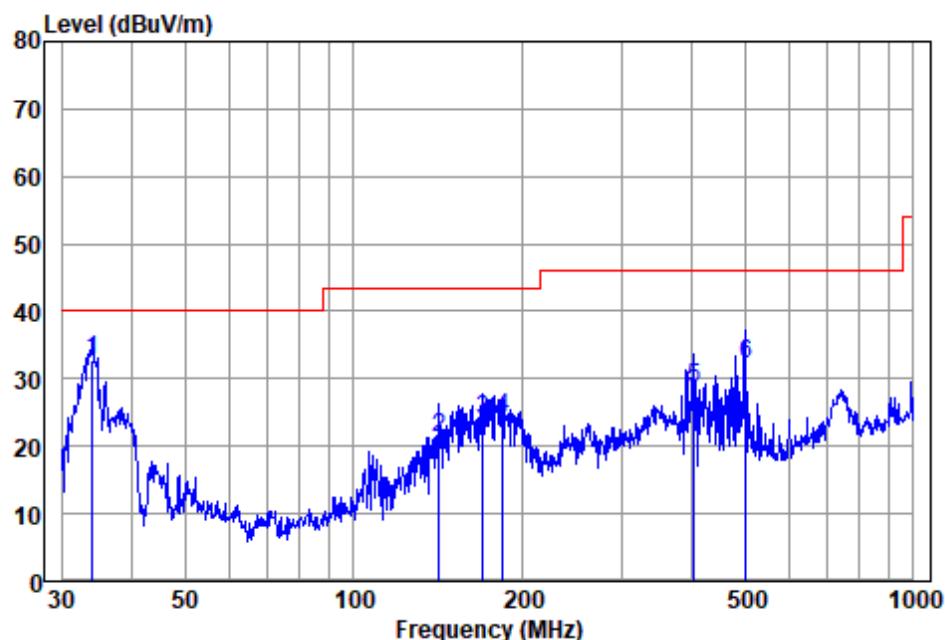
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Test Mode: 00; Polarity: Vertical



Antenna Polarity : VERTICAL

EUT/Project : 1755HS

Test mode : 00

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	34.156	52.17	12.42	1.25	33.20	32.64	40.00	-7.36 QP
2	141.826	38.46	13.20	2.62	33.03	21.25	43.50	-22.25 QP
3	170.195	41.46	12.60	2.83	33.00	23.89	43.50	-19.61 QP
4	184.490	43.17	11.07	2.86	33.00	24.10	43.50	-19.40 QP
5	406.088	41.14	15.86	4.39	32.79	28.60	46.00	-17.40 QP
6	501.179	42.02	18.02	4.97	32.80	32.21	46.00	-13.79 QP

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

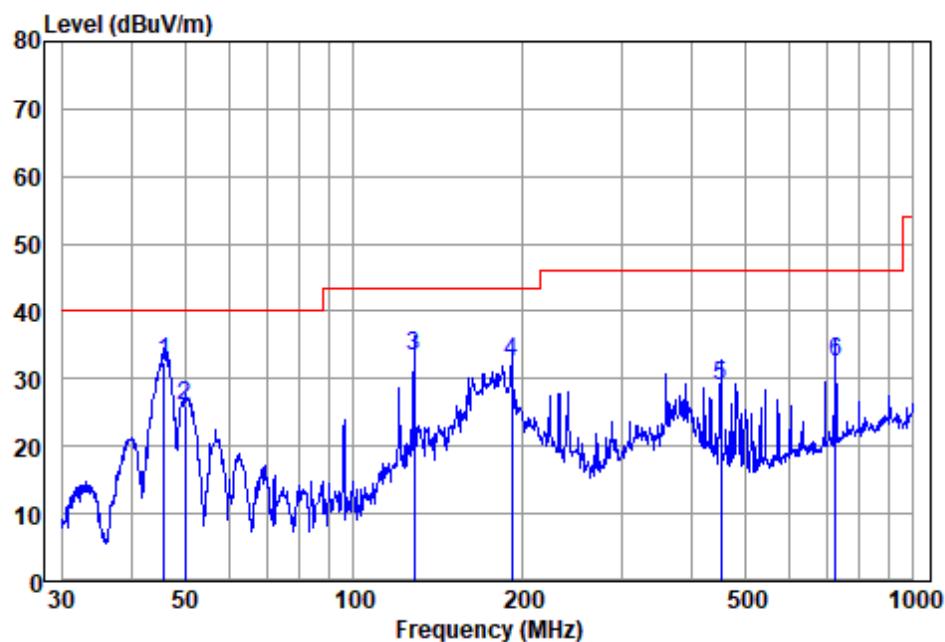
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Test Mode: 02; Polarity: Horizontal



Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Test mode :02

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	45.855	50.58	13.78	1.40	33.20	32.56	40.00	-7.44 QP
2	49.881	43.70	13.92	1.45	33.20	25.87	40.00	-14.13 QP
3	128.113	52.14	11.90	2.43	33.08	33.39	43.50	-10.11 QP
4	191.745	51.94	10.48	2.91	33.00	32.33	43.50	-11.17 QP
5	452.720	39.56	17.26	4.78	32.70	28.90	46.00	-17.10 QP
6	724.261	37.41	21.60	6.03	32.45	32.59	46.00	-13.41 QP

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

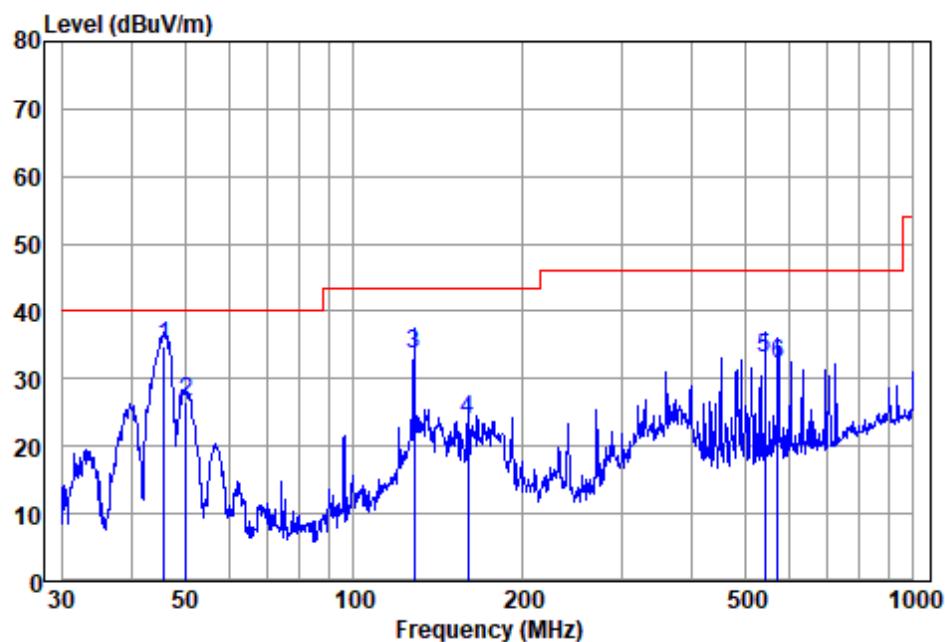
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Test Mode: 02; Polarity: Vertical



Antenna Polarity : VERTICAL

EUT/Project : 1755HS

Test mode : 02

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	45.855	52.94	13.78	1.40	33.20	34.92	40.00	-5.08 QP
2	50.057	44.34	13.90	1.45	33.20	26.49	40.00	-13.51 QP
3	128.113	52.30	11.90	2.43	33.08	33.55	43.50	-9.95 QP
4	159.784	40.54	13.60	2.69	33.00	23.83	43.50	-19.67 QP
5	543.274	41.84	18.70	5.18	32.71	33.01	46.00	-12.99 QP
6	572.614	40.33	19.26	5.32	32.75	32.16	46.00	-13.84 QP

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

7.4 Radiated Spurious Emissions Above 1GHz

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

Test Method: ANSI C63.10 (2020) Section 6.6

Measurement Distance: 3m

Limit:

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

7.4.1 E.U.T. Operation

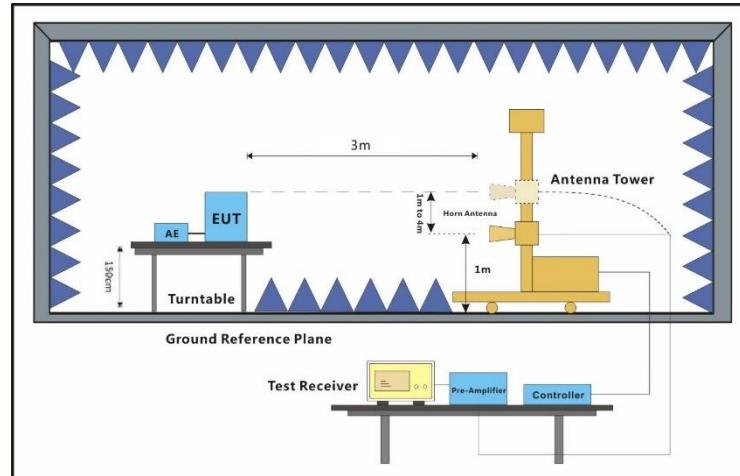
Operating Environment:

Temperature: 22 °C Humidity: 50 % 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.(FAQ™ Dual LED Panel)
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ Dual LED Panel)
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ LED Panel)
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ LED Panel)

7.4.3 Test Setup Diagram



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7.4.4 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.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

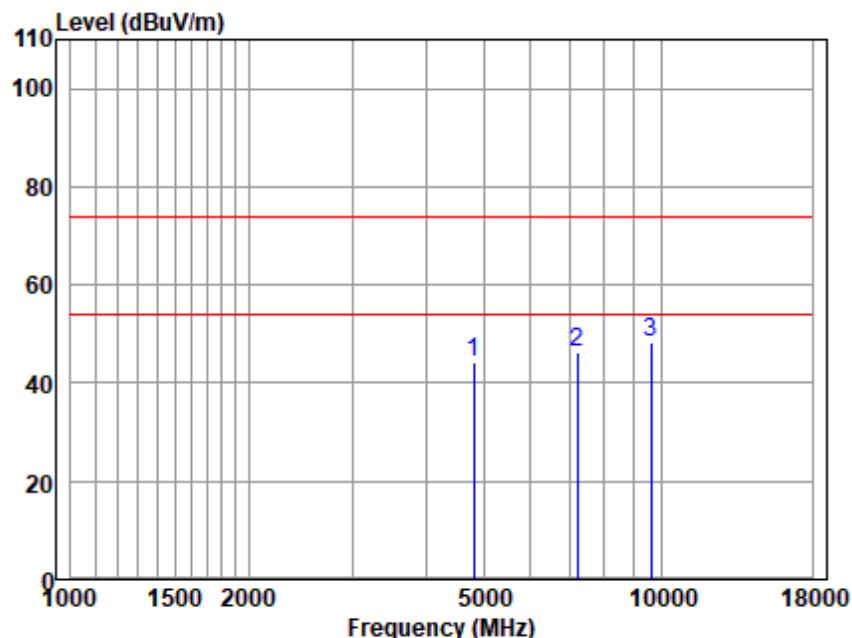
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4804.110	42.22	33.57	5.23	36.79	44.23	74.00	-29.77	Peak
7200.309	38.21	36.24	7.33	35.53	46.25	74.00	-27.75	Peak
9613.430	35.24	37.75	8.74	33.58	48.15	74.00	-25.85	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

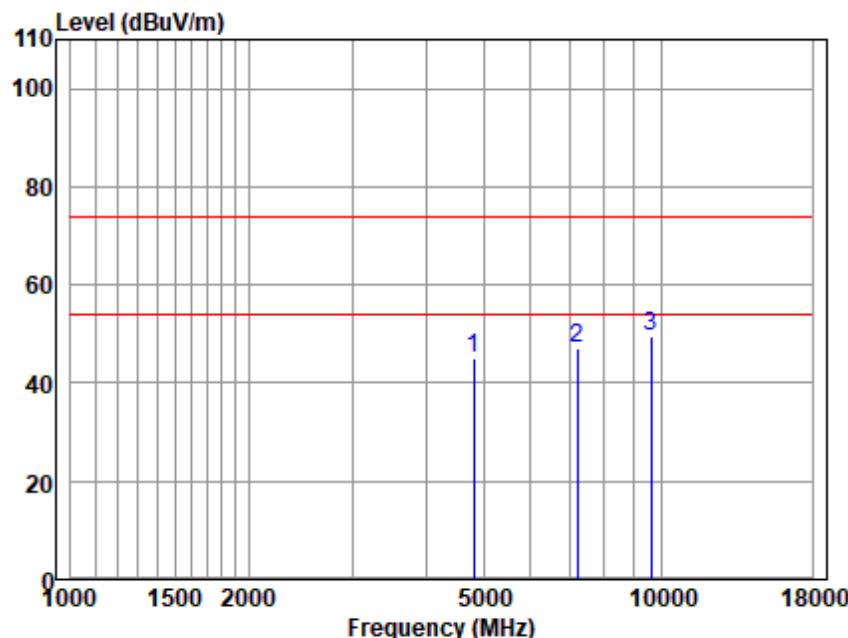
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Antenna Polarity : VERTICAL

EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.110	43.05	33.57	5.23	36.79	45.06	74.00	-28.94	Peak
7200.309	38.96	36.24	7.33	35.53	47.00	74.00	-27.00	Peak
9613.430	36.73	37.75	8.74	33.58	49.64	74.00	-24.36	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

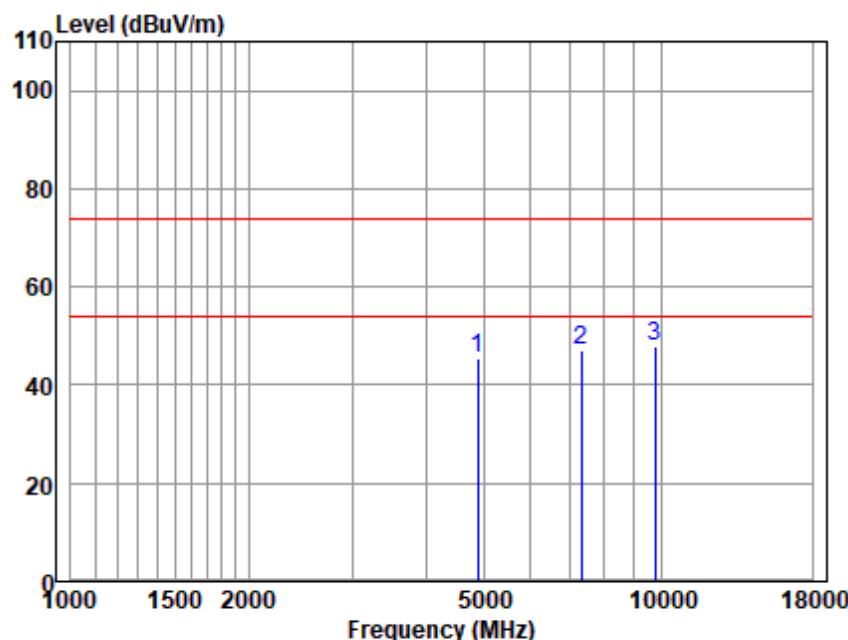
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4880.043	43.38	33.66	5.28	36.81	45.51	74.00	-28.49	Peak
7326.267	38.63	36.33	7.44	35.42	46.98	74.00	-27.02	Peak
9753.371	35.07	37.54	8.80	33.50	47.91	74.00	-26.09	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

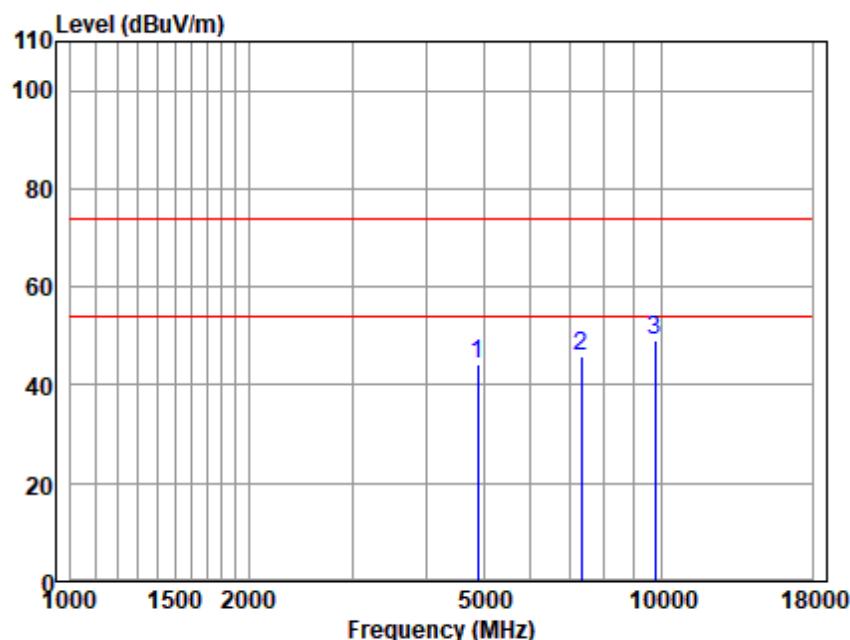
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Antenna Polarity :VERTICAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4880.043	41.99	33.66	5.28	36.81	44.12	74.00	-29.88	Peak
7326.267	37.46	36.33	7.44	35.42	45.81	74.00	-28.19	Peak
9753.371	36.13	37.54	8.80	33.50	48.97	74.00	-25.03	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

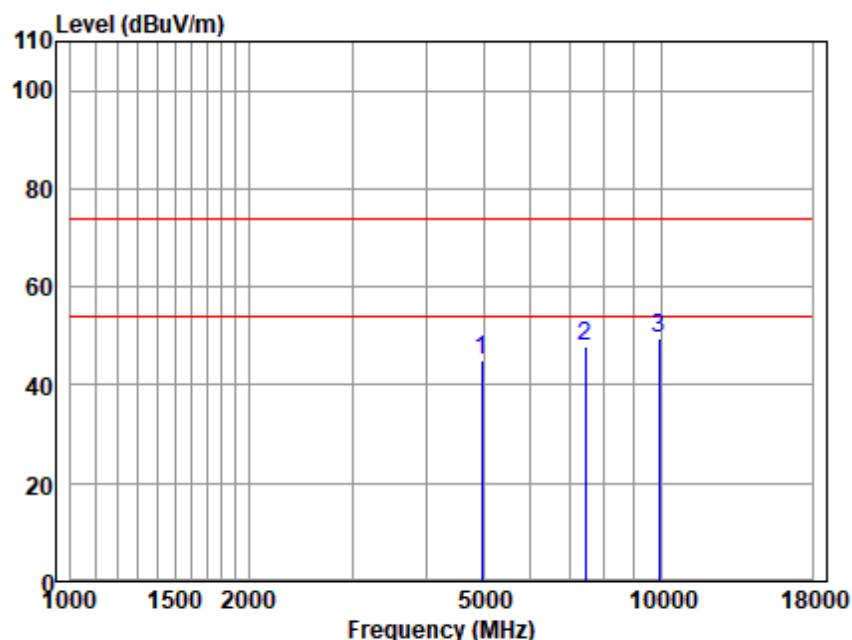
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.307	42.76	33.65	5.34	36.83	44.92	74.00	-29.08	Peak
7432.914	39.35	36.31	7.53	35.34	47.85	74.00	-26.15	Peak
9923.991	36.38	37.62	8.88	33.41	49.47	74.00	-24.53	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

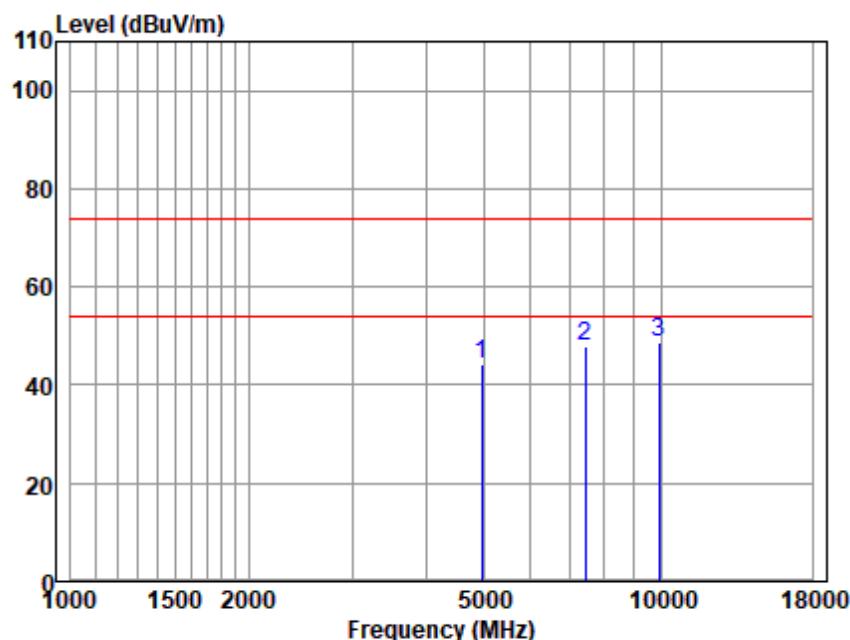
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Antenna Polarity : VERTICAL

EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over dB	Remark
4960.307	42.15	33.65	5.34	36.83	44.31	74.00	-29.69	Peak	
7432.914	39.25	36.31	7.53	35.34	47.75	74.00	-26.25	Peak	
9923.991	35.62	37.62	8.88	33.41	48.71	74.00	-25.29	Peak	

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

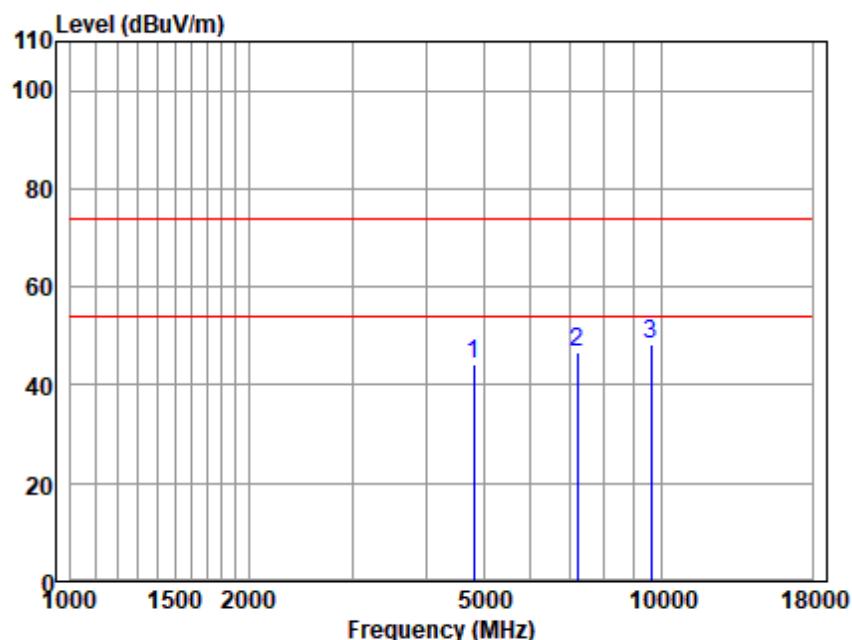
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4804.110	42.08	33.57	5.23	36.79	44.09	74.00	-29.91	Peak
7200.309	38.82	36.24	7.33	35.53	46.86	74.00	-27.14	Peak
9613.430	35.48	37.75	8.74	33.58	48.39	74.00	-25.61	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

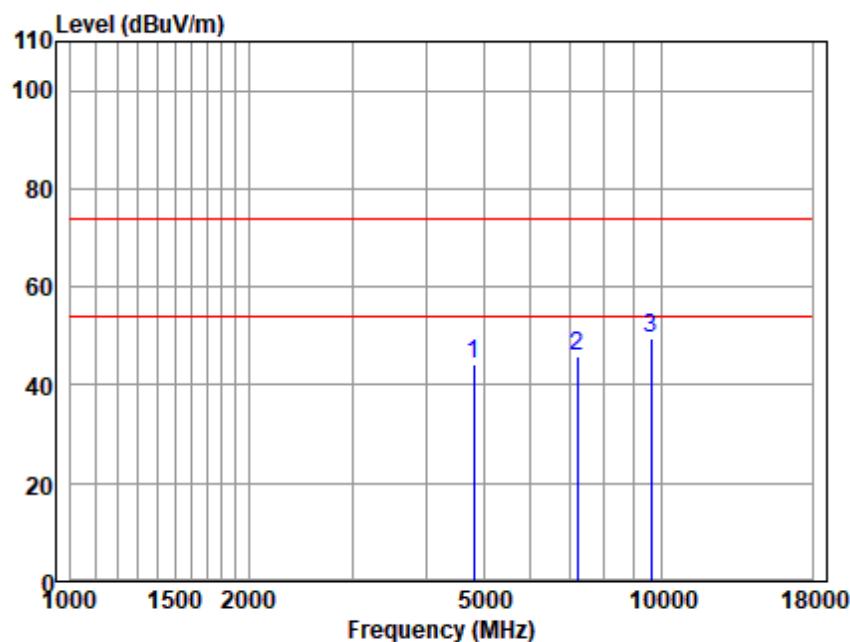
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Antenna Polarity :VERTICAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4804.110	42.17	33.57	5.23	36.79	44.18	74.00	-29.82	Peak
7200.309	37.97	36.24	7.33	35.53	46.01	74.00	-27.99	Peak
9613.430	36.69	37.75	8.74	33.58	49.60	74.00	-24.40	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

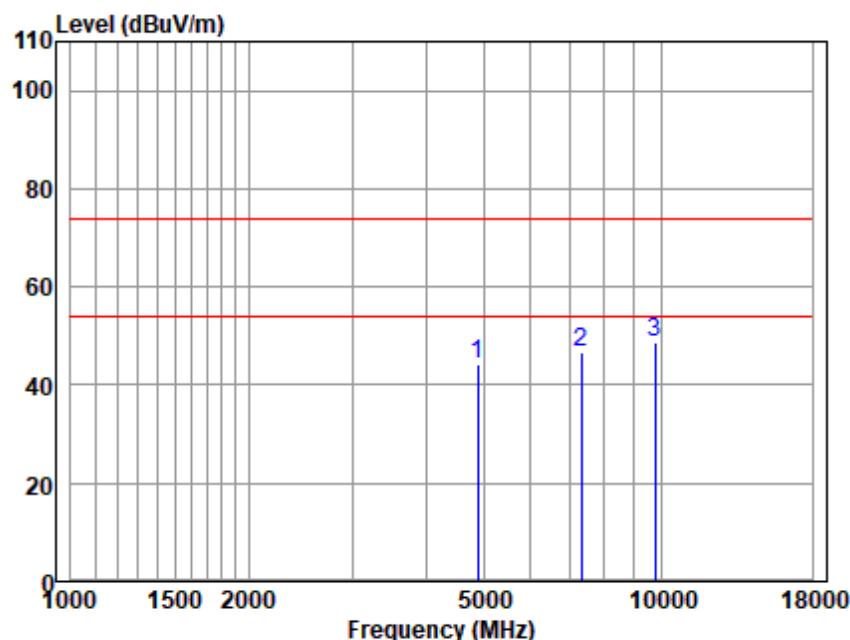
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4880.043	42.07	33.66	5.28	36.81	44.20	74.00	-29.80	Peak
7326.267	38.23	36.33	7.44	35.42	46.58	74.00	-27.42	Peak
9753.371	35.72	37.54	8.80	33.50	48.56	74.00	-25.44	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

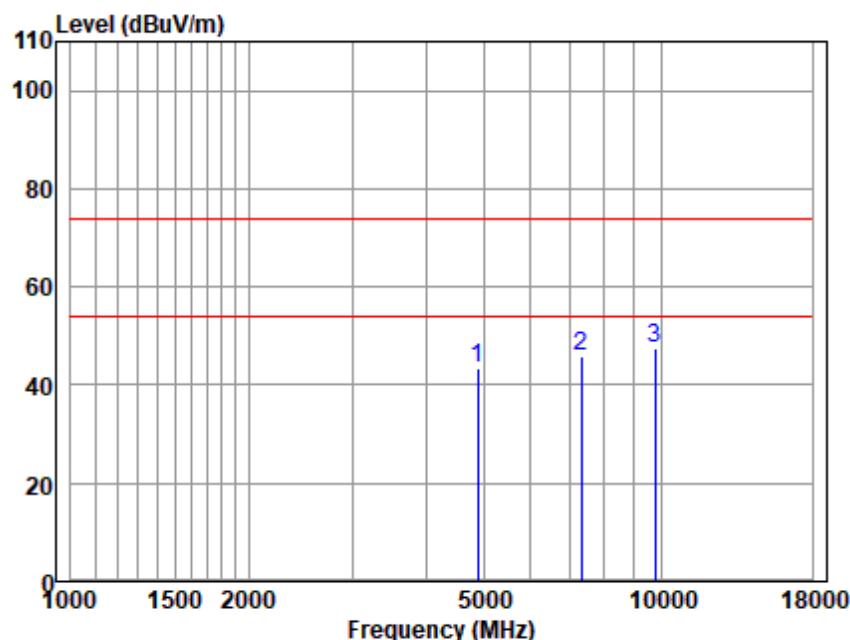
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle



Antenna Polarity : VERTICAL

EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.043	41.17	33.66	5.28	36.81	43.30	74.00	-30.70	Peak
7326.267	37.62	36.33	7.44	35.42	45.97	74.00	-28.03	Peak
9753.371	34.81	37.54	8.80	33.50	47.65	74.00	-26.35	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

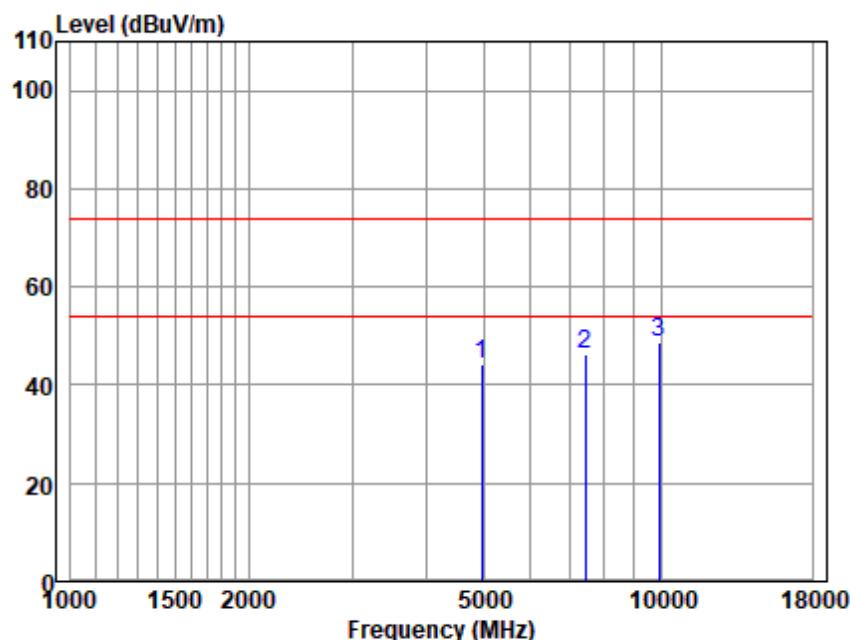
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High



Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4960.307	42.06	33.65	5.34	36.83	44.22	74.00	-29.78	Peak
7432.914	37.89	36.31	7.53	35.34	46.39	74.00	-27.61	Peak
9923.991	35.78	37.62	8.88	33.41	48.87	74.00	-25.13	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

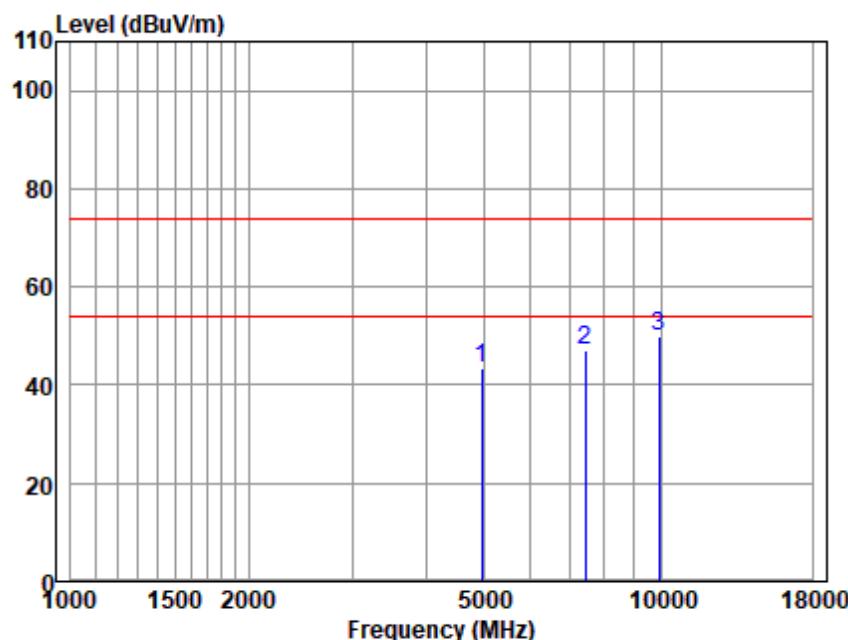
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



Antenna Polarity : VERTICAL

EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4960.307	41.34	33.65	5.34	36.83	43.50	74.00	-30.50	Peak
7432.914	38.69	36.31	7.53	35.34	47.19	74.00	-26.81	Peak
9923.991	36.86	37.62	8.88	33.41	49.95	74.00	-24.05	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

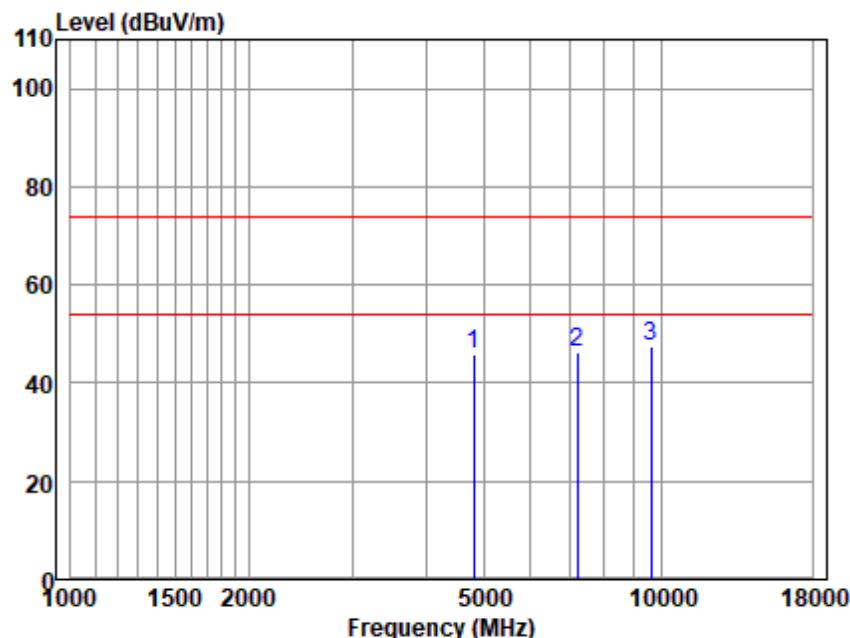
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4804.110	43.83	33.57	5.23	36.79	45.84	74.00	-28.16	Peak
7200.309	38.34	36.24	7.33	35.53	46.38	74.00	-27.62	Peak
9613.430	34.53	37.75	8.74	33.58	47.44	74.00	-26.56	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

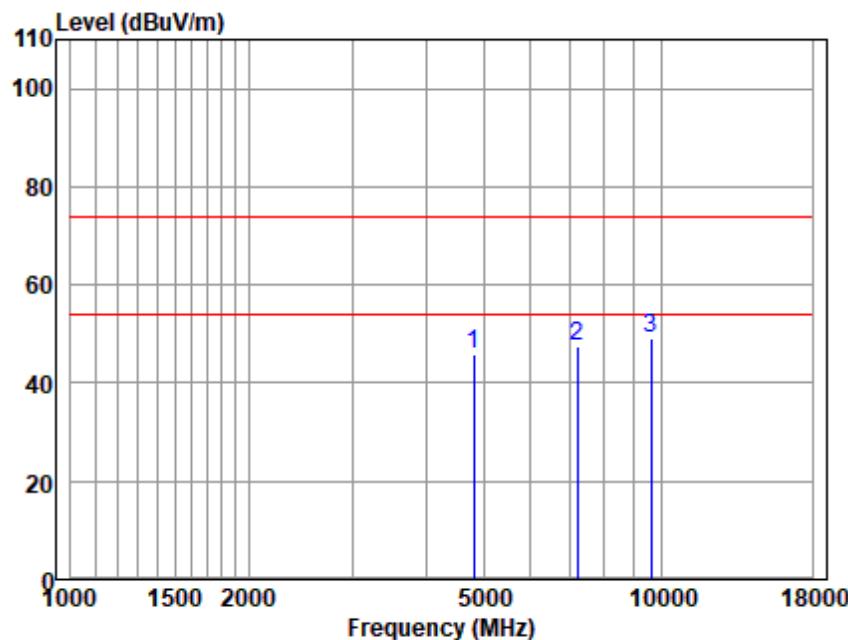
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Antenna Polarity : VERTICAL

EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.110	43.75	33.57	5.23	36.79	45.76	74.00	-28.24	Peak
7200.309	39.65	36.24	7.33	35.53	47.69	74.00	-26.31	Peak
9613.430	36.38	37.75	8.74	33.58	49.29	74.00	-24.71	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

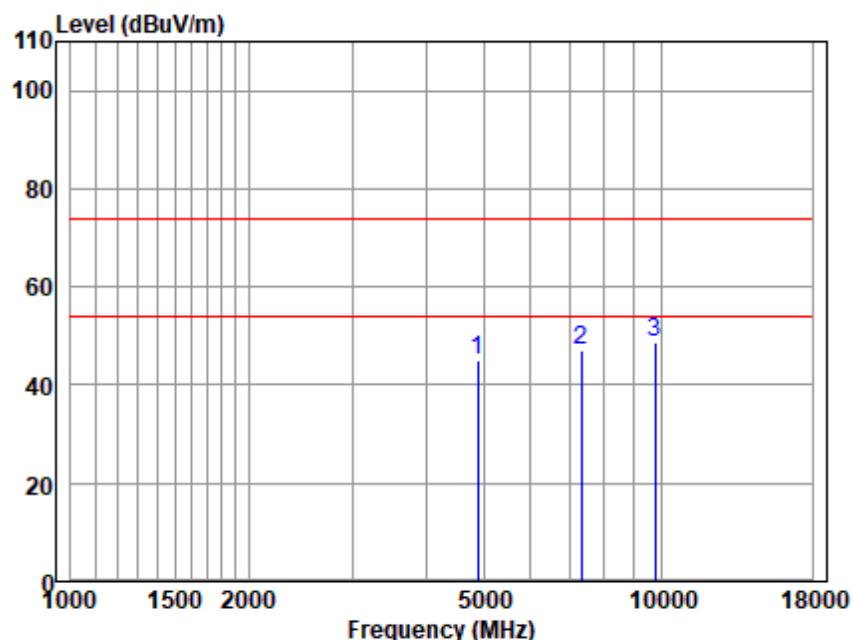
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4880.043	43.09	33.66	5.28	36.81	45.22	74.00	-28.78	Peak
7326.267	38.64	36.33	7.44	35.42	46.99	74.00	-27.01	Peak
9753.371	36.01	37.54	8.80	33.50	48.85	74.00	-25.15	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

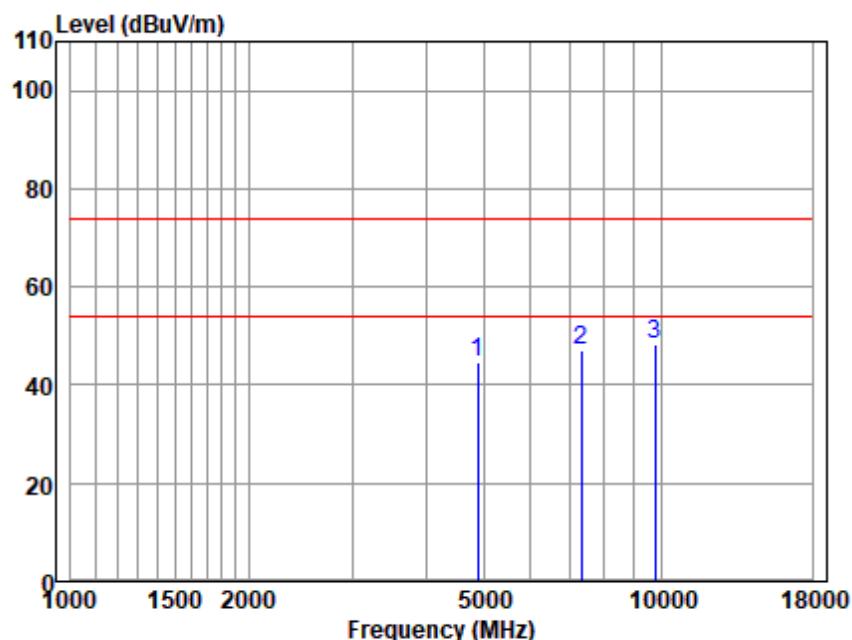
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Antenna Polarity : VERTICAL

EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4880.043	42.55	33.66	5.28	36.81	44.68	74.00	-29.32	Peak
7326.267	38.82	36.33	7.44	35.42	47.17	74.00	-26.83	Peak
9753.371	35.53	37.54	8.80	33.50	48.37	74.00	-25.63	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

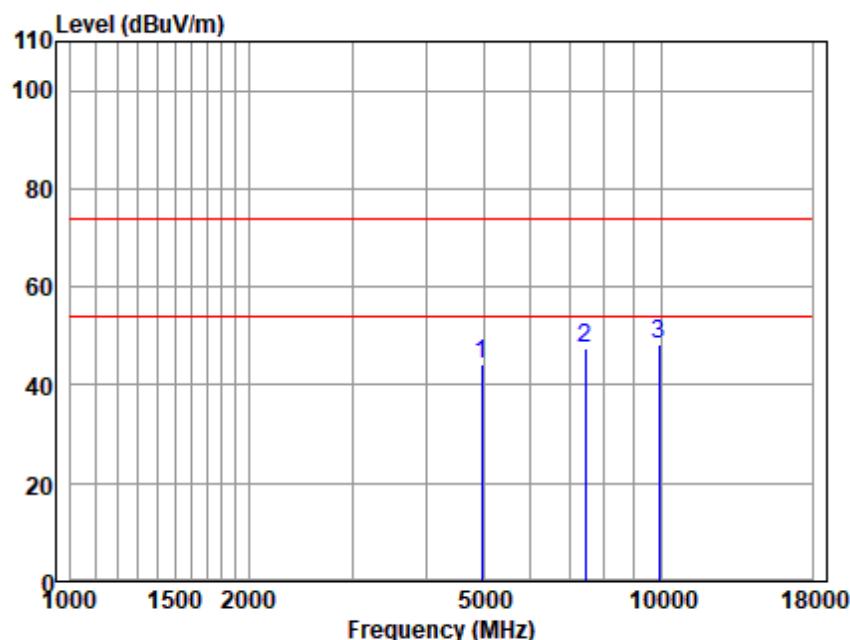
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4960.307	42.21	33.65	5.34	36.83	44.37	74.00	-29.63	Peak
7432.914	39.18	36.31	7.53	35.34	47.68	74.00	-26.32	Peak
9923.991	35.07	37.62	8.88	33.41	48.16	74.00	-25.84	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

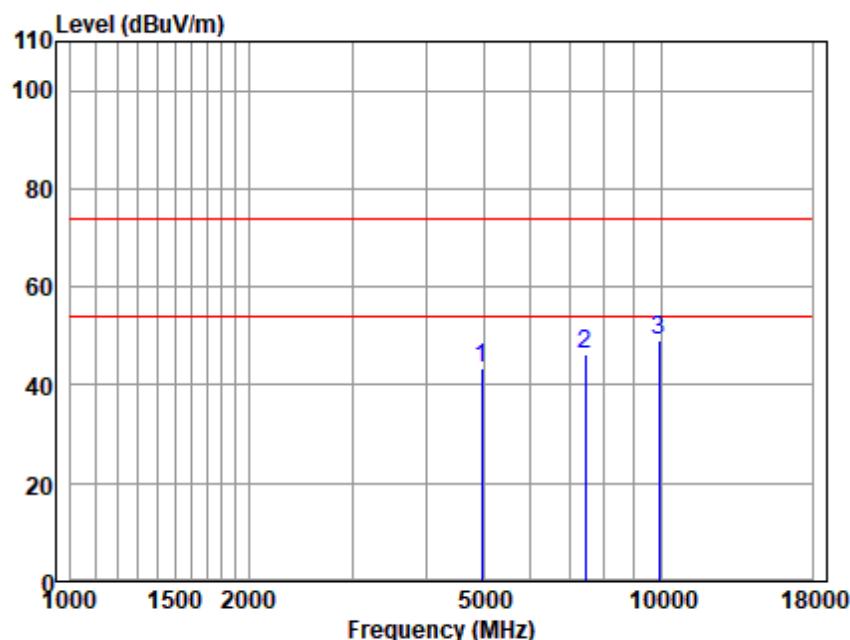
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Antenna Polarity : VERTICAL

EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over dB	Remark
4960.307	41.41	33.65	5.34	36.83	43.57	74.00	-30.43	Peak	
7432.914	37.61	36.31	7.53	35.34	46.11	74.00	-27.89	Peak	
9923.991	35.89	37.62	8.88	33.41	48.98	74.00	-25.02	Peak	

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

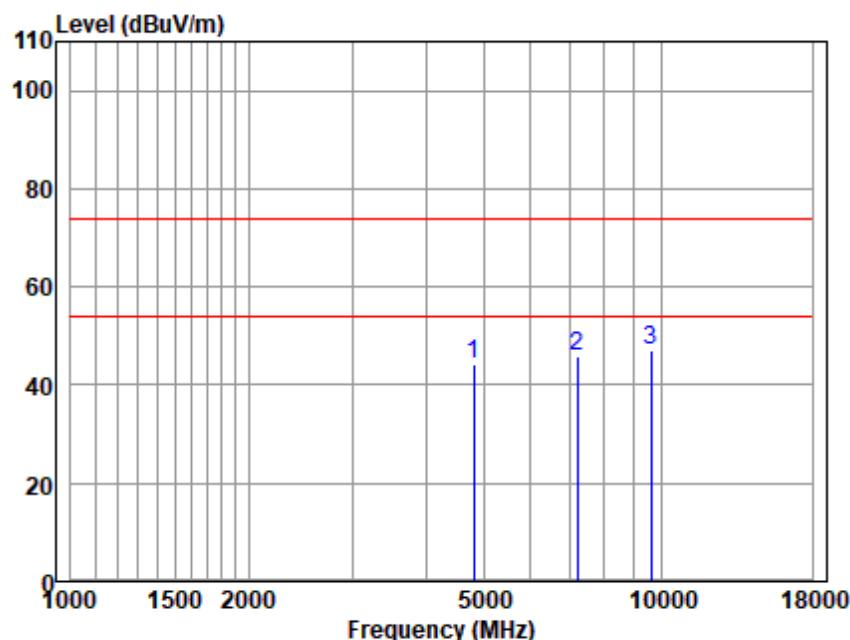
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Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4804.110	42.30	33.57	5.23	36.79	44.31	74.00	-29.69	Peak
7200.309	37.84	36.24	7.33	35.53	45.88	74.00	-28.12	Peak
9613.430	34.31	37.75	8.74	33.58	47.22	74.00	-26.78	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

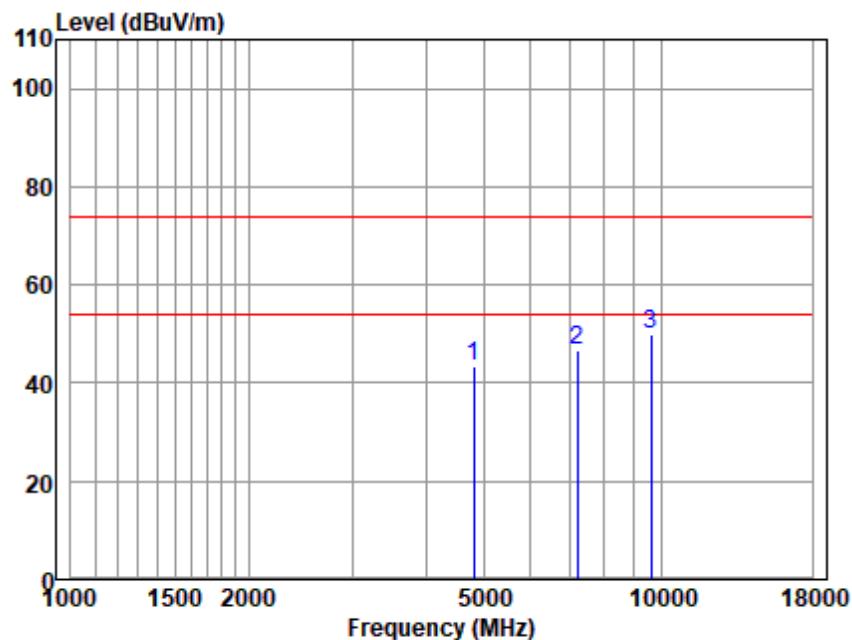
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Antenna Polarity : VERTICAL

EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4804.110	41.48	33.57	5.23	36.79	43.49	74.00	-30.51	Peak
7200.309	38.52	36.24	7.33	35.53	46.56	74.00	-27.44	Peak
9613.430	36.87	37.75	8.74	33.58	49.78	74.00	-24.22	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

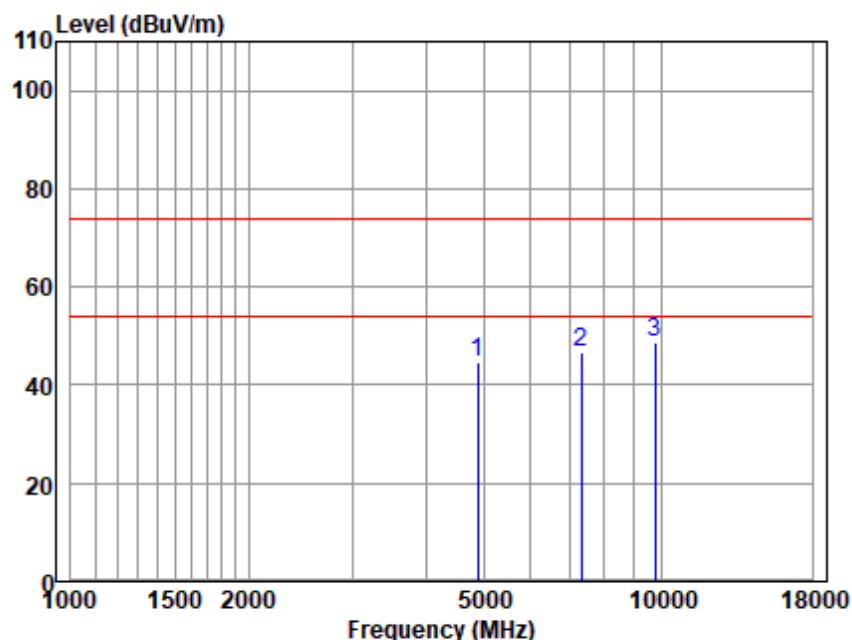
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4880.043	42.47	33.66	5.28	36.81	44.60	74.00	-29.40	Peak
7326.267	38.49	36.33	7.44	35.42	46.84	74.00	-27.16	Peak
9753.371	35.95	37.54	8.80	33.50	48.79	74.00	-25.21	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

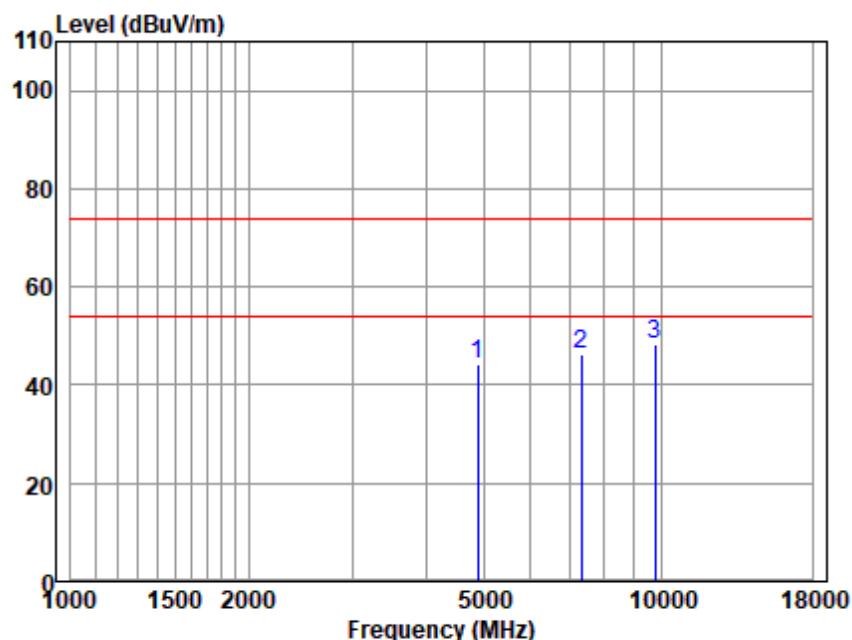
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:middle



Antenna Polarity : VERTICAL

EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4880.043	42.22	33.66	5.28	36.81	44.35	74.00	-29.65	Peak
7326.267	37.82	36.33	7.44	35.42	46.17	74.00	-27.83	Peak
9753.371	35.34	37.54	8.80	33.50	48.18	74.00	-25.82	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

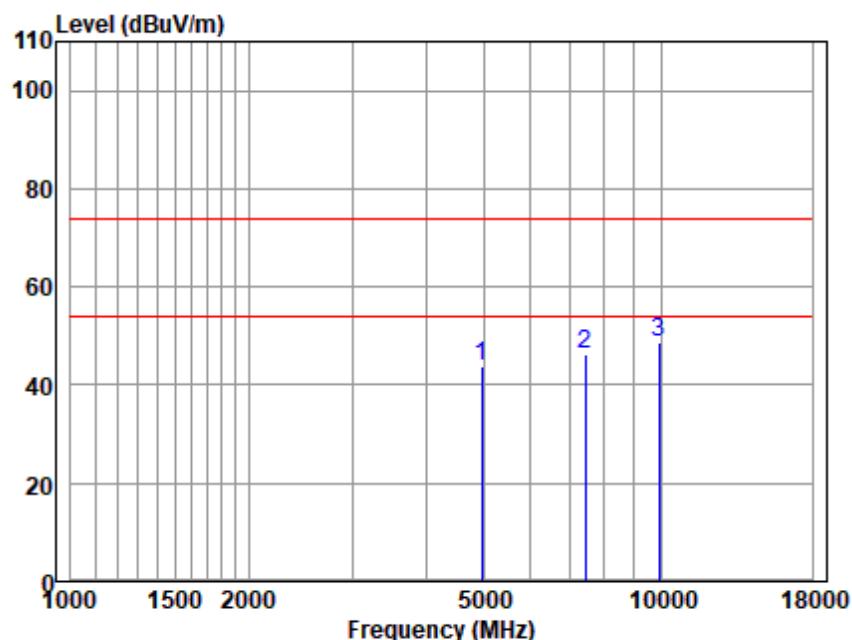
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



Antenna Polarity :HORIZONTAL

EUT/Project :1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
4960.307	41.60	33.65	5.34	36.83	43.76	74.00	-30.24	Peak
7432.914	37.95	36.31	7.53	35.34	46.45	74.00	-27.55	Peak
9923.991	35.71	37.62	8.88	33.41	48.80	74.00	-25.20	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

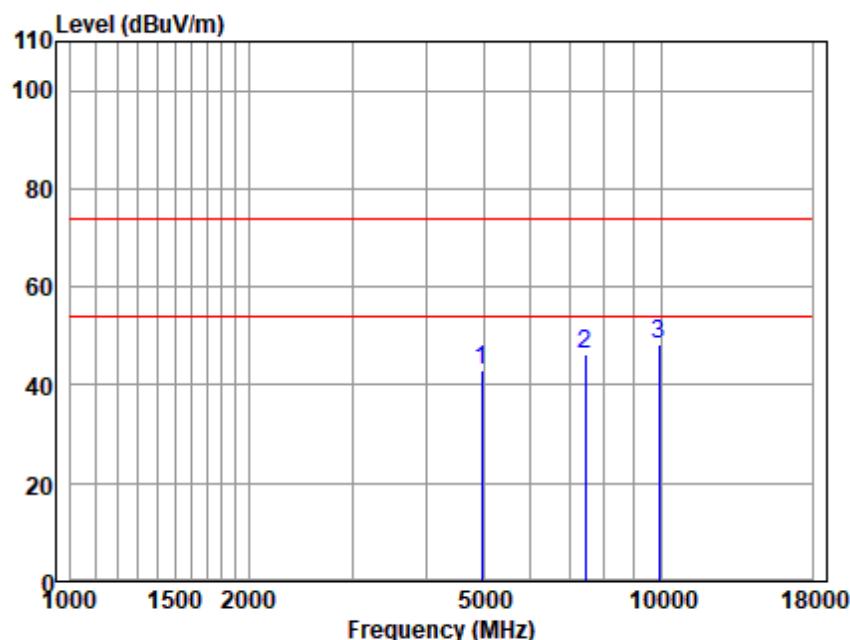
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Antenna Polarity : VERTICAL

EUT/Project : 1755HS

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Over Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.307	40.90	33.65	5.34	36.83	43.06	74.00	-30.94	Peak
7432.914	37.65	36.31	7.53	35.34	46.15	74.00	-27.85	Peak
9923.991	35.28	37.62	8.88	33.41	48.37	74.00	-25.63	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

7.5 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2020) Section 11.9.1

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

7.5.1 E.U.T. Operation

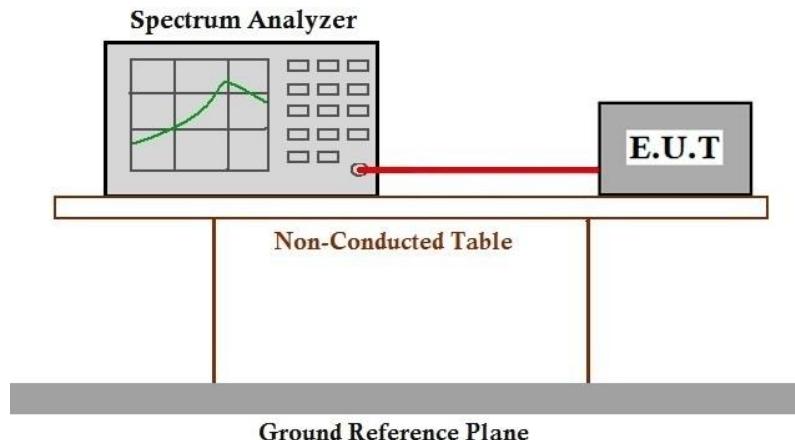
Operating Environment:

Temperature: 22 °C Humidity: 50 % 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.(FAQ™ Dual LED Panel)
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ Dual LED Panel)

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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

7.6 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2020) Section 11.8.1

Measurement Distance: 3m

Limit:

≥500 kHz

7.6.1 E.U.T. Operation

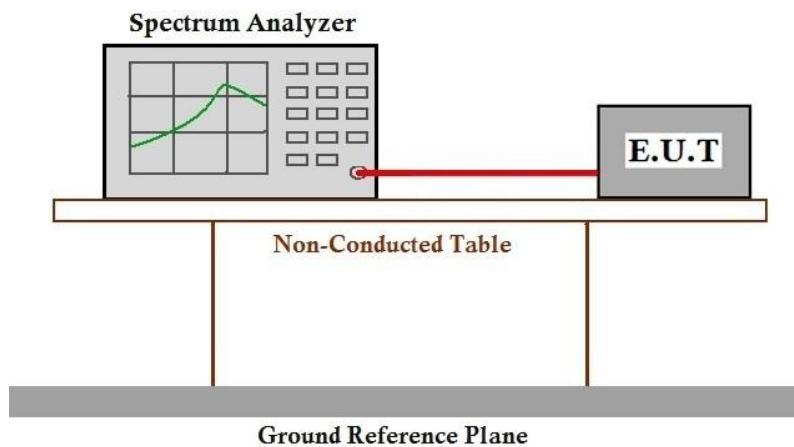
Operating Environment:

Temperature: 22 °C Humidity: 50 % 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.(FAQ™ Dual LED Panel)
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ Dual LED Panel)

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 Power Spectrum Density

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

Test Method: ANSI C63.10 (2020) Section 11.10.2

Limit:

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

7.7.1 E.U.T. Operation

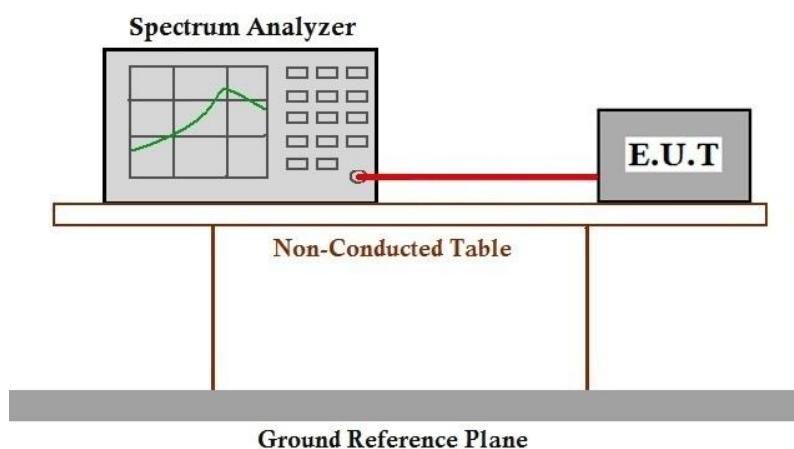
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.7.2 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.(FAQ™ Dual LED Panel)
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ Dual LED Panel)

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Conducted Band Edges Measurement

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

Test Method: ANSI C63.10 (2020) Section 6.10.4

Limit:

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

7.8.1 E.U.T. Operation

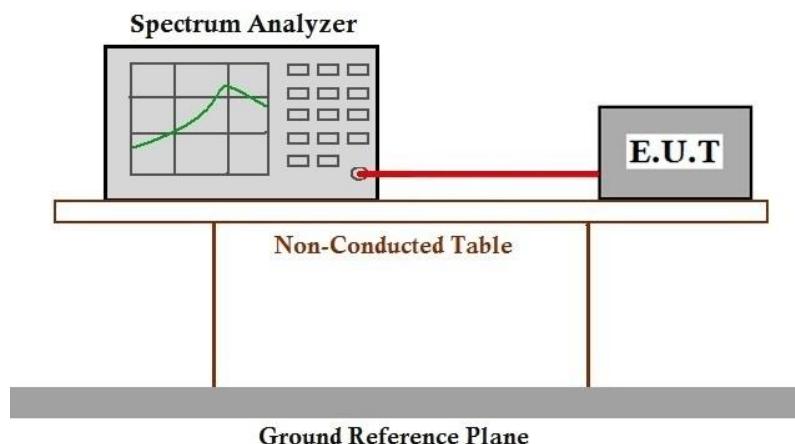
Operating Environment:

Temperature: 22 °C Humidity: 50 % 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.(FAQ™ Dual LED Panel)
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ Dual LED Panel)

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 Conducted Spurious Emissions

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

Test Method: ANSI C63.10 (2020) 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)).

7.9.1 E.U.T. Operation

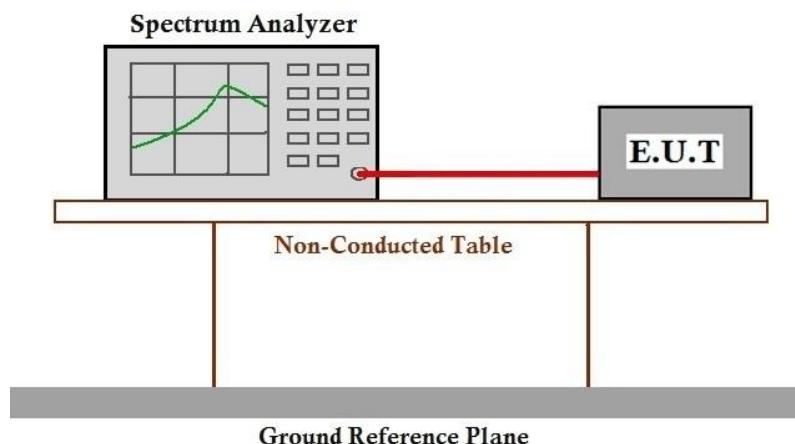
Operating Environment:

Temperature: 22 °C Humidity: 50 % 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.(FAQ™ Dual LED Panel)
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ Dual LED Panel)

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.10 99% Bandwidth

Test Requirement RSS-Gen Section 6.7

Test Method: ANSI C63.10 (2013) Section 6.9.3

7.10.1 E.U.T. Operation

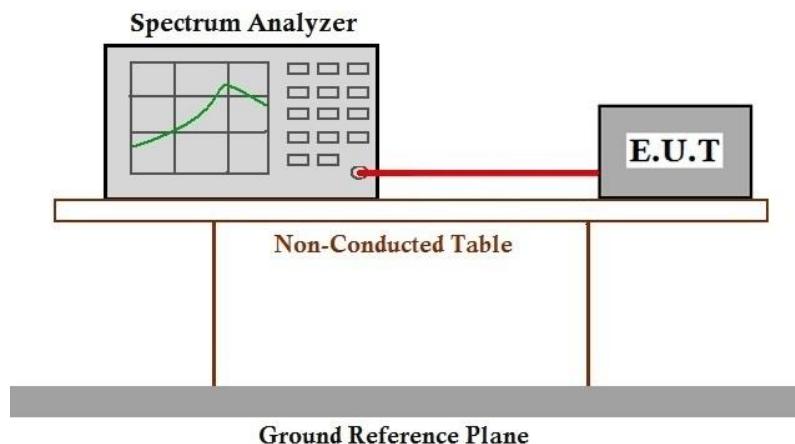
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.10.2 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.(FAQ™ Dual LED Panel)
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.(FAQ™ Dual LED Panel)

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2507001755HS

9 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photos of EUT Constructional Details for SHCR2507001755HS

10 Appendix

1. Bandwidth

1.1 Test Result

1.1.1 OBW

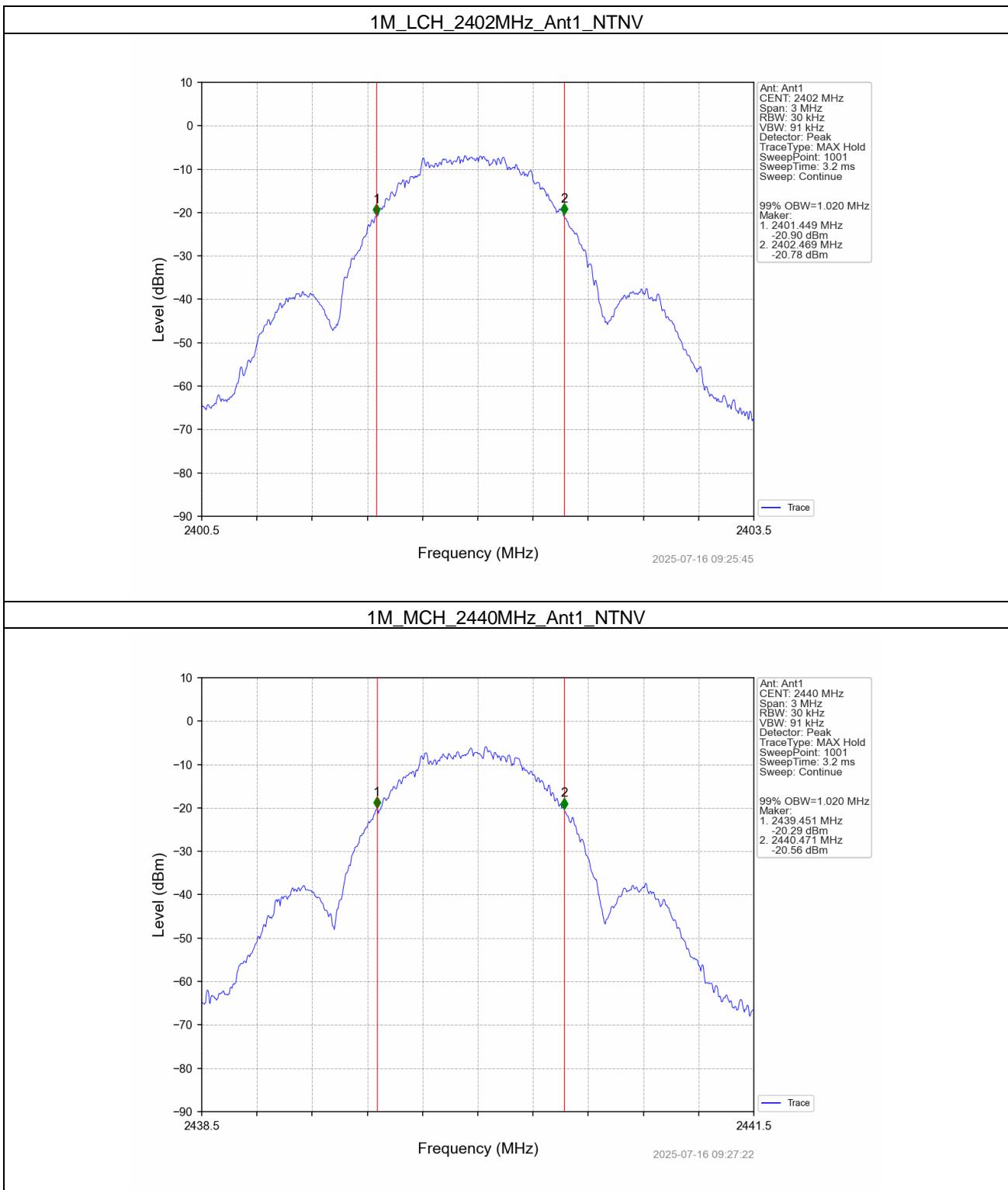
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.020	/	Pass
		2440	1	1.020	/	Pass
		2480	1	1.029	/	Pass
2M	SISO	2402	1	2.064	/	Pass
		2440	1	2.034	/	Pass
		2480	1	2.035	/	Pass

1.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.681	>=0.5	Pass
		2440	1	0.679	>=0.5	Pass
		2480	1	0.672	>=0.5	Pass
2M	SISO	2402	1	1.370	>=0.5	Pass
		2440	1	1.354	>=0.5	Pass
		2480	1	1.383	>=0.5	Pass

1.2 Test Graph

1.2.1 OBW

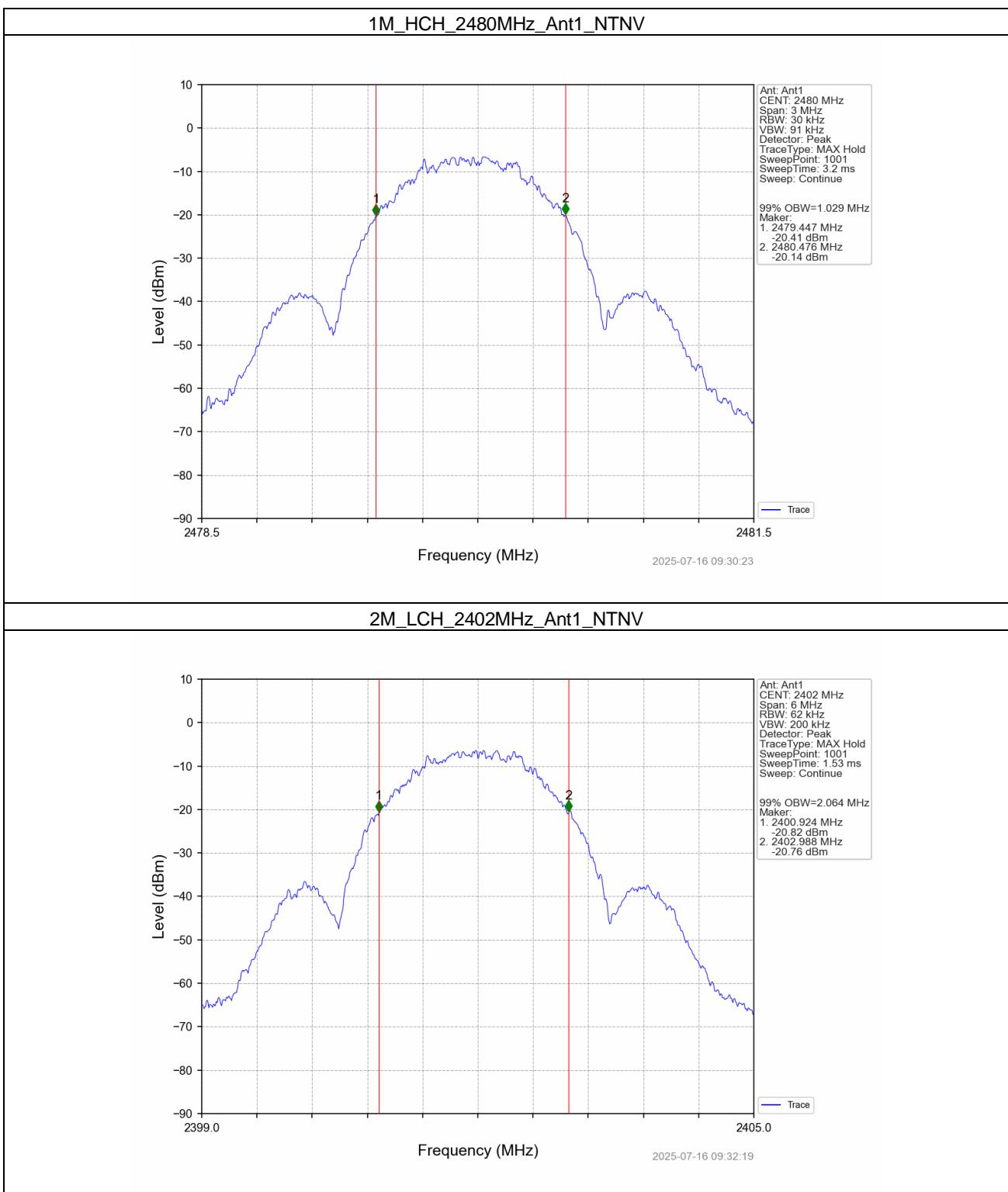


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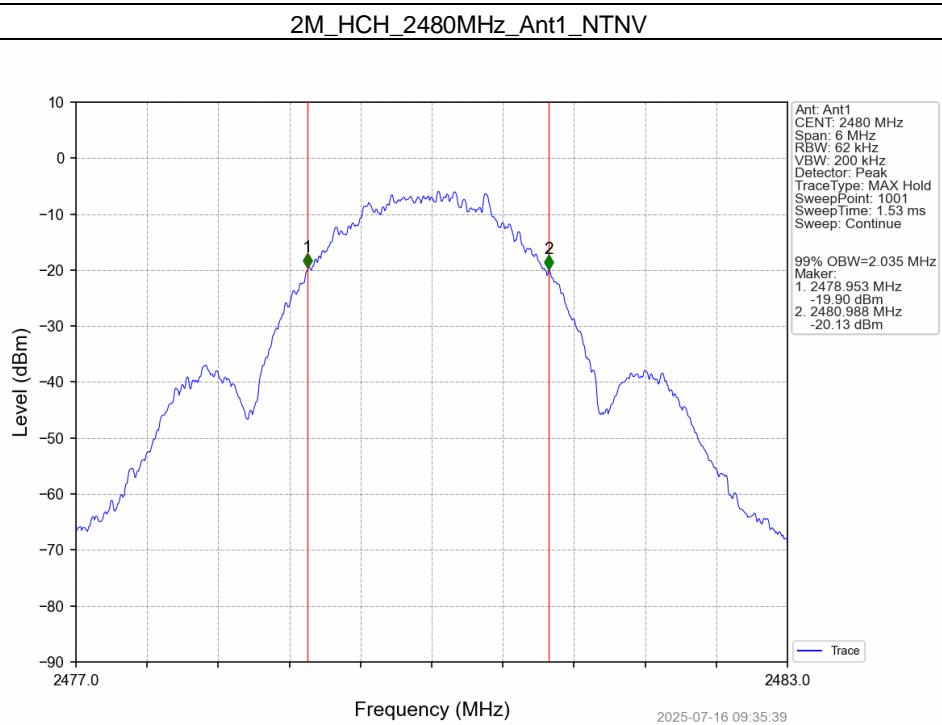
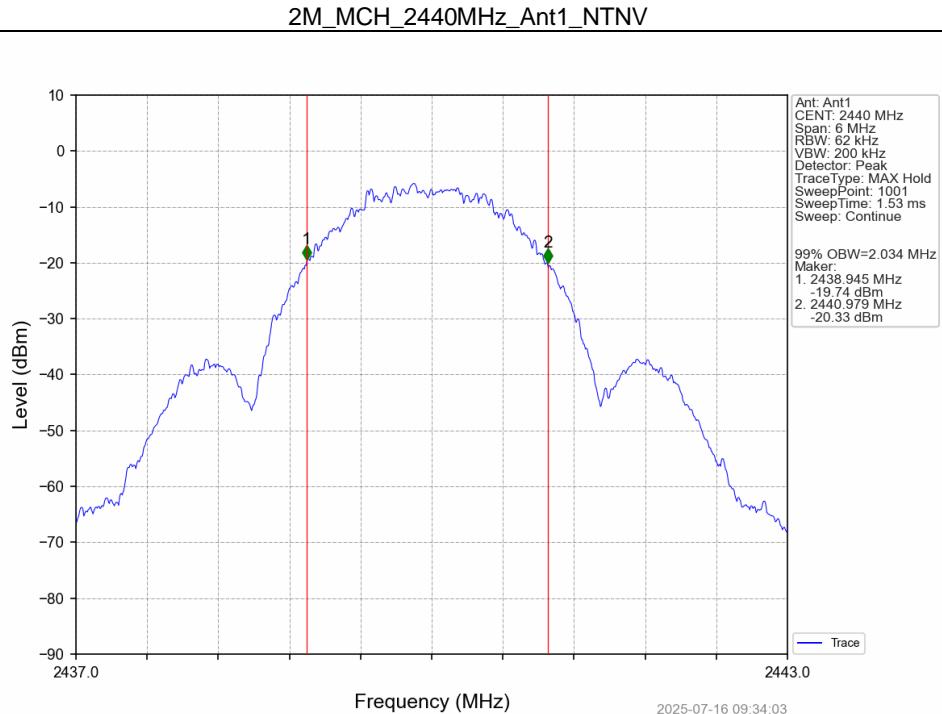


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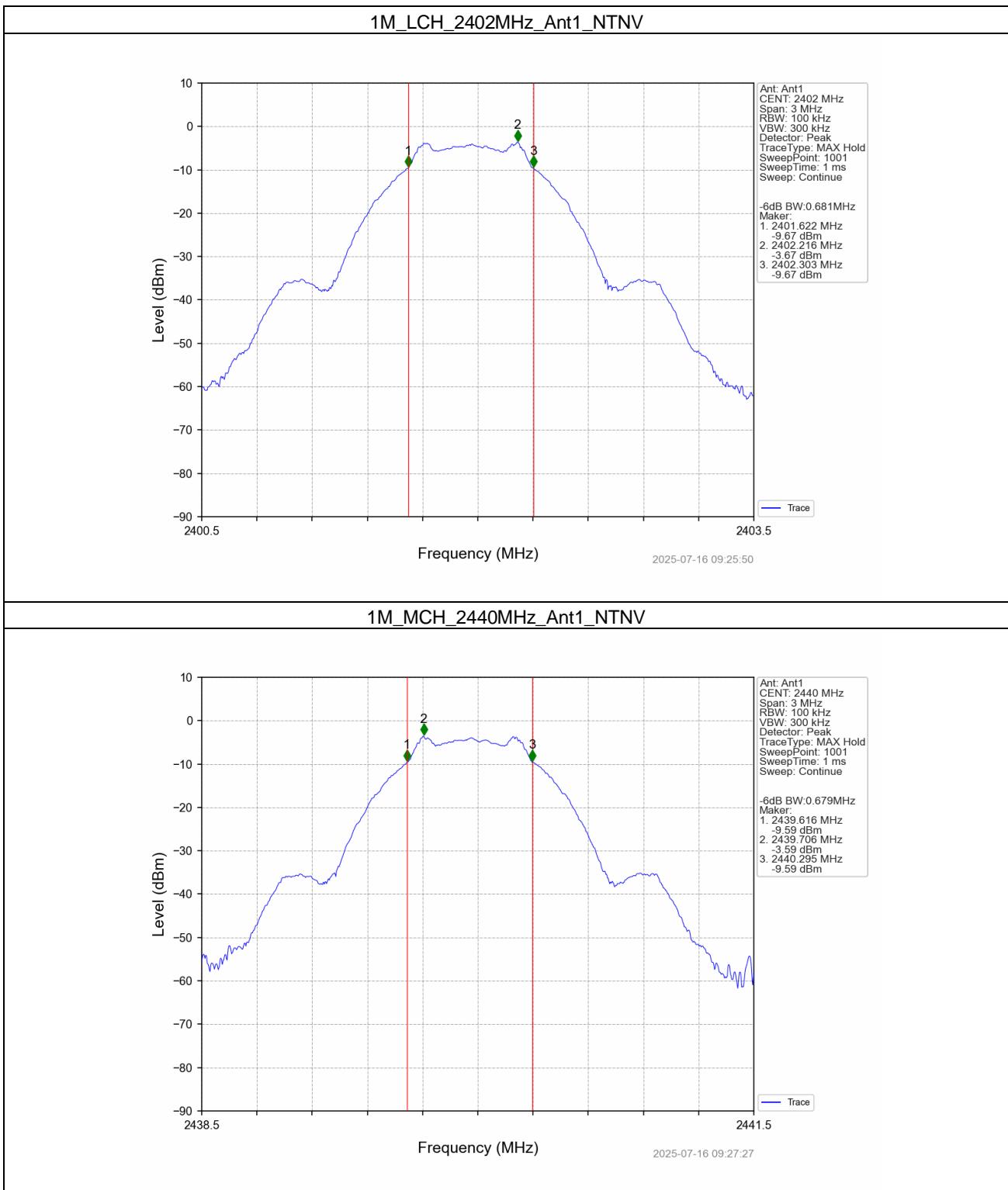
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1.2.2 6dB BW

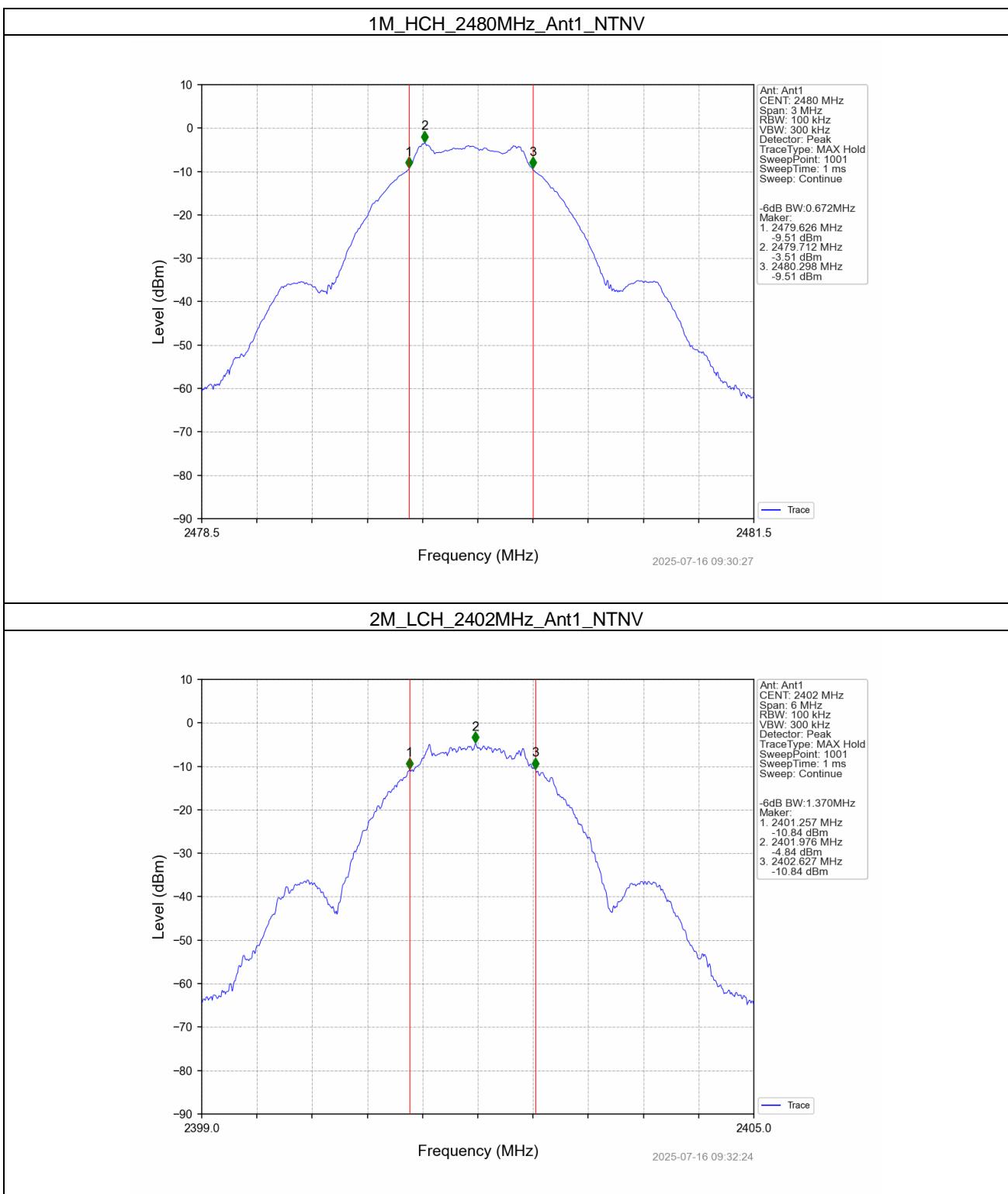


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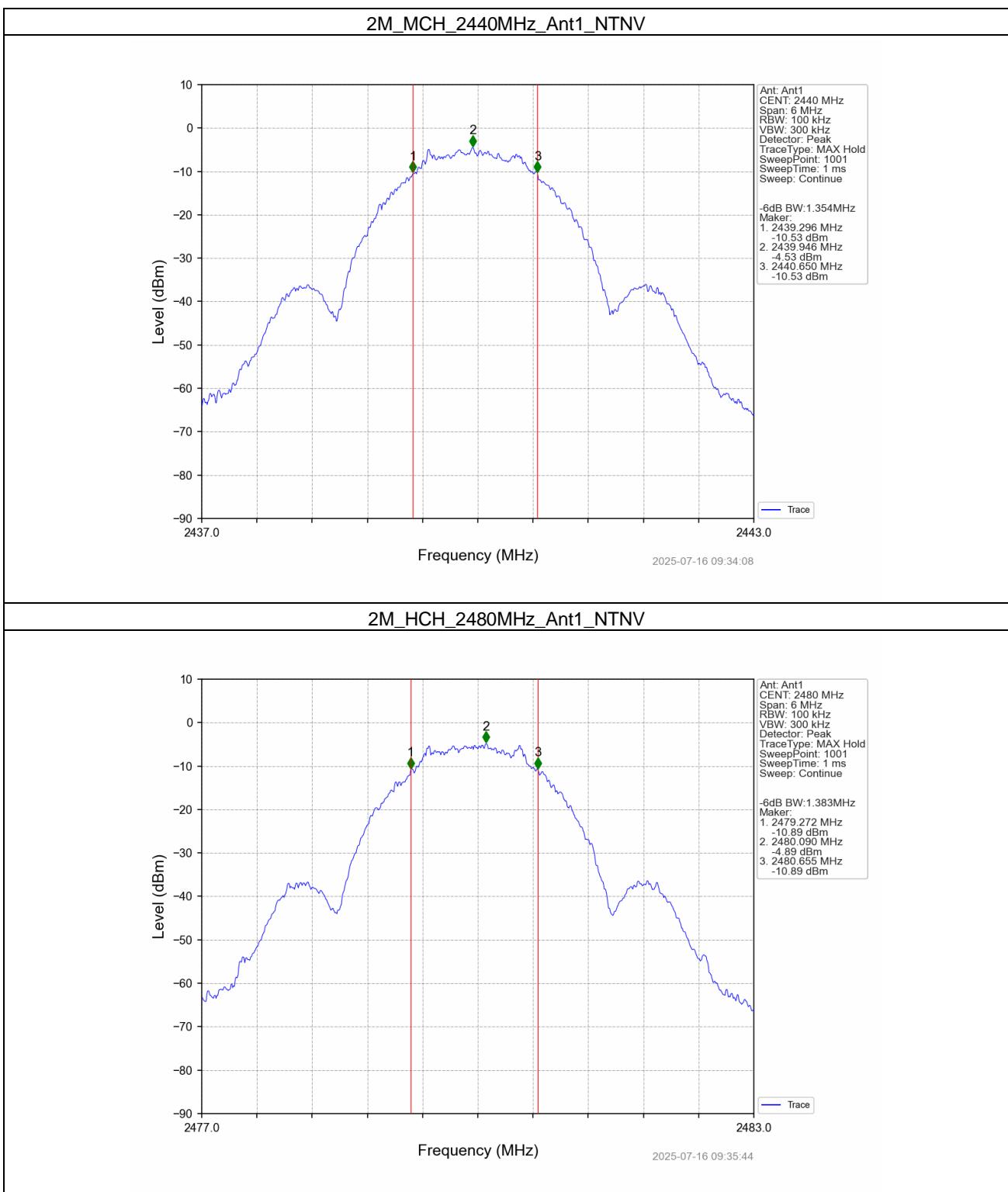


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2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-3.34	<=30	Pass
		2440	-3.27	<=30	Pass
		2480	-3.37	<=30	Pass
2M	SISO	2402	-3.32	<=30	Pass
		2440	-3.26	<=30	Pass
		2480	-3.35	<=30	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;

2.1.2 EIRP

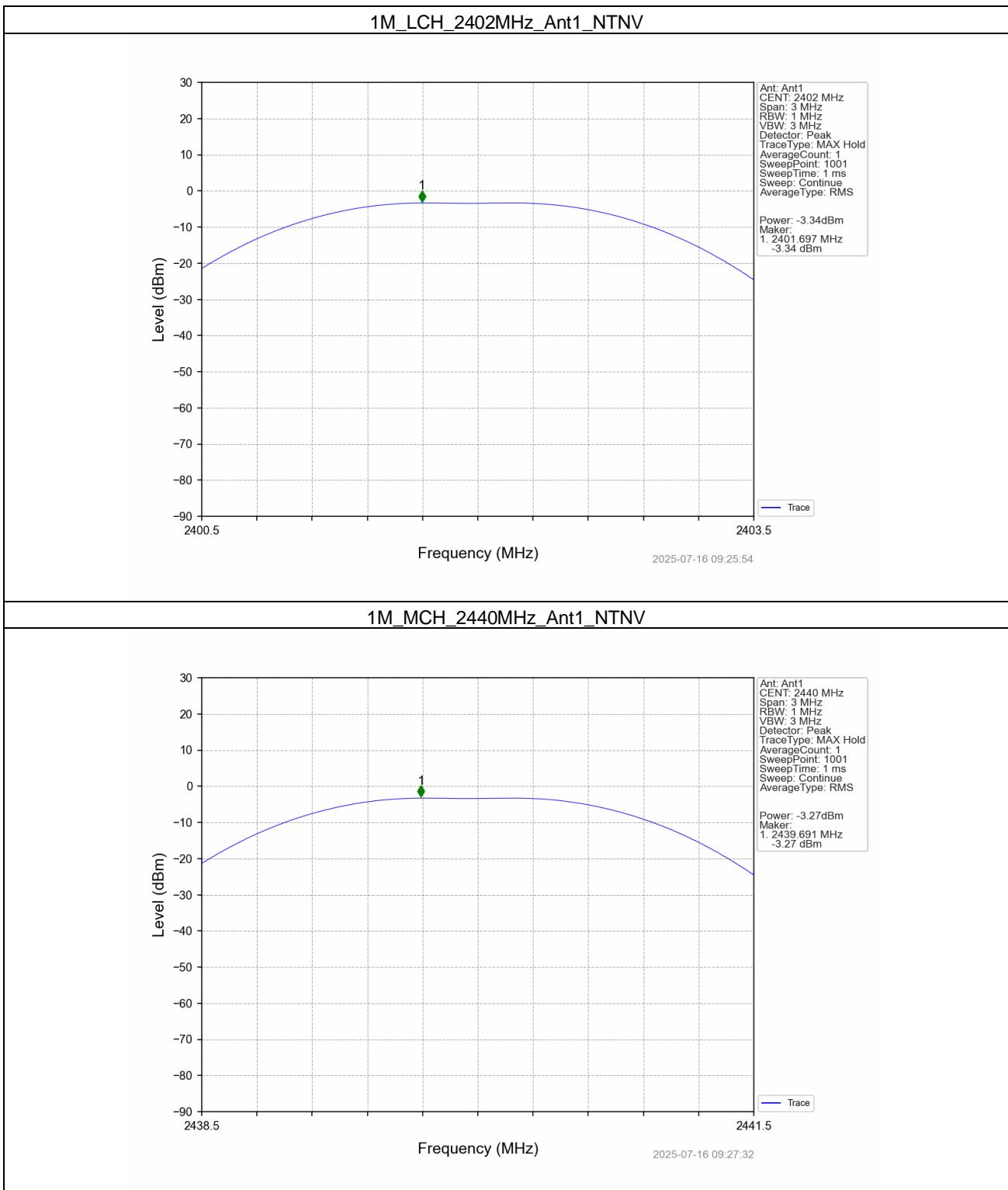
Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-3.34	<=36.02	Pass
		2440	-3.27	<=36.02	Pass
		2480	-3.37	<=36.02	Pass
2M	SISO	2402	-3.32	<=36.02	Pass
		2440	-3.26	<=36.02	Pass
		2480	-3.35	<=36.02	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;

Note2: E.I.R.P = Measured Power + Antenna Gain

2.2 Test Graph

2.2.1 Power

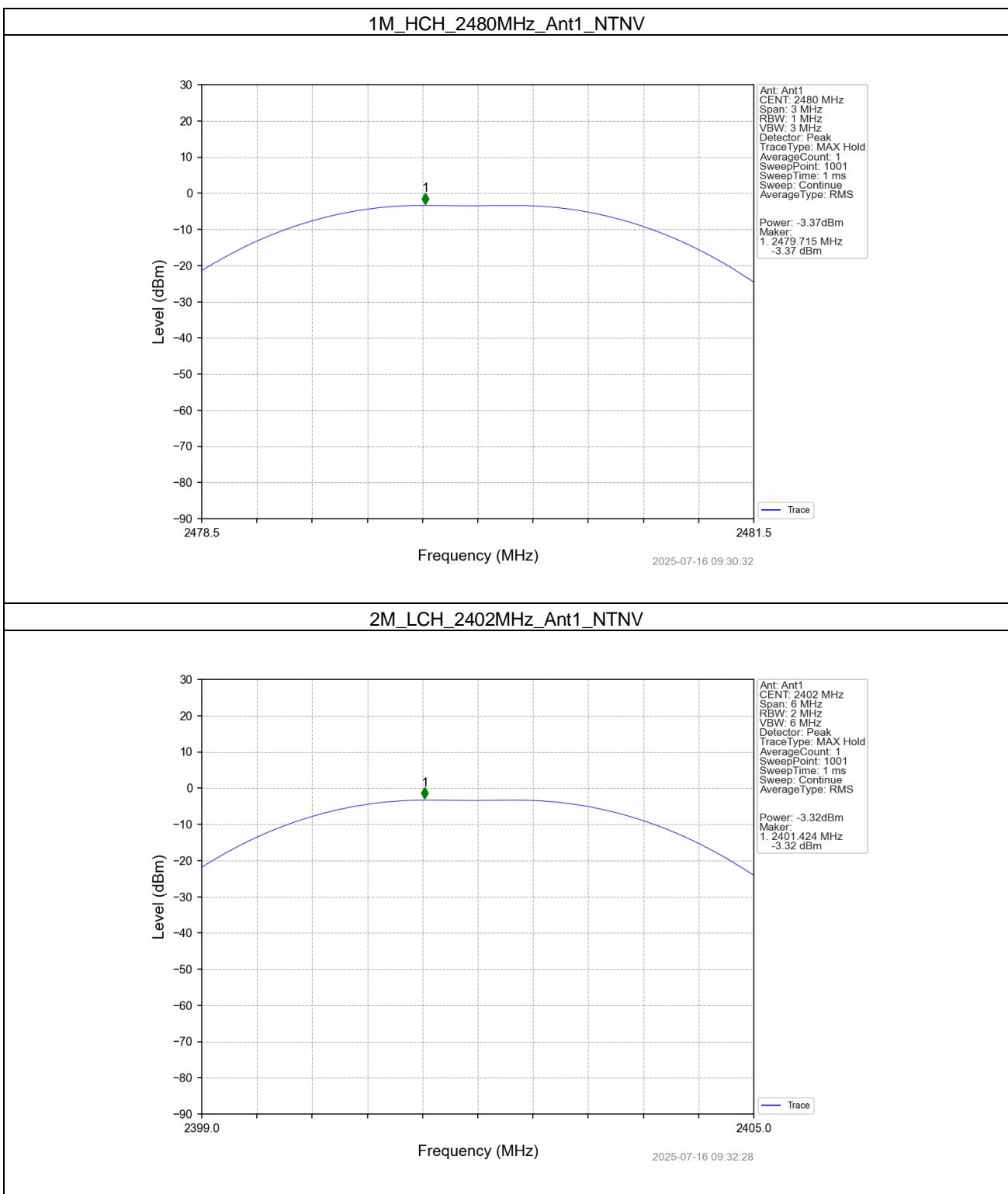


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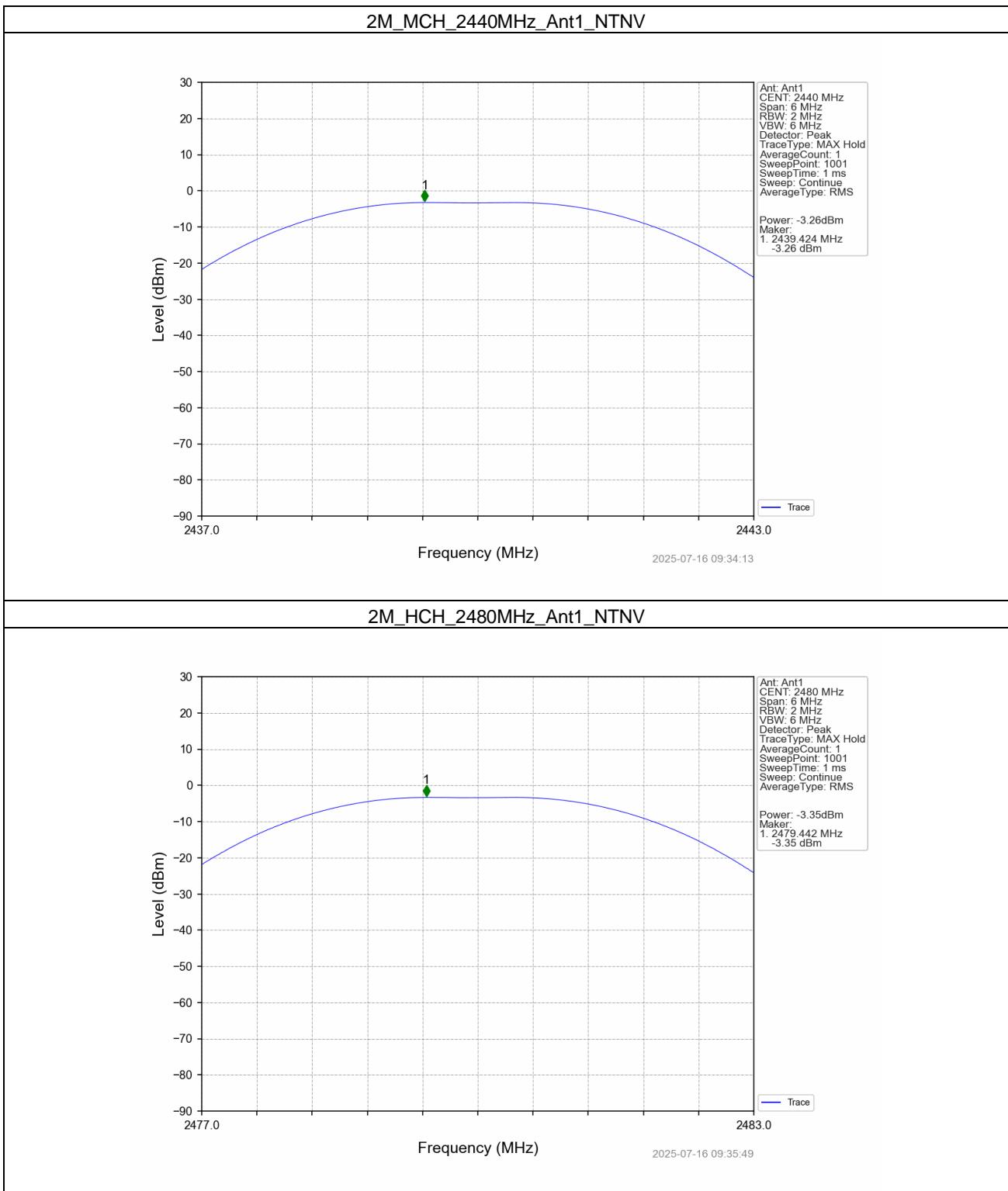


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3. Maximum Power Spectral Density

3.1 Test Result

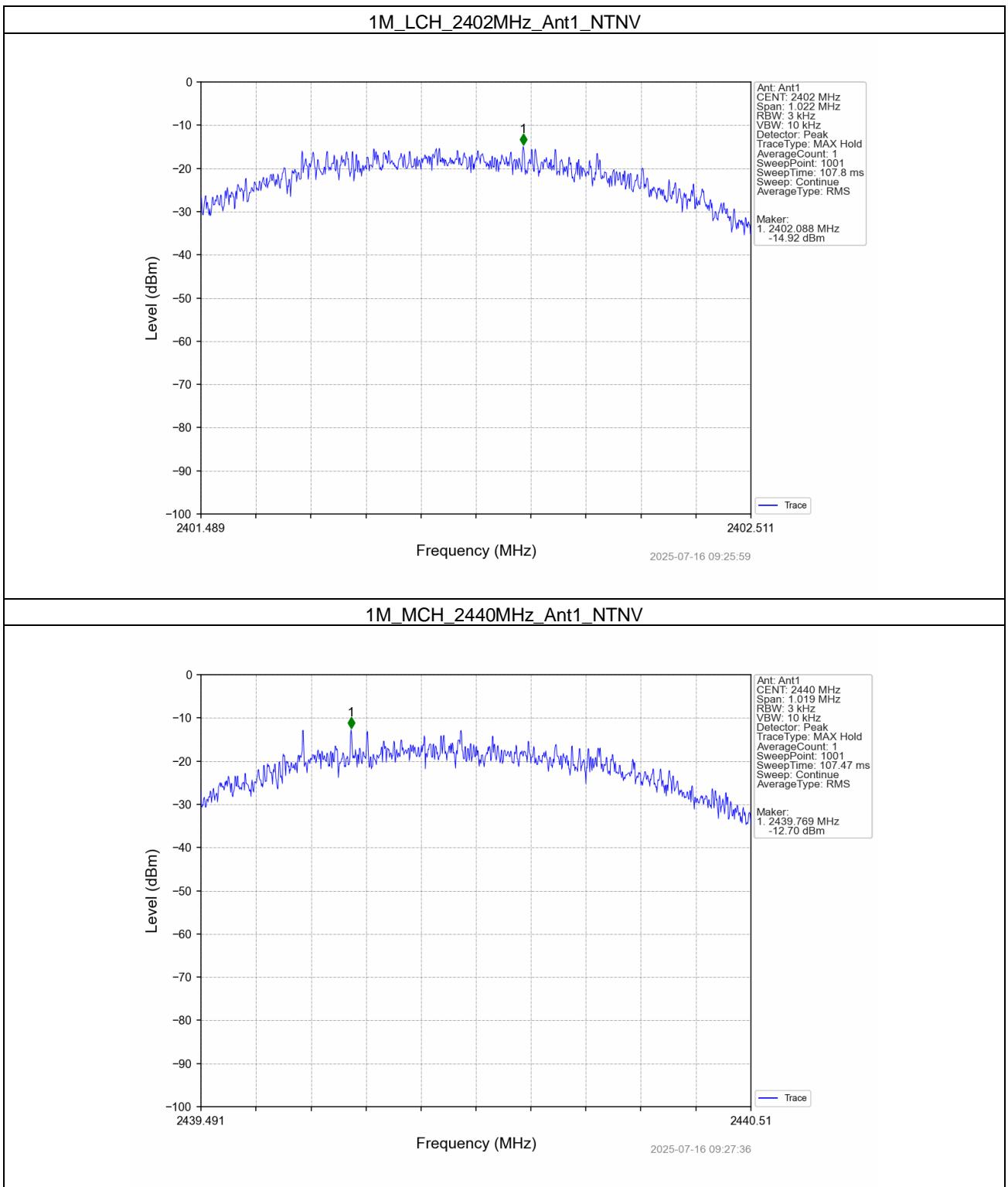
3.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-14.92	<=8	Pass
		2440	-12.70	<=8	Pass
		2480	-12.99	<=8	Pass
2M	SISO	2402	-16.79	<=8	Pass
		2440	-16.65	<=8	Pass
		2480	-18.15	<=8	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;

3.2 Test Graph

3.2.1 PSD

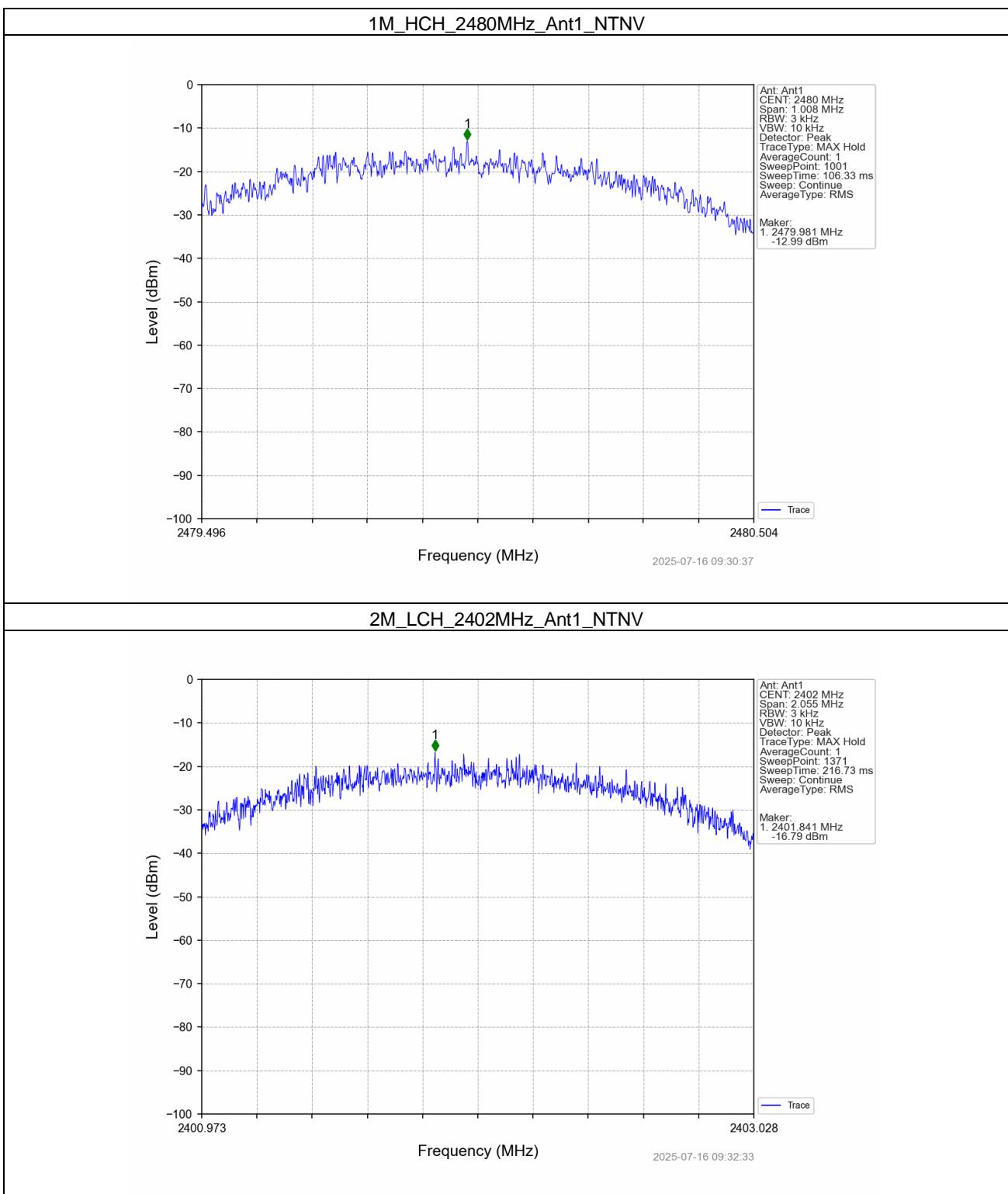


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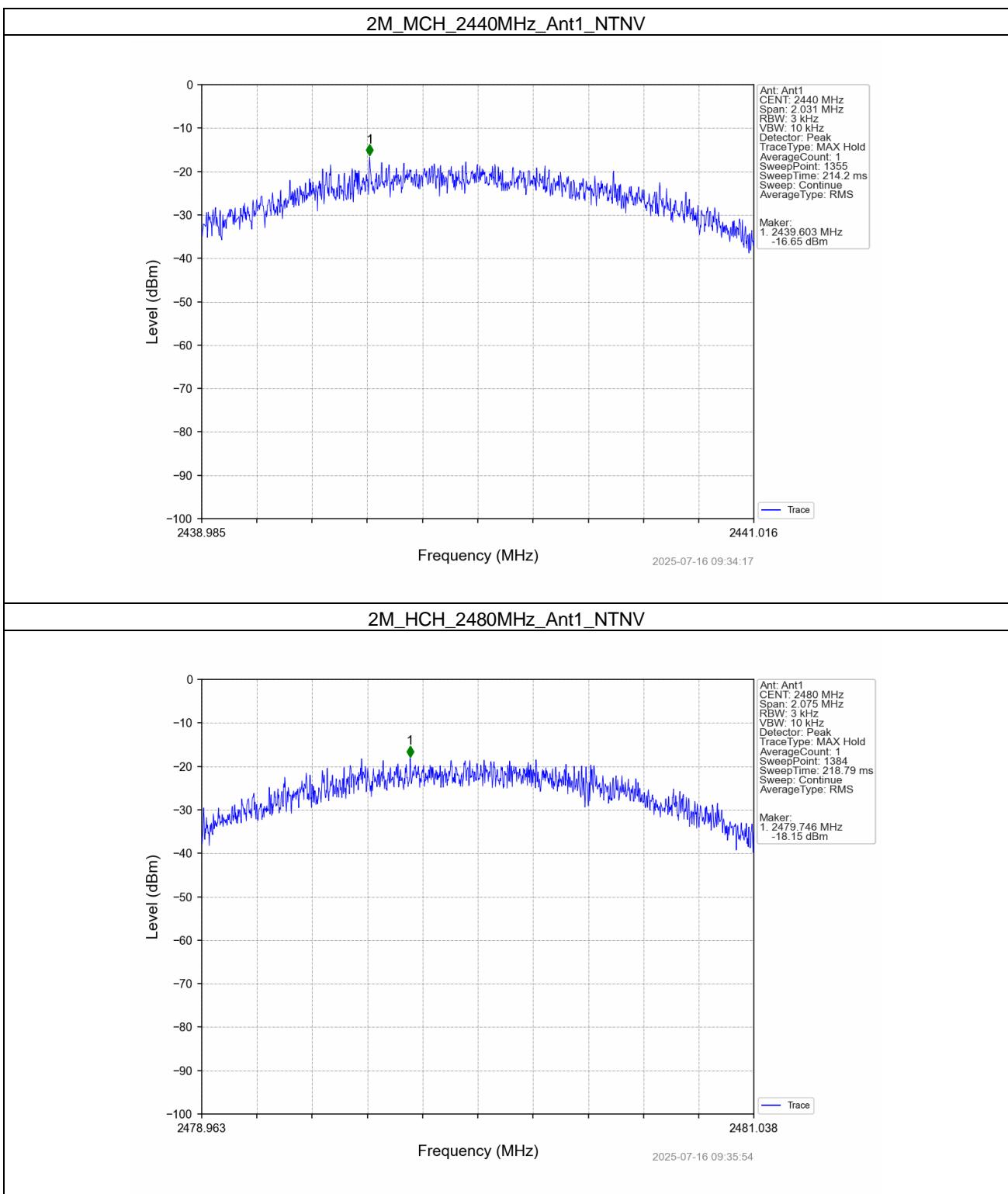


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4. Unwanted Emissions In Non-restricted Frequency Bands

4.1 Test Result

4.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-3.49
		2440	1	-3.35
		2480	1	-3.49
2M	SISO	2402	1	-4.71
		2440	1	-4.25
		2480	1	-5.02

Note1: Refer to RSS-247 Issue 3 section 5.5 and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

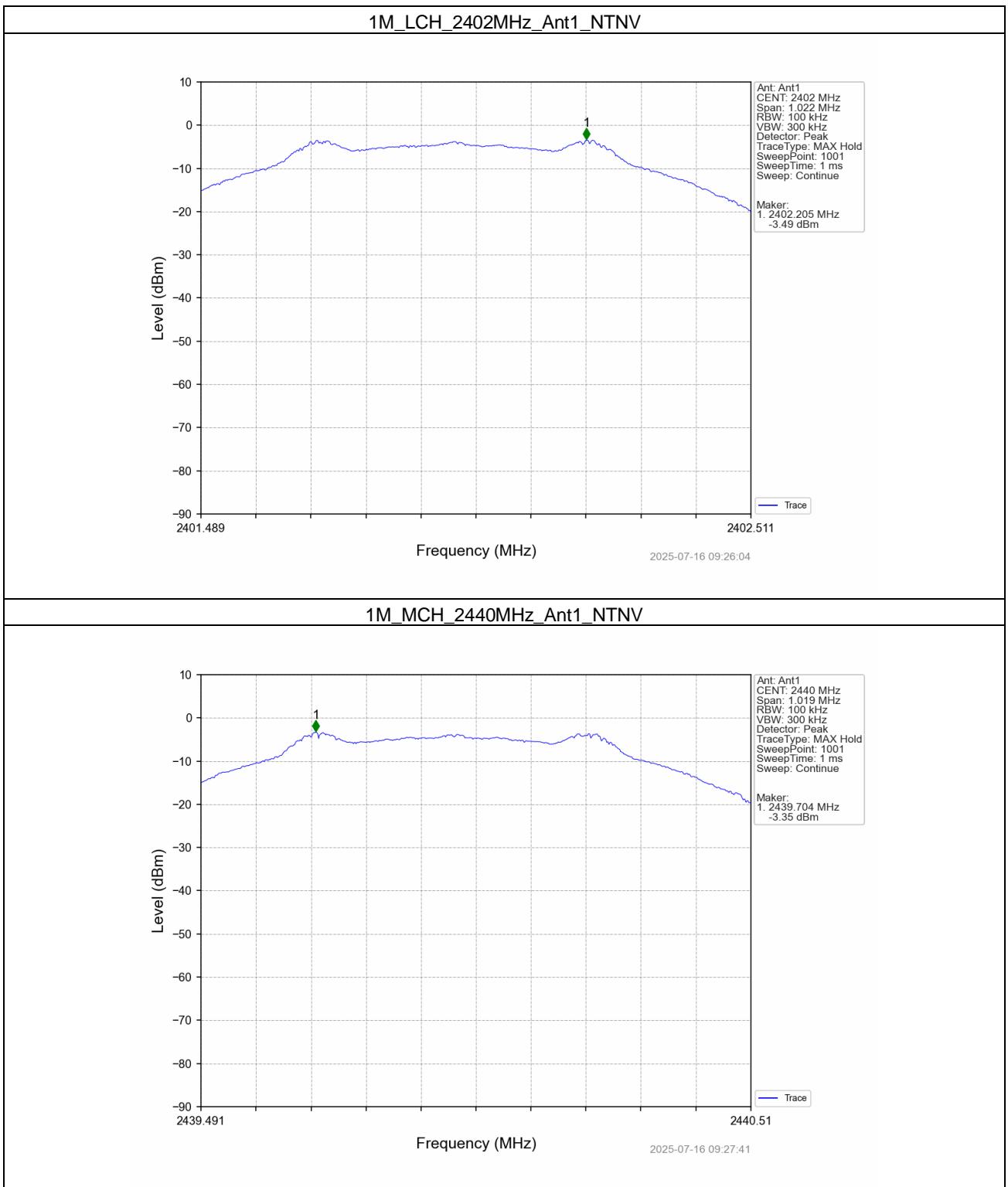
4.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-3.35	-23.35	Pass
		2440	1	-3.35	-23.35	Pass
		2480	1	-3.35	-23.35	Pass
2M	SISO	2402	1	-4.25	-24.25	Pass
		2440	1	-4.25	-24.25	Pass
		2480	1	-4.25	-24.25	Pass

Note1: Refer to RSS-247 Issue 3 section 5.5 and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

4.2 Test Graph

4.2.1 Ref

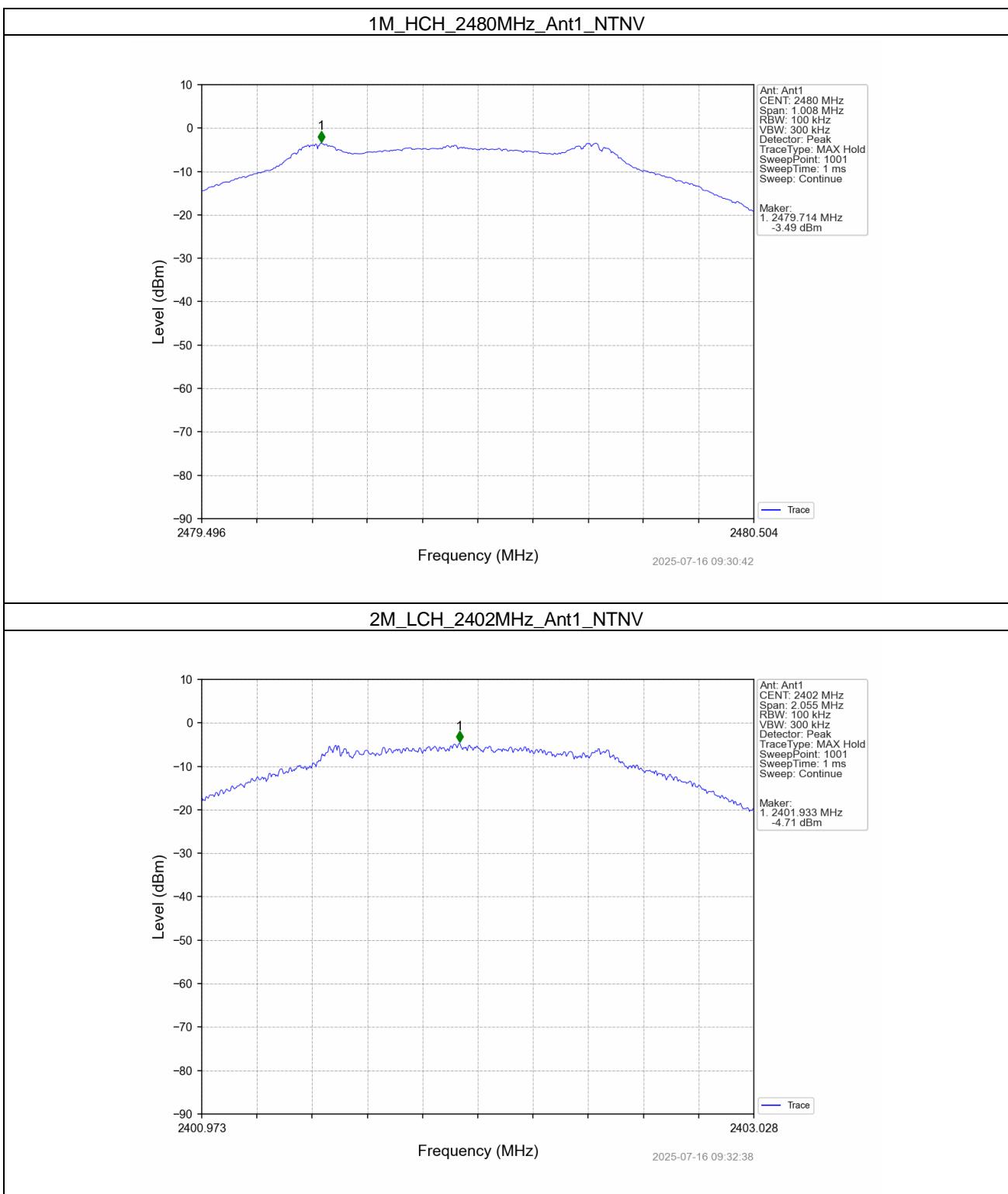


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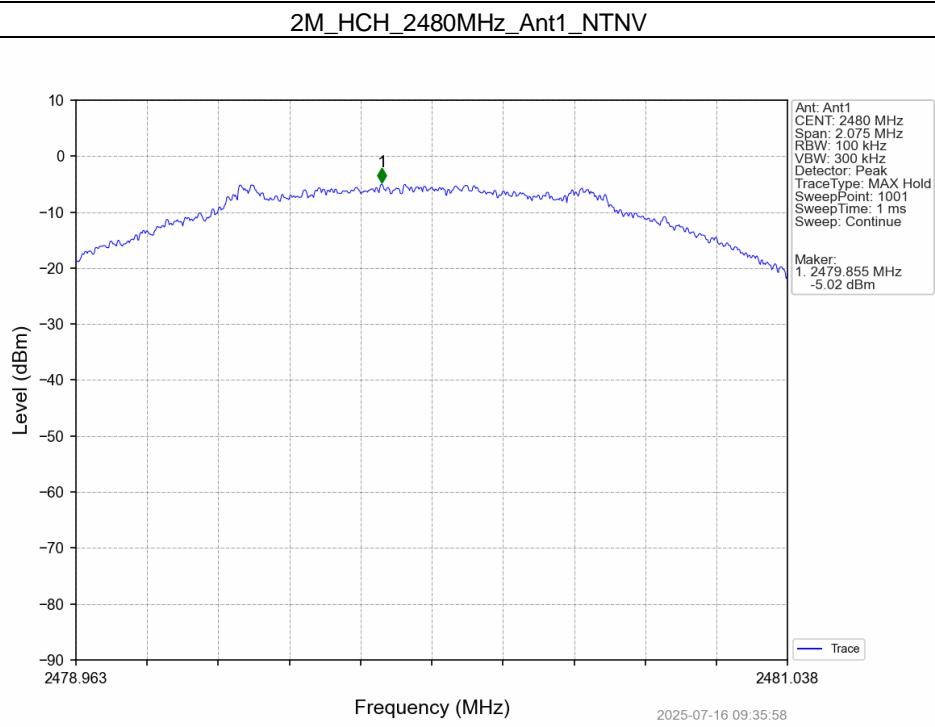
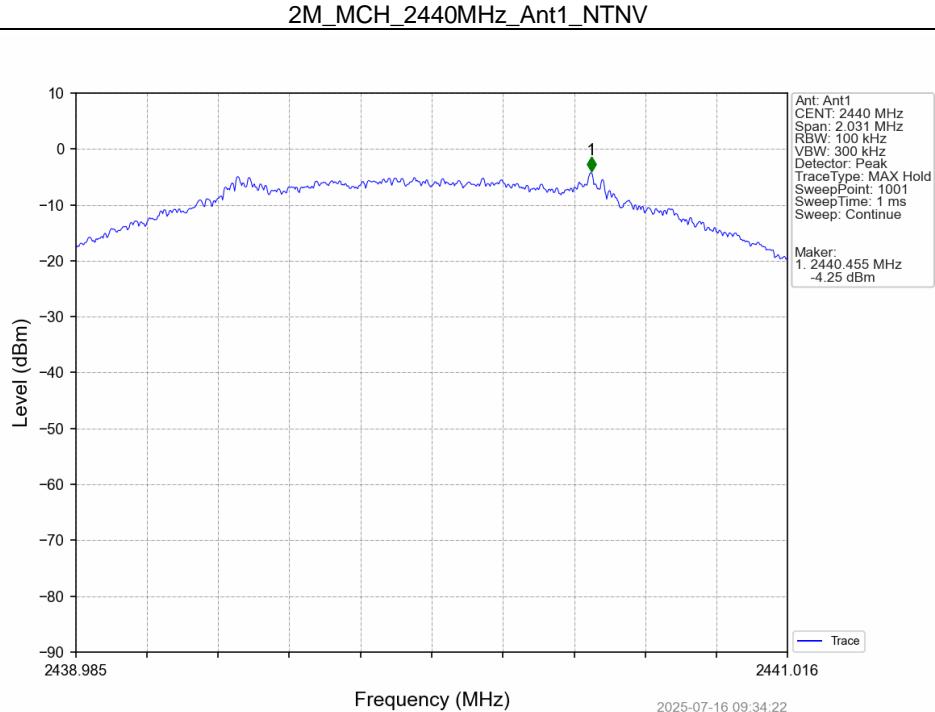


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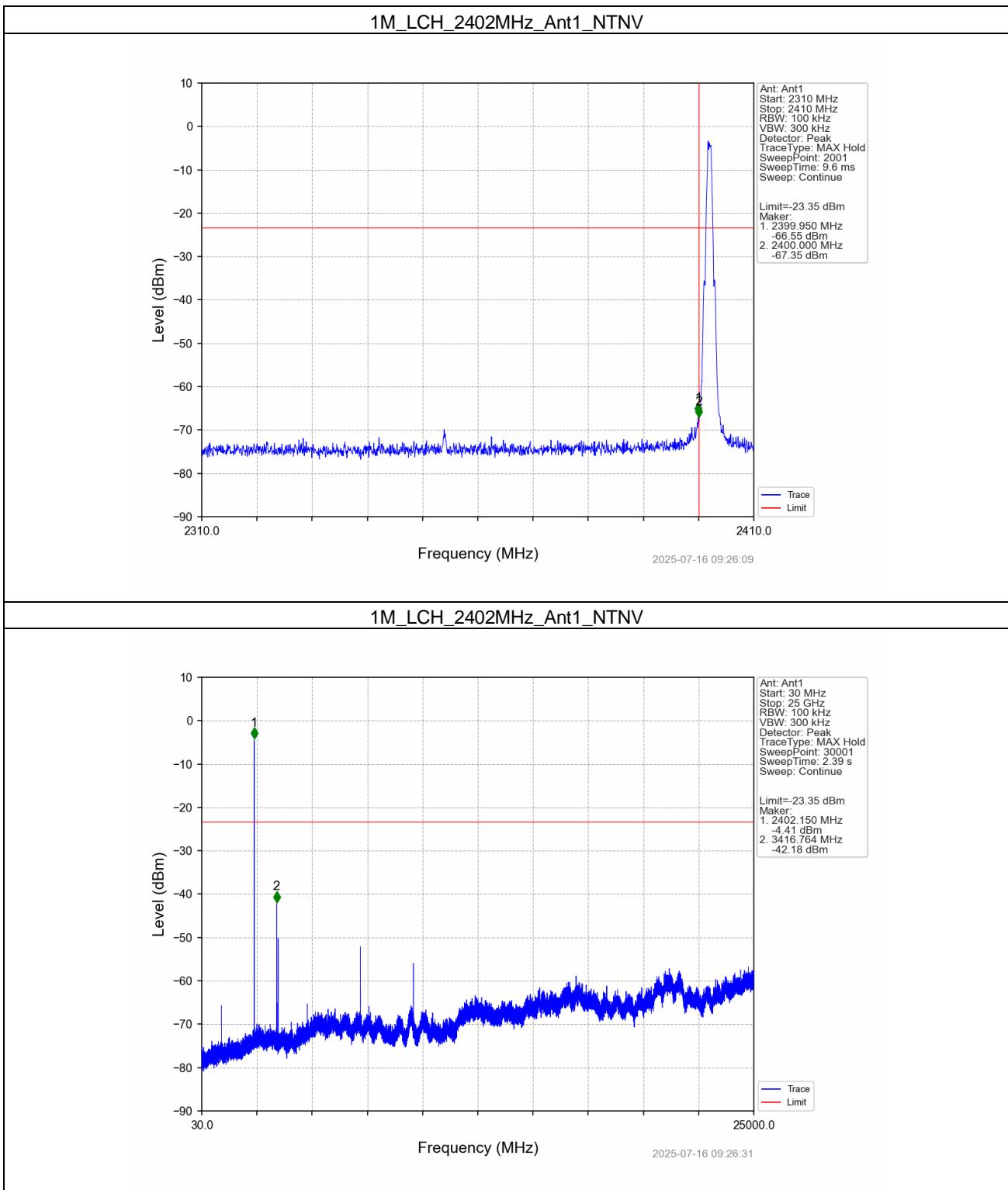
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4.2.2 CSE

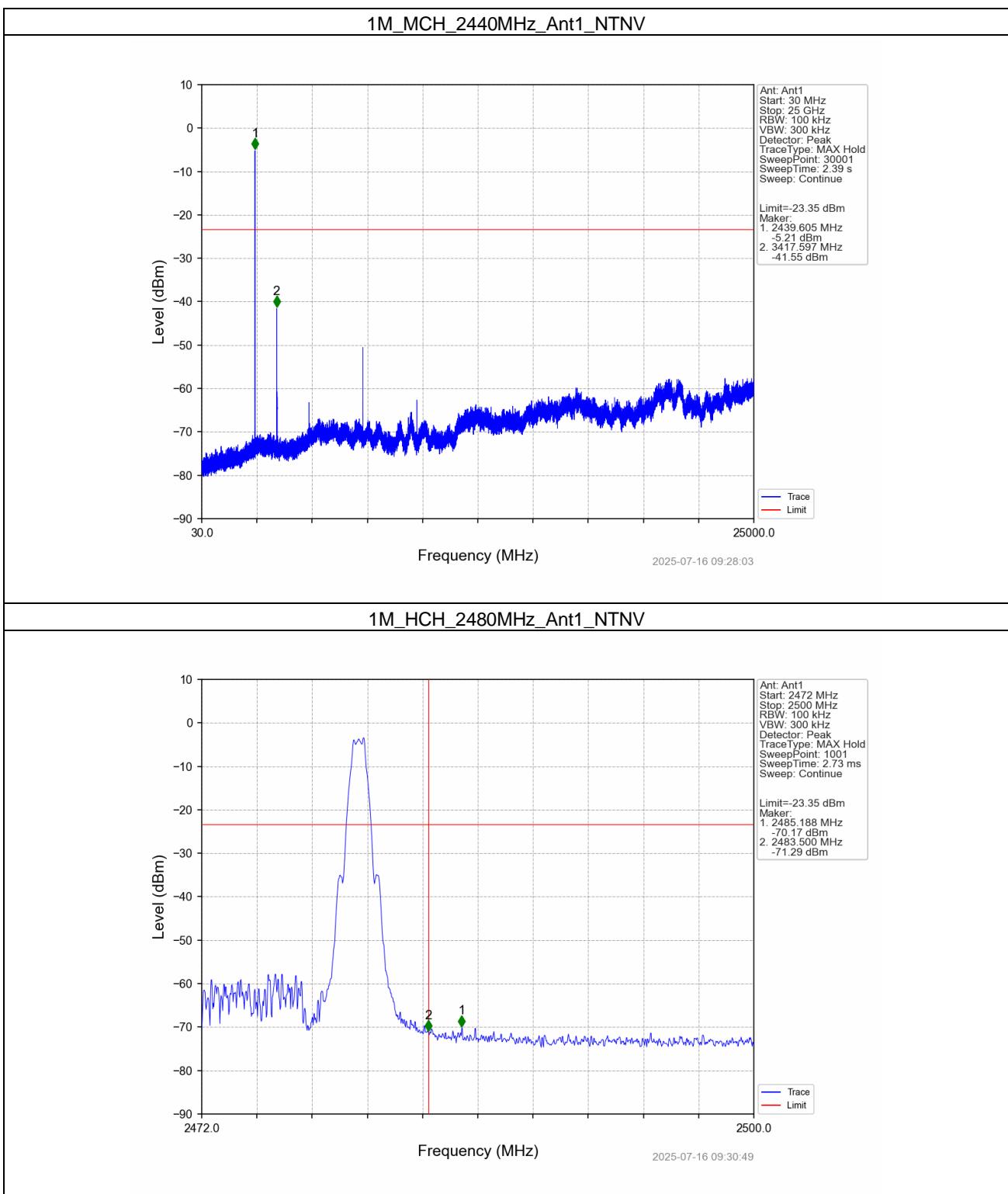


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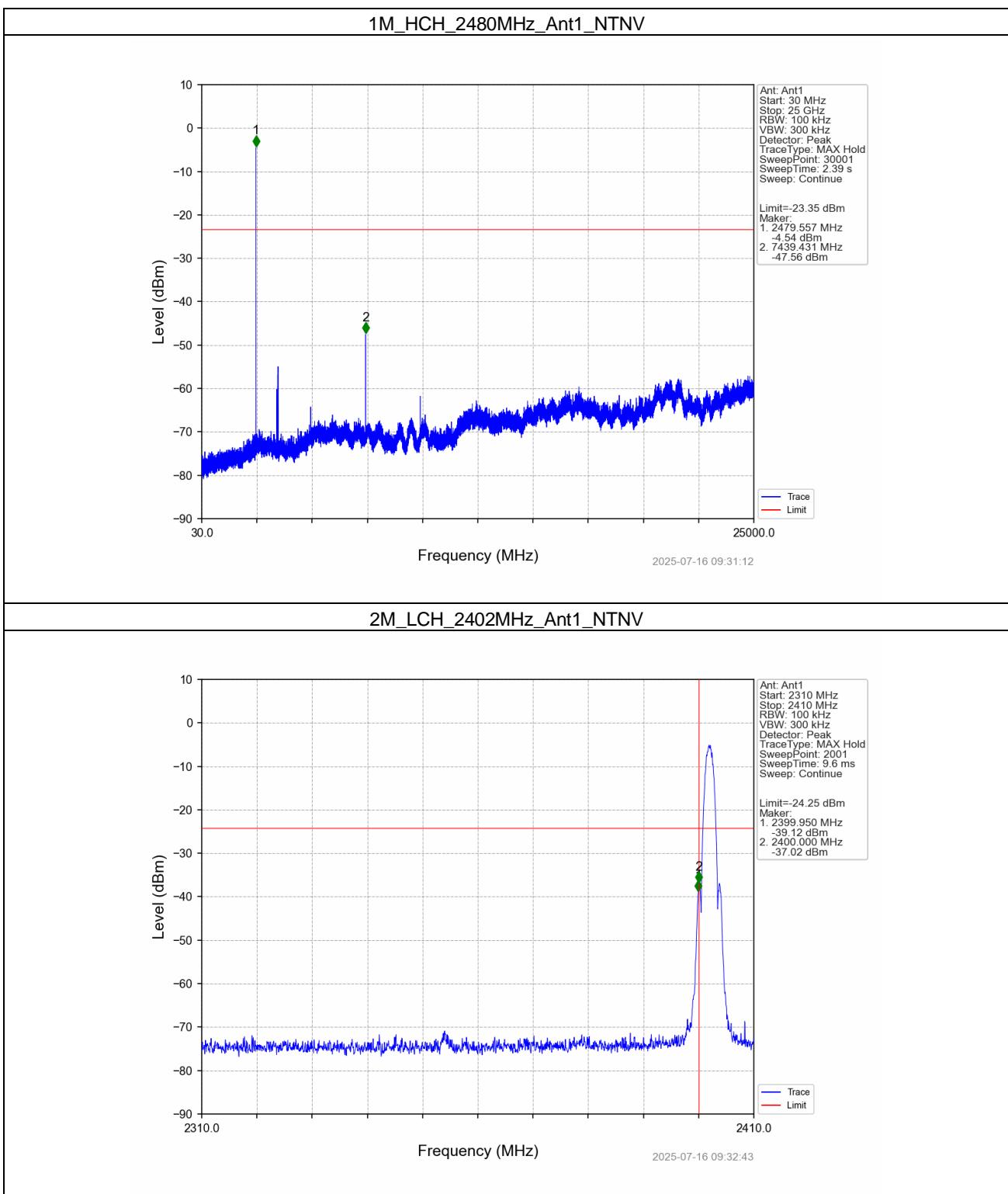


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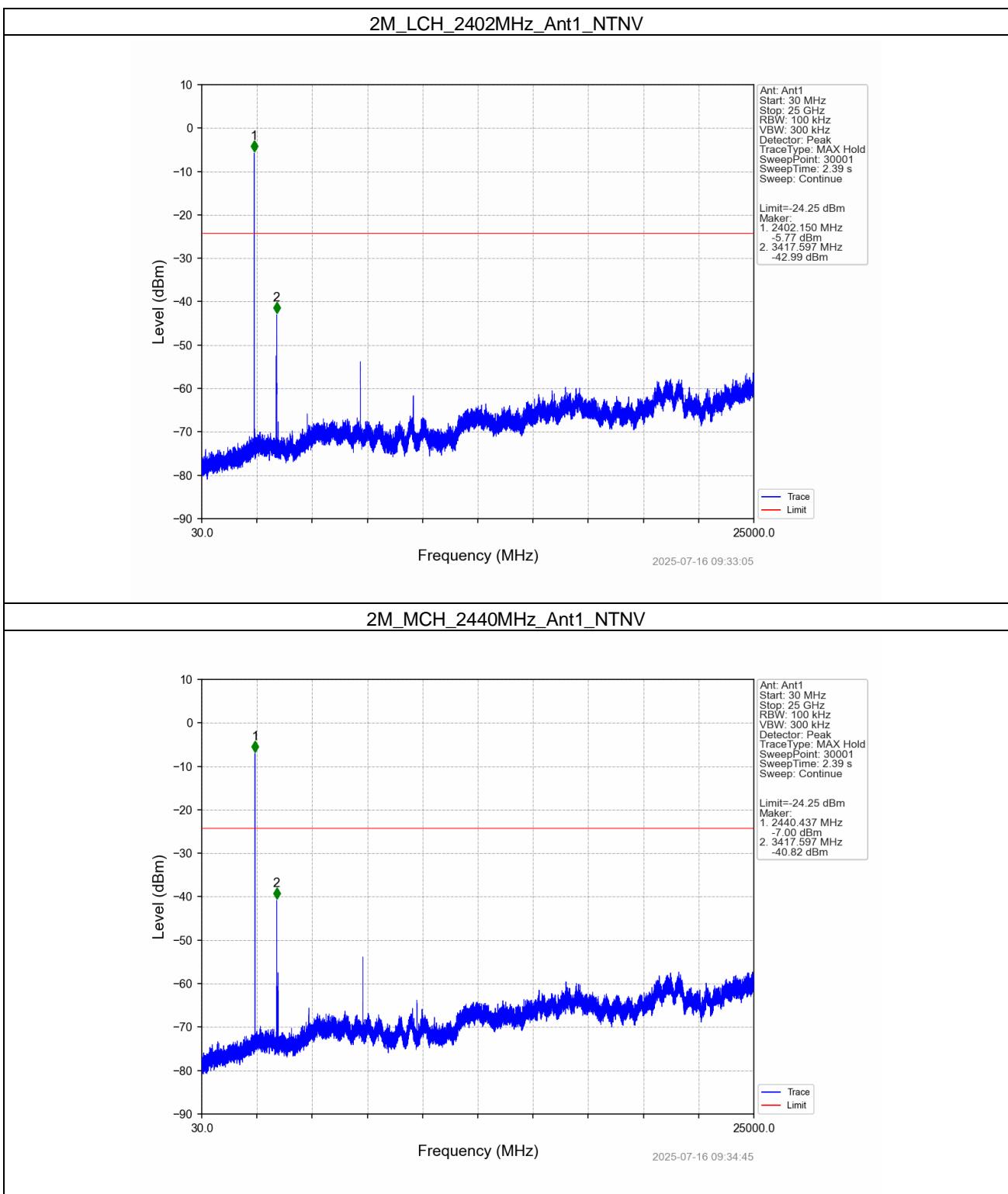


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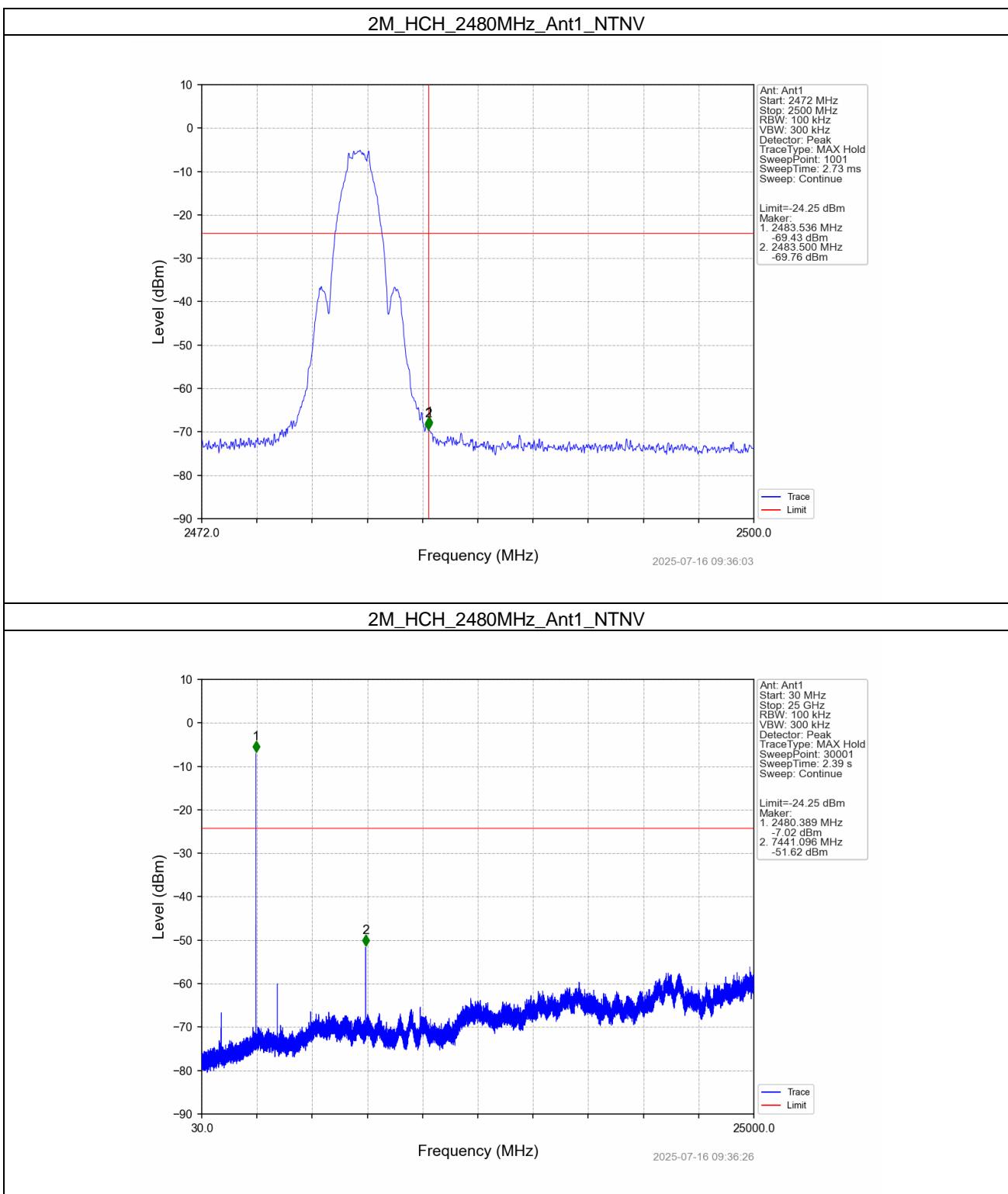


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